# John Federico, PE, PP, AICP Urban Engineers

# BICYCLE & PEDESTRIAN MASTER PLANS

# System-wide plans

 Network approach to implementing Complete Streets and re-balancing the transportation system

# Physical improvements

Bike lanes, pedestrian crossings, sidewalks, etc.

# Program/policy actions

Zoning/ordinance modifications, education, enforcement, etc.

# BICYCLE & PEDESTRIAN MASTER PLANS

# Comprehensive and multi-modal approach:

- Bicycle/pedestrian safety and access;
- Traffic circulation, transit access, parking;
- Urban design/place-making

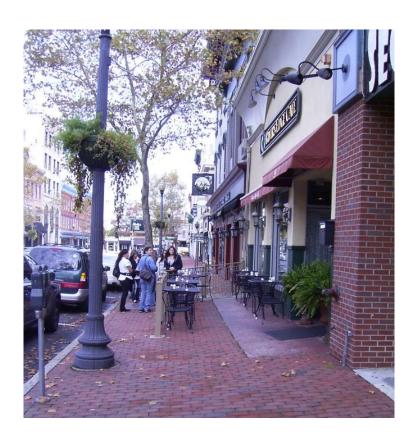
# Keys to successful implementation:

- Work closely with key stakeholders to develop plan
- Develop graphics that clearly convey the recommendations
- Develop concepts in enough detail to carry forward
- Identify "immediate action" items
- Develop plan with an eye towards grant applications

