

# Online Non-motorized Traffic Count Archive

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- National Institute for Transportation and Communities (a national UTC)
- Oregon Department of Transportation
- FHWA
- City of Boulder, CO
- City of Eugene, OR/ Lane Council of Governments
- City of Austin, TX
- Bend, OR / Jackson County
- Cycle Oregon
- Metro (Portland MPO)

# Agenda

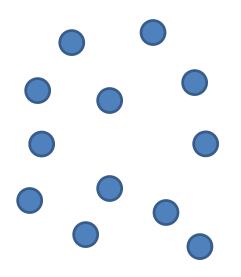
- Project Overview
- Project Scope
- Progress
- Next Steps



# Proposal Overview

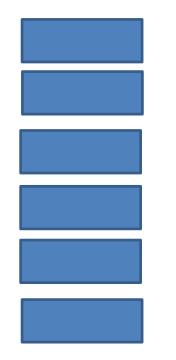
### The Problem

**Cities and Counties** 



Ped/Bike counts live here and die here.

**State Agencies** 



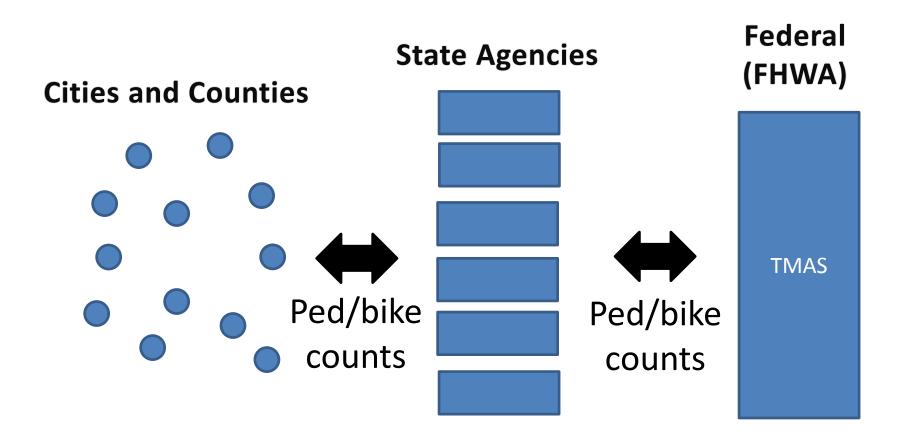
Some ped/bike

**Federal** (FHWA)



No ped/bike counts live here. counts live here.

## The Solution



# **Existing Clearinghouses**

- Central Lane Metropolitan Planning Organization
- Portland (Portal)
- Delaware Valley Regional Planning Commission (DVRPC)
- LA Metro
- Arlington
- Austin
- Seattle
- Boulder

# Central Lane Metro Planning Organization





Who we are What we do How we fund it How you can help Committees Learn more Contact us Construction updates

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Demail this page ☐ printable view

Home > What we do > Bicycle Counts Web App

#### Regional Bicycle Count Program

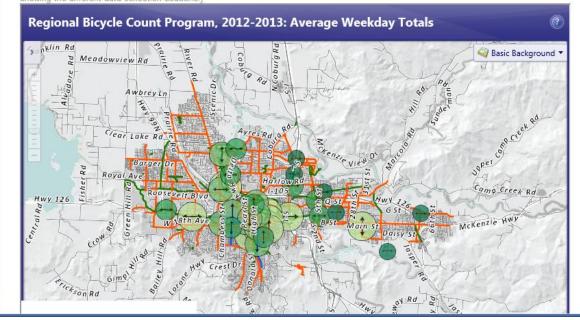
The Central Lane Metropolitan Planning Organization (CLMPO) recently began a Regional Bicycle Count Program (RBCP) in fall of 2012 using the experience gained from preliminary testing done during the summer. Count data collection and data storage and processing protocols were established that will make ongoing data collection more efficient and seamless. Count locations for the RBCP were selecting using local knowledge in collaboration with local agency partners as well as data collected through travel survey and a smart phone application.

