

Department of Land Conservation and Development

635 Capitol Street NE, Suite 150 Salem, Oregon 97301-2540 Phone: (503) 373-0050 Fax: (503) 378-5518



NOTICE OF ADOPTED CHANGE TO A COMPREHENSIVE PLAN OR LAND USE REGULATION

Date: April 09, 2015

Jurisdiction: City of Tigard

Local file no.: CPA 2015-00001

DLCD file no.: 002-15

The Department of Land Conservation and Development (DLCD) received the attached notice of adopted amendment to a comprehensive plan or land use regulation on 04/09/2015. A copy of the adopted amendment is available for review at the DLCD office in Salem and the local government office.

Notice of the proposed amendment was submitted to DLCD 47 days prior to the first evidentiary hearing.

Appeal Procedures

Eligibility to appeal this amendment is governed by ORS 197.612, ORS 197.620, and ORS 197.830. Under ORS 197.830(9), a notice of intent to appeal a land use decision to LUBA must be filed no later than 21 days after the date the decision sought to be reviewed became final. If you have questions about the date the decision became final, please contact the jurisdiction that adopted the amendment.

A notice of intent to appeal must be served upon the local government and others who received written notice of the final decision from the local government. The notice of intent to appeal must be served and filed in the form and manner prescribed by LUBA, (OAR chapter 661, division 10).

If the amendment is not appealed, it will be deemed acknowledged as set forth in ORS 197.625(1)(a). Please call LUBA at 503-373-1265, if you have questions about appeal procedures.

DLCD Contact

If you have questions about this notice, please contact DLCD's Plan Amendment Specialist at 503-934-0017 or plan.amendments@state.or.us

DLCD FORM 2



NOTICE OF ADOPTED CHANGE TO A COMPREHENSIVE PLAN OR LAND USE REGULATION

FOR DLCD USE

File No.: 002-15 {22630}

Received: 4/9/2015

Local governments are required to send notice of an adopted change to a comprehensive plan or land use regulation no more than 20 days after the adoption. (See OAR 660-018-0040). The rules require that the notice include a completed copy of this form. This notice form is not for submittal of a completed periodic review task or a plan amendment reviewed in the manner of periodic review. Use Form 4 for an adopted urban growth boundary including over 50 acres by a city with a population greater than 2,500 within the UGB or an urban growth boundary amendment over 100 acres adopted by a metropolitan service district. Use Form 5 for an adopted urban reserve designation, or amendment to add over 50 acres, by a city with a population greater than 2,500 within the UGB. Use Form 6 with submittal of an adopted periodic review task.

Jurisdiction: Tigard

Local file no.: CPA2015-00001

Date of adoption: March 24,2015 Date sent: April 9, 2015

Was Notice of a Proposed Change (Form 1) submitted to DLCD?

Yes: Date (use the date of last revision if a revised Form 1 was submitted): Jan 14, 2015

No

Is the adopted change different from what was described in the Notice of Proposed Change? No Yes If yes, describe how the adoption differs from the proposal:

No

Local contact (name and title): Gary Pagenstecher, Associate Planner

Phone: 503-718-2434 E-mail: garyp@tigard-or.gov

Street address: 13125 SW Hall Blvd. City: Tigard Zip: 97223-

PLEASE COMPLETE ALL OF THE FOLLOWING SECTIONS THAT APPLY

For a change to comprehensive plan text:

Identify the sections of the plan that were added or amended and which statewide planning goals those sections implement, if any:

Tigard 2011 EOA, Goal 9 Economic Development

For a change to a comprehensive plan map:

Identify the former and new map designations and the area affected:

to

Change from A goal exception was required for this change.

Change from to acres. A goal exception was required for this

change.

Change from to A goal exception was required for this acres.

change.

Change from acres. A goal exception was required for this change. to

acres.

Location of affected property (T, R, Sec., TL and address):

The subject property is entirely within an urban growth boundary

The subject property is partially within an urban growth boundary

If the comprehensive plan map change is a UGB amendment including less than 50 acres and/or by a city with a population less than 2,500 in the urban area, indicate the number of acres of the former rural plan designation, by type, included in the boundary.

Exclusive Farm Use – Acres: Non-resource – Acres: Forest – Acres: Marginal Lands – Acres:

Rural Residential – Acres: Natural Resource/Coastal/Open Space – Acres:

Rural Commercial or Industrial – Acres: Other: – Acres:

If the comprehensive plan map change is an urban reserve amendment including less than 50 acres, or establishment or amendment of an urban reserve by a city with a population less than 2,500 in the urban area, indicate the number of acres, by plan designation, included in the boundary.

Exclusive Farm Use – Acres: Non-resource – Acres: Forest – Acres: Marginal Lands – Acres:

Rural Residential – Acres: Natural Resource/Coastal/Open Space – Acres:

Rural Commercial or Industrial – Acres: Other: – Acres:

For a change to the text of an ordinance or code:

Identify the sections of the ordinance or code that were added or amended by title and number:

Tigard 2011 Economic Opportunities Analysis, Slope analysis, Site suitability

For a change to a zoning map:

Identify the former and new base zone designations and the area affected:

Change from to Acres:

Identify additions to or removal from an overlay zone designation and the area affected:

Overlay zone designation: Acres added: Acres removed:

Location of affected property (T, R, Sec., TL and address):

List affected state or federal agencies, local governments and special districts: DLCD, Metro

Identify supplemental information that is included because it may be useful to inform DLCD or members of the public of the effect of the actual change that has been submitted with this Notice of Adopted Change, if any. If the submittal, including supplementary materials, exceeds 100 pages, include a summary of the amendment briefly describing its purpose and requirements.

CITY OF TIGARD, OREGON TIGARD CITY COUNCIL ORDINANCE NO. 15-06

AN ORDINANCE ADOPTING A COMPREHENSIVE PLAN AMENDMENT CPA 2015-00001 TO AMEND THE TIGARD 2011 ECONOMIC OPPORTUNITIES ANALYSIS

WHEREAS, the Tigard 2011 Economic Opportunities Analysis is consistent with Oregon Administrative Rule 660 Division 9; and

WHEREAS, the city has proposed an amendment to the Tigard Comprehensive Plan by 1) acknowledging that slope was not applied as a development constraint factor in the Inventory of Suitable Sites (Land Supply); 2) applying slope as a suitable constraint for properties currently zoned industrial (I-P, I-L, and I-H), and 3) qualifying the Assessment of Potential with respect to slope constraints; and

WHEREAS, the Tigard Planning Commission held a public hearing, which was noticed in accordance with city standards, on March 2, 2015 and recommended approval of the proposed CPA 2015-00001 by motion and with unanimous vote in support; and

WHEREAS, on March 24, 2015, the Tigard City Council held a public hearing, which was noticed in accordance with city standards, to consider the Commission's recommendation on CPA 2015-00001, hear public testimony, and apply applicable decision-making criteria; and

WHEREAS, on March 24, 2015 the Tigard City Council adopted CPA 2015-00001 pursuant to the public hearing and its deliberations; and

WHEREAS, Council's decision to adopt CPA 2015-00001was based on the findings and conclusions found in Exhibits "A" and "B" and the associated land use record which is incorporated herein by reference and is contained in land use file CPA 2015-00001.

NOW, THEREFORE, THE CITY OF TIGARD ORDAINS AS FOLLOWS:

SECTION 1: Tigard Comprehensive Plan is amended to include new text as shown in Exhibit A.

SECTION 2: Tigard City Council adopts the findings and conclusions contained in Exhibit B in support of the Council's action and to be the legislative basis for this ordinance.

SECTION 3: Tigard City Council amends the Tigard 2011 Economic Opportunities Analysis Exhibit C as a component of Tigard Comprehensive Plan Goal 9: Economic Development.

| SECTION 4: | This ordinance shall be effective 30 days after its passage by the Council, signature by the Mayor, and posting by the Deputy City Recorder. |
|------------------|--|
| PASSED: | By 4 Yes / Absent (Snider) vote of all Council members present after being read by number and title only, this 24th day of March, 2015. |
| | Norma I. Alley, Deputy City Recorder |
| APPROVED: | By Tigard City Council this 24th day of March, 2015. |
| | Jahlah |
| | John Gook, Mayor |
| Approved as to f | Orm: |
| Dalle | <u></u> |
| City Attorney | |

3-24-15

Date

AMENDMENT TO THE CITY OF TIGARD'S 2011 ECONOMIC OPPORTUNITIES ANALYSIS (CPA2015-00001) January 8, 2015

This proposed Post Acknowledgment Plan Amendment to the <u>City of Tigard's 2011 Economic Opportunities Analysis (EOA)</u>, 1) acknowledges that slope was not applied as a development constraint factor in the Inventory of Suitable Sites (Land Supply), 2) applies slope as a suitability constraint for properties currently zoned industrial (I-P, I-L, and I-H), and 3) qualifies the Assessment of Potential with respect to slope constraints.

1) The INVENTORY OF SUITABLE SITES (LAND SUPPLY) on page 17 of the 2011 EOA includes the following analysis:

The City's BLI included an analysis of existing vacant and partially vacant (sub-dividable) tax lots by current zoning classification and deducted all significant environmental constraints to estimate buildable land area within the Tigard USB. The land supply analysis focused on the land use classifications that support employment uses, including commercial, mixed-use, and industrial zones.

The buildable land area for each tax lot was derived by analyzing GIS data pertaining to environmental features that would constrain the amount of potential site development on vacant and partially vacant areas. For purposes of this analysis, the environmental constraints were calculated for each site using estimates for land area that is constrained by the following: Metro Title 3 designation (waterways, wetlands, riparian buffers and the 100 year floodplain).

ANALYSIS:

Because the City's Buildable Lands Inventory (BLI) did not apply slope as an environmental constraint, slopes were also not included as a development constraint in the EOA suitability analysis, which was based on the BLI.

FINDING:

Therefore, staff finds and acknowledges that slope was not considered in the EOA's site suitability analysis that determines land supply.

2) Pursuant to Division 9, 660-009-0015(3)(a), the 2011 EOA includes an inventory of vacant and developed lands within the planning area designated for industrial or other employment use, including site characteristics and development constraints that affect the buildable area of sites in the inventory (Appendix G: Buildable Land Inventory).

ANALYSIS:

As an inventory refinement, this amendment applies slope as a potential development constraint. In Exhibit A, Slope Analysis on Buildable Industrial Lands, the city applied a 10% slope threshold to the buildable lands inventory of industrial zoned land to determine where slope is a potential constraint for lots within those zones (Metro 2009 Urban Growth Report uses slopes > 10% as a suitability threshold for industrial uses). Exhibit A shows that slopes greater than 10% exist on portions of 17 lots. However, when field verified, only four (4) of those lots include slopes attributable to general

grades across the property instead of slope variations attributable to minor cuts or fills or embankments within the property and otherwise characterized as generally level ground.

FINDING:

As shown in Exhibit A (Area 2), the suitability of the upland portions of the two largest contiguous vacant lots in the buildable lands inventory zoned I-P, 10.3 acres of 24.16 acres on TL2S101CA00100 and 6.74 acres of 13.25 acres on TL 2S101001100, may be constrained for some industrial uses that would require large-footprint buildings. In addition, all 1.2 acres of TL 2S101DC04100 and .21 acres of contiguous TL 2S101DD00700 zoned I-L (Area 3) would be similarly constrained.

3) The ASSESSMENT OF POTENTIAL (RECONCILIATION OF DEMAND AND SUPPLY) on page 20 of the 2011 EOA includes the following analysis:

Short-Term Land Need Determination

Commercial and industrial properties appear to clearly meet the statutory requirements for short-term land supply, as all of the long-term land supply can be classified as short-term as well as long-term supply. Industrial and commercial properties appear to be well served with adequate infrastructure, and there is an abundant supply of vacant industrial, office and retail building floor area being actively marketed in the Tigard USB today.

Long-Term Land Need Determination

Consistent with EOA documentation requirements, the economic trends analysis of land needs scenarios and the business clusters analysis indicates that the Tigard UPA can add approximately 794 net new industrial jobs without needing to add additional industrial-zoned land over the next 20 years. In light of current downward trends in industrial business activity, the land efficient need scenario appears to be most consistent with regional growth forecasts and anticipated market realities.

Industrial Land Need and Parcel Requirements

As indicated in Table 14, the land efficient need scenario assumes 48 acres of net new industrial vacant land demand, which is just below the estimated vacant industrial land supply of 50 acres. If the City opts to pursue a more aggressive economic growth strategy that is consistent with the moderate or high land need scenario, the City would need to identify another 14 to 30 acres of vacant industrial land area to meet the level of industrial demand associated with adding another 1,059 to 1,324 industrial jobs.

In light of the City's rather limited remaining vacant industrial land supply of tax lots in excess of five acres, the consultant/staff team recommends that the City adopt economic goals and objectives that preserve the remaining large contiguous industrial sites for large industrial employment users. A preliminary expected forecast of demand by parcel size is also provided in Table 14, and assumes that virtually all of the remaining vacant industrial land supply within the Tigard UPA will be absorbed over the next 20 years.

ANALYSIS:

With the city's limited industrial land supply, the city's industrial land need and parcel requirements were characterized by the land efficient need scenario. The slope analysis indicates that the land efficient need scenario still applies but is now potentially in deficit for industrial zoned vacant land.

When slope is considered as a suitability factor, it is apparent that larger industrial/employment use buildings may be constrained on land with slopes greater than 10%. However, other permitted uses in the I-P zone, such as office, would remain feasible. To the extent that some industrial land use building types are constrained, other industrial and employment uses need not be.

The EOA identified target industries for Tigard to include existing, established clusters, such as durable goods manufacturing (includes metals and machinery), education (private and non-profits), financial services, information (including software development), professional and technical services, and wholesale trade and identified emerging clusters, including health care and advanced technology (i.e., green energy) manufacturing and research operations.

Based on the site requirements described in **Table 11** and **Appendix F**, the recommended targeted business clusters will need sites ranging from one to twenty-five acres, with a majority of the need falling in the five to ten-acre range.

Table 12, which shows the distribution of vacant land by lot size and general land use zone classification, remains valid. However, the slope analysis indicates that the only two lots greater than 10 acres may now be considered constrained for large footprint building types. For that type of industrial development, the two lots would practically fall into the five to ten-acre range.

Appendix G, Buildable Land Inventory, remains valid, although the slope constrained portions of lots may not be suitable for some industrial use types.

FINDING:

The 2011 EOA and the applicable Goal Nine policies and action measures adopted for Tigard's Efficient Need Scenario focus on the promotion of well-designed and efficient development of vacant industrial lands and on actions that result in greater, more efficient, utilization of Metro-designated Employment and Industrial Areas. The site suitability analysis, including slope as a constraint, may limit some industrial uses that require large-footprint buildings and reduces the number of unconstrained tax lots greater than 10 acres from two to zero. Tigard's targeted business clusters may be only marginally affected as the majority of sites needed fall within the five to ten-acre range. The slope constraint reduces the suitability of a few sites for some industrial uses, but need not limit the potential for employment use of slope-constrained sites. However, a slope constraint on a third of the vacant industrial zoned land highlights the need to consider job density in employment land development and redevelopment.

Agenda Item: 6

Hearing Date: March 2, 2015 Time: 7:00PM

STAFF REPORT TO THE PLANNING COMMISSION FOR THE CITY OF TIGARD, OREGON



120 DAYS = N/A

SECTION I. APPLICATION SUMMARY

FILE NAME: AMENDMENT TO THE CITY OF TIGARD'S 2011 ECONOMIC

OPPORTUNITIES ANALYSIS

FILE NO.: Comprehensive Plan Amendment (CPA) CPA2015-00001

PROPOSAL: The City proposes to amend the adopted Tigard 2011 Economic Opportunities Analysis, a component of Tigard Comprehensive Plan Goal 9: Economic Development. The proposed amendments: 1) acknowledge that slope was not applied as a development constraint factor in the Inventory of Suitable Sites

(Land Supply), 2) apply slope as a suitability constraint for properties currently zoned industrial (I-P, I-L, and I-H), and 3) qualify the Assessment of Potential with respect

to slope constraints.

APPLICANT: City of Tigard OWNER: N/A

13125 SW Hall Boulevard

Tigard, OR 97223

LOCATION: Citywide

ZONING DESIGNATIONS: I-P, I-L, I-H.

COMP PLAN: Industrial Park, Light Industrial, and Heavy Industrial comprehensive plan

designations

APPLICABLE REVIEW

CRITERIA: Community Development Code Chapters 18.380 and 18.390; Comprehensive Plan

Goals 1, 2, 9; Metro Urban Growth Management Functional Plan Title 4; Oregon

Administrative Rule 660, Division 9; and Statewide Planning Goals 1, 2, and 9.

SECTION II. STAFF RECOMMENDATION

Staff recommends the Planning Commission find this request meets the necessary approval criteria and RECOMMENDS the Tigard City Council amend the Tigard Comprehensive Plan as determined through the public hearing process.

SECTION III. BACKGROUND INFORMATION

Project History

Trammell Crow and the Fields Estate are moving forward with development plans for a portion of the 42 acres of property along Wall Street in Tigard's Hunziker Industrial Core. The portion of the Fields Industrial Property fronting Wall Street includes approximately 17 acres suitable for development consistent with the City's I-P zoning.

The remaining approximately 25 acres are encumbered by a slope ranging from 6 to 10%. Regionally, development professionals consider property with this much slope unsuitable for large footprint industrial development. A study of the Fields Industrial Property has given the City of Tigard an opportunity to review the 2011 Economic Opportunity Analysis (EOA). The 2011 EOA did not take into account slope as an environmental constraint when documenting land supply suitable for industrial and manufacturing uses as part of Tigard's buildable lands inventory (BLI).

According to the Department of Land Conservation and Development, the city can complete a Post Acknowledgement Plan Amendment (PAPA) of the 2011 EOA to acknowledge that slope should be a factor in consideration of land use and zoning. The completion of a PAPA and the findings recognizing that slope should be a factor in accounting for Tigard's supply of property suitable for industrial and manufacturing would apply to similarly affected property throughout the City of Tigard.

According to our 2011 EOA, the City of Tigard is currently in a "land efficient" scenario, where demand for employment land is expected to outpace supply. The proposed amendment identifies approximately 18.4 acres of vacant land on four parcels in the Buildable Lands Inventory (BLI), or one third of the supply, that is constrained by slope. This land supply deficiency further highlights the importance of efficient use of industrial-zoned lands for employment use and the need to consider job density in employment land development and redevelopment.

The proposed amendment (Attachment 1) would amend the *Tigard 2011 Economic Opportunities Analysis* (*Tigard 2011 EOA*) which was developed in compliance with OAR 660 Division 9 (Statewide Planning Goal 9: Economic Development as one of the required Periodic Review work tasks. The 2011 EOA was adopted by Tigard City Council on May 24, 2011. The EOA is a technical study that compares projected demand for land for industrial and other employment uses to the existing supply of such land. The purpose of the *Tigard 2011 EOA* is to improve opportunities for Tigard to attract and maintain the type and quality of employment desired by its citizens, grow its economy, and maintain its quality of life. Goal 9 emphasizes the preservation and protection of vacant land for industrial and employment uses. Policies were adopted to ensure an adequate supply of industrial and other employment lands within the City of Tigard.

During the 2011 effort, the Tigard Planning Commission acted as the advisory committee for the project, reviewing each task during the process to complete the *Tigard 2011 EOA*. The six tasks reviewed by the Planning Commission included:

- 1. Economic Development Vision and Goals
- 2. Economic Trends Analysis
- 3. Site Suitability Analysis (Land Demand)
- 4. Inventory of Suitable Sites (Land Supply)
- 5. Assessment of Potential (Reconciliation of Demand and Supply)

6. Implementation Policies and Action Measures

The proposed amendment addresses tasks 3, 4, and 5 and provides amended findings. As amended, the *Tigard 2011 EOA* will continue to meet the state requirements for an economic opportunities analysis and serve as a component of the *Tigard Comprehensive Plan* Goal 9. It will continue to act as a resource for staff, decision makers, and the public.

Proposal Description

The City proposes to amend the City of Tigard's 2011 Economic Opportunities Analysis to:

- 1) Acknowledge that slope was not applied as a development constraint factor in the Inventory of Suitable Sites (Land Supply),
- 2) Apply slope as a suitability constraint for properties currently zoned industrial (I-P, I-L, and I-H), and
- 3) Qualify the Assessment of Potential with respect to slope constraints.

The proposed amendment will ensure that the EOA better represents the available land supply so that the City's Comprehensive Plan remains a viable tool for decision-makers. By adopting the amendment, the City will ensure it remains in compliance with applicable laws, rules, regulations, plans, and programs.

SECTION IV. SUMMARY OF REPORT

Applicable criteria, Commission findings and conclusions

- Tigard Community Development Code
 - o Chapter 18.380
 - o Chapter 18.390
- Applicable Comprehensive Plan Policies
 - o Chapter 1: Citizen Involvement
 - O Chapter 2: Land Use Planning
 - o Chapter 9: Economic Development
- Metro Urban Growth Management Functional Plan Title 4
- Oregon Administrative Rule 660, Division 9
- Statewide Planning Goals
 - o Goals 1, 2, and 9

SECTION V. APPLICABLE CRITERIA AND COMMISSION FINDINGS

CITY OF TIGARD COMMUNITY DEVELOPMENT CODE (TITLE 18)

Chapter 18.380: Zoning Map and Text Amendments

Chapter 18.380.020 Legislative Amendments to the Title and Map

A. Legislative amendments. Legislative zoning map and text amendments shall be undertaken by means of a Type IV procedure, as governed by Section 18.309.060G

<u>Findings</u>: The proposal is an amendment to the Tigard Comprehensive Plan, which provides analysis to support policies to be applied generally throughout the City of Tigard; therefore, the application is being processed as a Type IV procedure, Legislative Amendment, as governed by Section 18.390.060G.

Chapter 18.390: Decision-Making Procedures

Chapter 18.390.020. Description of Decision-Making Procedures

B.4. Type IV Procedure. Type IV procedures apply to legislative matters. Legislative matters involve the creation, revision, or large-scale implementation of public policy. Type IV matters are considered initially by the Planning Commission with final decisions made by the City Council.

<u>Findings</u>: The proposal is an amendment to the Tigard Comprehensive Plan, which establishes policies to be applied generally throughout the City of Tigard. Therefore, it is being reviewed under the Type IV procedure as detailed in Section 18.390.060.G. In accordance with this section, the amendment will be initially considered by the Planning Commission with City Council making the final decision.