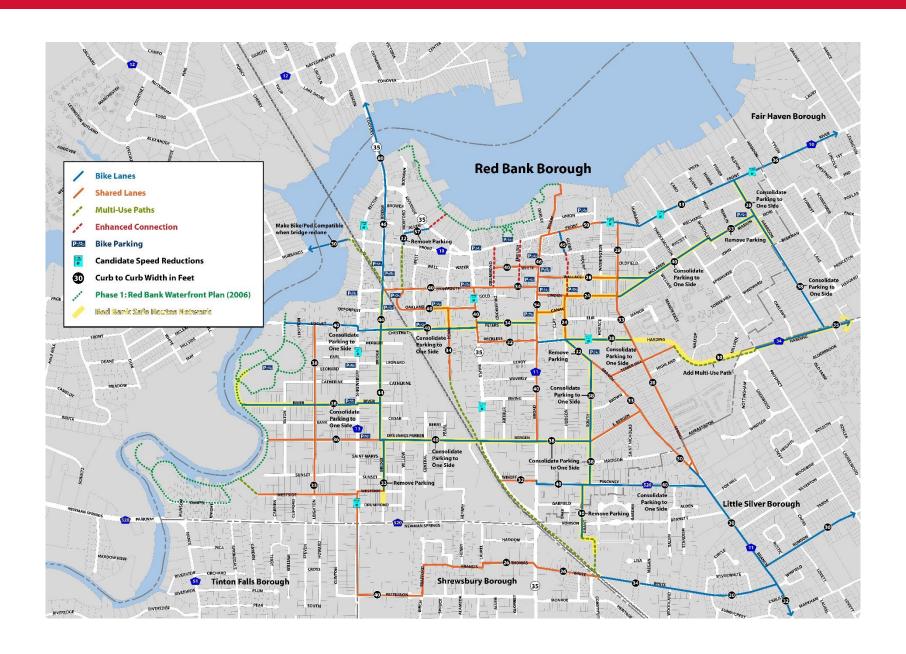
# CASE STUDY: RED BANK, NJ - 2010

# Borough of Red Bank

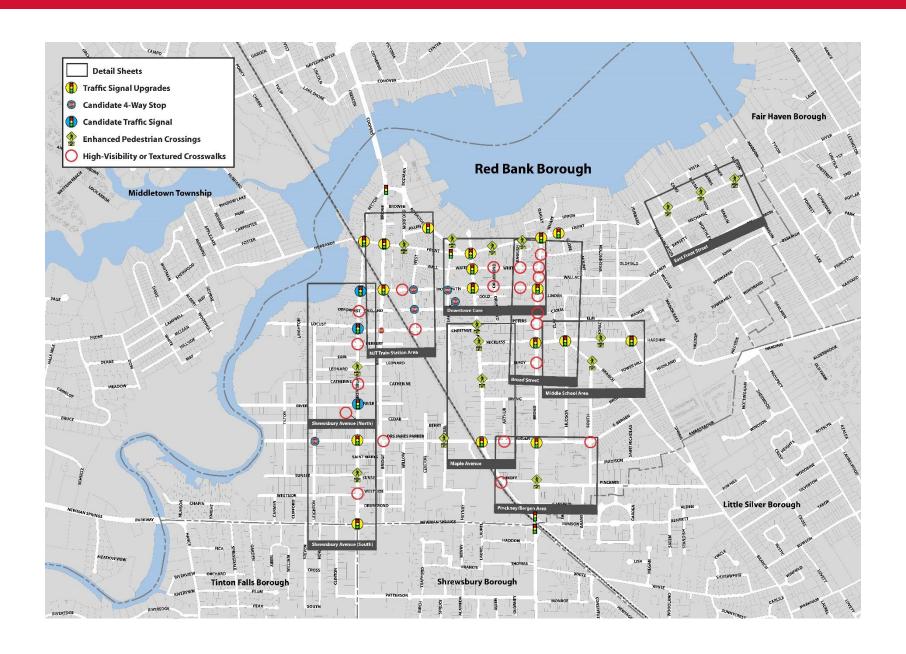
- 1.75 square miles
- o 12,200 residents
- Compact, walkable downtown
- "Red Bank Safe Routes" need for safer bike/ped environment
- Adopted CS Policy in 2010



# **BICYCLE NETWORK PLAN**



# PEDESTRIAN NETWORK PLAN



# **PROGRESS TO-DATE**

### Bike Lanes

Bridge Street

### Sharrows

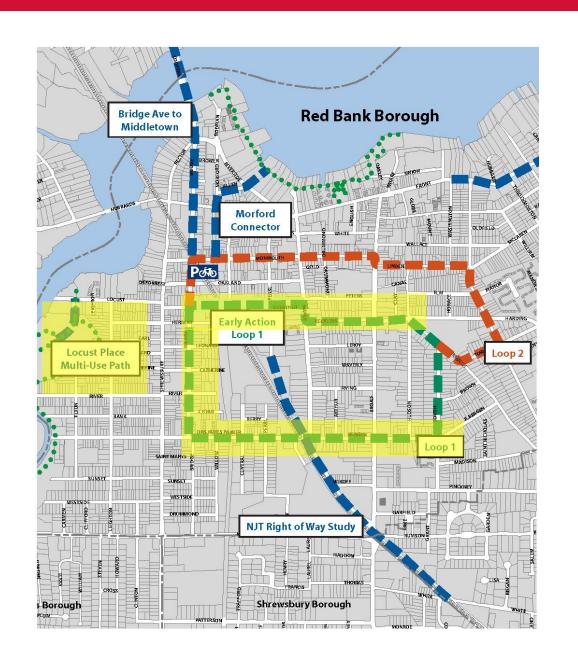
- Chestnut Street
- Peters Place
- o Bergen Place \*

### Multi-use Path

o Locust Place \*

### Wider Sidewalks

\* under design



# CASE STUDY: RED BANK, NJ - 2010

# Keys to success:

- Wide-spread knowledge and participation strong local advocacy for SRTS
- Adopting Bike/Ped Plan into Master Plan (2011)
- Realistic implementation strategy
- Partnering with Monmouth County

# CASE STUDY: NORTHFIELD, NJ – 2015

# City of Northfield

- o 3.5 square miles
- o 8,000 residents
- "Gateway to Shore"
- Develop bike/ped network to connect key destinations

