# Cambridge Street Bicycle Safety Demonstration Project



Community Presentation | April 25, 2017

# Agenda Cambridge Street

- Project Background
- Project Information
- Design Overview
- Next Steps



### **Project Limits**

#### Harvard Square to Inman Square

from Quincy Street to Antrim Street



### **Municipal Policies**

#### Vision Zero, Complete Streets, & Safe Routes to School







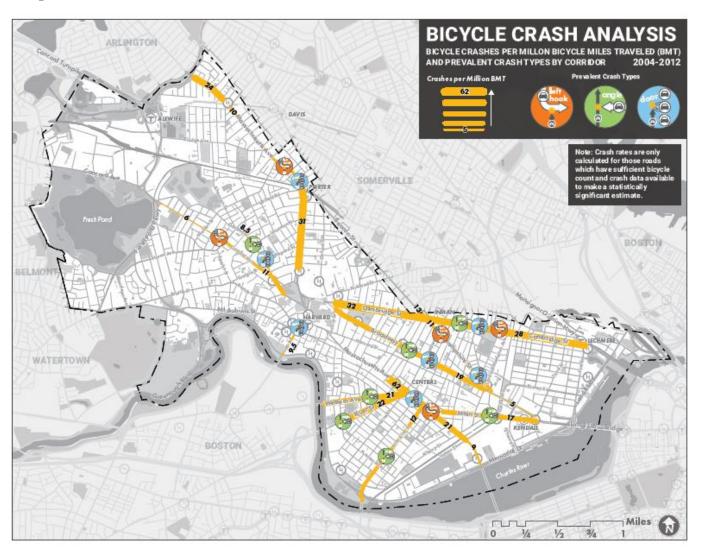
Complete Streets are designed and operated to enable safe access for all users – regardless of age, ability, or mode of transportation.

Vision Zero calls for the elimination of fatalities and serious injuries resulting from traffic crashes, and emphasizes that they can, and should be prevented.

**Safe Routes to School** aims to increase the number of students who get to and from school safely by walking or biking.

### **Municipal Policies**

### Reported Bicycle Crashes, 2004-2012



### Separated Bicycle Facilities

### **Examples**



Vancouver, Canada



Mass. Ave., Boston, MA

### Separated Bicycle Facilities

#### Mass Ave Protected Bike Lane Demonstration

December 2016

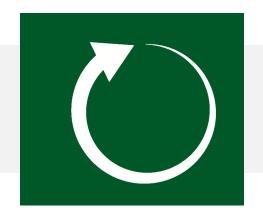


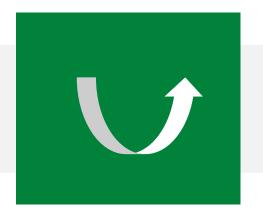
Northbound from Sidney Street to Douglass Street (shown: Lafayette Square)



Northbound (east/odd side of the street) from Waterhouse Street to Everett Street

### Implementation Steps









#### **PLANNING**

- Identify measures of effectiveness
- Develop detailed plan
- Community engagement
- Develop mitigation measures

#### **IMPLEMENTATION**

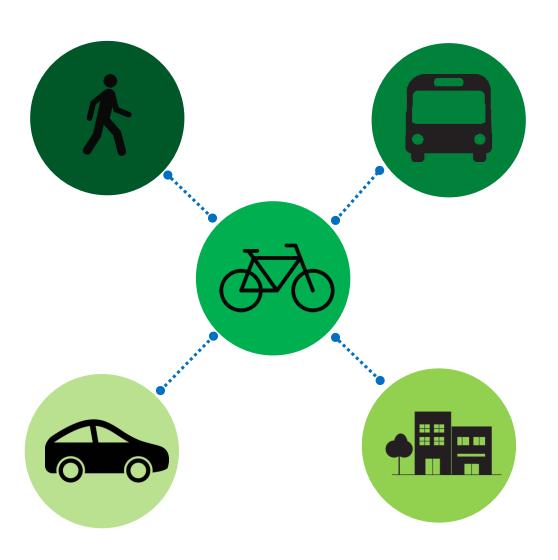
- Procure materials
- Issue regulations
- Remove / reinstall pavement markings
- Install delineators

#### **OPERATION**

- Street cleaning
- Snow clearance
- Enforcement
- Communications strategy

#### **EVALUATION**

- After data collection and analysis
- Community engagement
- Decisions on next steps



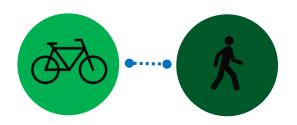
- ✓ Cyclist safety & comfort
- ✓ Crosswalks/curb extensions
- ✓ Bus stops
- √ School pick-up/drop-off
- ✓ Accessible parking
- ✓ Loading & deliveries
- ✓ Street maintenance
- ✓ On-street parking