Chapter 18.390.060.G. Decision-making considerations. The recommendation by the Commission and the decision by the Council shall be based on consideration of the following factors:

- 1. The Statewide Planning Goals and Guidelines adopted under Oregon Revised Statutes Chapter 197;
- 2. Any federal or state statutes or regulations found applicable;
- 3. Any applicable Metro regulations;
- 4. Any applicable comprehensive plan policies; and
- 5. Any applicable provisions of the City's implementing ordinances.

<u>Findings</u>: The Commission reviewed applicable Statewide Planning Goals, Metro Urban Growth Management Functional Plan, Oregon Administrative Rule 660, Division 9, the Tigard Community Development Code, and the Tigard Comprehensive Plan. As indicated, pursuant to the Commission's findings and conclusions found within this staff report, the amendment is consistent with the applicable factors.

<u>CONCLUSION</u>: Based on the analysis above, the Commission finds that the proposed amendment satisfies the applicable review criteria within the Tigard Community Development Code.

CITY OF TIGARD COMPREHENSIVE PLAN POLICIES:

General Findings

<u>Finding</u>: The City's Comprehensive Plan was adopted by the Tigard City Council in 1983, and acknowledged as being in conformance with the Statewide Planning Goals by the Land Conservation and Development Department (LCDC) on October 11, 1984. LCDC re-acknowledged the plan's compliance with the statewide planning goals through the Periodic Review process. The 2011 EOA was adopted May 24, 2011 as Task 3 of Periodic Review.

<u>Finding</u>: The Commission finds that the following Comprehensive Plan goals and policies apply to the amendment and the amendment satisfies the applicable goals and policies for the reasons stated below. During the course of public hearings, the Community Development Department and the Planning Commission provided all interested parties opportunities to identify, either orally or in writing, any other Comprehensive Plan goals or policies that might apply to the amendment. No additional provisions were identified.

Chapter 1: Citizen Involvement

Goal 1.1 Provide citizens, affected agencies, and other jurisdictions the opportunity to participate in all phases of the planning process.

Policy 2. The City shall define and publicize an appropriate role for citizens in each phase of the land use planning process.

<u>Findings</u>: The proposal has complied with all notification requirements pursuant to Chapter 18.390.060 of the Tigard Community Development Code. This staff report was also available seven days in advance of the hearing pursuant to Chapter 18.390.070.E.b of the Tigard Community Development Code.

As part of the Comprehensive Plan Amendment process, public notice of the Planning Commission and City Council public hearings was sent to the interested party list and published in the February 12, 2015 issue of The Times. The notice invited public input and included the phone number of a contact person to answer questions. The notice also included the address of the City's webpage where the entire draft of the proposed amendment could be viewed.

Chapter 2: Land Use Planning

Goal 2.1 Maintain an up-to-date Comprehensive Plan, implementing regulations and action plans as the legislative basis of Tigard's land use planning program.

Policy 1: The City's land use program shall establish a clear policy direction, comply with state and regional requirements, and serve its citizens' own interests.

<u>Findings</u>: The proposed amendment refines the findings of the EOA in support of the general policy direction related to Tigard Comprehensive Plan Goal 9: Economic Development for the community. The policy statements are clear and serve the interests of the citizens. The development of the Tigard 2011 Economic Opportunities Analysis was required as a component of State Periodic Review and complies with Oregon Administrative Rule 660, Division 9, which governs the development of these studies in the state.

Policy 2: The City's land use regulations, related plans, and implementing actions shall be consistent with and implement its Comprehensive Plan.

<u>Findings</u>: The proposed amendment refines the findings of the EOA in support of the general policy direction related to Tigard Comprehensive Plan Goal 9: Economic Development for the community. The Tigard 2011 Economic Opportunities Analysis compares projected demand to current supply of vacant employment and industrial lands to ensure the City's policies and implementing actions are sufficient to

preserve the needed 20-year supply of these vacant lands. The development of the Tigard 2011 EOA used current Tigard Comprehensive Plan policies and land use designations as part of the analysis of future vacant land needs as required by state law. The amendment is consistent with this policy.

Policy 3. The City shall coordinate the adoption, amendment, and implementation of its land use program with other potentially affected jurisdictions and agencies.

<u>Findings</u>: The City sent out request for comments on the proposed amendment to all potentially affected jurisdictions and agencies. All were given 14 days to respond. Any comments that were received are addressed in Section VII: Outside Agency Comments of this Staff Report. Additionally, Department of Land Conservation and Development staff provided input throughout the development of the proposed amendment.

Policy 5. The City shall promote intense urban level development in Metro-designated Centers and Corridors, and employment and industrial areas.

Findings: The Tigard 2011 EOA identified and acknowledged the City's desire for, and the potential for redevelopment of these areas. Assumptions made about redevelopment and refill potential were based on City policy and Metro guidance to determine the amount of vacant employment and industrial lands needed for the next 20-years. The site suitability analysis, including slope as a constraint, may limit some industrial uses that require large-footprint buildings and reduces the number of unconstrained tax lots greater than ten acres from two to zero. Tigard's targeted business clusters may be only marginally affected as the majority of sites needed fall within the five to ten-acre range. The slope constraint reduces the suitability of a few sites for some industrial uses, but need not limit the potential for employment use of slope-constrained sites. However, a slope constraint on a third of the vacant industrial zoned land highlights the need to consider job density in employment land development and redevelopment. The proposed amendment is consistent with the policy.

Policy 20. The City shall periodically review and if necessary update its Comprehensive Plan and regulatory maps and implementing measures to ensure they are current and responsive to community needs, provide reliable information, and conform to applicable state law, administrative rules, and regional requirements.

<u>Findings</u>: The proposed amendment refines the findings of the Tigard 2011 EOA to take into account slope as a limiting site suitability factor for some industrial uses. The amendment ensures the Tigard 2011 EOA is reliable with up-to-date information regarding slope analyses to determine the 20-year vacant employment and industrial land needs. The Tigard 2011 EOA ensures compliance with Oregon Administrative Rule 660-009, which governs economic development planning in the state and requires this analysis. Findings of conformance to applicable state and regional requirements can be found in Section V of this Staff Report.

Chapter 9: Economic Development

Goal 9.1 Develop and maintain a strong, diversified, and sustainable local economy.

<u>Findings</u>: The proposed amendment refines the findings of the Tigard 2011 EOA, which compared the 20-year projected demand for employment and industrial land to the existing supply. The EOA found that the

land efficient need scenario would provide the necessary 20-year supply of vacant employment and industrial lands. The 2011 EOA and the applicable Goal 9 policies and action measures adopted for Tigard's Efficient Need Scenario focus on the promotion of well-designed and efficient development of vacant industrial lands and on actions that result in greater, more efficient, utilization of Metro-designated Employment and Industrial Areas. The site suitability analysis, including slope as a constraint, may limit some industrial uses that require large-footprint buildings and reduces the number of unconstrained tax lots greater than ten acres from two to zero. Tigard's targeted business clusters may be only marginally affected as the majority of sites needed fall within the five to ten-acre range. The slope constraint reduces the suitability of a few sites for some industrial uses, but need not limit the potential for employment use of slope-constrained sites. However, a slope constraint on a third of the vacant industrial zoned land highlights the need to consider job density in employment land development and redevelopment.

CONCLUSION: Based on the analysis above, the Commission finds that the proposed amendment satisfies the applicable goals and policies contained in the City of Tigard Comprehensive Plan.

METRO URBAN GROWTH MANAGEMENT FUNCTIONAL PLAN TITLE 4

Findings: The Regional Framework Plan calls for a strong regional economy. To improve the economy, Title 4 seeks to provide and protect a supply of sites for employment by limiting the types and scale of non-industrial uses in Regionally Significant Industrial Areas (RSIAs), Industrial and Employment Areas. Title 4 also seeks to provide the benefits of "clustering" to those industries that operate more productively and efficiently in proximity to one another than in dispersed locations. Title 4 further seeks to protect the capacity and efficiency of the region's transportation system for the movement of goods and services and to encourage the location of other types of employment in Centers, Corridors, Main Streets and Station Communities.

Metro staff has confirmed that the City of Tigard is in compliance with Title 4. The development of the Tigard 2011 Economic Opportunities Analysis involved discussions with Metro staff and Oregon Department of Land Conservation and Development staff. They were provided the opportunity to review and comment on all work leading up to the document proposed for adoption. The purpose of the collaboration was to ensure consistency and compliance with state and regional requirements.

This amendment (CPA2015-00001) applies slope as a suitability factor for industrial uses in Tigard's industrial zones but does not otherwise affect compliance with Title 4.

<u>CONCLUSION</u>: Based on the analysis above, the Commission finds that the proposed amendment is consistent with the Metro Urban Growth Management Functional Plan Title 4.

OREGON ADMINISTRATIVE RULE 660, DIVISION 9

<u>Findings</u>: The Land Conservation and Development Commission adopted Oregon Administrative Rule 660, Division 9 to implement Statewide Planning Goal 9 and "to provide an adequate land supply for economic development and employment growth in Oregon." The development of the Tigard 2011 Economic Opportunities Analysis and this proposed amendment complied with the rules outlined in Section 30, which requires multi-jurisdiction coordination. This was accomplished through collaboration with the Oregon Department of Land Conservation and Development and Metro, to ensure consistency with policies and regulations associated with Division 9 and the Metro Urban Growth Management

Functional Plan Title 4. Both organizations were given the opportunity to review and comment on the proposed amendment.

In addition, the proposed amendment to the Tigard 2011 EOA followed the rules set forth in Sections 15. Section 15 outlines the necessary elements of an economic opportunities analysis, including the inventory of industrial and other employment lands. The proposed amendment applies slope as a development constraint within the City's industrial zones. The proposed amendment is in compliance with Division 9.

CONCLUSION: Based on the analysis above, the Commission finds that the proposed amendment satisfies the requirements of Oregon Administrative Rule 660, Division 9.

THE STATEWIDE PLANNING GOALS AND GUIDELINES ADOPTED UNDER OREGON REVISED STATUTES CHAPTER 197

Statewide Planning Goal 1 - Citizen Involvement:

This goal outlines the citizen involvement requirement for adoption of Comprehensive Plans and changes to the Comprehensive Plan and implementing documents.

<u>Findings</u>: As part of the Comprehensive Plan Amendment process, public notice of the Planning Commission and City Council public hearings was sent to the interested parties list and published in the February 12, 2015 issue of The Times (in accordance with Tigard Development Code Chapter 18.390). The notice invited public input and included the phone number of a contact person to answer questions. The notice also included the address of the City's webpage where the entire draft of the text changes could be viewed.

Statewide Planning Goal 2 - Land Use Planning:

This goal outlines the land use planning process and policy framework. The Comprehensive Plan was acknowledged by DLCD as being consistent with the statewide planning goals.

<u>Findings</u>: The proposed amendment to the Tigard Comprehensive Plan is being undertaken to update the City's acknowledged Comprehensive Plan in a manner consistent with current conditions. The amendment to the Tigard Comprehensive Plan is being processed as a Type IV procedure, which requires any applicable statewide planning goals, federal or state statutes or regulations, Metro regulations, comprehensive plan policies, and City's implementing ordinances, be addressed as part of the decision-making process. All applicable review criteria have been addressed within this staff report; therefore, the requirements of Goal 2 have been met.

Statewide Planning Goal 9: Economic Development

To provide adequate opportunities throughout the state for a variety of economic activities vital to the health, welfare, and prosperity of Oregon's citizens.

<u>Findings</u>: The City is currently in compliance with Goal 9 and Metro's Title 4: Industrial and Other Employment Areas through its acknowledged Comprehensive Plan. The proposed amendment updates the Tigard 2011 EOA, which was completed following the rules outlined in Division 9 and compares projected demand to current supply of vacant employment and industrial lands to ensure the City's policies and implementing actions are sufficient to preserve the needed 20-year supply of these vacant lands. The Department of Land Conservation and Development, who administers Division 9, was consulted through the development process and were requested to submit comments. The adoption of the

proposed amendment to the Tigard 2011 EOA as a part of Tigard's Comprehensive Plan maintains the City's compliance with Goal 9.

CONCLUSION: Based on the analysis above, the Commission finds that the proposed amendment is consistent with the applicable Statewide Planning Goals.

SECTION VI. ADDITIONAL CITY STAFF COMMENTS

The City of Tigard's Current Planning Division, Administrative Department, Public Works Department, and Police Department have had an opportunity to review this proposal and have no objections.

CONCLUSION: Based on no comment from City staff, staff finds the proposed amendment does not interfere with the best interests of the City.

SECTION VII. OUTSIDE AGENCY COMMENTS

The following agencies/jurisdictions had an opportunity to review this proposal and did not respond:

Metro Land Use and Planning, Washington County Department of Land Use and Transportation

Oregon Department of Land Conservation and Development reviewed the proposal and provided verbal comment that they had no objections.

<u>CONCLUSION:</u> Based on responses from outside agencies listed above, the Commission finds the proposed amendment meets all requirements of these agencies and is consistent with the best interests of the City.

SECTION VIII. CONCLUSION

The proposed amendment complies with the applicable Statewide Planning Goals, applicable regional, state and federal regulations, the Tigard Comprehensive Plan, and applicable provisions of the City's implementing ordinances.

Therefore, Staff recommends that the Planning Commission recommend approval of the Comprehensive Plan Amendment to the Tigard City Council, as determined through the public hearing process.

ATTACHMENT:

| EXHIBIT A: PROPOSED AMENDMENT TO TH | E CITY OF TIGARD'S 2011 ECONCOMIC |
|-------------------------------------|-----------------------------------|
| OPPORTUNITIES ANALYIS | |
| | |
| Geny aguita | February 23, 2015 |
| PREPARED BY: Gary Pagenstecher | DATE |
| Associate Planner | |
| / / / / / | |
| Miller | February 23, 2015 |
| APPROVED BY: Kenny Asher | DATE |
| Community Development Director | |

City of Tigard 2011 Economic Opportunities Analysis

Adopted by Tigard City Council on May 24, 2011

Prepared By

Cogan Owens Cogan, LLC FCS GROUP

This report was funded by an Oregon Department of Land Conservation and Development Department Periodic Review Grant.

ACKNOWLEDGEMENTS

Tigard City Council

Craig Dirksen, Mayor Gretchen Buehner, Council President Marland Henderson Nick Wilson Mark Woodard

Tigard Planning Commission/Advisory Committee

David Walsh, President
Tom Anderson, Vice President
Margaret Doherty
Stuart Hasman
Matthew Muldoon
Karen Ryan
Jason Rogers
Donald Schmidt
Richard Shavey

Cogan Owens Cogan, LLC

Kirstin Greene, AICP, Managing Principal Steve Faust, AICP, Senior Planner Ellie Fiore, AICP, Senior Planner

FCS Group

Todd Chase, AICP, Senior Economist

City of Tigard Staff

Ron Bunch, Community Development Director Susan Hartnett, AICP, Assistant Community Development Director Craig Prosser, City Manager Darren Wyss, Senior Planner and Project Manager Sean Farrelly, Redevelopment Project Manager

TABLE OF CONTENTS

Executive Summary – i Introduction – 1 Economic Development Vision and Goals – 1 Economic Trends Analysis – 2 Business Clusters Analysis – 9 Targeted Business Clusters – 12 Site Suitability Analysis (Land Demand) – 13 Inventory of Suitable Sites (Land Supply) – 16 Short-Term Land Supply Determination – 18 Assessment of Potential (Reconciliation of Demand and Supply) – 19 Short-Term Land Need Determination – 19 Long-Term Land Need Determination – 19 Planning, Market, Cost and Risk Factors - 21 Implementation Policies and Action Measures – 22 Policies – 22 Recommended Action Measures – 23 Appendices | A. Office Leasing Activity Summary, Mid-Year Report – 26 B. Industrial Leasing Activity, Mid-Year 2010 Report – 27 C. Analysis of Employment and Space Needs – 28 D. Analysis of Retail Inflow/Outflow – 32 E. Summary of Tigard Employment Zones and Regulations – 33 F. Typical Site Requirements for Development Types -37G. Buildable Land Inventory – 38 H. Redevelopment Land Inventory – 39 I. Summary of Stakeholder Interviews – 40 J. Map of Buildable Lands and Redevelopment/Refill Potential – 44

Executive Summary

The City of Tigard has conducted an Economic Opportunities Analysis (EOA) as required by its Periodic Review work program to update its Comprehensive Plan. The City received grant funds from the Department of Land Conservation and Development (DLCD) for technical consultant assistance to complete this task. The EOA was developed in compliance with OAR 660 Division 9 (Statewide Planning Goal 9: Economic Development). The EOA is in-part a technically-based study that compares projected demand for land for industrial and other employment uses to the existing supply of such land. At the same time, it provides economic development policies and actions consistent with emerging economic opportunities, market trends, and local vision

Vision and Goals

In March 2008, as part of a robust public process, the City of Tigard updated the Economic Development chapter of its Comprehensive Plan. The chapter included the City's vision and goals for economic development to read:

Vision

The City shall have a strong and resilient local economy with a diverse portfolio of economic activity: retail, professional service and industrial jobs.

Goals

- 1. Develop and maintain a strong, diversified and sustainable local economy.
- 2. Make Tigard a center and incubator for innovative businesses including those that focus on environmental sustainability.
- 3. Make Tigard a prosperous and desirable place to live and do business.

Demographic and Employment Trends

Tigard has been increasing in population at a slower rate (1.3%) than Washington County, but above Oregon and national growth rates. Tigard population is estimated to be 47,460 as of 2009, up from 42,260 residents in 2,000. Tigard currently is relatively "jobs rich" with a positive ratio of 2.3 jobs per household, which is well above the tri-county Metro regional average of 1.5 jobs per household. This is understandable given Tigard's concentration of regional employment centers, including Washington Square Mall, the "Tigard Triangle" employment area near the confluence of I-5/Hwy. 217, and pockets of industrial uses along the Hwy. 217 corridor.

Tigard also is home to a number of large retail employers at Washington Square Mall as well as several large high-tech manufacturing, construction contractors, professional, business operations, and state and local government operations. Regional commercial and industrial real estate brokers see Tigard as a well-defined submarket within the suburban Metro region. Tigard's office market is especially competitive within the inner southwest portion of the region. Additionally, various efforts are underway to make the Downtown Tigard area a more viable place to live and work.

Target Industries

In line with Tigard's vision and goals, and in consultation with the City Planning Commission, the consultant team and City staff recommend that the City focus on retaining and attracting a mix of existing and emerging business clusters that pay above average wages. This includes existing, established clusters such as:

- Durable goods manufacturing (includes metals and machinery)
- Education (private and non-profits)

- Financial services
- Information (including software development)
- Professional and technical services
- Wholesale trade

They also recommend that the City focus on emerging clusters, including health care and advanced technology (i.e., green energy) manufacturing and research operations.

Tigard's Land Demand and Supply

The consulting team prepared a range of land need forecasts including: efficient, medium, and high land needs scenarios. These scenarios all take into account the Metro employment forecasts, but assume varying levels of industrial development and redevelopment.

As summarized in the table below, the land efficient need scenario assumes 48 acres of net new industrial vacant land demand, which is just below the estimated vacant industrial land supply of 50 acres. If the City chooses to pursue a more aggressive economic growth strategy that is consistent with the moderate or high land need scenario, the City would need to identify another 14 to 30 acres of vacant industrial land area to meet the level of industrial demand associated with adding another 1,059 to 1,324 industrial jobs.

20-Year Industrial Demand Forecast and Vacant Land Supply, Tigard USB

| Land Demand and Supply | Efficient Land Need Scenario | Moderate Land Need Scenario | High Land Need Scenario |
|-------------------------------------|------------------------------------|--------------------------------|-------------------------------|
| Demand for Vacant Industrial Land | 48 | 64 | 80 |
| Supply of Vacant Industrial Land | 50 | 50 | 50 |
| Land Surplus or (Deficit) | 2 | (14) | (30) |

| Edita sorpios or (Bellett) | _ | 1171 | 100) |
|---|--|---|-----------------------|
| Preliminary Parcel Distribution, Efficient Land Need Forecast ¹ | Existing Unconstrained Supply (tax lots) | Forecast of Parcel Size Demand (tax lots) 1/ | Surplus (tax lots) |
| Less than 1 acre | 12 | 10 | 2 |
| 1 to 5 acres | 5 | 5 | 0 |
| 5 to 10 acres | 0 | 0 | 0 |
| 10 to 20 acres | 2 | 2 | 0 |
| 20+ acres | 0 | 0 | 0 |
| Total | 19 | 17 | 2 |

Notes: 1 Tax lot demand forecast expected to meet or exceed supply in 20 years.

Source: Based on findings included in demand and supply analysis.

As shown in the table below, the land efficient needs scenario assumes 78 acres of net new commercial and mixed-use vacant land demand, which is just below the estimated vacant land supply of 86 acres. As with the industrial land needs, an economic growth strategy that is consistent with the moderate or

high land needs scenario would require the City to identify an additional 19 to 45 acres of vacant commercial and mixed-use land to meet the demand.

Reconciliation of Long-term Land Demand and Supply Commercial and Mixed Use

20-Year Land Use Forecast (gross buildable gcres), Tiggrd USB

| Land Demand and Supply | Efficient Land Need Scenario | Medium Land Need Scenario | High Land Need Scenario |
|---|---------------------------------|-------------------------------------|-------------------------------|
| Demand for Vacant Commercial Land | 78 | 105 | 131 |
| Commercial Demand | 51 | 68 | 85 |
| Mixed-Use Demand | 27 | 36 | 45 |
| Supply of Vacant Commercial Land | 86 | 86 | 86 |
| Commercial Zoned Supply | 46 | 46 | 46 |
| Mixed-Use Zoned Supply | 40 | 40 | 40 |
| Land Surplus or (Deficit) | 8 | (19) | (45) |
| Preliminary Parcel Distribution, Efficient Need Forecast | Existing Supply (tax lots) | Forecast of Demand (tax lots) | Surplus (tax lots) |
| Less Than 1 acre | 89 | 30 | 59 |
| 1 to 5 acres | 14 | 14 | 0 |
| 5 to 10 acres | 3 | 3 | 0 |
| 10 to 20 acres | 0 | 0 | 0 |
| 20+ acres | 0 | 0 | 0 |
| Total | 106 | 47 | 59 |

Source: FCS GROUP, based on findings included in demand and supply analysis.