### • Key Activity Generators:

- Northfield Bike Path
- Northfield Community School
- Commercial Areas



# CASE STUDY: NORTHFIELD, NJ – 2015

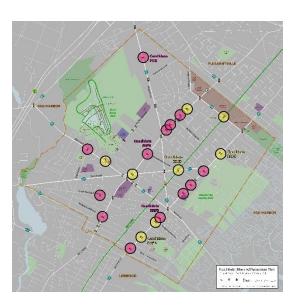
### **Bicycle Plan**

- Bike Lanes / Shared Roads
- Multi-Use Paths

# PERANTULE PERANTULE

### **Pedestrian Plan**

- Road Crossings
- Sidewalk Connections



### **Focus Area Plans**

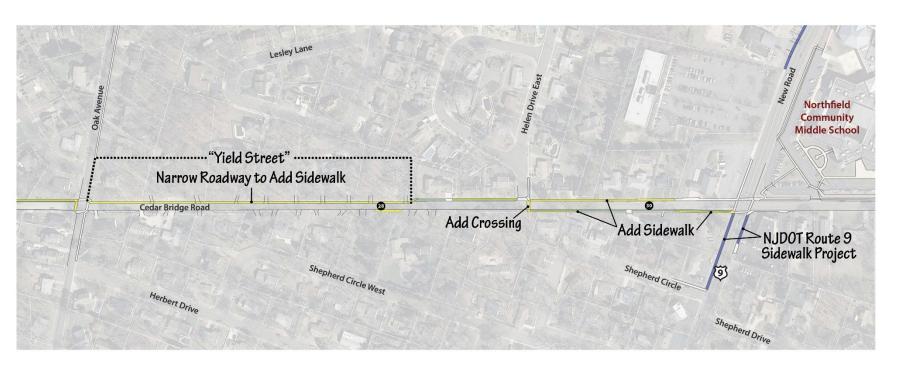
- Integrated Concept Plans
- Traffic, Transit, Parking



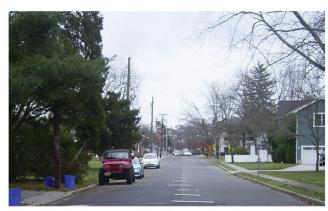
# NORTHFIELD BIKE PATH



# Northfield Community School





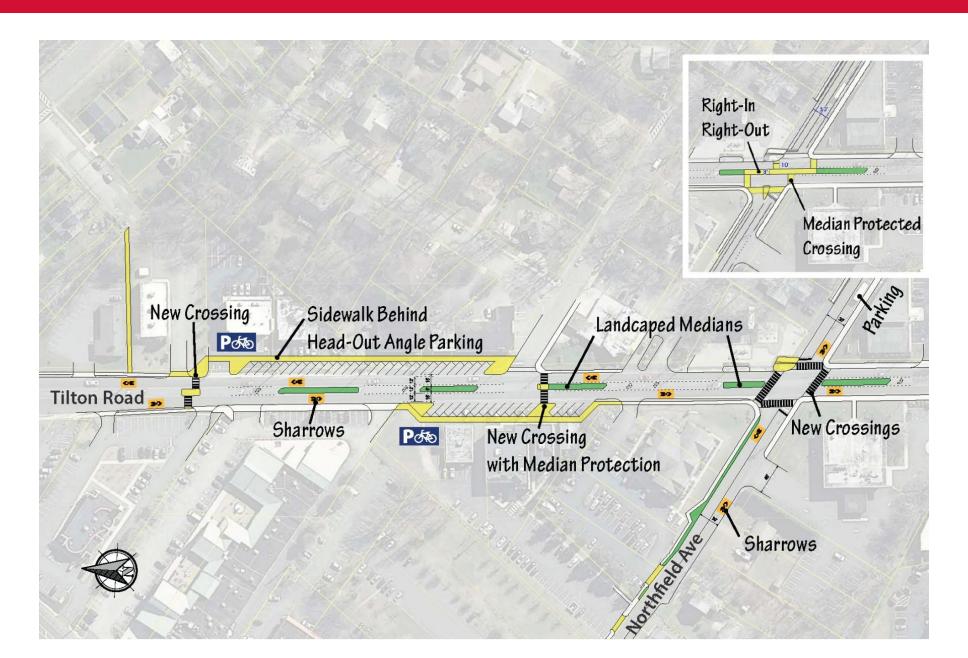


# TILTON ROAD COMMERCIAL CENTER



- Commercial corridor
- Posted speed = 35 mph
- ADT ~ 13,000 vpd
- Narrow (2') shoulders
- Uncontrolled access
- Missing sidewalks

