



# Envision Silicon Valley

Development of Metrics | February 20, 2015

DRAFT  
FOR INFORMATION PURPOSES ONLY



# Introduction

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## Purpose

- Provide a common analysis framework for considering projects

## Envisioning Process

- Finalize Goals
- Updated Goals-based Metrics

## Synergy with Valley Transportation Plan (VTP)

- Use goals, principles, and metrics for VTP

# Types of Metrics

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## Quantitative

- Quantifiable, measured by numbers.

### EXAMPLE

## Congestion Level

Level of service

Vehicles miles traveled

Vehicle hours traveled



# Types of Metrics

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## Qualitative

- Descriptive (e.g. opinions).

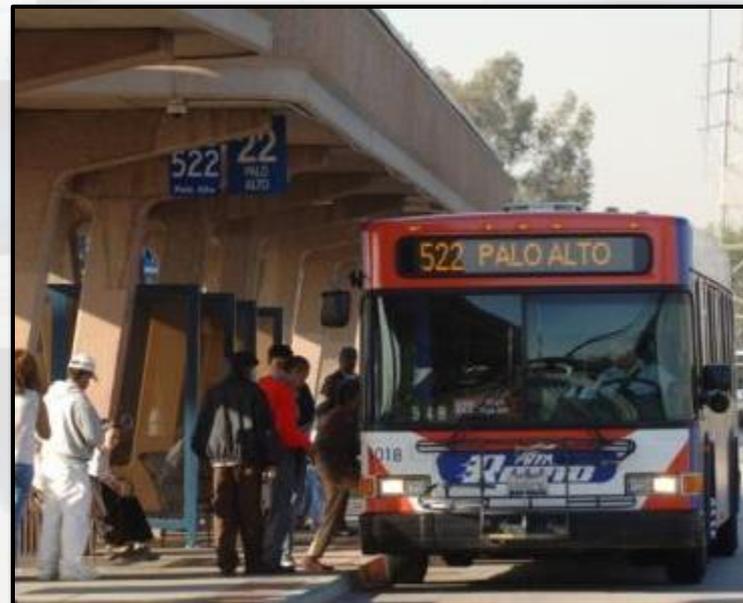
### EXAMPLE

## Connectivity

Gap closure

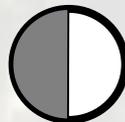
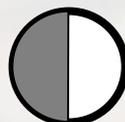
Reduces need for transfers

Provides geographic value for seniors



# Analysis Output



<b>METRIC</b>	<b>HIGH</b> <small>(YES)</small>	<b>MEDIUM</b>	<b>LOW</b> <small>(NO)</small>
<b>Level of service</b>			
<b>Vehicle Miles Traveled</b>			
<b>Pothole Measurement</b>			
<b>Reduces greenhouse gases</b>			
<b>Reduces need to transfer</b>			

# Goals-Based Metrics



## **DRAFT Goal 1: Revitalize Transportation Infrastructure**

### **Congestion Level**

Level of Service

Vehicle Miles Traveled

Vehicle Hours Traveled

Delay

Speed

### **State of Good Repair**

Pothole Measurement

Age of Asset vs. Expected life

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# Goals-Based Metrics



## **DRAFT Goal 2: Improve Trip Experience**

### **Customer Satisfaction**

- On-time performance
- Customer complaints
- Crowding / Level of Service
- Website trip planner usage
- Uses Wifi / technology

### **Productivity**

- Cost-effectiveness

### **Safety and Security**

- Effectiveness at emergency responses
- Reduces or prevents accidents

# Goals-Based Metrics



## DRAFT Goal 3: Expand Access and Mobility Choices

### Trips

By Bicycle

On Foot

By Car

By Bus / Rail

Speed

### State of Good Repair

Pothole Measurement

Age of Asset vs. Expected life

# Goals-Based Metrics



## **DRAFT Goal 4: Develop an Integrated, Efficient and Sustainable System**

### **Connectivity**

Gap closure

Provides geographic value (low-income individuals)

Provides geographic value (people with disabilities)

Provides geographic value (seniors)

Provides geographic value (students)

Reduces need for transfer

### **Land Use**

Within ¼ mile of centers of employment and dense residential areas

Serves Priority Development Areas (PDA) or VTA Cores, Corridors and Station Areas

Encourages preservation of natural resources

### **Efficiency / Sustainability**

Reduces greenhouse gas emissions

Incorporates sustainable design

Encourages car-lite / multi-modal lifestyle