Recommendations

In accordance with the proposed vision and goals, the consulting team and City staff recommends the City pursue the "efficient land need scenario". The implications of this recommendation are that the City will focus a significant portion of future employment growth and high-density housing development in its Metro-designated Town Center (Downtown); Regional Center (Washington Square); High Capacity Transit Corridor (Hwy 99W); and the Tigard Triangle.

More detailed information on employment trends and projections, and land needs and supply is found throughout the remainder of the document.

INTRODUCTION

The City of Tigard has conducted an Economic Opportunities Analysis (EOA) as required by its Periodic Review work program. The City received grant funds from the Department of Land Conservation and Development (DLCD) for technical consultant assistance to complete this task. The EOA was developed in compliance with OAR 660 Division 9 (Statewide Planning Goal 9: Economic Development) and is a technical study that compares projected demand for land for industrial and other employment uses to the existing supply of such land.

The purpose of the EOA is to improve opportunities for Tigard to attract and maintain the type and quality of employment desired by its citizens, grow its economy, and maintain its quality of life. Goal 9 emphasizes the preservation and protection of vacant land for industrial and employment uses. This will happen by adopting policies that ensure an adequate supply of industrial and other employment lands within the City of Tigard.

The Tigard Planning Commission acted as the advisory committee for the project, reviewing each task during the process to complete the EOA. The anticipated outcomes of the project are:

- 1. An understanding of the characteristics of Tigard's employment lands and their adequacy to accommodate future economic activity;
- Updated economic development policies and action measures as a basis to plan for a supply of appropriately zoned land necessary for existing businesses to expand and to accommodate future economic activities.

The six tasks reviewed by the Planning Commission included:

- 1. Economic Development Vision and Goals
- 2. Economic Trends Analysis
- 3. Site Suitability Analysis (Land Demand)
- 4. Inventory of Suitable Sites (Land Supply)
- 5. Assessment of Potential (Reconciliation of Demand and Supply)
- 6. Implementation Policies and Action Measures

The process and findings of these tasks are outlined in detail throughout the remainder of the EOA. This includes examining key demographic and employment opportunities and trends to assess Tigard's economic development potential, projecting employment growth, and determining short- and long-term demand for employment land. This demand is compared to an inventory of suitable commercial and industrial properties (supply) to assess the sufficiency of immediate and longer term (20-year) supply of commercial and industrial employment land in the City's Urban Planning Area (UPA). Finally, economic development policies and action measures are recommended for inclusion in the Tigard Comprehensive Plan.

ECONOMIC DEVELOPMENT VISION AND GOALS

In March 2008, as part of a robust public process, the City of Tigard updated the Economic Development chapter of its Comprehensive Plan. The chapter included the City's vision and goals for economic development:

Vision

The City shall have a strong and resilient local economy with a diverse portfolio of economic activity: retail, professional service and industrial jobs.

Goals

- 1. Develop and maintain a strong, diversified and sustainable local economy.
- 2. Make Tigard a center and incubator for innovative businesses including those that focus on environmental sustainability.
- 3. Make Tigard a prosperous and desirable place to live and do business.

Community Economic Development Objectives

Community Economic Development Objectives were developed through interviews with City staff and a review of Tigard's economic development vision, goals and recommended action measures. These objectives were refined based on comments from the Planning Commission and the results of interviews with key stakeholders, including state and regional agencies, the Chamber of Commerce, Tigard Central Business District Association, and local employers and developers.

- Encourage businesses that provide family-wage jobs to start-up, expand, or locate in Tigard.
- Develop industry clusters, and preserve jobs, through the retention, expansion, and recruitment of industries that already have a presence in Tigard.
- Promote well-designed and efficient development and redevelopment of vacant and underutilized industrial and commercial lands.
- Ensure the City's land use and other regulatory practices are flexible and adaptive and that adequate public facilities and infrastructure exist to support a diverse and stable economic base.
- Focus significant employment growth in Tigard's designated centers and corridors and support the development of efficient regional multi-modal transportation systems.
- Limit the development of retail and service uses in Tigard's designated industrial areas to preserve the potential of these lands for industrial jobs. Support neighborhood commercial uses to meet smart growth goals.
- Encourage businesses that are environmentally and economically sustainable.

ECONOMIC TRENDS ANALYSIS

The consultant team conducted an economic overview for the City of Tigard, including a review of national, state, regional, county, and local economic trend data and real estate market analysis of office, commercial retail, industrial, and public government space development for the Tigard Urban Service Boundary. The analysis focuses on the expected level of demand for new commercial, industrial, and public development and related gross buildable land needs over the next 20 years (2011-2031).

Both the U.S. and Oregon economies are currently mired in the aftermath of a national economic recession that began in December 2007. The current economic slowdown is now the longest on record since the Great Depression; however, some economic expansion is beginning to occur. According to the U.S. Bureau of Economic Analysis, real Gross Domestic Product (GDP is the measure of value of all goods and services in the U.S.) increased at an annual rate of 3.7 percent during the first quarter of 2010, and increased by 2.4 percent during the second quarter of 2010.

Consumers are still very cautious as unemployment rates remain high and high levels of home foreclosures continue. Oregon posted a year-over-year overall job loss of 16,000 jobs between June 2009 and June 2010. At the same time, the state's unemployment rate decreased to 10.5 percent in June 2010, compared to 11.6 percent in June 2009. It should be noted that Oregon's employment levels have declined over the past year in spite of the drop in unemployment rate. This trend likely reflects a decline in the number of people who are actively seeking employment.

The U.S. and Oregon economies are now poised for a slow economic recovery. The July 2010 survey of the National Association of Business Economists reported expectations of slow growth in GDP during the second half of 2010 in the U.S. as industry demand, profit margins, employment, capital spending and credit conditions improve.

Despite job losses, population levels continue to increase in both Oregon and Tigard due to population migration patterns, increases in immigrant population levels and natural population increases. As indicated in **Table 1**, according to the Portland State University Population Research Center, the population in Tigard increased to 47,460 residents in 2009, up from 42,260 residents in 2000. The average annual growth rate (AAGR) for population in Tigard was 1.3% between 2000 and 2009, which was below the level of population growth recorded for Washington County, but above the Oregon and national growth rates.

Table 1. Population Trends, 2000 to 2009

| | 2000 | 2009 | Annual % Change 2000-2009 |
|-------------------|-------------|-------------|---------------------------------|
| Tigard | 42,260 | 47,460 | 1.3% |
| Washington County | 449,250 | 527,140 | 1.8% |
| Oregon | 3,421,399 | 3,823,465 | 1.2% |
| USA | 282,171,957 | 307,006,550 | 0.9% |

Source: Portland State University, Population Research Center.

Metro (the regional government) has prepared forecasts for households and employment for all local jurisdictions in the Metro Urban Growth Planning Area. The most recently adopted Metro growth forecasts are referred to as the Metroscope Generation 2.3 model, and include a forecast period from 2005 to 2030. FCS GROUP extrapolated the Metro forecasts to year 2035 using Metro's forecasted growth rate from the 2005-2030. While Metro is currently in the process of preparing updated growth forecasts for the region, the Metroscope Generation 2.3 forecasts are being used for this EOA since they are the only set of officially adopted forecasts at this time. As indicated in **Table 2**, the 2005 to 2035 forecasts anticipate that Tigard will add approximately 3,185 households and 24,167 jobs over the 25-year period. The extrapolated 2035 Metro job forecasts shown in **Table 2** are provided for informational purpose only. In light of the recent national economic recession that caused severe declines in Oregon employment (from 2007 through 2010), Metro's 2030 job forecast for Tigard is assumed to be achieved by year 2035 under the "medium forecast" scenario used in the Tigard EOA.

As noted in **Table 2**, the Metro job growth forecasts reflect the fact that Tigard currently is relatively "jobs rich" with a positive ratio of 2.3 jobs per household, which is well above the tri-county Metro regional average of 1.5 jobs per household. This is no surprise given Tigard's concentration of regional employment centers, including Washington Square Mall, the "Tigard Triangle" employment area near the confluence of I-5/Hwy. 217, and pockets of industrial uses along the Hwy. 217 corridor.

Table 2. Metro Growth Forecasts for Households and Employment, 2005 to 2035

| Table 2. Mello Glowin | n roiecusi: | o ioi nousei | iolas alia El | npioymem, z | 003 10 2033 |
|--------------------------|-------------|-----------------|------------------|------------------------------------|---|
| | Households | | | Projected Change | Projected. Avg. Annual Change |
| | 2005 | 2030 | 2035 | 2005-2035 | (%) |
| Tigard | 17,724 | 20,341 | 20,909 | 3,185 | 0.6% |
| Clackamas County | 140,415 | 241,821 | 269,594 | 129,179 | 2.2% |
| Multnomah County | 288,926 | 372,913 | 392,439 | 103,513 | 1.0% |
| Washington County | 189,925 | 272,998 | 293,545 | 103,620 | 1.5% |
| Total 3 County | | | | 336,312 | |
| Region | 619,266 | <i>887,7</i> 32 | 9 <i>55,57</i> 8 | 330,312 | 1.5% |
| | | Employmen | * | Projected. | Avg. Annual |
| | 2005 | 2030 | 2035 | Change 2005-2035 | Change (%) |
| Tigard | 41,308 | 60,637 | 65,475 | 24,167 | 1.5% |
| Clackamas County | 145,581 | 251,286 | 280,273 | 134,692 | 2.2% |
| Multnomah County | 493,671 | 705,721 | 758,005 | 264,334 | 1.4% |
| Washington County | 269,660 | 450,970 | 499,820 | 230,160 | 2.1% |
| Total 3 County Region | 908,912 | 1,407,977 | 1,538,098 | 629,186 | 1.8% |
| | Jobs F | Per Househol | d Ratio | Projected. Tigard Capture of | Projected Tigard Capture of Region Jobs |
| | 2005 | 2030 | 2035 | Region HHs | Region Jobs |
| Tigard | 2.3 | 3.0 | 3.1 | 0.9% | 3.8% |
| Clackamas County | 1.0 | 1.0 | 1.0 | N/A | N/A |
| Multnomah County | 1.7 | 1.9 | 1.9 | N/A | N/A |
| Washington County | 1.4 | 1.7 | 1.7 | N/A | N/A |
| Total 3 County | 1.5 | 1 / | , , | N/A | |
| Region | 1.5 | 1.6 | 1.6 | | N/A |

Source: Metro adopted housing and employment growth forecasts, 2007; Metroscope Gen. 2.3; extrapolated to 2035 by FCS GROUP.

Washington Square Mall already functions as a regional commercial center that draws shoppers and patrons from over a 30-mile radius. With 1,458,734 square feet (sf) of retail and entertainment space, the mall has five anchor stores including JC Penny, Macy's, Nordstrom, Sears, and Dick's Sporting Goods and 170 specialty stores. The mall added 28 new stores and restaurants in 2005, along with a new multi-level parking structure.

In addition to large retail employers, Tigard is also home to several large high-tech manufacturing, construction contractors, professional, business operations and state and local government operations. **Table 3** provides a list of Tigard employers with more than 250 jobs per establishment.

^{*}The extrapolated 2035 Metro job forecasts shown in Table 2 are provided for informational purpose only. In light of the recent national economic recession that caused severe declines in Oregon employment (from 2007 through 2010), Metro's 2030 job forecast for Tigard is assumed to be achieved by year 2035 under the "medium forecast" scenario used in the Tigard EOA.

Table 3. Large Employers in Tigard with More Than 250 Employees, 2008

| Firm Name | Specialty | Employment Range |
|-----------------------------------|----------------------------|---------------------|
| | Retail/Gen. | |
| Nordstrom | Merchandise | 500 – 999 |
| Tigard-Tualatin School District | Local Government | 500 – 999 |
| AEROTEK, Inc. | Temp. Emp. Agency | 250 – 499 |
| City of Tigard | Local Government | 250 – 499 |
| COSTCO Corp. | Retail. Merchandise | 250 – 499 |
| | Health Insurance | |
| Health Net Health Plan of Oregon | Carrier | 250 – 499 |
| JC Penny | Retail Merchandise | 250 – 499 |
| MACYS | Retail Merchandise | 250 – 499 |
| Performance Contracting, Inc. | Industrial Contractors | 250 – 499 |
| PERS Headquarters | Pension Fund Mgmt. | 250 – 499 |
| Remedy Intelligent Staffing, Inc. | Temp. Emp. Agency | 250 – 499 |
| Rockwell Collins Aerospace | Aero. & Tech. Part Mfg. | 250 – 499 |
| STARPLEX Corp. | Temp. Emp. Agency | 250 – 499 |
| | Bldg. Interior | |
| Western Patricians, Inc. | Contractors | 250 – 499 |

Source: Oregon Employment Department.

According to regional commercial and industrial real estate brokers, Tigard is a well-defined submarket within the suburban Metro region. Tigard's office market is especially competitive within the inner southwest portion of the region, with businesses considering locations among several areas including Tigard; 217 Corridor/Beaverton; Kruse Way; Barbur Blvd/Capitol Hwy; Tualatin and Wilsonville.

Recent office leasing market statistics indicate that office vacancy rates in the Metro region have been increasing since 2008 as many businesses have shed jobs and scaled back on required space needs. As indicated in **Appendix A**, negative absorption levels have been occurring during the first six months of the year, particularly in Class A Office space, where Tigard experienced a net loss of 13,097 sf during the first half of this year. As of July 1, 2010 Tigard had total Class A vacancy rates of 151,900 sf and another 66,000 sf in vacant Class B and C space.

Tigard's Class B inventory has experienced positive absorption this year, with 12,800 sf of net absorption. Since July 2010, Tigard has recorded several positive lease transactions, which rank among the largest in the region, such as Bridgewell Resources (32,088 gsf); Comsys into the Lincoln Center; State Farm Mutual Insurance (23,712 gsf) into Fanno Creek Place; and CAN Insurance (17,843 gsf) into the Pacific Parkway Center.

Industrial leasing activity and vacancy rates were also significantly impacted by the recent economic recession. As indicated in **Appendix B**, Tigard had approximately 170,000 sf of vacant flex space (13.4% vacancy rate), and 339,000 sf of vacant warehouse space (7.7% vacancy rate) as of July 1, 2010.

Overall industrial lease rates in the Tigard submarket averaged \$7.68 per sf/year, and were among the highest in the Metro suburbs.

The City of Tigard and the Oregon Department of Transportation (ODOT) are taking steps to enhance the Downtown Tigard area to make it a more viable place to live and work. At a cost of \$12 million, intersection improvements along Pacific Highway at Hall Blvd. and Greenburg Rd. are being paid for by ODOT, Washington County and the City of Tigard. This project is slated for completion by Spring 2011 and will include a third through-lane on the highway, turn lanes on side streets, an extended median, wider sidewalks, new bike lanes, improved pedestrian crossings, and wider corners for truck turning movements. This effort will also enhance access into and from Downtown Tigard.

Tigard's recently completed Downtown Plan is setting the regulatory stage and establishing a new vision for renovating downtown. The vision is intended to be a 50-year look at how the downtown could change into a "mixed-use urban village" with a wide range of housing and commercial opportunities that optimize natural features, such as Fanno Creek and Fanno Creek Park, transportation facilities, such as Pacific Hwy. and the Westside Express Commuter Rail system, and even light rail or bus rapid transit service to/from Portland.

To estimate future development potential for Tigard employment, FCS GROUP evaluated the 10-year employment growth forecasts prepared by the Oregon Employment Department for the Metro Tri-County region, and Metro growth forecasts for Tigard. As shown in **Figure 1**, the 10-year job growth forecasts for the Metro Tri-County Region portend a positive trend towards job growth for all industry sectors, except federal government and the manufacturing sector. The sectors that are expected to grow the fastest in the Tri-County Metro Region include: educational and health services; professional and business services; leisure and hospitality; local government; retail; and wholesale trade.

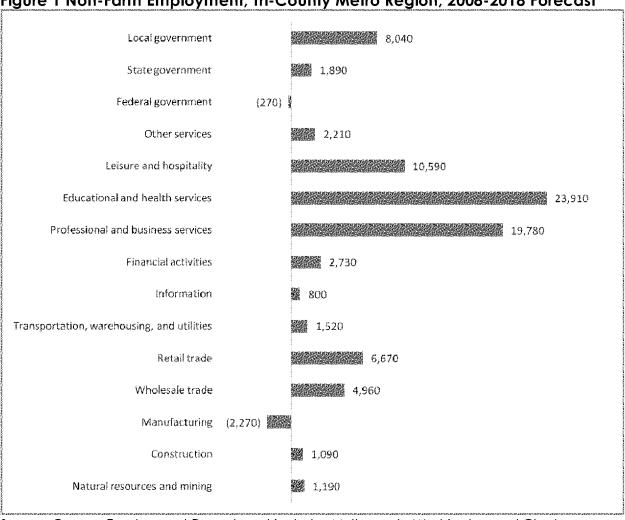


Figure 1 Non-Farm Employment, Tri-County Metro Region, 2008-2018 Forecast

Source: Oregon Employment Department includes Multnomah, Washington and Clackamas Counties.

To estimate future development potential for Tigard, FCS GROUP evaluated the 10-year employment growth forecasts prepared by the Oregon Employment Department as well as the extrapolated employment growth forecasts from Metro. In light of the recent national economic recession that caused severe declines in Oregon employment (from 2007 through 2010), Metro's 2030 job forecast for Tigard is assumed to be achieved by year 2035 under the "medium forecast" scenario. As indicated in **Appendix C**, the 20-year job growth forecasts for Tigard indicate a more positive trend towards job growth for all industry sectors. According to Metro (and FCS GROUP interpretation of Metro data), the general sectors that are expected to grow the fastest in Tigard over the next 20 years include: services (+10,092 jobs); retail (+3,810 jobs), industrial/other (+1,324 jobs), and government (+882 jobs).

The job growth projections indicate that Tigard should expect to experience significant redevelopment opportunities over the next 20-years. A range in employment forecasts is provided to take into account current weak market conditions and national economic expectations that expect lower-rates of job growth over the next several years. As indicated in **Table 4**, there is a great level of uncertainty

regarding potential job growth for Tigard in light of weak regional and national employment growth predictions.

Table 4. Forecasted 20-Year Employment Growth and Building Space Needs in

Tigard

| Employment Growth Forecast | Slow | Moderate | High |
|----------------------------|-------|----------|--------|
| Retail Trades | 2,286 | 3,048 | 3,810 |
| Services | 6,055 | 8,073 | 10,092 |
| Industrial/Other* | 794 | 1,059 | 1,324 |
| Government* | 529 | 706 | 882 |
| Total | 9,665 | 12,886 | 16,108 |

Notes: See supporting analysis in Appendix C.

Tigard is expected to add between 9,665 and 16,108 new jobs over the next 20 years. As indicated in **Table 5**, this amount of employment growth translates into approximately 4.2 to 7.1 million of new or renovated building square footage (floor area).

Table 5. Forecasted 20-Year Total Building Space Needs in Tigard for Employment

| Employment Type | Slow | Moderate | High |
|--------------------|-----------|-----------|-----------|
| Office | 1,499,000 | 1,998,000 | 2,497,000 |
| Institutional | 170,000 | 227,000 | 285,000 |
| Flex/Business Park | 451,000 | 602,000 | 752,000 |
| General Industrial | 257,000 | 342,000 | 428,000 |
| Warehouse | 374,000 | 499,000 | 624,000 |
| <u>Retail</u> | 1,498,000 | 1,997,000 | 2,497,000 |
| Total | 4,249,000 | 5,665,000 | 7,083,000 |

Notes: See supporting analysis in Appendix C.

Source: FCS GROUP.

A large portion of this demand will need to be met by redevelopment and utilization of vacant buildings since large vacant undeveloped tracts of land are becoming increasingly scarce. It is estimated that redevelopment and utilization of vacant buildings is expected to accommodate 70% of the retail space demand, 50% of the service/office demand, 40% of the industrial demand, and 40% of the government facilities demand.

Table 6 shows the expected level of redevelopment and refill in the Tigard USB over the next 20 years. As the existing vacant land supply in Tigard gets developed, the level of redevelopment activity is expected to rise. Prime redevelopment locations in Tigard include Downtown and the Tigard Triangle, and future planned high capacity transit stations along Pacific Hwy. The City's Downtown Plan envisions 2,500 dwelling units and over one million square feet of commercial office and retail space being added over the next few decades.

^{*}Metro employment growth forecasts for "Other" were allocated to 60% industrial/other and 40% government by FCS GROUP based on local observations and assumptions.

Table 6. Redevelopment and Refill Assumptions (2011 to 2031) Tigard USB

| Employment Type | Slow | Moderate | High |
|--------------------|-----------|-----------|-----------|
| Office | 1,004,000 | 1,339,000 | 1,673,000 |
| Institutional | 114,000 | 152,000 | 191,000 |
| Flex/Business Park | 203,000 | 271,000 | 338,000 |
| General Industrial | 116,000 | 154,000 | 193,000 |
| Warehouse | 168,000 | 225,000 | 281,000 |
| Retail | 899,000 | 1,198,000 | 1,498,000 |
| Total | 2,504,000 | 3,339,000 | 4,174,000 |

Source: FCS GROUP; derived from Appendix C, based primarily on Metro 2009-2035 Urban Growth Report (December 2009 draft) and local assumptions.

After accounting for the levels of redevelopment activity identified in **Table 6**, the amount of vacant land demand in Tigard for employment uses over the next 20-years is expected to range from 126 to 210 acres. Preliminary estimates for vacant lands needs in Tigard by general building type are provided in **Table 7**, and supporting assumptions are reflected in **Appendix D** and **Appendix E**.

Table 7. Vacant Land Needs by General Land Use Zoning Classification (2011 to 2031)

Tigard USB (gross buildable acres)

| Land Use Zoning Classification | Slow | Moderate | High |
|--------------------------------|------|----------|------|
| Commercial | 51 | 68 | 85 |
| Mixed Use | 27 | 36 | 45 |
| Industrial | 48 | 64 | 80 |
| Total | 126 | 168 | 210 |

Source: FCS GROUP; derived from Appendix C, based primarily on Metro 2009-2035 Urban Growth Report (December 2009 draft) and local assumptions.

To help validate these assumptions, FCS GROUP conducted an additional analysis of retail sales inflow/outflow within Tigard. The retail analysis provided in **Appendix D** indicates that the amount of local retail trade in Tigard over the next 20 years could support an additional 1.4 million square feet of redevelopment or new development activity, even if current levels of retail sales inflow were cut by 50%. Hence, it appears that the "slow" or "land efficient" vacant land demand scenario is the best match with respect to the retail market potential for the Tigard USB.