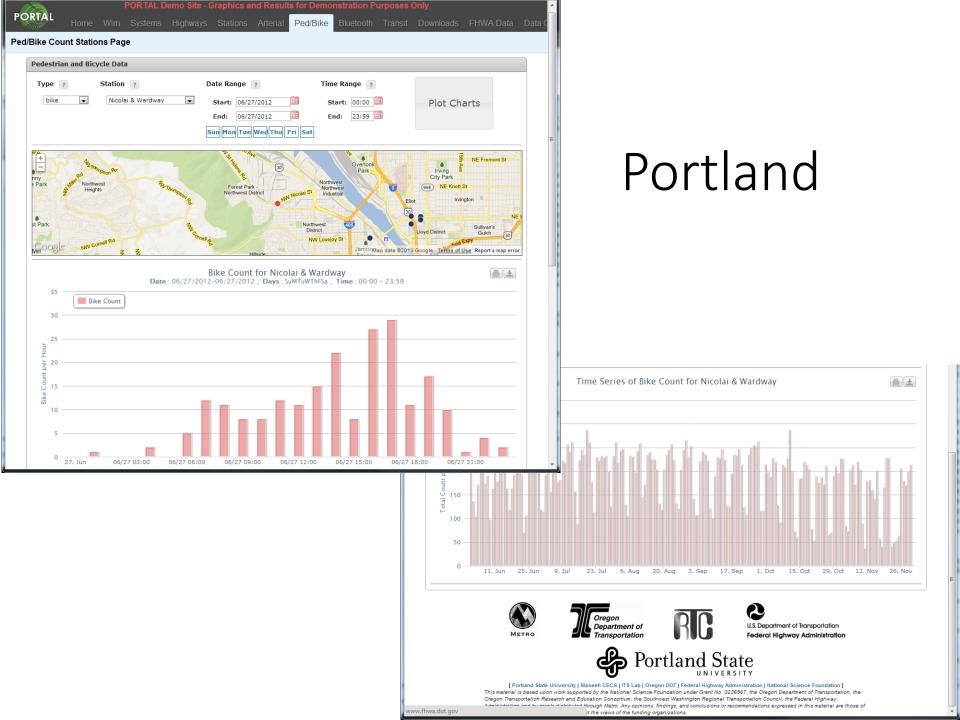
#### Read the full report

Download daily data in .csv format Download hourly data in .csv format

#### Explore the map below on a full web page

[Tips: hover the mouse pointer on a location to read the counts; pull down the menu "Basic Background" to access the map layers showing the different data collection seasons.1



