

# Smart Cities

TriMet Board Briefing

March 11, 2015

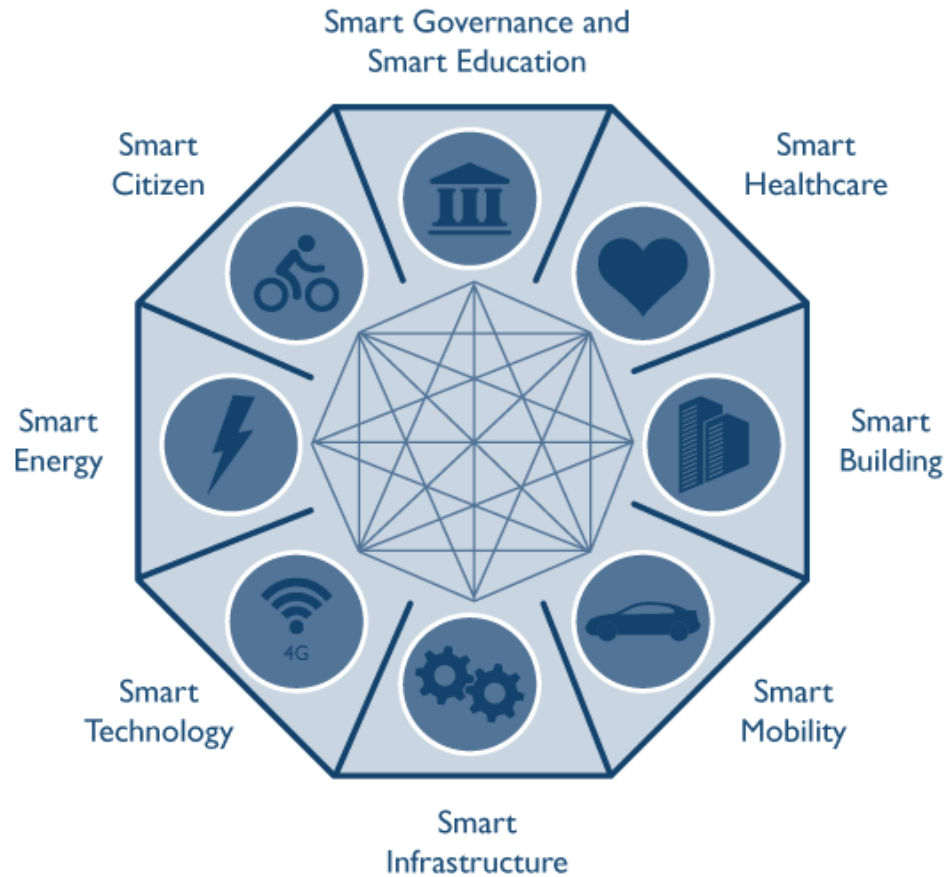
Tim McHugh, CIO



# Smart City?



# SMART CITY CONCEPTS



Source: Frost & Sullivan



**Mobility**  
**Infrastructure**  
**Technology**





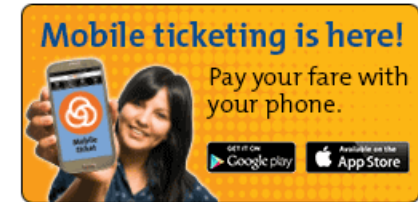
# TriMet Open Data = 57 TriMet Apps



## TriMet App Center

Transit tools for the web and mobile devices

Below are some of the free and commercial applications that are available from third-party developers using TriMet's [open data](#).



Show only:

Showing 57 of 57 apps

- Android
- iPhone
- iPod Touch
- iPad
- Blackberry
- Windows Phone
- Mobile Web
- Web
- Text Messaging
- Other



### Acehopper

Provides schedule and real-time information.

For Android, iPhone, iPod Touch, iPad



### allSchedules

Provides schedule information.

For iPhone, iPod Touch, iPad



### AnyStop

Searches for nearest stops, provides schedule info, displays a map.

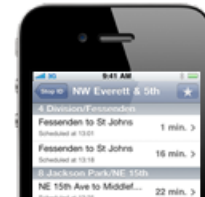
For Android



### Arrival

Provides real-time arrival information.

For iPhone, iPad



### ArrivalTracker

Searches for nearest stops, provides real-time arrival information, displays a map and vehicles on map.