The actual amount and timing of new development will vary from year to year. The wide range in development forecasts reflects current uncertainty regarding the region's ability to retain and attract major employers, the City's desire to stimulate redevelopment in downtown, and limited ability to accommodate new commercial and industrial development on vacant lands.

Business Clusters Analysis

It is a widely accepted theory among economic development professionals that "business clusters" are the primary force driving local economic currents and business location decisions. Clusters of business activity go well beyond mere concentrations of industry or employment types. They represent unique competitive market advantages with regard to employment, work force, creativity, entrepreneurship, business costs, and supporting natural resources.

The clusters analysis prepared by FCS Group is intended to identify potential employment sectors that are most compatible with local economic policy objectives. The process entailed:

- 1. Obtaining Employment Security (ES202) wage and salary employment data from the Oregon Employment Department (OED) for the Tigard Urban Service Boundary (USB), Washington County, Multnomah County and Clackamas County (tri-county region) for the year 2008.
- 2. Conducting a location-quotient (LQ) analysis to evaluate business and industrial clusters in the Tigard UGB relative to the tri-county region.
- 3. Evaluating business clusters within the Tigard UGB with regard to the LQ, projected growth rates, economic size of each cluster, and average wage rates.
- 4. Classifying each business cluster with regard to one of four classifications, including:
 - I. STARS: Businesses with large LQ (propensity to locate in the Tigard USB) and higher than average projected growth rate compared to the tri-county region.
 - II. EMERGING: Businesses with small LQ and high average growth rate (possible pent up demand or competitive market disadvantage relative to other locations).
 - III. MATURE: Businesses with large LQ but lower than average growth rate.
 - IV. CHALLENGED: Businesses with small LQ and lower than average growth rate.

The business cluster analysis summarized in **Figure 2** identifies the business sectors within the Tigard USB by their LQ, size and growth potential. Each sector has been analyzed by their North American Industrial Classification System (NAICS) code. This code is used by the federal government to classify types of businesses for tax accounting and economic research purposes. The data was derived from the OED ES202 wage and salary employment statistics for the year ending in 2008.

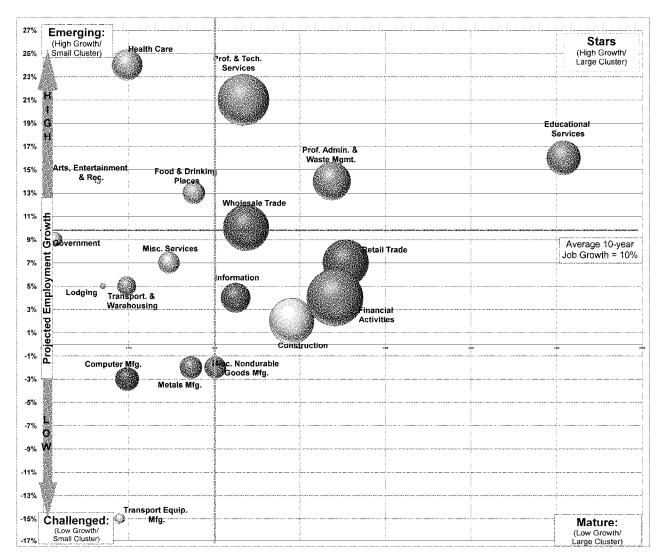


Figure 2
Existing Business Clusters in Tigard USB, 2008

Note: X-axis denotes the Location Quotient (LQ) average set at 1. All sectors to right of the yellow line have an LQ greater than 1; all sectors to the left of the yellow line have an LQ less than 1. Source: Oregon Employment Department; data compiled by FCS GROUP.

The clusters analysis classifies the existing business sectors in the Tigard USB into four general categories:

Industry Sectors with Large LQ/High Growth Potential ("Stars")

- Educational Services (private or non-profit)
- Professional and Technical Services
- Professional Administration and Waste Management Services
- Wholesale Trade

Industry Sectors with Small LQ/High Growth Potential ("Emerging")

- Health Care and Social Services
- Food Service and Drinking Places
- Arts, Entertainment and Recreation

Industry Sectors with Large LQ/Low Growth Potential ("Mature")

- Retail Trade
- Information Services
- Financial Activities and Services
- Construction
- Nondurable Goods Manufacturing

Industry Sectors with Small LQ/Low Growth Potential ("Challenged")

- Transportation, and Warehousing
- Miscellaneous Services
- Metals Manufacturing
- Computer Parts and Equipment Manufacturing
- Lodging
- Transportation Equipment Manufacturing
- Government

In addition to evaluating existing *local* business clusters, the City may also consider the expected *regional* growth in business sectors and emerging clusters. According to the Oregon Employment Department, the job sectors with the highest potential for new growth in the greater Portland metropolitan region include:

- Business administration and waste management
- Finance and insurance
- Health care
- Hotel/motel accommodations and food services
- Professional
- Retail trade
- Scientific and technical service (computer science, engineering)
- State and local government
- Transportation and utilities (warehousing, distribution and energy research, private utilities)
- Wholesale trade¹

While manufacturing of durable goods does not make the list of the top growth sectors, there are certain subsectors within manufacturing that are growing faster than others. The manufacturing sectors with the greatest net new job growth potential in the greater Portland metropolitan region include: computer-related parts manufacturing, transportation equipment, other miscellaneous durable goods (such as solar panels), and miscellaneous non-durable goods (such as apparel research and design).

¹ These emerging business clusters are documented in the Regional Wired Workforce Innovation and Regional Economic Development, Global Development Strategy, prepared by FCS GROUP et al, 2008.

The greater Portland metropolitan region is now considered an epicenter within the United States for sustainable technology. According to Global Insight, the greater Portland metropolitan region employs 6,700 people in "green jobs" which is more than Denver, Austin, Seattle and San Jose. The number of workers in green jobs (such as solar panel manufacturing, wind energy, bio energy research and manufacturing) is expected to increase to 53,000 over the next two decades. Portland General Electric and Pacific Power are ranked in the top three among the nation's top utility companies for Green Energy sales, and the greater Portland region has more LEED-certified buildings than any other U.S. metropolitan area.

With the Portland metropolitan region, recent federal and state tax policies have helped spur major investments in green technology and energy by firms such as: SolarWorld, SunEdison, Vestas and Portland General Electric—creating a major new industrial cluster in clean technology. Additional investments in advanced manufacturing are being made by Intel, Flir Systems (producer of night vision and thermal imaging systems), Precision Castparts (maker of parts used in Vestas wind turbines, Boeing aircraft and other products), Genentech, and other firms. These are examples of manufacturing companies that are finding success within the greater Portland metropolitan region, even in challenging economic times.

Focused marketing and business recruitment efforts are being made by the State of Oregon and regional economic development stakeholders to attract certain established and emerging business clusters. The business and industry clusters that are currently being targeted by the Oregon Business Development Department, Portland Business Alliance and the Portland Development Commission include advanced manufacturing, clean technology (with sustainability sub-clusters in green building, solar & wind power), active wear/outdoor gear, and software.

Targeted Business Clusters

According to its Community Economic Development Objectives, the City of Tigard may target businesses that generally offer above average wages and provide health care and retirement benefits that support families. According to the U.S. Bureau of Labor Statistics, the occupations that had the fastest growth and highest pay over the past 10 years nationally included: computer systems analysts, registered nurses, computer support specialists, teachers, social workers, college faculty, computer programmers, engineering sciences, police officers, securities and financial services, physicians, advertising, marketing, management analysts, electrical engineers, paralegals, writers/editors, commercial artists, medical and health service managers. It is interesting to note that almost two-thirds of the jobs filled in these fast growing occupations required some level of on-the-job training in addition to high school and a college degree.²

In light of these findings, the consultant team and City staff recommend that Tigard focus on retaining and attracting a mix of existing and emerging business clusters that pay above average wages. This includes existing, established clusters, such as durable goods manufacturing (includes metals and machinery), education (private and non-profits), financial services, information (including software development), professional and technical services, and wholesale trade. They also recommend that the City focus on emerging clusters, including health care and advanced technology (i.e., green energy) manufacturing and research operations. As indicated in **Table 8**, these recommended business clusters (with the exception of educational services) pay above average wage rates.

² Based on findings contained in publications provided by JIST Works, including the Occupational Outlook Handbook, 2008-2009; and America's Fastest Growing Jobs by Michael Farr.

Table 8. Summary of Existing Businesses in Tigard USB, 2008

| Table 6. Summary of Existing Businesses in figo | Number | Average | Average |
|---|-------------|------------|---------------|
| | of Entities | Employment | Annual Pay |
| Total Private | 2,914 | 41,032 | \$43,542 |
| Natural resources and mining | 6 | 21 | \$38,742 |
| Construction | 272 | 3,329 | \$56,080 |
| Manufacturing | 117 | 2,743 | \$54,300 |
| Durable goods Metals and machinery | 53 | 1,814 | \$58,229 |
| manufacturing ' | 36 | 897 | \$51,425 |
| Computer and electronic product | | | |
| mfg. | 15 | 774 | \$65,308 |
| Transportation equipment | | | |
| manufacturing | 2 | 143 | \$62,594 |
| Nondurable goods | 64 | 929 | \$46,628 |
| Trade, transportation, and utilities | 704 | 11,375 | \$36,742 |
| Wholesale trade | 333 | 2.987 | \$64,284 |
| Retail trade | 329 | 7,621 | \$25,407 |
| Transportation, warehousing, and | | | |
| utilities | 42 | 767 | \$42,114 |
| Information | 69 | 1,206 | \$66,469 |
| Financial services | 405 | 5,037 | \$58,459 |
| Professional and business services | 638 | 8,146 | \$45,971 |
| Professional and technical services | 449 | 3,858 | \$62,851 |
| Administrative and waste services | 189 | 4,288 | \$30,784 |
| Educational and health services | 269 | 5,037 | \$38,133 |
| Educational services | 55 | 2,912 | \$36,384 |
| Health care and social assistance | 214 | 2,125 | \$40,531 |
| Leisure and hospitality | 204 | 3,018 | \$16,579 |
| Arts, entertainment, and recreation | 23 | 184 | \$16,241 |
| Accommodations and food services | 181 | 2,834 | \$16,601 |
| Accommodations | 10 | 131 | \$20,072 |
| Food services and drinking places | 171 | 2,703 | \$16,433 |
| Other services | 230 | 1,120 | \$36,618 |
| Government | 5 | 390 | \$49,275 |
| Total | 2,919 | 41,422 | \$43,596 |

Notes: Shading indicates targeted business cluster.

Source: Oregon Employment Department, 2008. Average payroll reflects Washington and

Multnomah counties.

SITE SUITABILITY ANALYSIS (LAND DEMAND)

The majority of the targeted businesses that consider expanding or relocating into Tigard will consist of small business operations (less than 50 employees) that can locate within existing professional office or

industrial buildings, or within new office or flex/industrial buildings that are developed on vacant sites of less than five acres in size.

It is also likely that there will be larger potential business and high-tech industrial operations that consider Tigard as a potential location for new campus-style developments. Certain opportunities may emerge as regional businesses expand and desire to remain within the tri-county region. Other opportunities may occur as global and national businesses desire to establish a presence in the Pacific Northwest. In any event, it is likely that Tigard could attract three to four large professional service, health care, education, and/or high tech industrial businesses over the next 20 years.

As indicated in **Table 9,** Tigard is already home to 41 large private business operations (with between 70-250 employees). Tigard could continue to retain and attract large businesses if adequate sites are available. These types of large private operations usually require surplus adjacent land areas to accommodate future business expansion.

Table 9. Existing Private Businesses by Size Class, Tigard USB, 2008

| Sector | Tota Establish | | Large Establishments | | Small/Medium Establishments | |
|---|-------------------|--------|-------------------------|-------|--------------------------------|--------|
| | Number | Jobs | Number | Jobs | Number | Jobs |
| Natural resources and mining | 6 | 21 | | | 6 | 21 |
| Construction | 272 | 3,329 | 4 | 571 | 268 | 2,758 |
| Manufacturing | 117 | 2,743 | 10 | 1,300 | 107 | 1,443 |
| Durable goods | 53 | 1,814 | 10 | 1,300 | 43 | 514 |
| Nondurable goods | 64 | 929 | | | 64 | 929 |
| Trade, transport., utilities & communications | 704 | 11,375 | 20 | 3,997 | 684 | 7,378 |
| Wholesale trade | 333 | 2,987 | 1 | 125 | 332 | 2,862 |
| Retail trade | 329 | 7,621 | 16 | 3,517 | 313 | 4,104 |
| Transport., warehousing and communications | 42 | 767 | 3 | 355 | 39 | 412 |
| Information | 69 | 1,206 | 2 | 376 | 67 | 830 |
| Financial, professional & tech. services | 1,043 | 13,183 | 4 | 1,426 | 1,039 | 11,757 |
| Educational and health services | 269 | 5,037 | | | 269 | 5,037 |
| Educational services | 55 | 2,912 | | - | 55 | 2,912 |
| Health care and social assistance | 214 | 2,125 | - | | 214 | 2,125 |
| Leisure and hospitality | 204 | 3,018 | | | 204 | 3,018 |
| Arts, entertainment, and recreation | 23 | 184 | | | 23 | 184 |
| Accommodations and food services | 181 | 2,834 | | | 181 | 2,834 |
| Other services | 230 | 1,120 | 1 | 99 | 229 | 1,021 |
| Total | 2,914 | 41,032 | 41 | 7,769 | 2,873 | 33,263 |

Notes: green shading indicates targeted business cluster.

Source: Oregon Employment Department, 2008. Note: large establishments are those with at least 70 employees.

The consultant/staff team recommends that Tigard provide a variety of small, medium and large vacant sites that meet the targeted business and industrial requirements. As indicated in **Table 10**, the existing businesses within Tigard can generally be grouped into three general land use categories: industrial, commercial and office.

Table 10. Existing Private Businesses by Size Class and General Land Use or Building Type, Tigard USB, 2008

| Primary Land | Total I | Intitles | Large l | intities4 | Small/Medium Entities | | |
|-------------------------|---------|----------|---------|-----------|--------------------------|--------|--|
| Use/Building Type | Firms | Jobs | Firms | Jobs | Firms | Jobs | |
| Industrial ¹ | 770 | 9,847 | 18 | 2,351 | 752 | 7,496 | |
| Commercial 2 | 763 | 11,759 | 17 | 3,616 | 746 | 8,143 | |
| Office ³ | 1,381 | 19,426 | 6 | 1,802 | 1,375 | 17,624 | |
| Total | 2,914 | 41,032 | 41 | 7,769 | 2,873 | 33,263 | |

Notes: ¹ Reflects natural resources, construction, manufacturing, wholesale trade, transportation, warehousing, utilities, and communications sectors.

Source: Oregon Employment Department, 2008. Compiled by FCS GROUP.

Most small and medium business establishments prefer to lease space in office or commercial buildings, and/or could locate into redevelopment sites in downtown or in selected redevelopment locations (e.g., near planned high capacity transit stations or within the Tigard Triangle). No special vacant land requirements are identified for future small or medium businesses. However, the City should pursue more proactive redevelopment strategies to accommodate small and medium sized businesses.

Larger business establishments that are included within the targeted business clusters will likely have minimum site size and infrastructure service requirements. Typical site requirements for the larger targeted business sectors are described in **Table 11** and described in more detail in **Appendix F.** Based on the site requirements described in **Table 11** and **Appendix F**, the recommended targeted business clusters will need sites ranging from one to twenty-five acres, with a majority of the need falling in the five to ten-acre range.

² Reflects retail trades, lodging, accommodations, and misc. service sectors.

³ Reflects information, financial, professional and technical service, health care and educational service sectors.

⁴ Large establishments reflect establishments with at least 70 employees.

Table 11. Typical Site Size Requirements for Targeted Business Types

| | Small Users Less than 50 jobs per business | Medium Users 50 to 70 jobs per business | Large Users 70 to 200+ jobs per business |
|---|--|---|---|
| Industrial • Advanced Technology Manufacturing | Building tenants or infill | 4 to 6 acres per user | 6 to 20 acres per user |
| Metals/Machinery Manufacturing Wholesale Trade | redevelopment sites in established industrial locations | Prefers industrial or business park settings | Prefers industrial or business park campus settings |
| Office • Education • Professional and | Building tenants or infill redevelopment | 1 to 2 acres per user | 2 to 4 acres per user* |
| Technology. Services Information Financial Services Health Care* | sites in town center, regional center, or transit station areas | Prefers town center, corridors or transit station areas | Prefers business park campus setting with transit service |
| Retail | 1 | Not in Targeted Clusters | S |

Notes: Assumes site development requirements shown in Appendix F.

INVENTORY OF SUITABLE SITES (LAND SUPPLY)

Consistent with the employment land demand forecast, the buildable land inventory (BLI) for the Tigard EOA documents industrial and commercial inventory that currently exists within the Tigard Urban Planning Area (UPA). This analysis documents existing land use inventories and compares industrial and commercial land use needs required for addressing the slow, moderate and high growth forecast scenarios.

Employment Land Inventory

The Tigard EOA includes a recent buildable land inventory completed by the City of Tigard Planning staff using Geographic Information Systems (GIS) data that is consistent with the current Draft 2009-2035 Urban Growth Report (accepted by Metro Council in December 2009).

The City's BLI included an analysis of existing vacant and partially vacant (sub-dividable) tax lots by current zoning classification and deducted all significant environmental constraints to estimate buildable land area within the Tigard USB. The land supply analysis focused on the land use classifications that support employment uses, including commercial, mixed-use, and industrial zones. The City has 10 commercial zones to account for a wide variety of uses ranging from retail to medical centers to mixed use centers. Tigard has three zones which accommodate industrial uses. Please refer to **Appendix E** for a detailed description of the allowed, conditional, and permitted uses within each of the City's zone classifications.

The buildable land area for each tax lot was derived by analyzing GIS data pertaining to environmental features that would constrain the amount of potential site development on vacant and partially vacant areas. For purposes of this analysis, the environmental constraints were calculated for each site using

^{*}Larger medical facility campus could require 15 to 30 acres.

estimates for land area that is constrained by the following: Metro Title 3 designation (waterways, wetlands, riparian buffers, 100 year floodplain).

The vacant and partially vacant land inventory for the Tigard UPA includes 125 tax lots with a total buildable land area of 136.1 acres, as indicated in **Table 12**. Tigard's vacant land supply primarily consists of small (less than one acre) tax lots and tax lots between one and five acres in size. As indicated in **Table 12**, the tax lots of less than five acres in size comprise 79.3 acres or nearly sixty percent of the total vacant land supply. The larger tax lots include three lots of five to ten acres (22.1 acres total), and two contiguous tax lots more than ten acres in size (34.7 acres total). Please refer to **Appendix G** for additional detail.

Table 12. Distribution of Vacant and Part Vacant Lands by General Land Use Zone Classification, Tigard USB

| | Vacant and Partially Vacant Property | | | | | | | | | | | |
|------------|--------------------------------------|-------|--------|-------|--------|-------------|------|------------|------|-------|--|--|
| | < 1 acre | | 1 to ! | acres | 5 to 1 | lo 10 acres | | > 10 acres | | Total | | |
| | Lots | Acres | Lots | Acres | Lots | Acres | Lots | Acres | Lots | Acres | | |
| Commercial | 26 | 9.5 | 8 | 20.2 | 2 | 16.4 | 0 | 0 | 36 | 46.1 | | |
| Mixed Use | 63 | 25.3 | 6 | 8.9 | 1 | 5.7 | 0 | 0.0 | 70 | 39.9 | | |
| Industrial | 12 | 4.2 | 5 | 11.2 | 0 | 0.0 | 2 | 34.7 | 19 | 50.1 | | |
| Total | 101 | 39.0 | 19 | 40.3 | 3 | 22.1 | 2 | 34.7 | 125 | 136.1 | | |

Source: City of Tigard.

As mentioned in the Site Suitability Analysis, the recommended targeted business clusters will need sites ranging from one to twenty-five acres to expand or locate within the Tigard UPA, with a majority of the need falling in the five to ten-acre range. The City appears to have a range of sites available to accommodate the targeted business clusters. However redevelopment sites may be needed to accommodate development needing five to ten-acre parcels.

In light of the importance of redevelopment to the City's ability to grow and diversify its economic base, the City and consultant team also evaluated the relative level of high, medium and low redevelopment potential for each developed tax lot in the Tigard UPA. While this is not a stated requirement within OAR 660, Division 9, it is considered an important factor in deciding which land use growth scenario to target.

The analysis of redevelopment opportunities is based on the ratio of assessed improvement value to land value for each tax lot using 2010 Washington County Assessor data. The results provided in **Table 13** indicate that there are significant amounts of high and moderate redevelopment potential within the Tigard USB. The redevelopment analysis identifies 169 tax lots with a total of 115.6 acres as having "high" redevelopment potential, and 180 tax lots with 166.6 acres as having "moderate" redevelopment potential.

Table 13. Analysis of Redevelopment Tax Lots by General Land Use Zone Classification, Tigard USB

| City of Tigard | City of Tigard Redevelopable Potential (Improvement to Land Value)* | | | | | | | | | | | |
|----------------|---|----------|------|-----------------------|-------|----------|--|--|--|--|--|--|
| | High | (< 0.33) | | oderate 3 to 1.00) | Low (| (> 1.00) | | | | | | |
| | Lots | Acres | Lots | Acres | Lots | Acres | | | | | | |
| Commercial | 19 | 7.2 | 31 | 17.8 | 199 | 299.8 | | | | | | |
| Mixed Use | 132 | 81.4 | 124 | 89.9 | 232 | 344.3 | | | | | | |
| Industrial | 18 | 27.0 | 25 | 58.8 | 146 | 437.9 | | | | | | |
| Total | 169 | 115.6 | 180 | 166.6 | 577 | 1,082.0 | | | | | | |

Notes: 1 Improvement to Land Value calculated from Washington County Tax Assessor data (Sept 2010).

Short-Term Land Supply Determination

In addition to the long-term land supply, OAR 660-009-0005 also requires the identification of a short-term supply of land meaning "suitable land that is ready for construction within one year of an application of a building permit or request for a service extension." OAR 660-009-0025 also requires that cities must provide "at least 25 percent of the total land supply within the urban growth boundary designated for industrial and other employment uses as short-term supply."

In Tigard's case, all of the land supply currently included within the Tigard UPA is deemed by the City to be within the short-term supply category. Hence, there are existing roads, water, sewer, and other infrastructure facilities that are sized appropriately to handle some level of new development on the remaining vacant tax lots.