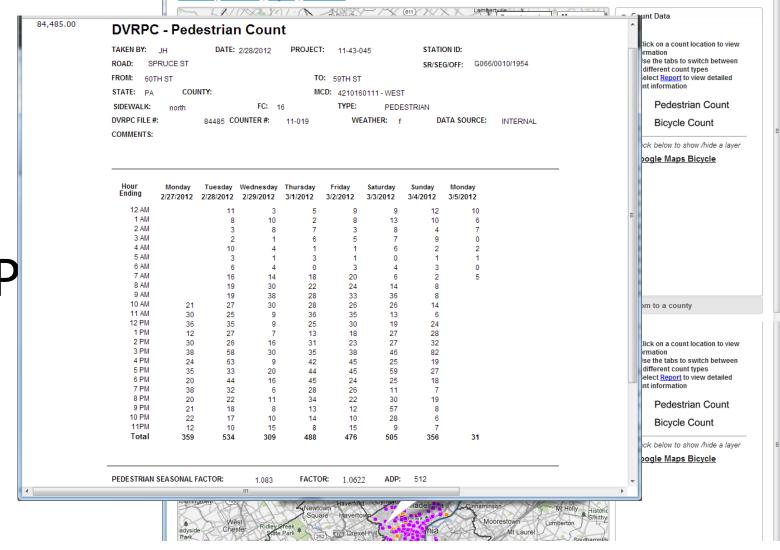


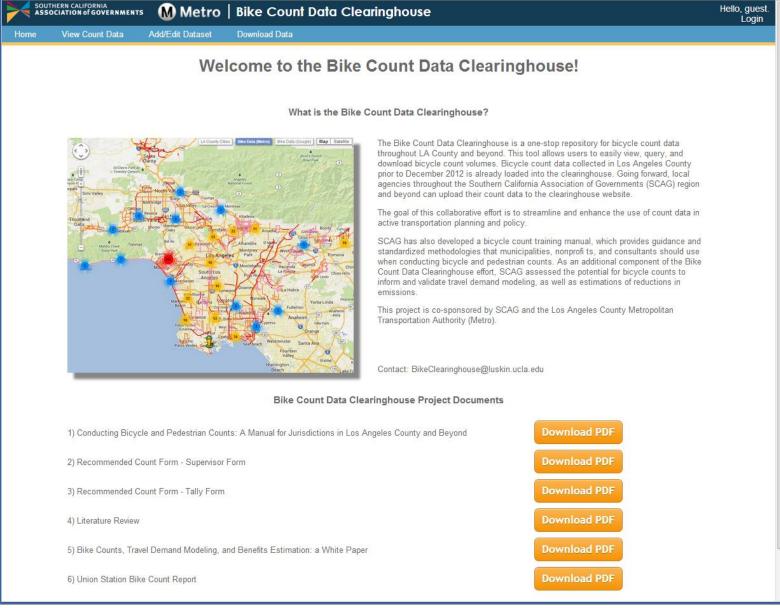
Enter a street address, city, state, zip code or place name.

17th and market street, philadelphia,pa

ncate

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# Los L Angeles

# Why aggregate the data?

# Data are worth more together than alone.



### Vision: Online Count Data Archive

#### Qualities of the Archive:

- Cross Jurisdictional
- Online Input in Multiple Formats
- Manual and Automated Data
- Online Data Output



# Technical Presentation & Discussion



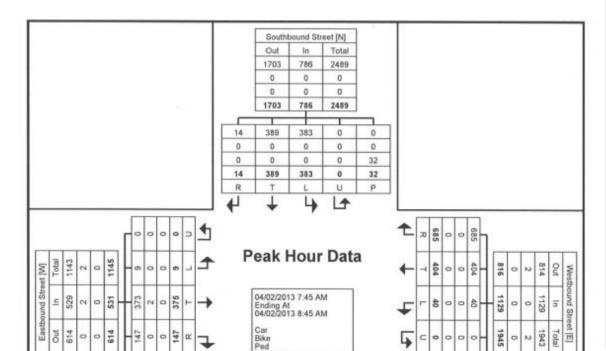
#### **Tasks**

- 1. Review the State of the Practice
- 2. Establish Non-motorized Data Collection Methods and Formats Used by Partner Agencies
- Develop an Online Tool
- 4. Stakeholder Engagement
- 5. Research Deployment