# TILTON ROAD COMMERCIAL CENTER



# **POLICY RECOMMENDATIONS**

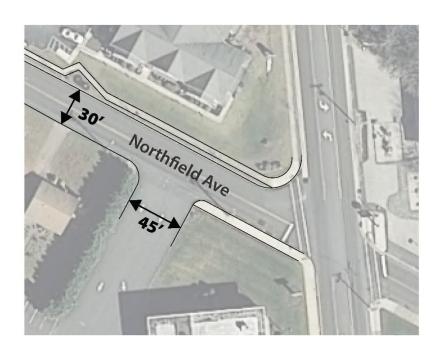
# A. Driveway Width (215-92): (Commercial and Industrial)

### **Current Code**

- One-way: Min (30'), Max (34')
- Two-way: Min (30'), Max (46')

### **Recommended Change**

- One-way: Min (10'), Max (15')
- Two-way: Min (20'), Max (30')
- B. Sidewalk Width (215-112):
  - Increase minimum width from 4' to 5'
- C. Complete Streets Policy
- D. Bicycle Parking Ordinance





# CASE STUDY: NORTHFIELD, NJ – 2015

# Current implementation actions:

- Pursuing grants for Bike Path recommendations
- Exploring sidewalk alternatives for Cedar Bridge Road
- Working to adopt Bike/Ped Plan into Master Plan and develop a Complete Streets policy

# ROUTE 52 BRIDGE REPLACEMENT

### Purpose:

- Evaluate CS projects
- Communicate successes

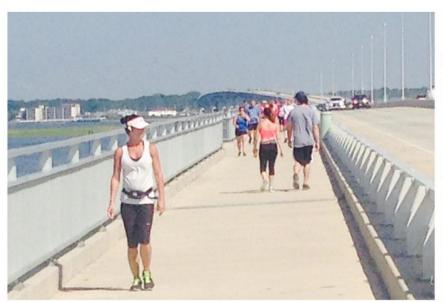
### • Bridge Replacement Project

- Completed in 2012 by NJDOT
- New Visitors Center and Scenic Overlook area
- Included a 10' wide paved shared-use path