One issue the City has been dealing with is that of highway capacity. This will continue to be an issue until a regional solution is found. This constraint was the cause of a maximum floor-to-area ratio of 0.4 being applied to the Tigard Triangle when a portion of it was rezoned to mixed-use employment. This severely limits the ability to maximize the development potential of available sites. It also causes proposed developments to provide mitigating measures when it is determined the increased vehicle trips will not meet ODOT performance measures. This can be financially constraining to a project if additional lanes, medians, or intersection improvements are required to be paid for by the development.

Additionally, the Transportation Planning Rule (OAR 660-12-0600) and related ODOT performance standards for the state highways have presented a barrier to Tigard achieving its aspirations. This includes amending existing zoning to allow higher density developments that are consistent with the Region 2040 land use designations. The TPR requires an amendment to an adopted plan not cause an affected roadway to fail to meet performance standards, or if the forecast roadway operations are already failing to meet performance standards, the plan amendment must not further degrade performance. This is a known issue in Downtown, Washington Square Regional Center, along Pacific Highway, and in the Tigard Triangle, and may also arise in other areas near state highways or freeway interchanges.

These issues are being addressed at the state and regional levels and could be somewhat mitigated as the City, Metro, and ODOT work to develop alternative performance standards through a corridor

² 196 Properties contained a zero Improvement or Land Value and are not represented here. Source: City of Tigard.

refinement plan for Pacific Highway. The Pacific Highway corridor is also being studied for potential high-capacity transit service in the future. The presence of high-capacity transit could also alleviate some of the issues associated with ODOT performance measures by allowing new development to allocate additional trips to transit and reduce automobile trip demand. Strategies to promote transit-oriented development and address ODOT capacity issues are recommended as part of the implementation plan policies for the Tigard EOA.

ASSESSMENT OF POTENTIAL (RECONCILIATION OF DEMAND AND SUPPLY)

Short-Term Land Need Determination

Commercial and industrial properties appear to clearly meet the statutory requirements for short-term land supply, as all of the long-term land supply can be classified as short-term as well as long-term supply. Industrial and commercial properties appear to be well served with adequate infrastructure, and there is an abundant supply of vacant industrial, office and retail building floor area being actively marketed in the Tigard USB today.

Long-Term Land Need Determination

Consistent with EOA documentation requirements, the economic trends analysis of land needs scenarios and the business clusters analysis indicates that the Tigard UPA can add approximately 794 net new industrial jobs without needing to add additional industrial-zoned land over the next 20 years. In light of current downward trends in industrial business activity, the land efficient need scenario appears to be most consistent with regional growth forecasts and anticipated market realities.

Industrial Land Need and Parcel Requirements

As indicated in **Table 13**, the land efficient need scenario assumes 48 acres of net new industrial vacant land demand, which is just below the estimated vacant industrial land supply of 50 acres. If the City opts to pursue a more aggressive economic growth strategy that is consistent with the moderate or high land need scenario, the City would need to identify another 14 to 30 acres of vacant industrial land area to meet the level of industrial demand associated with adding another 1,059 to 1,324 industrial jobs.

In light of the City's rather limited remaining vacant industrial land supply of tax lots in excess of five acres, the consultant/staff team recommends that the City adopt economic goals and objectives that preserve the remaining large contiguous industrial sites for large industrial employment users. A preliminary expected forecast of demand by parcel size is also provided in **Table 14**, and assumes that virtually all of the remaining vacant industrial land supply within the Tigard UPA will be absorbed over the next 20 years.

Table 14. 20-Year Industrial Demand Forecast and Vacant Land Supply, Tigard USB

| Land Demand and Supply | Efficient Land Need Scenario | Moderate Land Need Scenario | High Land Need Scenario |
|-----------------------------------|---------------------------------|--------------------------------|-------------------------------|
| Demand for Vacant Industrial Land | 48 | 64 | 80 |
| Supply of Vacant Industrial Land | 50 | 50 | 50 |
| Land Surplus or (Deficit) | 2 | (14) | (30) |

| Preliminary Parcel Distribution, Efficient Land Need Forecast ¹ | Existing Unconstrained Supply (tax lots) | Forecast of Parcel Size Demand (tax lots) 1/ | Surplus (tax lots) |
|---|---|---|-----------------------|
| Less than 1 acre | 12 | 10 | 2 |
| 1 to 5 acres | 5 | 5 | 0 |
| 5 to 10 acres | 0 | 0 | 0 |
| 10 to 20 acres | 2 | 2 | 0 |
| 20+ acres | 0 | 0 | 0 |
| Total | 19 | 17 | 2 |

Notes: ¹ Tax lot demand forecast expected to meet or exceed supply in 20 years.

Source: Based on findings included in demand and supply analysis.

Commercial Land Need and Parcel Requirements

As indicated in **Table 15**, the land efficient needs scenario assumes 78 acres of net new commercial and mixed-use vacant land demand, which is just below the estimated vacant land supply of 86 acres. As with the industrial land needs, an economic growth strategy that is consistent with the moderate or high land needs scenario would require the City to identify an additional 19 to 45 acres of vacant commercial and mixed-use land to meet the demand.

In light of the City's rather limited remaining vacant commercial and mixed-use land supply of lots in excess of five acres, the consultant/staff team recommends that the City adopt economic goals and objectives that preserve the remaining large contiguous commercial sites for strategic commercial retail and office employment users, and allow housing in these areas, only as part of a mixed-use development. A preliminary expected forecast of demand by parcel size is also provided in **Table 15**, and assumes that virtually all of the remaining vacant commercial land supply over one acre in size within the Tigard UPA will be absorbed over the next 20 years.

The City also anticipates the development of high-capacity transit along the Pacific Highway corridor. The region has made a commitment to high-capacity transit and this corridor is the next to be studied. Any development of high-capacity transit would trigger the City to identify station areas to accept higher, transit supportive mixed-use densities. The logical locations for station areas would more than likely result in the rezoning of general commercial lands to mixed-use zoning. As both commercial and mixed-use zoned lands are included in this analysis, any rezoning would not decrease the amount of vacant or partially vacant land available. The range of allowed uses, from retail to multi-story office buildings, would not be affected.

Table 15. Reconciliation of Long-term Land Demand and Supply Commercial and

Mixed Use 20-Year Land Use Forecast (gross buildable acres), Tigard USB

| Land Demand and Supply | Low Land Need Scenario | Medium Land Need Scenario | High Land Need Scenario |
|---|-------------------------------|-------------------------------------|-------------------------------|
| Demand for Vacant Commercial Land | 78 | 105 | 131 |
| Commercial Demand | 51 | 68 | 85 |
| Mixed-Use Demand | 27 | 36 | 45 |
| Supply of Vacant Commercial Land | 86 | 86 | 86 |
| Commercial Zoned Supply | 46 | 46 | 46 |
| Mixed-Use Zoned Supply | 40 | 40 | 40 |
| Land Surplus or (Deficit) | 8 | (19) | (45) |
| Preliminary Parcel Distribution, Efficient Need Forecast | Existing Supply (tax lots) | Forecast of Demand (tax lots) | Surplus (tax lots) |
| Less Than 1 acre | 89 | 30 | 59 |
| 1 to 5 acres | 14 | 14 | 0 |
| 5 to 10 acres | 3 | 3 | 0 |
| 10 to 20 acres | 0 | 0 | 0 |
| 20+ acres | 0 | 0 | 0 |
| Total | 106 | 47 | 59 |

Source: FCS GROUP, based on findings included in demand and supply analysis.

Planning, Market, Cost and Risk Factors

Consistent with EOA documentation requirements, the economic trends analysis, stakeholder interviews and business clusters analyses indicate that the Tigard USB is uniquely positioned within the greater Portland metropolitan region to experience continued success in retaining and attracting businesses and economic development.

Risk of Losing Large Commercial and Industrial Sites

As Tigard's vacant land supply of large parcels (more than five acres) becomes diminished, the City could risk losing economic growth potential if remaining larger industrial and commercial sites allow non-employment uses that displace prospective business opportunities. While the current short-term employment market is sluggish at best, the future long-term job growth trends bode well for Tigard if it preserves large commercial and industrial zoned parcels for intended business activity. These risks can be mitigated in part by adopting new economic development objectives that preserve large commercial and industrial areas for desired commercial and industrial business activities.

Risk of Not Adequately Preparing for Targeted Area Redevelopment

As Tigard's population and employment levels increase with time, and vacant land diminishes, the City will need to rely more upon redevelopment areas, and productivity increases from existing developed lands and businesses to achieve long-term economic strength and diversity. New economic

development objectives should be formulated to enable the City to leverage desired redevelopment in targeted locations such as downtown, and within planned transit-station communities.

Risk of Expanding the USB in the Future

Beyond the 20-year forecast time horizon the City should consider the need to grow into urban reserve locations, if the City's investment in infrastructure extensions yields a favorable return to its residents and businesses. An Urban Planning Area expansion is not necessary at this time to accommodate industrial and other employment land needs for the next 20 years, unless the City opts to pursue the moderate or high land needs scenario to accommodate additional commercial and industrial job growth.

Planning and Permitting Risks

The City should review its land use development code to ensure that it preserves sites for their intended use, yet is flexible enough to accommodate a full diversity of commercial and light industrial uses consistent with public safety, public facilities, and positive urban design characteristics. The ability to provide a streamlined and predictable permitting process can be a challenge as the City relies more on smaller infill and redevelopment sites to accommodate business growth.

Non-Local Regulatory Risks

The City is dependent upon ODOT to achieve higher trip caps in targeted redevelopment areas. As the City and Metro pursue high capacity transit facilities and assessed service levels, these regulatory risks may be addressed by assuming higher non-vehicle mode shares that result in reduced traffic impacts from new development.

Most of the risk factors described above may be addressed by the City of Tigard. Others will require partnerships with regional and state regulatory agencies, such as Metro, Washington County and ODOT. The City can take a leadership position by providing a local planning and permitting environment that is favorable to business investment and more proactive economic marketing to raise awareness of Tigard's strengths as a preferred location for over 2,900 existing business establishments.

IMPLEMENTATION POLICIES AND ACTION MEASURES

OAR 660-009-0020 stipulates that comprehensive plans must provide community economic development objectives, a commitment to providing a competitive short-term land supply, and identification and provision of adequate sites and public facilities to serve economic development demand.

Since the City of Tigard updated the economic development chapter of its Comprehensive Plan in 2008, the document contains a fairly complete set of economic development goals, policies and action measures. The following is a list of topics and recommended policy updates to comply with state statutes and/or implement the City's economic goals.

Policies

Community Economic Development Objectives (CEDOs)

The majority of these objectives are already embedded in existing policies. Two new policies are recommended:

"The City shall encourage neighborhood commercial uses that support economic opportunities, multi-modal transportation options, neighborhood vitality, and the goals of efficient land use patterns."

"The City shall encourage businesses that are environmentally and economically sustainable."

Commitment to Provide Adequate Sites and Facilities and Commitment to Provide a Short-Term Land Supply of Land

The commitment to provide adequate public facilities is embedded in existing Policy 9.1.4 of the Comprehensive Plan. One new policy is recommended to describe the commitment to provide adequate sites and a short-term land supply:

"The City shall monitor and update its Buildable Lands Inventory to ensure adequate short and long-term supplies of buildable employment land."

Provide for Prime Industrial Land Development on Large Lots

Existing Policy 9.1.7 addresses the need to protect prime industrial land but does not address the need for large lots. It is recommended the policy be revised as follows:

"The City shall limit the development of retail and service land uses in Metro-designated industrial areas, and especially on lots of 10 or more acres, to preserve the potential of these lands for industrial jobs."

Promote Targeted Redevelopment in Downtown and other areas

This issue is addressed by several existing policies and recommended action measures, but most directly by Policy 9.3.1: "The City shall focus a significant portion of future employment growth and high-density housing development in its Metro-designated Town Center (Downtown); Regional Center (Washington Square); High Capacity Transit Corridor (Hwy 99W); and the Tigard Triangle." No new language is proposed.

Recommended Action Measures

Assist property owners with the Oregon Industrial Site Certification Process

A new recommended action measure is suggested:

"Assist property owners with the Oregon Industrial Site Certification Process to help preserve and market the City's inventory of industrial lands."

Economic Development Marketing and Incentives Directed Towards Strategic Clusters

This issue is addressed indirectly by several recommended action measures, but could benefit from more concise language. A new recommended action measure is suggested:

"Explore an economic development marketing and incentives program targeting strategic business clusters."

Work with ODOT to address mobility standards

Capacity issues on state highways (particularly Pacific Highway, Hwy. 217, and Interstate 5) impact economic development opportunities through trip caps, limited floor-to-area ratios, and required road improvements that are expensive. The conversation is just getting started at the regional level. A new recommended action measure is suggested:

"Work with state and regional partners to develop alternative mobility standards that will benefit the community and its economic development efforts."

Monitor Local and Regional Economic Development Initiatives

This request from the Planning Commission led to a suggested new recommended action measure:

"Monitor local and regional economic development initiatives to assess their effectiveness related to cost and outcome."

Metro Designated Centers and Corridors

Based on a resolution passed by the Tigard City Council, Metro recently amended its Growth Concept Map expanding the Tigard Town Center Boundary to include the entire Tigard Urban Renewal District and the Tigard Triangle. The City is required to adopt this change into its Comprehensive Plan. Staff recommends adopting a definition that will refer to the Metro Growth Concept Map, thus eliminating the need to amend the Tigard Comprehensive Plan each time the Metro Growth Concept Map is amended.

APPENDIX A - OFFICE LEASING ACTIVITY SUMMARY, MID-YEAR REPORT

| Class A Market Statistics | 20 1 20 20 4 1 2 0 4 1 24 40 20 20 12 12 12 12 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14 | ner en autre transferen i de er en berein autre transferen de de | fun der ein und einem einem einem ein der eine und einem eine einem eine | were uiter teruter voor van dewere uiter terut | e ki zen ort den edit udden drude ek i zen ort den edit udden | oraze el 10 m en delega alta estraze el 10 m en delega a | in and the second secon | id-Year 201 |
|---|--|--|--|---|---|--|--|--------------------------|
| Olass / Illianice statistics | Existing I | nventorv | Vacano | CV | YTD Net | YTD | Under Const | Quoted |
| Market | # Builds | Total RBA | Total SF | Vac % | Absorbtion | Deliveries | SF | Rates |
| Central Business District | 41 | 11,389,435 | 1,412,066 | 12.4% | (135,590) | 368,800 | 62,200 | \$24.42 |
| Suburban | 141 | 17,234,745 | 2,225,626 | 12.9% | (130, 126) | | - | \$23.74 |
| Tigard | 6 | 509,087 | 151,931 | 29.8% | (13,097) | | | \$23.93 |
| 217 Corridor/Beaverton | 12 | 1,142,430 | 303,750 | 26.6% | (15,550) | | | \$21.77 |
| Kruse Way | 19 | 1,961,855 | 495,615 | 25.3% | (26,228) | | | \$26.05 |
| Barbur Blvd/Capitol Hwy | - | - | - | 23.370 01-01-02-02-03-03-03-03-03-03-03-03-03-03-03-03-03- | - 100 mar - 100 | erina tidandoreste escentra tidandorest | | \$0.00 |
| Tulalatin | 4 | 361,270 | 154,503 | 42.8% | 5,604 | ve. ve. , , = 1,10, + 0,00, ve. , , = 1,10, | | \$24.31 |
| Wilsonville | 4 | 325,501 | 55,071 | 16.9% | | Service School of the Commerce Service School of the Commerce Service School of the Commerce Service S | er transportunisti er | \$24.77 |
| Total | 182 | 28,624,180 | 3,637,692 | 12.7% | (265,716) | 368,800 | 62,200 | \$24.01 |
| Total | 102 | 20,024,100 | 3,037,092 | 12.770 | (203,710) | 300,000 | 02,200 | 524.01 |
| Class B Market Statistics | r orme. Parateut the order orme. Parateut | the construction of the co | francisco em reservir a con escar francis | to come some. Assures to the come some | | na Paulitati da cinir sima. Paulitati da cini | | id-Year 20 |
| Sidds B Ividi Net Statistics | Existing I | nventory | Vacano | rv | YTD Net | YTD | Under Const | Quoted |
| Market | # Builds | Total RBA | Total SF | Vac % | Absorbtion | Deliveries | SF | Rates |
| Central Business District | 130 | 9,423,902 | 927,523 | 9.8% | 61,787 | - | | \$20.18 |
| Suburban | 1,155 | 30,095,314 | 4,345,461 | 14.4% | (62,639) | 14,000 | 268,854 | \$17.82 |
| Tigard | 83 | 1,979,955 | 277,469 | 14.0% | 12,806 | eners de transceres de servicides de transceres - | | \$20.88 |
| 217 Corridor/Beaverton | 72 | 1,719,571 | 314,759 | 18.3% | 5,148 | | | \$16.40 |
| Kruse Way | 26 | 728,262 | 93,241 | 12.8% | (14,059) | au maan kantoon Dama maan kantoon | elekti historia Kantonin Priesta historia Kantolin — | \$20.76 |
| Barbur Blvd/Capitol Hwy | 42 | 890.672 | 121,398 | 13.6% | 2,337 | Com tara es cua casa Com tara es cu | e.e (nondera es ce.e | \$16.79 |
| Tulalatin | 30 | 704,815 | 105,798 | 15.0% | (7,289) | ra liber tribuse il creaser a radiorit tetroritana il crea | and a resident harmonisteen it in account a resident harmonisteen its a | \$19.36 |
| Wilsonville | 17 | 622,051 | 30,169 | 4.8% | (10,369) | ntermes e commitente manimistre e comm | camiantes e somusamiantes e som | \$16.71 |
| Total | 1,285 | 39,519,216 | 5,272,984 | 13.3% | (852) | 14,000 | 268,854 | \$18.38 |
| Total | 1,203 | 33,313,210 | 3,272,364 | 13.370 | (832) | 14,000 | 200,034 | 710.50 |
| Class C Market Statistics | ,**1* ********************** | handada - e-e e e e e e e e e e e e e e e e e | | minute -committee in the property -com | e il suoi ferminaza este i e il suoi ferminaza e | ** 1 * 1 * 10 * 10 * Parishada ** 2 * 1 * 1 * 10 * Parishad | M | id-Year 201 |
| Jacob Ciriaritot Ctationics | Existing I | nventorv | Vacano | CV | YTD Net | YTD | Under Const | Quoted |
| Market | # Builds | Total RBA | Total SF | Vac % | Absorbtion | Deliveries | SF | Rates |
| Central Business District | 177 | 4,093,913 | 489,486 | 12.0% | 11,201 | _ | - | \$17.49 |
| Suburban | 2,815 | 18,283,763 | 129,081 | 0.7% | 68,665 | | _ | \$14.36 |
| Tigard | 97 | 662,182 | 66,493 | 10.0% | (3,199) | aliado en metro aliade en me | | \$15.60 |
| 217 Corridor/Beaverton | 82 | 609,431 | 70,635 | 11.6% | 1,202 | | | \$14.50 |
| Kruse Way | 19 | 133,044 | 2,452 | 1.8% | - | | | \$18.00 |
| Barbur Blvd/Capitol Hwy | 120 | 846,865 | 99,822 | 11.8% | (5,090) | - | - 1964 for the other later 1964 for the other later | \$15.60 |
| สายเลยานายการการการการการการการการการการการการการก | 20 | 119,561 | 29,278 | 24.5% | (5,598) | be die marticies inc. 1 abe die marticies in | s and electricate then have a and electricate decide | \$14.73 |
| Wilsonville | 21 | 103,496 | 2,681 | 2.6% | 5,609 | | - Control of the state of the s | \$17.21 |
| Total | 2,992 | 22,377,676 | 618,567 | 2.8% | 79,866 | _ | _ | \$14.93 |
| Total | 2,332 | 22,377,070 | 010,507 | 2.070 | , 5,000 | | | Ģ1 11.53 |
| Class B and C Market Statist | ics | re had a management and re had a management | harring a removement of the artistic form | er mer sem mentetterheter bester sem sem men | estate basis in her semi-american basis in her set | a hand to the last of the last of the hand to have the last of the | M | id-Year 20 |
| Diass Build Cividine Customs | Existing I | nventory | Vacano | CV | YTD Net | YTD | Under Const | Quoted |
| Market # | | Total RBA | | ac % | Absorbtion | Deliveries | SF SF | Rates |
| Central Business District | 307 | 13,517,815 | 1,417,009 | 10.5% | 72,988 | - | | \$19.37 |
| Suburban | 3,970 | 48,379,077 | 4,474,542 | 9.2% | 6,026 | 14,000 | 268,854 | \$16.51 |
| Tigard | 180 | 2,642,137 | 343,962 | 13.0% | 9,607 | - | 200,007 | \$19.56 |
| 217 Corridor/Beaverton | 154 | 2,329,002 | 345,362 | 16.5% | 6,350 | | | \$15.90 |
| Kruse Way | 45 | 861,306 | 95,693 | 11.1% | (14,059) | est memoria de la restra vesta de la caracteria de la restra dela restra de la rest | South national trainings South national training | \$20.33 |
| Barbur Blvd/Capitol Hwy | namen ne namen namen met ne n | contractive out a solin garden of | 221,220 | Carrier Car Continues Con- | CONTRACTOR OF THE STREET | | | \$16.21 |
| Tulalatin | 162 50 | 1,737,537 824,376 | 135,076 | 12.7% | (2,753) | | esseren auresaksischen en auresaks | \$18.69 |
| eta tone et errigitate, my eta tone et errigitate, my eta tone et errigitate, my eta tone et errigitate | and the state of t | and the management of the state | constant transfer of paragraph transfer or many | 16.4% | (12,887) | estatus virtikini Testatus virtikini | | n menangan memberah mena |
| Wilsonville | 38 | 725,547 61,896,892 | 32,850 5,891,551 | 4.5% 9.5% | (4,760) 79,014 | 14,000 | - 268,854 | \$16.78 \$17.14 |
| Total | 4,277 | | | | | | | |