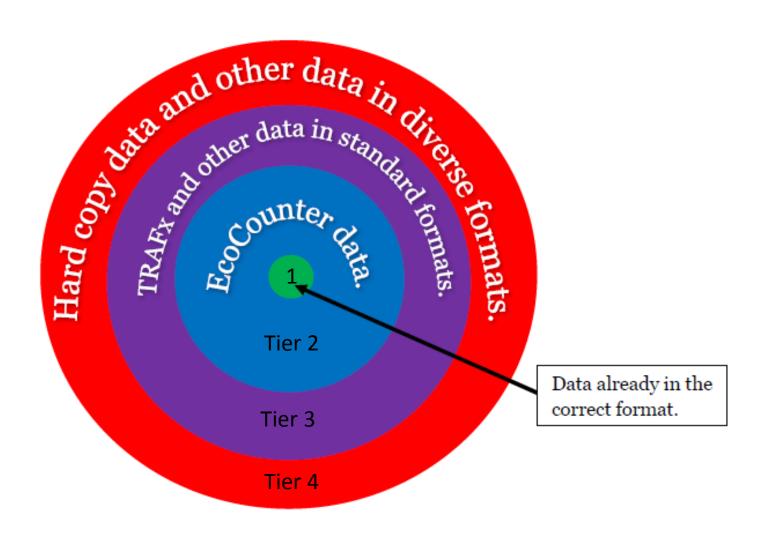
## 1. Review the State of the Practice

- Assessment
- Inventory Existing Data Formats
- Inventory Existing Datasets



NATIONAL BICYCLE AND PEDESTRIAN	DOCUMENTATION					·	_
BACKGROUND DATA SHEET	DOCUMENTATION	PROGRAM					-
BACKGROUND BRINGSTEEL							-
	Copital Area						-
	Metropoliton						l
. 40	Planning						
Agency/Organizations ID #i	Organization						-
	22.5 11						-
Date sheet completed:	23-Sep-11						-
Contact Information:	Greg Griffle, AICP						_
Lead Person Name	P.O. Box 1088,						-
	Aueto, TX 78767-						
Address	1066						
	атератПофратра						
E-mail	texacorp						_
Phone	(512) 974-2084						_
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General Area Background:	Local Community		County		Region Austin-Round Rock-		_
Name of jurisdiction(s):	Auctio		Travis		Son Marces MSA		
If County or Region, number of local ager					and market man		-
in County or Region, number or local ager	American Community						-
Source of demographic data:	Survey						L_
Year of data:	2009		2009		2009		
Population:	790,593		1,026,158		1,705,075		
Density (people per square mile):	2669		1004		398		
Bicycle Made Share: US Journey to Work	1.00%		0.90%		0.70%		
Pedestrian Made Share: US Journey to W	2.30%		1.90%		1.80%		
Median Age:	31.2		31.6		38.1		
Median Income (Individual):	29,233		30,432		33,239		
					17.03 million (Texas		
Number of annual visitors to area:					Declinations 2006-		_
	770 Aquaresa	Lonce Armstrong		Blanton Museum.	University Dries &	North LELL Drive &	Cost 71
Count Location Description:	Springs Dr., Son Morcos, TX	likeway at Sheel Creek, Austin, TX	Speedway and 21 st St., Austin, TX	MLK & Congress. Audio, TX	Sewell Park, Son Marcos, TX	Sessons Dr., Son Morcos, TX	Pleaso Austin
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	4-lane arterial	Shared-use path,	orterial with bike	2 parallel concrete	crosswak & shared-	MAU-2 w/ddewolks	
Type of facility:	street with sidewalks	concrete	lanes and sidewalk	partie	use path	& wide outs lanes	MNR-3
Type of settings	urban, small sity				urban, unall city		
Type or sering:		urban parkland	university	university		urban, small city	urban,
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# Data Types



2. Establish Nonmotorized Data Collection Methods and Formats Used by Partner Agencies

- Data Collection
- Formatting Data
- QA/QC

N42101P005739.94580-75.184795132 1 IY

N42101P005739.94580-75.184791132 1 IY

N42101P005839.94578-75.185111132 1 IY

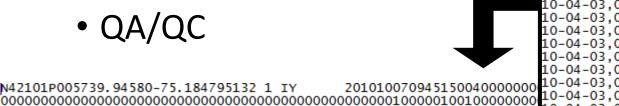
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N42101P005539.94542-75.184515132 1 IY