For iPhone, iPod Touch





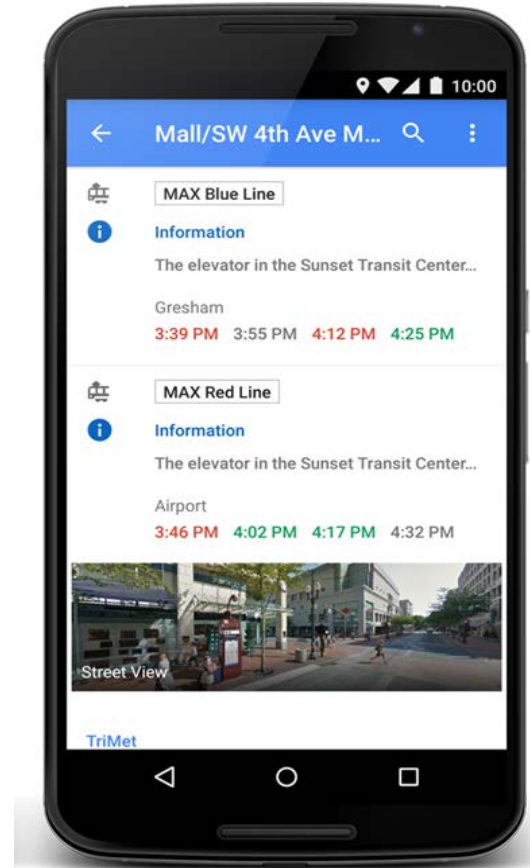
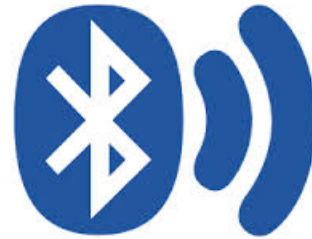
**TriMet = Smart City?**



**Smart City = Data**



# Google BLE Beacons



Google Maps



# TriMet in the Sharing Community

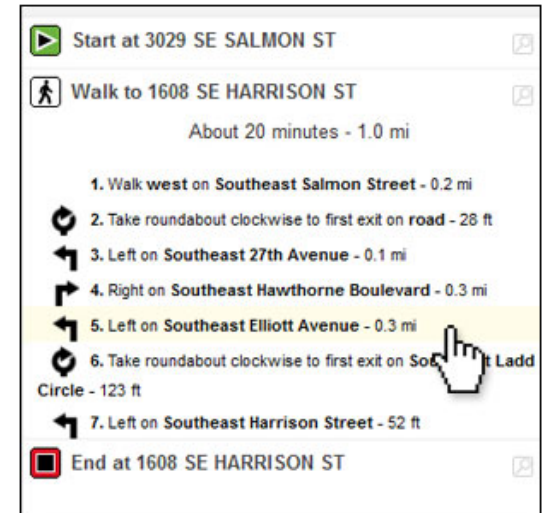
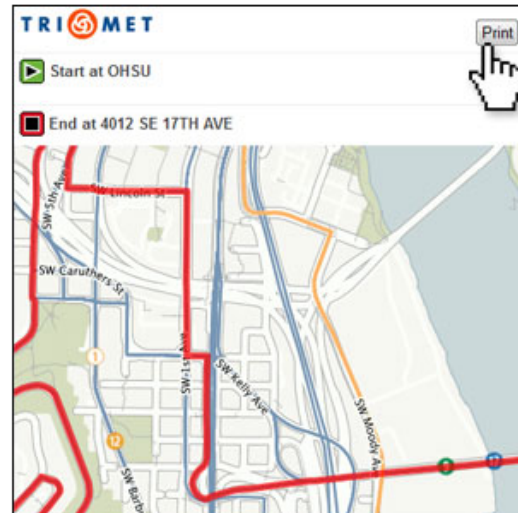
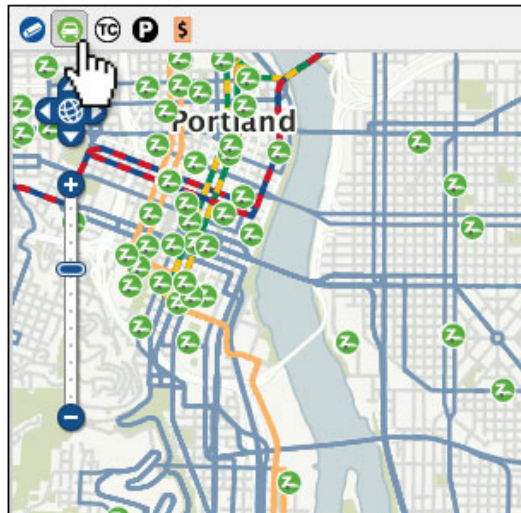
# The TriMet Open Data Developer Series

Sponsored by INIT, Tait Communications and the Technology Association of Oregon

The TriMet Open Data Developer Series is a collection of three events designed to promote the use of transit, information related to transit, and expand on TriMet's developer resources.