APPENDIX B: INDUSTRIAL LEASING ACTIVITY, MID-YEAR 2010 REPORT

| Flex Building Market Statistic | | | į. | | | | M | id-Year 201 |
|--|-------------------------------------|---|---|--------------------------------------|--|---|--|-------------|
| _ | Existing | nventory | Vacai | ncy | YTD Net | YTD | Under Const | Quoted |
| Market | # Builds | Total RBA | Total SF | Vac % | Absorbtion | Deliveries | SF | Rates |
| Central Business District | 3 | 45,000 | 10,000 | 22.2% | - | - | | \$16.50 |
| Suburban | 741 | 18,956,577 | 2,268,793 | 12.0% | (336,814) | 70,020 | - | \$10.23 |
| Tigard | 50 | 1,277,751 | 170,855 | 13.4% | (12,799) | - | | \$12.30 |
| 217 Corridor/Beaverton | 87 | 2,204,502 | 419,258 | 19.0% | (69,237) | _ | - | \$11.77 |
| Kruse Way | 2 | 88,928 | - | 0.0% | - | - | - | \$0.00 |
| Barbur Blvd/Capitol Hwy | 7 | 53,681 | 6,771 | 12.6% | 5,100 | _ | - | \$10.35 |
| Tulalatin | 14 | 430,840 | 23,229 | 5.4% | (2,531) | _ | - | \$7.54 |
| Wilsonville | 29 | 1,661,734 | 201,334 | 12.1% | (18,316) | 7,020 | - | \$9.31 |
| Total | 744 | 19,001,577 | 2,278,793 | 12.0% | (336,814) | 70,020 | - | \$10.24 |
| Warehouse Building Market | Statistics | emaninapiesta 1982 ti emaninapiesta 1982 ti | marapaga, restrictamentales, restric | etarinetellie 1998 tiretarinetellie. | ess es almanimentesse es su es almanimentess | o telles and an activities of the second | | id-Year 201 |
| | Existing | nventory | Vacai | ncy | YTD Net | YTD | Under Const | Quoted |
| Market | # Builds | Total RBA | Total SF | Vac % | Absorbtion | Deliveries | SF | Rates |
| Central Business District | 41 | 1,616,833 | 141,090 | 8.7% | (1,843) | - | - | \$5.78 |
| Suburban | 4,694 | 167,214,476 | 13,813,643 | 8.3% | 91,337 | 119,723 | 415,000 | \$5.55 |
| Tigard | 119 | 4,394,617 | 339,683 | 7.7% | 57,333 | add ma'r 11 a 15 danau'i da anadd ma'r 11 a 15 danau' | | \$6.38 |
| 217 Corridor/Beaverton | 75 | 3,332,391 | 471,805 | 14.2% | 31,770 | = | - | \$6.30 |
| Kruse Way | 13 | 301,069 | 3,378 | 1.1% | 10,240 | - | — — — — — — — — — — — — — — — — — — — | \$7.20 |
| Barbur Blvd/Capitol Hwy | 17 | 209,963 | 5,000 | 2.4% | 8,000 | - | | \$6.16 |
| Tulalatin | 221 | 8,453,141 | 675,494 | 8.0% | (39,805) | - A series of sealer man such series of sealer man | - Compared all surface most party after a victorian most | \$5.20 |
| Wilsonville | 83 | 6,155,906 | 1,268,475 | 20.6% | 47,351 | | The contract of the contract o | \$5.95 |
| Total | 4,735 | 168,831,309 | 13,954,733 | 8.3% | 89,494 | 119,723 | 415,000 | \$5.55 |
| Total Industrial Market Statis | stics | nner erenemen erenen | *************************************** | nnan asan mhammar asan | en-mar assimenar as | ri neni-mmari in seri neni-mmari | M | id-Year 20: |
| | Existing | nventory | Vacai | ncy | YTD Net | YTD | Under Const | Quoted |
| Market | # Builds | Total RBA | Total SF | Vac % | Absorbtion | Deliveries | SF | Rates |
| Central Business District | 44 | 1,661,833 | 151,090 | 9.1% | (1,843) | - | - | \$7.16 |
| Suburban | 5,435 | 186,171,053 | 16,082,436 | 8.6% | (245,477) | 189,743 | 415,000 | \$6.19 |
| Tigard | 169 | 5,672,368 | 510,538 | 9.0% | 44,534 | topis property and security and appropriate or a | #. s. r. | \$7.68 |
| 217 Corridor/Beaverton | 162 | 5,536,893 | 891,063 | 16.1% | (37,467) | - | - Annual Contraction of the Cont | \$8.07 |
| Kruse Way | 15 | 389,997 | 3,378 | 0.9% | 10,240 | Zinem reteriorismo surriu zinem reteriorismo. | - | \$7.20 |
| Barbur Blvd/Capitol Hwy | 24 | 263,644 | 11,771 | 4.5% | 13,100 | | _ | \$8.01 |
| research in compression in compression in compression for the second in compression for the seco | 235 | 8,883,981 | 698,723 | 7.9% | (42,336) | | - | \$5.29 |
| Tulalatin | production to the production of the | 7,817,640 | 1,469,809 | 18.8% | 29,035 | 7,020 | | \$6.72 |
| Wilsonville | 112 | 1,011,010 | | | | | | |

APPENDIX C: ANALYSIS OF EMPLOYMENT AND SPACE NEEDS

Projected Tigard Employment, Medium Forecast Scenario, 2005-2035

| | | | Chang | e |
|-------------------|--------|------------|--------|------|
| | 2005 | Proj. 2035 | Jobs | % |
| Retail Trades | 9,854 | 14,426 | 4,572 | 46% |
| Services | 11,372 | 23,482 | 12,110 | 106% |
| Industrial/Other* | 12,049 | 13,637 | 1,588 | 13% |
| Government* | 8,033 | 9,092 | 1,059 | 13% |
| Total | 41,308 | 60,637 | 19,329 | 47% |

Source: Metro adopted housing and employment growth forecasts, 2007; Metroscope Gen. 2.3. Assumes allocation of "Other" jobs at 60% industrial, and 40% government. In light of the recent national economic recession that caused severe declines in Oregon employment from 2007 through 2010, Metro's 2030 job forecast for Tigard is assumed to be achieved by year 2035 under the "medium forecast" scenario.

Projected Tigard Net New Average Annual Employment Forecast (1 Year Forecast)

| | | . , | |
|-------------------|-----|--------|------|
| | Low | Medium | High |
| Retail Trades | 114 | 152 | 191 |
| Services | 303 | 404 | 505 |
| Industrial/Other* | 40 | 53 | 66 |
| Government* | 26 | 35 | 44 |
| Total | 483 | 644 | 805 |

Projected Tigard Net New 20-Year Employment Forecast

| | Low | Medium | High |
|-------------------|-------|--------|--------|
| Retail Trades | 2,286 | 3,048 | 3,810 |
| Services | 6,055 | 8,073 | 10,092 |
| Industrial/Other* | 794 | 1,059 | 1,324 |
| Government* | 529 | 706 | 882 |
| Total | 9,665 | 12,886 | 16,108 |

APPENDIX C: ANALYSIS OF EMPLOYMENT AND SPACE NEEDS (CONTINUED)

| | | | Flex/Bus. | Gen. | | | |
|--|---|---|---|--|--|--|--|
| Employment Sectors | Office | Institutional | Park | Industrial | Warehouse | Retail | Total |
| Retail Trades | 5% | 1% | 6% | 0% | 12% | 76% | 100% |
| Services | 72% | 1% | 5% | 1% | 1% | 20% | 100% |
| Industrial/Other | 8% | 0% | 50% | 40% | 2% | 0% | 100% |
| Government | 43% | 37% | 5% | 0% | 0% | 15% | 100% |
| Source: Metro Draft 2009-2 | 2030 Urban Gi | rowth Report; n | nodified to refl | ect local obs | ervations. | | ************************************** |
| Proj. Tigard Net New 20 | Year Employ | ment Forecas | st by Building | j Type, Low | | - , may the form that are the first of the contract of the form of the contract of the contrac | es Pales de Signet Pales de la companya de la comp |
| | | | Flex/Bus. | Gen. | | | |
| | Office | Institutional | Park | Industrial | Warehouse | Retail | Total |
| Retail Trades | 114 | 23 | 137 | - | 274 | 1,737 | 2,286 |
| Services | 4,360 | 61 | 303 | 61 | 61 | 1,211 | 6,055 |
| Industrial/Other* | 64 | - | 397 | 318 | 16 | - | 794 |
| Government* | 228 | 196 | 26 | - | - 1 | 79 | 529 |
| | | | | 270 | 254 | 2 200 | 9,665 |
| Total Proj. Tigard Net New 20- | 4,765 Year Employ | 279 vment Forecas | 863 st by Building | 378 Type, Medi | 351 um | 3,028 | 9,003 |
| Total Proj. Tigard Net New 20 | | | | | | 3,U28 | 9,000 |
| | | | st by Building | ı Type, Medi | | 3,028 | Total |
| | -Year Employ | ment Forecas | st by Building Flex/Bus. | Type, Medi Gen. | um | e wasand to see the first of the second to the second to see the second to see the second to see the second to | Total |
| Proj. Tigard Net New 20 | -Year Employ Office | ment Forecas | st by Building Flex/Bus. Park | Type, Medi Gen. | um Warehouse | Retail | Total 3,048 |
| Proj. Tigard Net New 20 Retail Trades | Office | ment Forecas | st by Building Flex/Bus. Park 183 | g Type, Medi Gen. Industrial - | um Warehouse | Retail 2,316 | Total 3,048 8,073 |
| Proj. Tigard Net New 20- Retail Trades Services | Office 152 5,813 | Institutional | st by Building Flex/Bus. Park 183 404 | g Type, Medi Gen. Industrial - 81 | warehouse 366 81 | Retail 2,316 1,615 | Total 3,048 8,073 1,059 |
| Proj. Tigard Net New 20- Retail Trades Services Industrial/Other* | Office 152 5,813 85 | Institutional 30 81 | st by Building Flex/Bus. Park 183 404 529 | g Type, Medi Gen. Industrial - 81 | warehouse 366 81 | Retail 2,316 1,615 | and a construction of the second at the seco |
| Proj. Tigard Net New 20- Retail Trades Services Industrial/Other* Government* Total | Office 152 5,813 85 304 6,353 | Institutional 30 81 - 261 372 | st by Building Flex/Bus. Park 183 404 529 35 1,151 | Type, Medi Gen. Industrial - 81 424 - 504 | Warehouse 366 81 21 | Retail 2,316 1,615 - 106 | Total 3,048 8,073 1,059 706 |
| Proj. Tigard Net New 20- Retail Trades Services Industrial/Other* Government* | Office 152 5,813 85 304 6,353 | Institutional 30 81 - 261 372 | st by Building Flex/Bus. Park 183 404 529 35 1,151 | g Type, Medi Gen. Industrial - 81 424 - 504 | Warehouse 366 81 21 | Retail 2,316 1,615 - 106 | Total 3,048 8,073 1,059 706 |
| Proj. Tigard Net New 20- Retail Trades Services Industrial/Other* Government* Total | Office 152 5,813 85 304 6,353 Year Employ | Institutional 30 81 - 261 372 | st by Building Flex/Bus. Park 183 404 529 35 1,151 st by Building Flex/Bus. | g Type, Medi Gen. Industrial - 81 424 - 504 g Type, High Gen. | um Warehouse 366 81 21 - 468 | Retail 2,316 1,615 - 106 4,037 | Total 3,048 8,073 1,059 706 12,886 |
| Proj. Tigard Net New 20- Retail Trades Services Industrial/Other* Government* Total | Office 152 5,813 85 304 6,353 | Institutional 30 81 - 261 372 | st by Building Flex/Bus. Park 183 404 529 35 1,151 | g Type, Medi Gen. Industrial - 81 424 - 504 | Warehouse 366 81 21 | Retail 2,316 1,615 - 106 | Total 3,048 8,073 1,059 706 |
| Proj. Tigard Net New 20- Retail Trades Services Industrial/Other* Government* Total Proj. Tigard Net New 20- | Office | Institutional 30 81 - 261 372 ment Forecas | st by Building Flex/Bus. Park 183 404 529 35 1,151 st by Building Flex/Bus. Park | g Type, Medi Gen. Industrial - 81 424 - 504 g Type, High Gen. | warehouse 366 81 21 - 468 Warehouse | Retail 2,316 1,615 - 106 4,037 | Total 3,048 8,073 1,059 706 12,886 |
| Proj. Tigard Net New 20- Retail Trades Services Industrial/Other* Government* Total Proj. Tigard Net New 20- Retail Trades | Office 152 5,813 85 304 6,353 -Year Employ Office 191 | Institutional 30 81 - 261 372 ment Forecas Institutional 38 | st by Building Flex/Bus. Park 183 404 529 35 1,151 st by Building Flex/Bus. Park 229 | Type, Medi Gen. Industrial - 81 424 - 504 Type, High Gen. Industrial | warehouse 366 81 21 - 468 Warehouse 457 | Retail 2,316 1,615 - 106 4,037 Retail 2,896 | Total 3,048 8,073 1,059 706 12,886 Total 3,810 |
| Proj. Tigard Net New 20- Retail Trades Services Industrial/Other* Government* Total Proj. Tigard Net New 20- Retail Trades Services | Office 152 5,813 85 304 6,353 -Year Employ Office 191 7,266 | Institutional 30 81 - 261 372 ment Forecas Institutional 38 | st by Building Flex/Bus. Park 183 404 529 35 1,151 st by Building Flex/Bus. Park 229 505 | Type, Medi Gen. Industrial - 81 424 - 504 Type, High Gen. Industrial - 101 | warehouse 366 81 21 - 468 Warehouse 457 101 | Retail 2,316 1,615 - 106 4,037 Retail 2,896 | Total 3,048 8,073 1,059 706 12,886 Total 3,810 10,092 |

APPENDIX C: ANALYSIS OF EMPLOYMENT AND SPACE NEEDS (CONTINUED)

| | Office | Institutional | Flex/Bus. Park | Gen. Industrial | Warehouse | Retail | |
|---|---------------|------------------|--|--|------------------------------------|--|--|
| Refill/Redevelopment Rate ¹ | 67% | | 45% | 45% | | 60% | han to the property |
| Jobs Needing Vacant Land Rate ² | 33% | 33% | 55% | 55% | 55% | 40% | .TTerms.Sept.Sta struct .TT |
| Building SF Per Job ² | 370 | 630 | 550 | 700 | 1,100 | 510 | For the Parker of Physiological Section 1 |
| Floor-Area-Ratio ² | 0.50 | 0.50 | 0.31 | 0.30 | 0.30 | 0.30 | end one recover or recovered a |
| Public Facility Net:Gross Adjustment ³ | 1.10 | 1.05 | 1.10 | 1.05 | 1.05 | 1.10 | THE THE BUT ON CONTRACT OF A |
| Work at Home Adjustment ⁴ | 0.15 | 0.03 | 0.05 | 0.03 | 0.03 | 0.03 | - Martin Colonia (1974) |
| * assumptions are intended to reflect a lo | ng-term ave | rage over 20 y | ears, some "ra | amp up" is ex | pected to attai | n these densi | ty levels |
| 1/ Adjusts for building refill & vacancy all | owances. | 1 | an international projection international project | 20 111111111111111111111111111111111111 | - | AND COMPANY OF THE PARTY OF THE | Constitution of the Consti |
| 2/ Building density derived from Metro UC | SR assumpti | ions. | STEP Wilderfolder mage han de STEP Wilderfolder mage han d | gam secondo meso mano secondo me | 2000 00000 00000 00000 00000 00000 | and a state of the second | garticanist recorded mark I |
| 3/ Allowances take into account land dec | licated to pu | blic/utility eas | ements. | nom om soc en um out a creat nom om soc en um out cr | farmonia menangan menangan menah | er net kjem pomiter et harriten et het net kjem pomiter et harri | |

4/ Allowance based on national statistics by US Dept. of Labor, Bureau of of Labor Statistics, Technical information: "Work at Home i Source: assumptions are generally consistent with the Metro Draft 2009-2030 Urban Growth Report; modified to reflect local observatio.

| Proj. Tigard Net New 20-Year Redeve | | | | | | | |
|-------------------------------------|----------------|---------------|---------|------------|-----------|-----------|-----------|
| | Flex/Bus. Gen. | | | | | | |
| | Office | Institutional | Park | Industrial | Warehouse | Retail | Total |
| Low | 1,004,000 | 114,000 | 203,000 | 116,000 | 168,000 | 899,000 | 2,504,000 |
| Medium | 1,339,000 | 152,000 | 271,000 | 154,000 | 225,000 | 1,198,000 | 3,339,000 |
| High | 1,673,000 | 191,000 | 338,000 | 193,000 | 281,000 | 1,498,000 | 4,174,000 |

Proj. Tigard Net New 20-Year Building Floor Area on Vacant Lands (Floor Area) Flex/Bus. Gen. Office Institutional Park Industrial Warehouse Retail Total Low 495,000 56,000 248,000 141,000 206,000 599,000 1,745,000 659,000 75,000 331,000 188,000 274,000 799,000 Medium 2,326,000 94,000 414,000 824,000 235,000 343,000 999,000 2,909,000 High

| Proj. Tigard 20-Year Vacant Lands (g | | | | | | | |
|--------------------------------------|--------|---------------|-----------|------------|-----------|--------|-------|
| | | | Flex/Bus. | Gen. | | | |
| | Office | Institutional | Park | Industrial | Warehouse | Retail | Total |
| Low | 25 | 3 | 20 | 11 | 17 | 50 | 126 |
| Medium | 33 | 4 | 27 | 15 | 22 | 67 | 168 |
| High | 42 | 5 | 34 | 19 | 28 | 84 | 210 |

APPENDIX C: ANALYSIS OF EMPLOYMENT AND SPACE NEEDS (CONTINUED)

| | | | Flex/Bus. | Gen. | | | |
|--|--|---|--|---|--|---|---|
| Local Zoning Classification | Office | Institutional | Park | Industrial | Warehouse | Retail | |
| Commercial | 50% | 60% | 20% | 10% | 10% | 60% | ar menor to have to be a common menor to |
| Mixed Use | 40% | 20% | 5% | 5% | 0% | 30% | net for the constitution of the besit for the |
| Industrial | 10% | 20% | 75% | 85% | 90% | 10% | A - sanitaria sirika nibe 24-08 - sanitar |
| Total | 100% | 100% | 100% | 100% | 100% | 100% | 4664477,79 (*c., 2) *C. (10066477) |
| Assumptions by FCS GROUP and | Tigard based on I | ocal observatio | ons. | restatività materiale etation testatività materiale et | | | |
| 마다 마다 사람들이 있었다. 하는 남자들이 보다는 것 같은 한당로 하는 남자 | ation to make the state of the local transport of the state of the sta | | ner brek in briller han is kritt brek in briller han is | and the fire house have a second the second | | | na See See See See See See See See See Se |
| tanan kita en begin ampanak kita en begin ampanan kita en begin ampanan kita en begin ampanan kita en begin am | er e er en | en om den eller Lutter (1974, den och den eller Lutter) (1974, den och den eller Lutter) (1974, den och den eller Lutter) | om sen dien eine Latten der Laten er, dom sen dien eine Latten der eine Laten in der | 12 m on Brooks Lies (15 mile) v. 12 m on Brooks Lies (15 mi | granton or moved amount of the or moved amount | a en 15 a ma province magnificação en 15 a ma province militaria. El provincio de provincio magnificação en 15 a mais provincio medica de la provincio de la p | an eliter en beson antentrante eliter |
| Proj. Tigard 20-Year Vacant Land | d Needs Forecas | t by Zonina C | lassification. | Low | to deligne | es missass | |
| | | | Flex/Bus. | Gen. | Ì | i | |
| Land Use Classification | Office | Institutional | Park | Industrial | Warehouse | Retail | Total |
| Commercial | 13 | 2 | 4 | 1 | 2 | 30 | 51 |
| Mixed Use | 10 | 1 | 1 | 1 | | 15 | 27 |
| Industrial | 3 | 1 | 15 | 10 | 15 | 5 | 48 |
| Total | 25 | 3 | 20 | 11 | 17 | 50 | 12 |
| | | | | | | - | |
| Land Has Classification | Office | Institutional | Flex/Bus. | Gen. | Warahausa | Botoil | Total |
| | | | | | l | | |
| Land Use Classification | Office | Institutional | Park | Industrial | Warehouse | Retail 40 | Total |
| Land Use Classification Commercial Mixed Use | Office 17 | Institutional 2 | | | Warehouse 2 | Retail 40 20 | 68 |
| Commercial | 17 | 2 | Park 5 | Industrial 2 | 2 | 40 | 68 36 |
| Commercial Mixed Use | 17 13 | 2 | Park 5 | Industrial 2 | 2 | 40 | 68 36 64 |
| Commercial Mixed Use Industrial | 17 13 3 | 2 1 1 | Park 5 1 20 | Industrial 2 13 | 2 - 20 | 40 20 7 | 68 36 64 |
| Commercial Mixed Use Industrial Total | 17 13 3 3 33 | 2 1 1 4 | Park 5 1 20 27 | 1 13 15 | 2 - 20 | 40 20 7 | 68 36 64 |
| Commercial Mixed Use Industrial | 17 13 3 3 33 | 2 1 1 4 | Park 5 1 20 27 | Industrial | 2 - 20 | 40 20 7 | 68 36 64 |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land | 17 13 3 3 33 d Needs Forecas | 2 1 1 4 4 | Park 5 1 20 27 classification, Flex/Bus. | Industrial 2 1 13 15 High Gen. | 2 - 20 22 | 40 20 7 67 | 68 36 64 168 |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land Land Use Classification | 17 13 3 3 33 d Needs Forecas | 2 1 1 4 t by Zoning C | Park 5 1 20 27 classification, Flex/Bus. Park | 113 15 High Gen. Industrial | 2 - 20 22 22 Warehouse | 40 20 7 67 | 68 36 64 168 Total |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land Land Use Classification Commercial | 17 13 3 3 33 d Needs Forecas Office 21 | 2 1 1 4 t by Zoning C | Park 5 1 20 27 classification, Flex/Bus. Park 7 | Industrial 2 11 13 15 High Gen. Industrial 2 | 2 - 20 22 | 40 20 7 67 8 Retail | 68 36 64 168 Total |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land Land Use Classification Commercial Mixed Use | 17 13 3 33 33 d Needs Forecas Office 21 17 | 2 1 1 4 4 t by Zoning C Institutional | Park 5 1 20 27 classification, Flex/Bus. Park 7 2 | Industrial 2 11 13 15 High Gen. Industrial 2 1 | 2 - 20 22 22 Warehouse 3 - | 40 20 7 67 67 Retail 50 25 | 68 36 64 16 Total |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land Land Use Classification Commercial Mixed Use Industrial | 17 13 3 33 33 4 Needs Forecas Office 21 17 4 | 2 1 1 4 4 t by Zoning C Institutional 3 1 | Park 5 1 20 27 classification, Flex/Bus. Park 7 2 25 | Industrial 2 11 13 15 High Gen. Industrial 2 11 16 | 2 - 20 22 22 Warehouse 3 - 25 | 40 20 7 67 67 Retail 50 25 8 | 68 36 64 168 Total 85 45 |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land Land Use Classification Commercial Mixed Use | 17 13 3 33 33 d Needs Forecas Office 21 17 | 2 1 1 4 4 t by Zoning C Institutional | Park 5 1 20 27 classification, Flex/Bus. Park 7 2 | Industrial 2 11 13 15 High Gen. Industrial 2 1 | 2 - 20 22 22 Warehouse 3 - | 40 20 7 67 67 Retail 50 25 | 68 36 64 163 Total 85 45 |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land Land Use Classification Commercial Mixed Use Industrial | 17 13 3 33 33 4 Needs Forecas Office 21 17 4 | 2 1 1 4 4 t by Zoning C Institutional 3 1 | Park 5 1 20 27 classification, Flex/Bus. Park 7 2 25 | Industrial 2 11 13 15 High Gen. Industrial 2 11 16 | 2 - 20 22 22 Warehouse 3 - 25 | 40 20 7 67 67 Retail 50 25 8 | 68 36 64 163 Total 85 45 |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land Land Use Classification Commercial Mixed Use Industrial Total | 17 13 3 3 33 4 Needs Forecas Office 21 17 4 42 | 2 1 1 4 t by Zoning C Institutional 3 1 1 | Park 5 1 20 27 classification, Flex/Bus. Park 7 2 25 34 | Industrial 2 1 13 15 15 15 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 17 17 17 18 18 18 18 18 | 2 - 20 22 22 22 22 22 22 22 22 22 22 22 22 | 40 20 7 67 67 Retail 50 25 8 8 | 68 36 64 16 16 Total 85 45 80 21 |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land Land Use Classification Commercial Mixed Use Industrial | 17 13 3 3 33 4 Needs Forecas Office 21 17 4 42 | 2 1 1 4 t by Zoning C Institutional 3 1 1 | Park 5 1 20 27 classification, Flex/Bus. Park 7 2 25 34 | Industrial 2 1 13 15 15 15 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 17 17 17 18 18 18 18 18 | 2 - 20 22 22 22 22 22 22 22 22 22 22 22 22 | 40 20 7 67 67 Retail 50 25 8 8 | 68 36 64 16 Total 85 45 80 21 |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land Land Use Classification Commercial Mixed Use Industrial Total Summary of 20-Year Vacant Land | 17 13 3 33 33 d Needs Forecas Office 21 17 4 42 d Demand Forecas | 2 1 1 4 t by Zoning C Institutional 3 1 1 5 | Park 5 1 20 27 Classification, Flex/Bus. Park 7 2 25 34 | Industrial 2 1 13 15 15 15 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 17 17 17 18 18 18 18 18 | 2 - 20 22 22 22 22 22 22 22 22 22 22 22 22 | 40 20 7 67 67 Retail 50 25 8 8 | 68 36 64 16 Total 85 45 80 21 |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land Land Use Classification Commercial Mixed Use Industrial Total Summary of 20-Year Vacant Land Land Use Classification | 17 13 3 33 33 d Needs Forecas Office 21 17 4 42 d Demand Forec Low | 2 1 1 4 4 t by Zoning C Institutional 3 1 1 5 sast by Zoning Medium | Park 5 1 20 27 classification, Flex/Bus. Park 7 2 25 34 g Classificatio High | Industrial 2 1 13 15 15 15 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 17 17 17 18 18 18 18 18 | 2 - 20 22 22 22 22 22 22 22 22 22 22 22 22 | 40 20 7 67 67 Retail 50 25 8 8 | 68 36 64 16 Total 85 45 80 21 |
| Commercial Mixed Use Industrial Total Proj. Tigard 20-Year Vacant Land Land Use Classification Commercial Mixed Use Industrial Total Summary of 20-Year Vacant Land Land Use Classification Commercial | 17 13 3 3 33 d Needs Forecas Office 21 17 4 42 d Demand Forec Low 51 | 2 1 1 4 t by Zoning C Institutional 3 1 1 5 cast by Zoning Medium 68 | Park 5 1 20 27 slassification, Flex/Bus. Park 7 2 25 34 g Classificatio High 85 | Industrial 2 1 13 15 15 15 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 17 17 17 18 18 18 18 18 | 2 - 20 22 22 22 22 22 22 22 22 22 22 22 22 | 40 20 7 67 67 Retail 50 25 8 8 | 68 36 64 163 Total 85 45 80 210 |