N42101P005639.94557-75.184571132 1 IY

N42101P005639.94557-75.184575132 1 IY

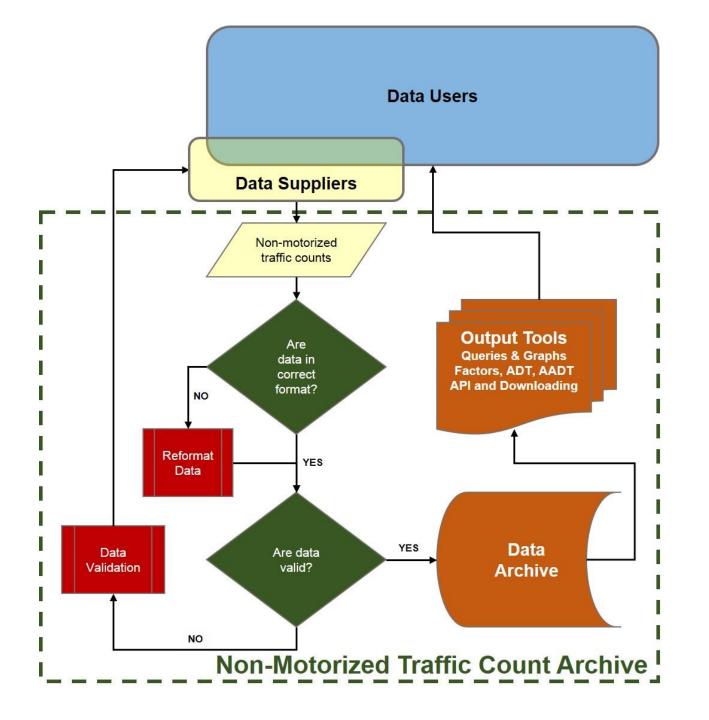
N42101P005539.94542-75.184511132 1



```
Factory:_B3.84_C2.77_F8127_EY_ME_D1
=DOCK TIME (yy-mm-dd hh:mm):10-07-19 11:12:40
                                                     ounter log start
                                                      ***V8.0y 5/N71128 (c) 2001-2007****
                                                    TRAFx Research Ltd. www.trafx.net
                                                    Fx:F6E0R1M3T2T_c26f26L33LN4P0A0E2_m064I2_d
                                                    Sets:N:H:001:035:E:060:000:F:Y:F:016:000:Y:000
                                                      *Serial Number
                                                                           Bobby
                                                      *Counter name
                                                      *Mode
                                                                   :Infrared (IR+)
                                                      *Batt. voltage :4.2
                                                      *Stored records :02588
                                                    =TIME (yy-mm-dd hh:mm):10-07-19,10:12:59
                                                     START(yy-mm-dd hh:mm):10-04-02,16:00
                                                    PERIOD (1/24/0=Timestamps) :001
                                                            (see manual)
                                                                         :035
                                                    10-04-02,16:00,00000,00000
                                                    10-04-02,17:00,00000,00000
                                                    10-04-02,18:00,00000,00000
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                                 201010211200150010000010
                                                    10-04-03,17:00,00000,00000
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```

**Data Users** 

**Data Suppliers** 



## 3. Develop an Online Tool

- Functional Requirements
- Software Development
  - Input Tool
  - QA/QC Tool
  - Output Tool
  - Archive Documentation and Metadata

Keep it simple and robust!

# Progress

# **Advisory Committee Survey**

- Surveyed Technical Advisory Committee members
  - Clear preference for automated count data (>24hrs)
  - Still want to allow shorter counts, but with lower data quality ranking
  - Need to integrate other data (weather, landuse)

# **Developing Schema**

- Focusing on automated counts on roads/paths
- Including some facility information
- Developing user interface for inputting station and counter data
- Preparing test data

## **Data Processing**

2 Interns working on formatting difficult data

# Next Steps

## **Next Steps**

- Present to Advisory Committee at end of July
- Iterative software development process
  - Develop web-based user input
  - Populate database
  - Quality Control
  - Data Output
    - Map
    - Graph
    - API

## **STAY TUNED!**