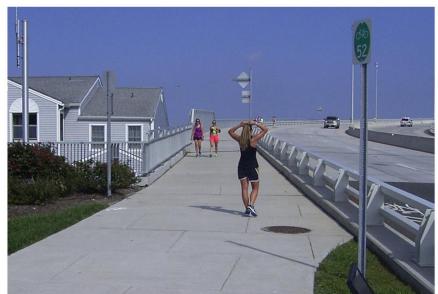
### **SOMERS POINT**



# ROUTE 52 BRIDGE REPLACEMENT







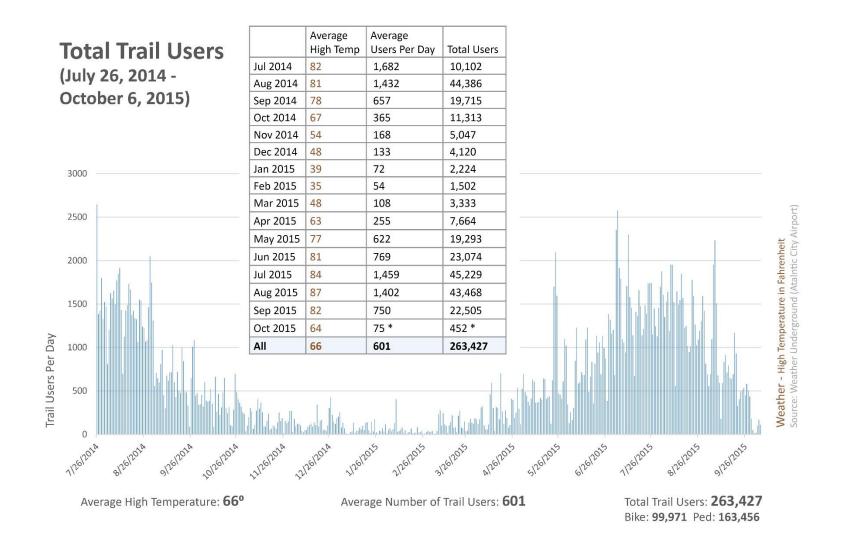


# **ECO-COUNTER**

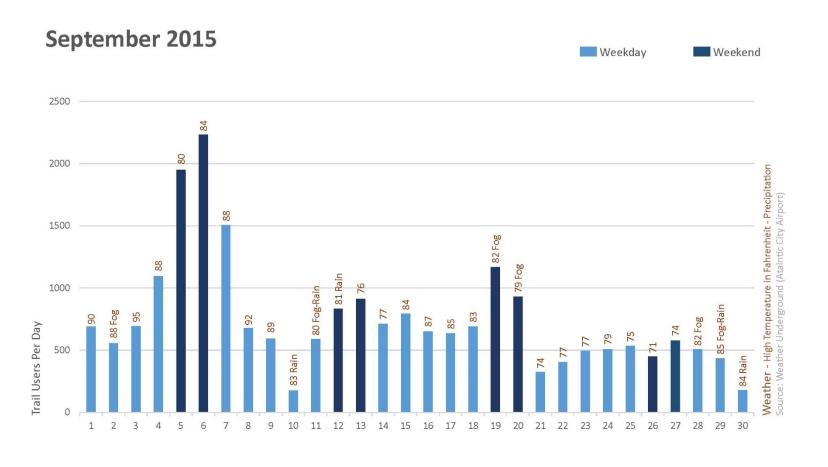
- Installed by NJDOT in July 2014
- Bi-directional counts of bicycles and pedestrians
- Passive infrared detection to capture all users
- ZELT inductive loops to classify bicyclists



# TRAIL USAGE — CUMULATIVE



# TRAIL USAGE — BY MONTH



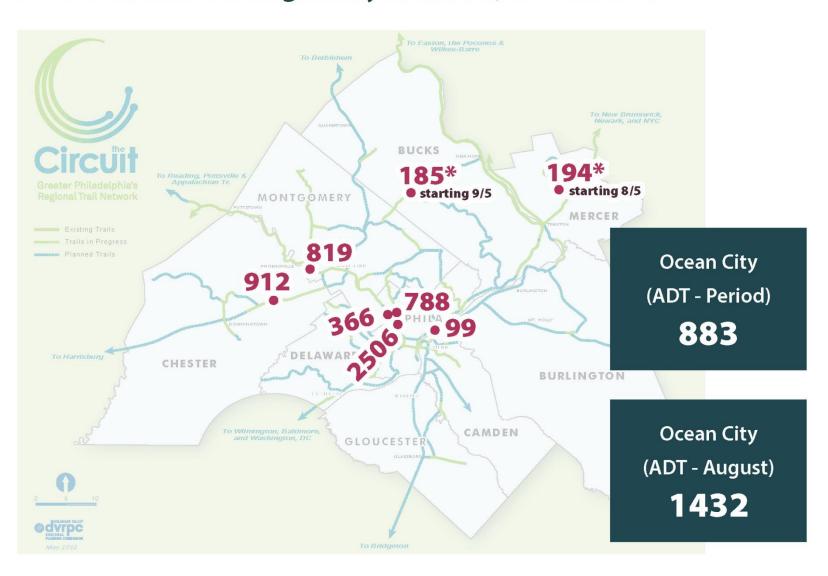
Average High Temperature: 82°

Average Number of Trail Users: 750

Total Trail Users: **22,505** Bike: **8,647** Ped: **13,858** 

# **COMPARISON WITH REGIONAL TRAILS**

### **DVRPC Counts - Average Daily Totals** (July 25 - October 31)



# ROUTE 52 BRIDGE REPLACEMENT

## Important Complete Streets investment

- Provides recreational opportunities in a natural setting
- Promotes an active/healthy lifestyle
- Enhances community livability & tourism opportunities
- o People are using it in large numbers!