TriMet replaced its nearly 20 year old CAD/AVL system in the spring of 2013 providing improved bus tracking and performance monitoring capabilities.

We now have data transit developers only dreamed of, and the potential for apps that can transform the rider's experience.



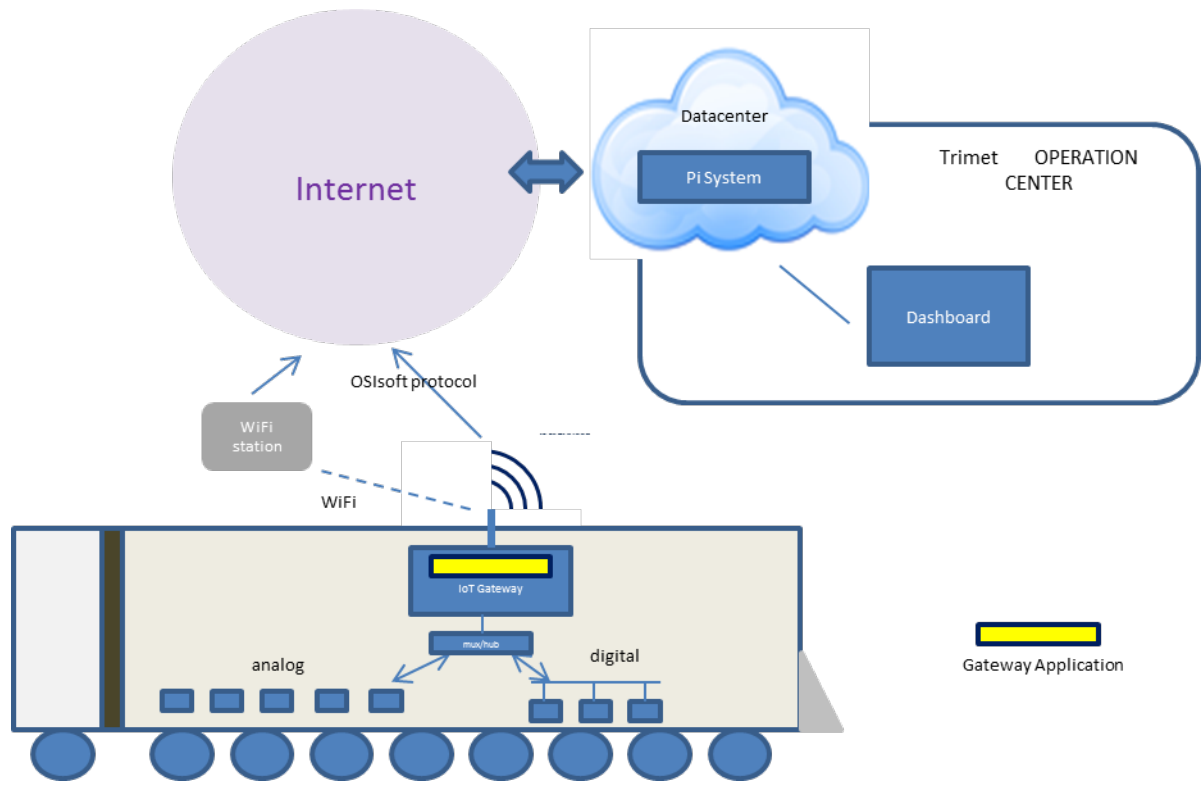


# Innovation with Intel









# Electronic Fare



## You choose how to pay

In the new e-fare system, *you* choose the most convenient way to pay your fare on the bus or train. You'll be able to use any or all of the following:



### A fare card

available from neighborhood grocery stores, as well as convenience stores and pharmacies

or



### Your smartphone

via mobile ticketing or your mobile wallet using Near Field Communications (NFC)

or



### Your own credit/debit card

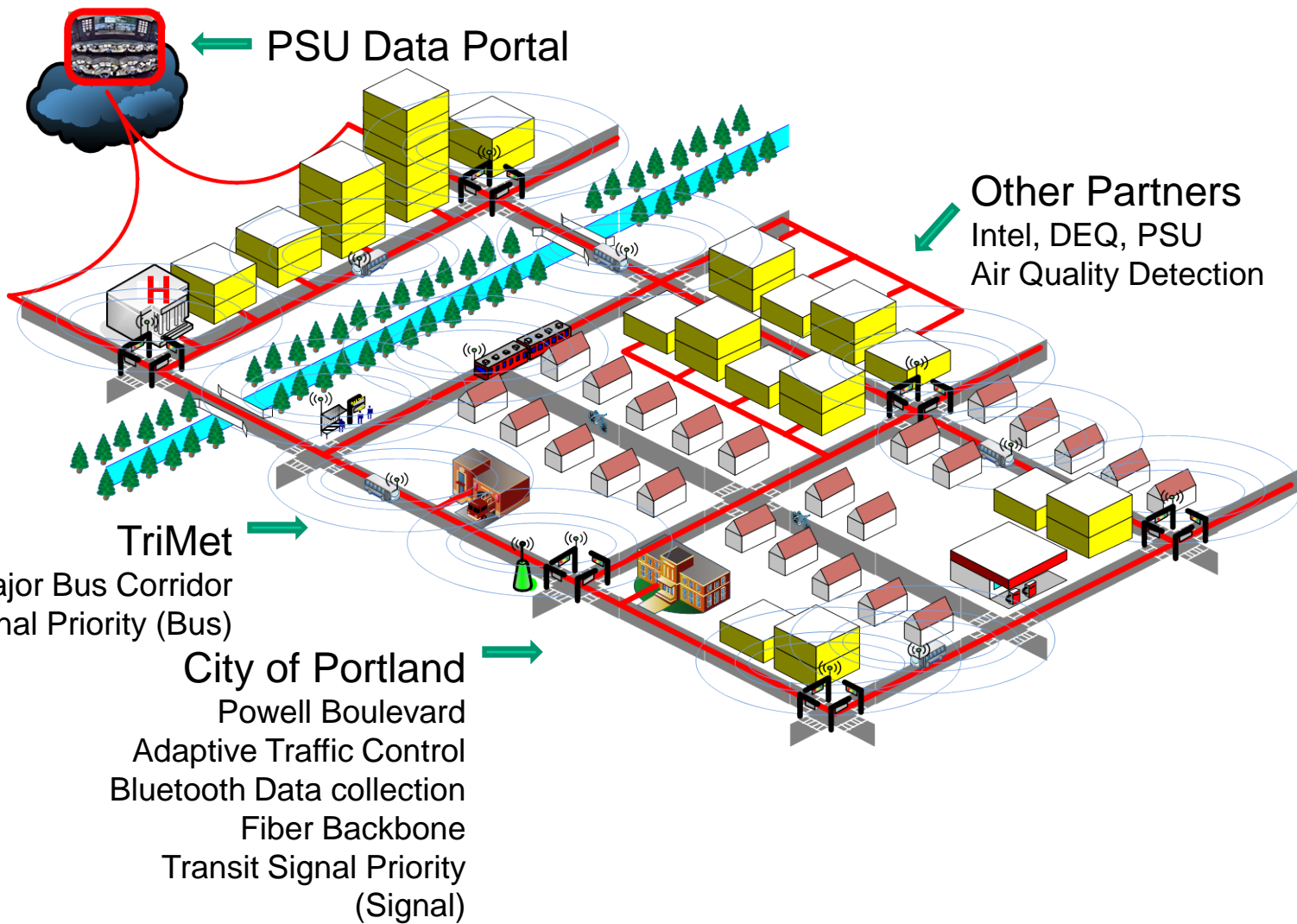
including American Express, Discover, MasterCard, and Visa contactless smart cards

## The future of fares

... is *easy*. Not only will you have your choice of convenient payment methods, our new electronic fare system will make it simpler and easier to get around on TriMet:



# Global Cities Team Challenge



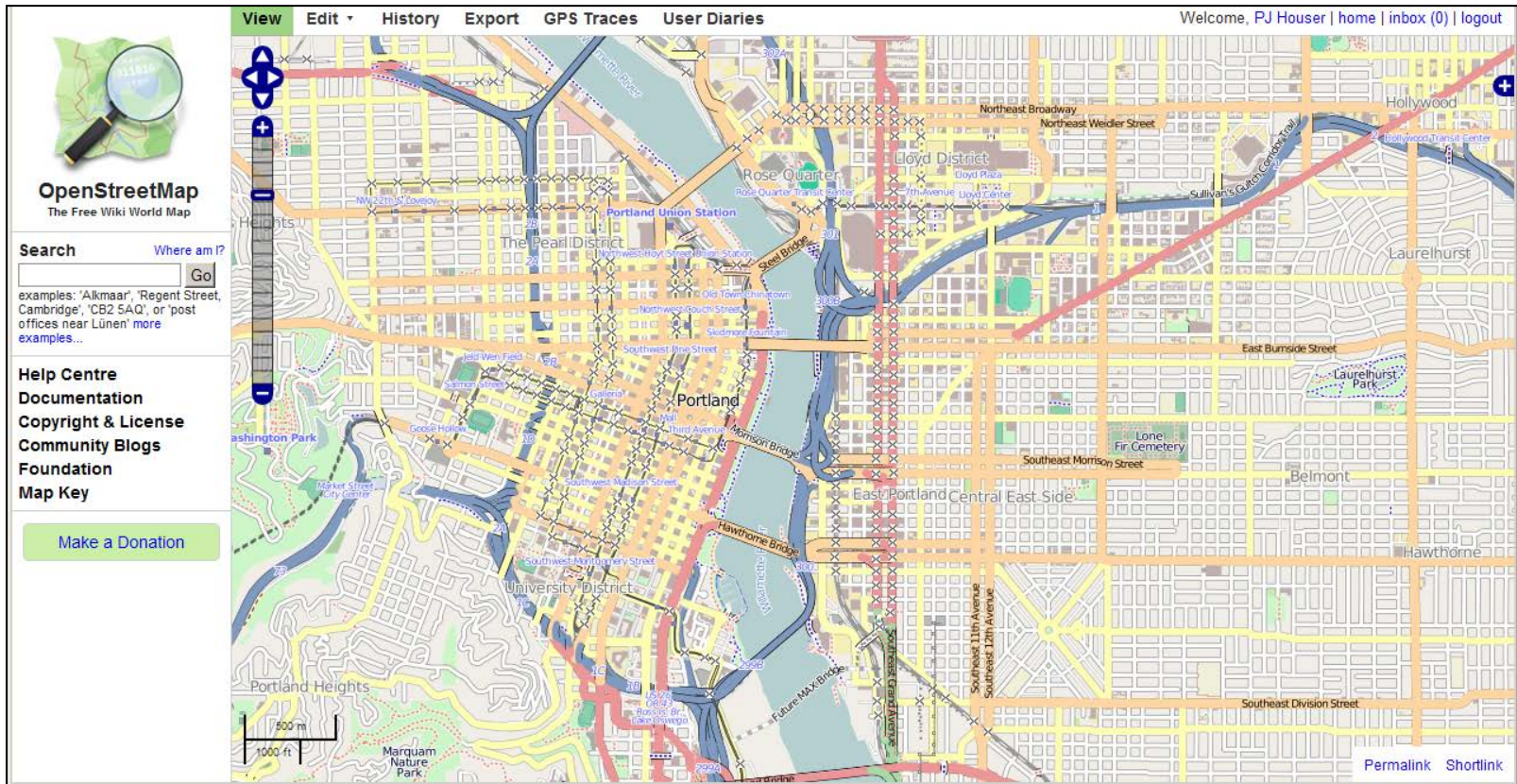


**OpenStreetMap (OSM)**  
**= Wikipedia of Maps**

# Portland Trimet

Community engaged improvement of OSM Portland

<http://web.archiveorange.com/archive/v/QFY7ID2xSV1QnrwuHQCR>



**OpenStreetMap**  
The Free Wiki World Map

Search  Where am I?

examples: 'Alkmaar', 'Regent Street, Cambridge', 'CB2 5AQ', or 'post offices near Lünen' more examples...

**Help Centre**  
Documentation  
Copyright & License  
Community Blogs  
Foundation  
Map Key

View Edit History Export GPS Traces User Diaries

Welcome, PJ Houser | [home](#) | [inbox \(0\)](#) | [logout](#)

Portland Union Station  
Portland  
University District  
The Pearl District  
Rose Quarter  
Lloyd District  
Hollywood  
Laurelhurst  
Belmont  
Hawthorne  
Marquam Nature Park

500 m  
1000 ft

Permalink Shortlink









**Google BLE Beacons  
Innovations with Intel  
Sharing Community  
Electronic Fare  
Global Cities Team Challenge  
Open Street Map**



Conceptual rendering subject to change