APPENDIX D: ANALYSIS OF RETAIL INFLOW/OUTFLOW

| | Analys is | of Retail Development Potential |
|---|--|---------------------------------|
| uur kand dirikkiri seksikkuur kand dirikkiri seksikkuur kandikkiri seksikeri seksikeri kandikiri seksikeri seksikeuur kandikiri seksike | entropies and a service of the servi | Tigard Area |
| ert – alt 100, 100, med tert – alt 1 | 5 margi bari _ maja 1935, 1895 margi bari _ maja 1935, 189 | 2010 to 2030 |
| | - | |
| Est. 2010 Population in City | 48,100 | |
| Proj. 2030 Population in City | 62,278 | |
| Analysis of Effective Buying Income (EBI) | Saar Kalender (1997) (1997) (1994) Kalender (1997) (1997) Kalender (1997) | |
| Est. 2010 Per Capita Income 1/ | \$33,000 | |
| Proj. 2030 Per Capita Income 1/ | \$36,462 | |
| e the particular with particular with a more particular with particular with particular with particular with p The particular where the particular where the particular where the particular where the particular particular particular where the particular where th | | |
| Est. 2010 Aggregate EBI (000) | \$1,587,300 | |
| Proj. 2030 Aggregate EBI (000) | \$2,270,749 | |
| Change in Aggregate EBI (000) | \$683,449 | |

| | Analysis of Existing & Future Retail Sales | | | | Future 2030 Supportable Retail Development Potential | | | |
|----------------------------------|--|--|--|---|---|---|--|---|
| Store Group | Distributi on of Local Income by Store Group 2/ | 2010 Retail Buying Power from Local Residents (000) 2/ | 2030 Retail Buying Power from Local Residents (000) 2/ | Change in Retail Buying Power (000) | Sales Attributed to Local Residents (000) | Sales Attibuted to Retail Inflow (000) 4/ | Total Support able Retail Sales (000) | Supportable Sq.Ft. of New Retail Development 5/ |
| Food Stores | 8.3% | \$131,746 | \$188,472 | \$56,726 | \$51,054 | \$12,763 | \$63,817 | 236,000 |
| Eating & Drinking | 5.0% | \$79,365 | \$113,537 | \$34,172 | \$30,755 | \$13,181 | \$43,936 | 162,000 |
| Gen. Merchandise | 5.5% | \$87,302 | \$124,891 | \$37,590 | \$33,831 | \$27,680 | \$61,510 | 227,000 |
| Furniture, Fixtures & Appliances | 2.2% | \$34,921 | \$49,956 | \$15,036 | \$13,532 | \$11,072 | \$24,604 | 91,000 |
| Automotive Services | 9.6% | \$152,381 | \$217,992 | \$65,611 | \$52,489 | \$42,945 | \$95,434 | 352,000 |
| other/Msc. | 11.3% | \$179,365 | \$256,595 | \$77,230 | \$54,061 | \$23,169 | \$77,230 | 285,000 |
| Тotal | 41.9% | \$665,079 | \$951,444 | \$286,365 | \$235,722 | \$130,810 | \$366,532 | 1,353,000 |
| | | | | | | | | |

1/ Derived from US Census estimates; assumes .05% annual real income growth.

Source: analysis by FCS GROUP.

^{2/} Store group sales allocations from U.S. Bureau of Economic Analysis, Consumer Expendure Survey, Western United States.

^{3/} Based upon employment estimates: assumes 500 sq.ft. per job, 5% vacancy allowance, and avg. sales of \$275/sq.ft.

^{4/} Future retail inflow assumed to account for 30% to 45% of total retail sales.

^{5/} Building area assumes \$285/per sq. ft. annual sales, and 5% vacancy allowance.

APPENDIX E: SUMMARY OF TIGARD EMPLOYMENT ZONES AND REGULATIONS

The following is an overview of regulations related employment lands and zones for the City of Tigard. A general description of each zone is provided along with common and specific development standards when applicable. A summary table highlights specific regulations, such as building height, lot size, setbacks, landscaping and lot coverage.

COMMERCIAL ZONES

Neighborhood Commercial District (C-N)

Provide convenience goods and services (those purchased frequently) within a small cluster of stores adjacent to residential neighborhoods. A limited number of other uses such as restaurants, gas stations and medical centers are permitted conditionally.

Community Commercial District (C-C)

Provide convenience shopping facilities to meet regular needs of nearby (1.5 miles) residential neighborhoods. Typically range in size from 30,000-100,000 sf on 2 to 8-acre sites. Separated from other commercial zones by at least one half-mile. Housing is permitted on the second floor at densities not to exceed 12 units/net acre. Limited other uses are allowed conditionally. Mandatory site development review.

General Commercial District (C-G)

Accommodate a full range of retail, office and civic uses with a City-wide and even regional trade area. Residential uses limited to single family residences on same site as permitted use. A wide range of uses are permitted conditionally.

Professional Administrative Commercial District (C-P)

Accommodate civic and business/professional services and compatible support services in close proximity to residential areas and major transportation facilities. Within the Tigard Triangle and Bull Mountain Road District, residential uses at a minimum density of 32 units/net acre are permitted in conjunction with commercial development. Heliports, medical centers, religious institutions and utilities are permitted conditionally. Developments are intended to serve as a buffer between residential areas and more intensive commercial and industrial areas.

Mixed Use-Central Business District (MU-CBD)

Provide a pedestrian friendly urban village in Downtown Tigard. A wide variety of commercial, civic, employment, mixed-use, multi-family and attached single family residences are permitted. All uses are allowed in all areas.

Specific Development Standards (18.610):

Four sub-areas (see MU-CBD Development Standards Matrix) have different setback and height limits in order to create a feeling of distinct districts within the larger zone.

- Pacific Hwy. and Hall Boulevard Corridor: designed to create a "pulse-point" along the Pacific Hwy. corridor. Regional retail draw and potential future high capacity transit.
- Main Street Center Street: pedestrian-oriented with smaller scale development.
- Scoffins Street Commercial Street: higher density residential and employment base of civic, office and commercial uses.

Fanno – Burnham Street: medium scale residential or mixed use development.

Mixed Use Employment (MUE)

Designed to apply to a majority of land within the Tigard Triangle, it permits a wide range of uses including major retail goods and services, business/professional offices, civic uses and housing (multi-family at a max density of 25 units/acre. A wide range of uses are permitted conditionally. Acknowledges a majority of trips by automobile, but supports alternative modes of transportation to the greatest extent possible and encourages a mix of uses. Includes special design standards for Tigard Triangle (18.620).

Mixed Use Employment Districts (MUE-1 and MUE-2)

Apply to areas where employment uses such as office, research and development and light manufacturing are concentrated. Commercial and retail support uses are allowed but limited, and residential uses are permitted when compatible with employment character of the area. MUE-1 example is Lincoln Center (high density). MUE-2 example is Nimbus area (more moderate densities).

Mixed Use Commercial District (MUC)

Includes land around Washington Square Mall and immediately west of Highway 217. Primary uses include office buildings, retail, and service areas. Also permits mixed0use developments and housing at 50 units/acre. Large buildings encouraged with parking under behind or to sides. Includes special design standards for Washington Square Regional Center (18.630).

Mixed Use Commercial (MUC-1)

Applies to portion of the Durham Quarry site. Subject to IGA agreement between Tigard and Tualatin. Permits a wide range of uses including commercial lodging, general retail, offices and housing at min density of 25 units/acre and max of 50 units/acre. Includes special design standards for Durham Quarry (18.640).

Mixed Use Residential Districts (MUR)

Applies to predominantly residential areas where mixed-uses are permitted when compatible with residential use.

INDUSTRIAL/INSTITUTIONAL ZONES

Industrial Park District (I-P)

Provides appropriate locations for combining light manufacturing, office and small-scale commercial uses (restaurants, personal services and fitness centers) in a campus-like setting. Only those uses with no off-site impacts are permitted. Mandatory site development review and specific design standards (18.530).

Light Industrial District (I-L)

Provides appropriate locations for general industrial uses, including manufacturing and production, research and development, warehousing and freight movement and wholesale sales activities with few, if any, nuisance characteristics.

Heavy Industrial District (I-H)

Provides appropriate locations for intensive industrial uses including I-L uses as well as railroad yards and waste-related activities. Uses include those which involve the use of raw materials, require significant outdoor storage and generate heavy truck and/or rail traffic. Properties are carefully located to minimize impacts on established residential, commercial and light industrial areas.

COMMERCIAL DEVELOPMENT STANDARDS

| | | | | | | N | I UE | | | | | | |
|---|------------------------|------------------------|-------------|-------------|--------------|----------------|-------------|----------|------------------------|-----------------------------|----------------------|-----------------------------|-----------------------|
| | | | | | | | R-25 | | | | | | |
| STANDARD | C-N | C-C _[b] | C-G | C-P | MU- CBD** | C-G | MF DU* | MUC -1 | MUC [17][18] | MUE 1 [17][18] | MUE 2 [17][18] | MUR 1 [17][18] | MUR 2 [17][18] |
| Minimum Lot Size | 5,000 sq | 5,000 sq ft | None | 6,000 sq ft | None | None | - | None | None | None | None | None | None |
| - Detached unit | ft | - | - | - | - | - | 1,480 sq ft | - | • | - | | | - |
| - Boarding, lodging, | - | - | - | - | - | - | 6,100 sq ft | - | · . | - | - | • | - |
| rooming house | - | | | | | | | | | | | | |
| Minimum Lot Width | 50 ft | 50 ft | 50 ft | 50 ft | None | 50 ft | None | None | None | None | None | None | None |
| Minimum Setbacks | | | | | | | | | | | | | |
| - Front yard | 20 ft | 0/20 ft [10] | 0 ft [11] | 0 ft [11] | | 0 ft [11] | 20 ft | ∇ | 0 ft ^[19] | 0 ft ^[21] | 0 ft ^[21] | 0 ft ^[21] | 10 ft ^[21] |
| - Side facing street on | 20 ft | - | - | - | | - | 20 ft | V | 0 ft ^[19] | 0 ft ^[21] | 0 Ut[31] | 5 ft ^[21] | 10 ft ^[21] |
| corner & through lots [1] | | | | | | | | | | | | | |
| - Side yard | 0/20 ft [8] | 0/20 ft [8] | 0/20 ft [8] | 0/20 ft [8] | | 0/20 ft [8] | 10 ft | ∇ | 0 | 0 ft ^[20] | 0 ft ^[20] | 0 ft ^[20] | 0 ft ^[20] |
| - Side or rear yard abutting | - | - | - | - | - | [0] | 30 ft | ∇ | ft ^{[19][20]} | - | - | | - |
| more restrictive zoning | | | | | | - | | | - | | | | |
| district | | | (-) | (-) | | | | | | () | | | |
| - Rear yard | 0/20 ft ^[8] | 0/20 ft ^[8] | 0/20 ft [8] | 0/20 ft [8] | | | 20 ft | ∇ | ١. | 0 ft ^[20] | 0 ft ^[20] | 0 ft ^{[20][22]} | 0 ft[20][22] |
| - Distance between front | - | - | - | - | - | 0/20 ft [ह] | 20 ft | ∇ | 0 ft[19][20] | N/A | N/A | | 1 |
| of garage & property | | | | | | | | | N/A | | | N/A | N/A |
| line abutting a public or | | | | | | | | | 17/74 | | | | |
| private street. | | | | | | | | | | | | | |
| Minimum Building Height | N/A | N/A | N/A | N/A | | N/A | N/A | N/A | 2 stories | 2 stories | None | 2 stories | None |
| Maximum Building Height | 35 ft | 35 ft | 45 ft | 45 ft | | 45 ft | 45 ft | 70 ft | 200 ft | 200 ft | 60 ft | 75 ft | 45 ft |
| Maximum Site Coverage [2] | 85 % | 80 % | 85 % | 85 % | | 85 % | 80 % [16] | 90% | 85% | 85% | 85% | 80% | 80% |
| Minimum Landscape | 15 % | 20 % | 15 % | 15 % | | 15 % | 20 % | 10% | 15% | 15% | 15% | 20% | 20% |
| Requirement | | | | | | | | | | | | | |
| Minimum FAR [3] | N/A | N/A | N/A | N/A | | N/A | N/A | N/A | 1.25 | 1.25 | 0.6 | 0.6 | 0.3 |
| Minimum Residential Density [4][5][6] | N/A | N/A | N/A | N/A | | N/A | N/A | N/A | 50 unit/acre | 50 unit/acre | 25 unit/acre | 50 unit/acre | 25 unit/acre |
| Maximum Residential Density [4][5][6][7] | N/A | N/A | N/A | N/A | | N/A | N/A | N/A | None | None | 50 unit/acre | None | 50 unit/acre |

* Multiple-family dwelling unit.

- ***See Table 18.610.1 and Map 18.610.A for development standards.
- ∇ = See 18.640.050.B.
- ☐ = See Table 18.610.1 and Map 18.610.A for development standards.
- The provisions of Chapter 18.795 (Vision Clearance) must be satisfied.
- Includes all buildings and impervious surfaces.
- Applies to all nonresidential building development and mixed use development which includes a residential component. In mixed use development, residential floor area is included in the calculations of floor area ratio to determine conformance with minimum FAR.

 Notwithstanding the requirements of Section 18.715.020, minimum and maximum density shall be determined for residential only projects using the number of residential units per acre shown in
- the above table. The provisions for density transfer described in Section 18.715.030.B apply, using the minimum and maximum density shown in the above table. Any mixed-use or commercial only development does not have a minimum density requirement.

 For purposes of determining floor area ratio and residential densities, the net development area shall be uses to establish the lot area, determined per Section 18.715.020.A.

- Adjustments to minimum density in the Washington Square Regional center area subject to the standards set forth in Section 18.630.020.E.

 The maximum density requirements for developments that include or abut designated Water Resources Overlay district Riparian setbacks per Chapter 18.797 are described in Section
- No setback shall be required except 20 feet shall be required where the zone abuts a residential zoning district. See Section 18.520.050.B for site and building design standards.
- [10] No front yard setback shall be required, except a 20-foot front yard setback shall apply within 50 feet of a residential district.
- [11] There shall be no minimum front yard setback requirement; however, conditions in Chapters 18.745 and 18.795 must be met. [12] There are no setback requirements, except 30 feet where a commercial use within a district abuts a residential zoning district.

- [13] The maximum height of any building in the CBD zone within 100 feet of any residential zoning district shall not exceed 40 feet.
 [14] Where the side or rear yard of attached or multiple-family dwellings abut a more restrictive zoning district, such setbacks shall not be less than 35 feet.
 [15] Landscaped areas on existing developed property in the CBD shall be retained. Buffering and screening requirements set forth in Chapter 18.745 shall be met for existing and new development.
- [16] Lot coverage includes all buildings and impervious surfaces.
 [17] Modifications to dimensional and minimum density requirements for developments that include or abut designated Water Resources Overlay District Riparian setbacks per Chapter 18.797 are described in Section 18.630.040.F.
- [18] The requirements contained in the Buffer Matrices in Tables 18.745.1 and 18.745.2 shall be used in calculating widths of buffering/screening and required improvement s to be installed between proposed uses in the MUC, MUE and MUR zones within the Washington Square Regional Center (WSRC) and abutting zoning districts not included within the WSRC, or zoning districts within
- the WSRC which are not mixed-use. For MUC and MUE zones, the requirements for Commercial Zones apply. For MUR zones, the requirements for the Neighborhood Commercial Zone apply.

 [19] For Commercial and Mixed-use developments, the maximum front and street side yard setback is 10 feet. For Residential only developments, the maximum front and street side yard setback is 20
- [20] Side and rear yard setbacks shall be 20 feet when the zone abuts residential districts shown in Section 18.510.020 except R-25 and R-40
- [21] The maximum setback is 20 feet.
- [22] The maximum setback is 10 feet.

C-N - Neighborhood Commercial District C-C - Community Commercial District MUC 1 – Mixed Use Commercial MUC – Mixed Use Commercial

C-G - General Commercial District MUE 1 - Mixed Use Employment/High Density MUE 2 – Mixed Use Employment/Medium Density MUR 1 – Mixed Use Residential/High Density C-P - Professional/Administrative Office Commercial MU-CBD - Mixed Use Central Business District MUR 2 - Mixed Use Residential/Medium Density

MU-CBD Development Standards Matrix 1,2,3

| STANDARD | SUB-AREAS | | | | | | | |
|---|---------------------|-----------------------------|--------------------------|---------------------------------|--|--|--|--|
| | Main Street (MS) | 99W/Hall Corridor (99Н) | Scoffins/Commercial (SC) | Fanno/Burnham (FB) | | | | |
| Front setback | (NID) | (5511) | (50) | (1 D) | | | | |
| | | 0/5 ft. | | | | | | |
| Minimum | 0 ft. | (5 ft. for frontage on 99W) | 0 ft. | 0 ft. | | | | |
| Maximum | 10 ft. | 25 ft. | 20 ft. | 20 ft. | | | | |
| Side facing street on corner and throug | gh lots | | | | | | | |
| Minimum | 0 ft. | 0 ft. | 0 ft. | 0 ft. | | | | |
| Maximum | 10 ft. | N/A | N/A | N/A | | | | |
| Sideyard | | | | | | | | |
| Minimum/maximum | N/A | N/A | N/A | N/A | | | | |
| Rear setback | | | | | | | | |
| Minimum | 0 ft. | 5 ft. | 5 ft. | 5 ft. | | | | |
| Maximum | N/A | N/A | N/A | N/A | | | | |
| Building height | | | | | | | | |
| Minimum | 20 ft. | 20 ft. | 20 ft. | 20 ft. | | | | |
| Maximum (stories/feet) | 3 stories (45 ft.) | 3 stories (45 ft.) | 6 stories (80 ft.) | 6 stories (80 ft.) ⁷ | | | | |
| Ground floor height minimum | 15 ft. | 15 ft. | None | None | | | | |
| Site coverage maximum | 100% | 90% | 90% | 80% | | | | |
| Minimum landscaping ⁴ | 0% ⁵ | 10% | 10% | 20% | | | | |
| Minimum building frontage | 50% | 50% | 50% | 50% | | | | |
| Residential density (units per acre) | | | | | | | | |
| Minimum ⁸ | 25 | 25 | 25 | 15 | | | | |
| Maximum | 50 | 50 | 50 ⁶ | 50 ⁶ | | | | |

This table does not apply to existing development. All new buildings in the district must meet these development standards, including projects using the Track 3 approval process.

For standards for development surrounding the future public plaza see Section 18.610.040, Special Requirements for Development Bordering Urban Plaza.

³ See also Section 18.610.045, Exceptions to Standards in the MU-CBD zone.

⁴ In the MU-CBD zone, required landscaping can be provided on roofs.

⁵ Landscaping/screening requirements for parking lots must be met.

Station Area Overlay permits a maximum of 80 units per acre (see Map 18.610A).

³ stories/45 feet within 200 feet of Fanno Creek Park boundary (see Map 610.A) or within 50 feet of low or medium density residential district.

⁸ Minimum density applies to residential-only development (not mixed use).

DEVELOPMENT STANDARDS IN INDUSTRIAL ZONES

| STANDARD | I-P | I-L | I-H |
|------------------------------------|-----------------|----------------|----------------|
| Minimum Lot Size | None | None | None |
| Minimum Lot Width | 50 ft. | 50 ft. | 50 ft. |
| Minimum Setbacks | | | |
| - Front yard | 35 ft. | 3 0 ft. | 3 0 ft. |
| - Side facing street on corner & | | | |
| through lots [1] | 20 ft. | 20 ft. | 20 ft. |
| - Side yard | 0/50 ft. [3] | 0/50 ft. [3] | 0/50 ft. [3] |
| - Rear yard | 0/50 ft. [3][4] | 0/50 ft. [3] | 0/50 ft. [3] |
| - Distance between front of garage | | | |
| & property line abutting a public | | | |
| or private street | | | |
| Maximum Height | 45 ft. | 45 ft. | 45 ft. |
| Maximum Site Coverage [2] | 75 % [5] | 85 % | 85 % |
| Minimum Landscape Requirement | 25 % [6] | 15 % | 15% |

- [1] The provisions of Chapter 18.795 (Vision Clearance) must be satisfied.
- [2] Includes all buildings and impervious surfaces.
- [3] No setback shall be required except 50 feet shall be required where the zone abuts a residential zoning district.
- [4] Development in industrial zones abutting the Rolling Hills neighborhood shall comply with Policy 11.5.1.
- [5] Maximum site coverage may be increased to 80% if the provisions of Section 18.530.050.B are satisfied.
- [6] Except that a reduction to 20% of the site may be approved through the site development review process.
 - I-P Industrial Park District
 - I-L Light Industrial
 - I-H Heavy Industrial

APPENDIX F: TYPICAL SITE REQUIREMENTS FOR DEVELOPMENT TYPES

Typical Criteria For Specific Development Sites

| | Development Type | Heavy Industrial/ Manufacturing | General Manufacturing | Food Processing | Hi-Tech Manufacturing & Processing | Campus Industrial/ Electronic and Computer Assembly | Warehouse/ Distribution | Call Center/ Business Services | Office (Class A) | Commercial Shopping Center | Hotel |
|---------|---------------------|---|---|---|--|--|--|--|---|--|--|
| Tvpical | Size (NCDA) | 5 to 25 | 5 to 10 | 5 to 10 | 10 to 25 | 5 to 25 | 10 to 25 | 3 to 5 | 1 to 5 | 5 to 10 | 3 to 5 |
| | Location Preference | Interstate, state highway or principle arterial within 1-10 miles | Interstate, state highway or principle arterial within 1-20 miles | Interstate, state highway or principle arterial within 1-30 miles | Interstate, state highway or principle arterial within 1-15 miles | Interstate, state highway or principle arterial within 1-10 miles | Interstate or limited access four-lane highway within 1-15 miles | Along arterial or streets | Along arterial or streets or in down town centers and transit areas | Arterial street visibility, prefers transit areas | Arterial or interstate visibility or downtown centers |
| | Infrastı | 36,100 GPD • Sewer flow ≥ 32,500 GPD • 1.0 MW | • Water flow ≥ 17,000 GPD • Sewer flow ≥ 15,300 GPD • 0.5 MW Electricity | • Water flow ≥ 24,900 GPD • Sewer flow ≥ 22,400 GPD • 1.0 MW Electricity | • Water flow ≥ 65,300 GPD • Sewer flow ≥ 58,800 GPD • 2.0 MW Electricity • Fiber-telecom and route diversity | • Water flow ≥ 74,300 GPD • Sewer flow ≥ 74,300 GPD • 0.5 MW Electricity • Fiber-telecom | • Water flow ≥ 11,700 GPD • Sewer flow ≥ 11,700 GPD • 0.5 MW Electricity | ≥4,600 GPD • Sewer flow ≥4,600 GPD • 0.5 MW Electricity • Broadband Internet | • Sewer flow ≥ | ≥ 4,000 GPD • Sewer flow ≥ 4,000 GPD • 0.5 MW Electricity • Broadband Internet | • Water flow ≥ 10,000 GPD • Sewer flow ≥ 10,000 GPD • 0.5 MW Electricity • Broadband Internet access |

NCDA - Net Contiguous Developable Acres

Source: Compiled by FCS Group based on Business Oregon Industrial Site Certification requirements and industry standards.

APPENDIX G: BUILDABLE LAND INVENTORY

City of Tigard Buildable Lands Inventory (as of January 1, 2010)

| Vacant and Part-Vacant Property | | | | | | | | | | |
|---------------------------------|----------|-------|--------------|-------|---------------|-------|------------|-------|-------|-------|
| | < 1 acre | | 1 to 5 acres | | 5 to 10 acres | | > 10 acres | | Total | |
| | Lots | Acres | Lots | Acres | Lots | Acres | Lots | Acres | Lots | Acres |
| Commercial | | | | | | | | | | |
| C-C | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| C-G | 19 | 6.8 | 6 | 14.0 | 2 | 16.4 | 0 | 0.0 | 27 | 37.3 |
| C-N | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| C-P | 7 | 2.7 | 2 | 6.2 | 0 | 0.0 | 0 | 0.0 | 9 | 8.9 |
| Mixed Use | | | | | | | | | | |
| MU-CBD | 3 | 1.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 3 | 1.1 |
| MUC | 3 | 1.4 | 1 | 1.3 | 0 | 0.0 | 0 | 0.0 | 4 | 2.8 |
| MUE | 35 | 13.9 | 4 | 6.1 | 0 | 0.0 | 0 | 0.0 | 39 | 19.9 |
| MUE-1 | 10 | 3.8 | 1 | 1.5 | 1 | 5.7 | 0 | 0.0 | 12 | 11.0 |
| MUE-2 | 1 | 1.2 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 1.2 |
| MUR-1 | 9 | 3.2 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 9 | 3.2 |
| MUR-2 | 2 | 0.8 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 8.0 |
| Industrial | | | | | | | | | | |
| I-H | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| I-L | 7 | 2.2 | 2 | 4.5 | 0 | 0.0 | 0 | 0.0 | 9 | 6.7 |
| I-P | 5 | 2.0 | 3 | 6.7 | 0 | 0.0 | 2 | 34.7 | 10 | 43.4 |
| Total | 101 | 38.9 | 19 | 40.4 | 3 | 22.1 | 2 | 34.7 | 125 | 136.2 |

Summary of Vacant Land by General Land Use Toning Classification

| Summary of Vac | Cam La | ene uvinessamente uvinessam | del kie o von de orak nach kie o v | | SANAGO SANGO SANAGO SA | Property | CONTRACTOR CONTRACTOR CONTRACTOR IN | | | |
|----------------|--------------|-----------------------------|------------------------------------|-------|------------------------|----------|-------------------------------------|-------|------|-------|
| | 1 to 5 acres | | 5 to 10 acres | | > 10 acres | | Total | | | |
| | Lots | Acres | Lots | Acres | Lots | Acres | Lots | Acres | Lots | Acres |
| Commercial | 26 | 9.5 | . 8 | 20.2 | . 2 | 16.4 | . 0 | 0 | 36 | 46.1 |
| Mixed Use | 63 | 25.3 | 6 | 8.9 | 1 | 5.7 | 0 | 0.0 | 70 | 39.9 |
| Industrial | 12 | 4.2 | 5 | 11.2 | 0 | 0.0 | 2 | 34.7 | 19 | 50.1 |
| Total | 101 | 38.9 | 19 | 40.4 | 3 | 22.1 | 2 | 34.7 | 125 | 136.2 |

Source: City of Tigard.

APPENDIX H: REDEVELOPMENT LAND INVENTORY

| City of Tigard Redevelopable Potential (Improvement to Land Value) ¹ | | | | | | | | | | |
|---|------|----------|------|--------------------|--------------|---------|--|--|--|--|
| | High | (< 0.33) | | lerate to 1.00) | Low (> 1.00) | | | | | |
| | Lots | Acres | Lots | Acres | Lots | Acres | | | | |
| C-C | 0 | 0.0 | 0 | 0.0 | 4 | 8.5 | | | | |
| C-G | 8 | 3.4 | 13 | 6.8 | 158 | 255.0 | | | | |
| C-N | 0 | 0.0 | 1 | 0.2 | 2 | 2.8 | | | | |
| C-P | 11 | 3.8 | 17 | 10.9 | 35 | 33.6 | | | | |
| MU-CBD | 24 | 10.5 | 50 | 38.4 | 86 | 59.0 | | | | |
| MUC | 7 | 12.6 | 11 | 24.2 | 35 | 155.0 | | | | |
| MUE | 70 | 40.5 | 22 | 12.3 | 59 | 61.8 | | | | |
| MUE-1 | 15 | 11.5 | 10 | 6.9 | 24 | 30.9 | | | | |
| MUE-2 | 0 | 0.0 | 0 | 0.0 | 6 | 29.4 | | | | |
| MUR-1 | 10 | 3.9 | 23 | 5.6 | 16 | 5.3 | | | | |
| MUR-2 | 6 | 2.4 | 8 | 2.6 | 6 | 3.0 | | | | |
| I-H | 2 | 3.4 | 4 | 5.5 | 9 | 41.3 | | | | |
| I-L | 3 | 11.0 | 8 | 25.1 | 61 | 203.5 | | | | |
| I-P | 13 | 12.5 | 13 | 28.2 | 76 | 193.1 | | | | |
| Total | 169 | 115.6 | 180 | 166.6 | 577 | 1,082.0 | | | | |

Summary of Redevelopable Potential

| 30mmary of Redevelopuble Folerman | | | | | | | | | | | |
|---|------|----------|------|--------------------|--------------|--------|--|--|--|--|--|
| City of Tigard Redevelopable Potential (Improvement to Land Value) ² | | | | | | | | | | | |
| | High | (< 0.33) | | lerate to 1.00) | Low (> 1.00) | | | | | | |
| an espain espain es an es | Lots | Acres | Lots | Acres | Lots | Acres | | | | | |
| Commercial | 19 | 7.2 | 31 | 17.8 | 199 | 299.8 | | | | | |
| Mixed Use | 132 | 81.4 | 124 | 89.9 | 232 | 344.3 | | | | | |
| Industrial | 18 | 27.0 | 25 | 58.8 | 146 | 437.9 | | | | | |
| Total | 169 | 115.6 | 180 | 166.6 | 577 | 1082.0 | | | | | |

Notes: 1 Improvement to Land Value calculated from Washington County Tax Assessor data (Sept 2010).

Source: City of Tigard.

² 196 Properties contained a zero Improvement or Land Value and are not represented here.

APPENDIX I: SUMMARY OF STAKEHOLDER INTERVIEWS

In support of the City of Tigard's statewide planning Goal 9 Economic Opportunity Analysis, consulting staff interviewed twelve business leaders, employers and economic experts to gather perspectives on the City's current position and future economic opportunities. Summary of interview responses are included after each question, shown in italics. The list of respondents is included at the end of the summary.

1. What is Tigard's primary market advantage within the state and region with regard to attracting population and jobs? What do you feel are its greatest assets?

Stakeholders consistently reported that Tigard's location is its primary asset, particularly its proximity to I-5 and other major transportation corridors such as Highway 217 and Highway 99W. Other factors frequently cited included Tigard's position relative to Portland, an educated, affluent population, and open spaces. Four respondents mentioned that the size of Tigard and its suburban setting are attractive. Other named assets include the variety of housing options, diversity of office and industrial buildings and availability of land.

2. I'm going to read you a list of seven (7) items. From the list, please identify Tigard's primary strengths as a place to do business.

The list below is organized in order of frequency of response, shown in parentheses.

- Proximity to I-5 and other transportation corridors (11)
- Quality of life (10)
- Available, skilled workforce (10)
- Adequate public infrastructure (transportation, utilities, etc.) (5)
- Access to local markets and customers (5)
- General business climate (4)
- Interaction with firms in the same and/or related industries (2)
- 3. (Optional- for employers) Do you have plans to maintain or expand your business in Tigard? If not, will you relocate within the region or elsewhere? Why or why not?

Most employers who were interviewed said they plan to maintain their current location but are unlikely to expand. Two others said they hope to expand as the economy improves. Reasons for not moving include preferred location, access, and property ownership. One employer said a recent employee survey showed that most of their employees live near the business. One business owner said they may relocate when the current lease expires and relocate to a more thriving business district.

4. What geographic area(s) do you think best define(s) Tigard's competitive market region for commercial office, retail and industrial development?

Most interviewees responded to this question by identifying areas in the City that are thriving or successful employment districts. Four respondents felt that the Tigard Triangle is a particularly competitive market area within the city, especially for industrial and retail uses. One person felt strongly that the Triangle was not as competitive as the Hunziker area. Washington Square and the surrounding area were cited twice as being competitive for retail. Other areas mentioned by one person included Oregon Business Park, PacCorp and the area between Highway 99W and Scholls Ferry Road.

5. The City is interested in redevelopment in its downtown and along the Highway 99W corridor, developing a mixed-use district in the triangle south of Highway 99W and north of Highway 217, and adding more neighborhood commercial uses to meet local needs. Do you agree with these priorities? Why or why not? Are there other areas or corridors the City should focus on?

Most respondents agreed with these priorities, though several cautioned against development that would compound existing transportation problems (particularly along Highway 99W). There was support for revitalizing downtown by adding new businesses and destinations; including mixed uses, parks and housing that contribute to a unique identity for the City. There was also a good deal of support expressed for improving the Triangle by adding services and diversifying the types of businesses there with available land. Other ideas for focused efforts included the Tiedeman/Greenburg area, the area north of Highway 99W and in the Oak Street or Locust Street areas by Washington Square.

6. What can Tigard do locally to complement the regional and state economy?

Several respondents felt that improvements to the transportation network are important to support the Tigard economy. This included improving conditions for vehicle traffic, providing access to alternative transportation facilities such as bike lanes and light rail, and working with regional agencies (e.g., JPACT) to solve transportation problems. Two respondents suggested that the City needs an economic development department and/or active business recruitment by the mayor, city manager and economic development staff. Other ideas included lower taxes, incentives to start a business or re-locate in Tigard, and grants for small businesses. Two respondents recommended continuing to improve upon the current level of service and responsiveness of City building and planning staff. One suggested retaining large industrial tracts to attract potential employers.

7. What types of land and/or economic development actions or incentives are most needed in the City to nurture job growth and private investment?

Respondents' most common suggestion was for the City to improve infrastructure – particularly transportation. Others suggested lowering taxes and strategically reducing system development charges (SDCs) for small businesses or other potential employers. Another suggested using enterprise zones or urban renewal areas to capture future tax revenues. Two others emphasized the importance of diversifying local businesses and professional services, particularly downtown.

8. What actions should be taken by the City to create a more balanced and sustainable community?

Interview respondents had several ideas about how to create a balanced and sustainable community. These include diversifying the types of business in the city, adding more transportation options and creating mixed-use districts. Two people said that the City needs to focus its efforts and build a distinct identity and greater sense of community, including supporting local business and adding more commercial services to residential areas. Others suggested creating affordable housing and mixed-use districts near commuter rail and future light rail. Two respondents noted that they thought the City is doing well with its current efforts.

9. Along those lines, the City wishes to better balance jobs and housing. What types of housing do you think are most needed?

While three interviewees responded that the current mix of housing is adequate, others suggested the need for a more diverse housing stock. Specific needs include moderate to low-income housing in or near downtown and commercial services, second-floor residential, condominiums and small lot or zero lot line homes. A few respondents suggested siting mixed-income housing near transit routes.

10. What business clusters exist or should exist in Tigard? What can the City do to build and strengthen these clusters?

Most interview respondents said that Tigard does not have business clusters other than some collection of general services and industry. One identified a cluster of finance and professional services. Several felt that Tigard has a good diversity of businesses and does not need to build clusters. Others suggested that the City could encourage clusters by recruiting a large company so that supporting organizations follow, or by acquiring and consolidating large parcels to sell to a major employer. One respondent recommended the City find a niche such as specialty medical, technical or manufacturing that does not compete with existing retail establishments including Washington Square.

11. What opportunities and challenges are there to expanding the traded sector in Tigard? What goods and services could be produced locally rather than imported, and what could be exported?

Most respondents did not have an answer for this question. One suggested that all services are imported and another suggested polling the manufacturing sector to identify existing goods and services offered in Tigard. Another interviewee pointed out that there is a great deal of vacant Class A and B office and industrial space, which is both a challenge and an opportunity for the City to attract new industry and business.

12. Are there certain goods or services that you think are missing in the City of Tigard today?

Goods and services that interviewees said were missing from Tigard include downtown grocery and retail, upscale restaurants and neighborhood commercial services. Others suggested that Tigard needs light rail or bus rapid transit as well as more parks and trails. One recommended that Tigard develop a unique identity based on neighborhood and housing design in order to compete with the large surrounding retail and cited Sierra Madre, CA as a successful example.

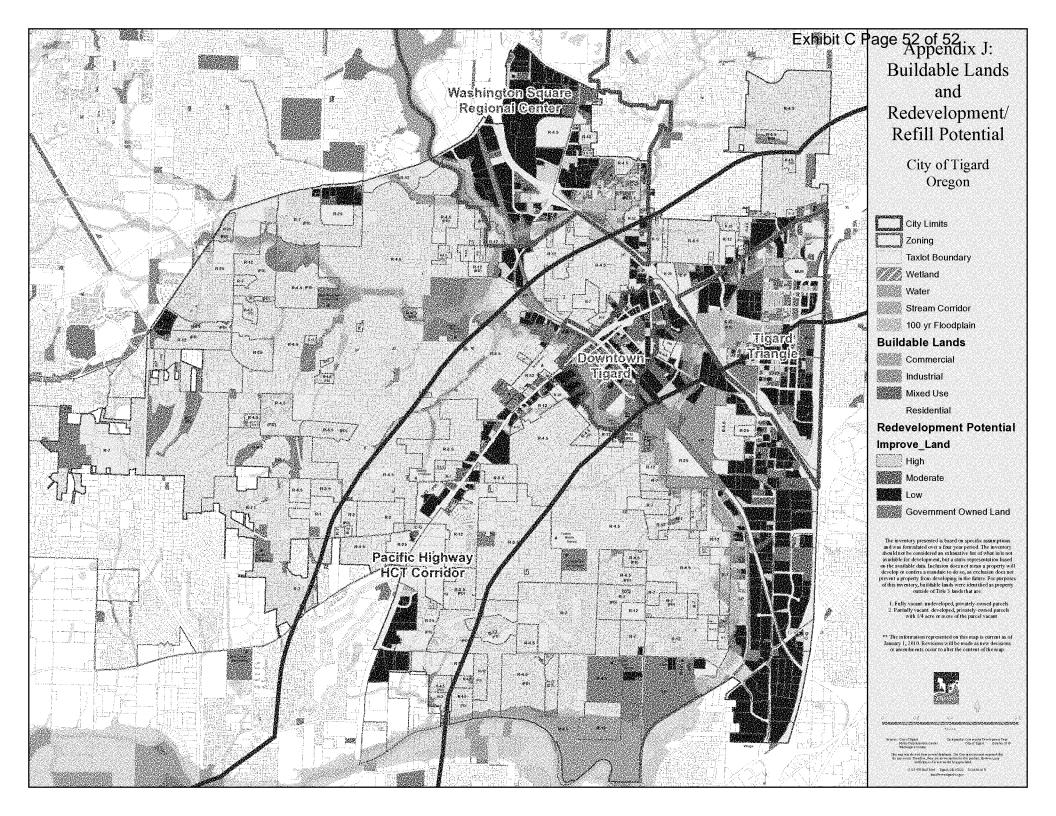
13. Is there anything else you'd like to add?

Interview respondents offered the following closing comments:

- One person stated that he is frustrated with the lack of economic development activity on the part of the City.
- Tigard has the opportunity to be a good example for a small city. Improve transportation options and get people off the freeways while maintaining mobility in and between towns.
- The City needs to be efficient to support businesses. Be prepared for the economic upturn. Keep an eye on the planning department and have a contingency plan to respond to an increase in business activity (e.g., hire contractors or new staff).
- Be sure to "over-communicate" this and other City projects. Explore and use a variety of communication media, including mail and social media.
- It is great that the City is doing this type of outreach and planning.
- Tigard's city council members toured Vancouver, BC a few years ago to look at urban planning and transportation issues. The trip, hosted by Metro, was very beneficial in generating ideas on how to meet these challenges.

List of Interviewees

- 1. Kirsten Alvares, Gerber Legendary Blades
- 2. Jonae Armstrong, Washington Square
- 3. Mark Ellsworth, Economic Revitalization Team
- 4. Donald Fox, Fox Chiropractic Clinic
- 5. Mike Marr, Tigard Central Business District
- 6. Debi Mollahan, Tigard Area Chamber of Commerce
- 7. Bonnie Nakashimada, George Fox University
- 8. Jonathan Schlueter, Westside Economic Alliance
- 9. George Specht, Specht Properties
- 10. Eric Sporre, PACTrust/Oregon Business Park
- 11. Mike Stevensen, B&B Printing
- 12. Eric Turner, GVA/Kidder Matthews





Slope Analysis on Buildable Industrial Lands

Slope Analysis on Buildable Industrial Lands

Area 4