✓ Cyclist safety & comfort







✓ Crosswalks/curb extensions







✓ Bus stops





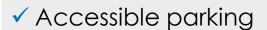


✓ School pick-up and drop-off









✓ Loading & deliveries







✓ Street maintenance





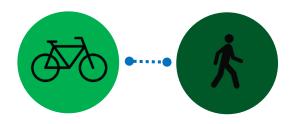


✓ On-street Parking





### Bicycle and Pedestrian Counts



Conduct bicycle and pedestrian counts



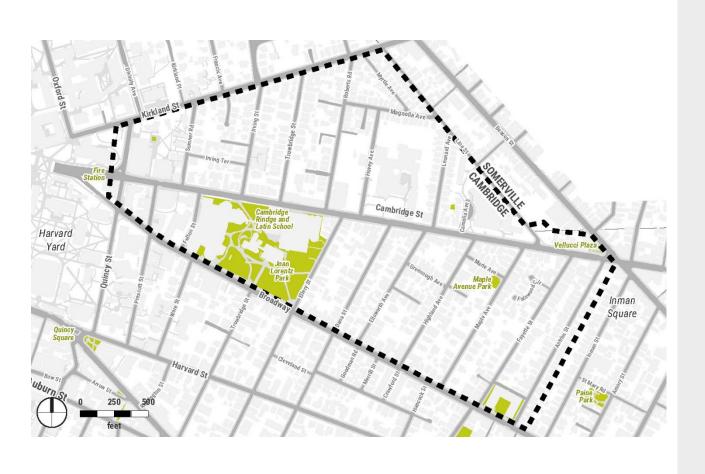




- Goals
- Methodology
- Inventory
- Preliminary Results
- Additional analysis ongoing



#### Goals



Determine existing curbside uses by type and number

Determine existing onstreet parking demands on various days and at various times

Determine methods to address Cambridge Street's curbside activity needs

### Methodology

Inventoried existing on-street parking spaces

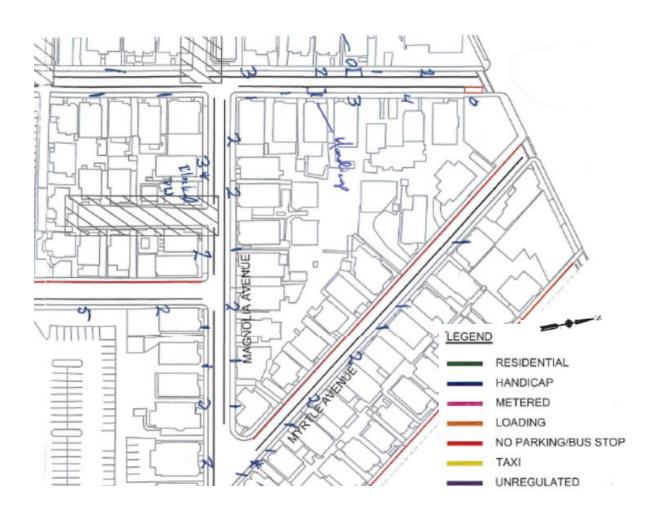
Inventoried public streets only

Determined occupancy on:

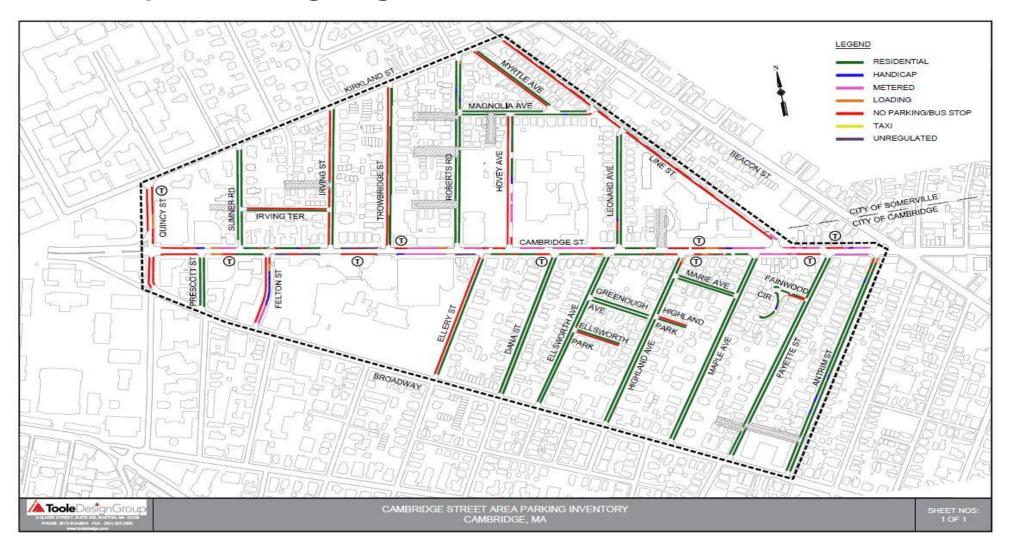
- Tuesday, April 4<sup>th</sup>
- Thursday, April 6<sup>th</sup>
- Saturday, April 8<sup>th</sup>

Times observed each day:

- 10AM
- 3PM
- Midnight



#### **Inventory of Parking Regulations**



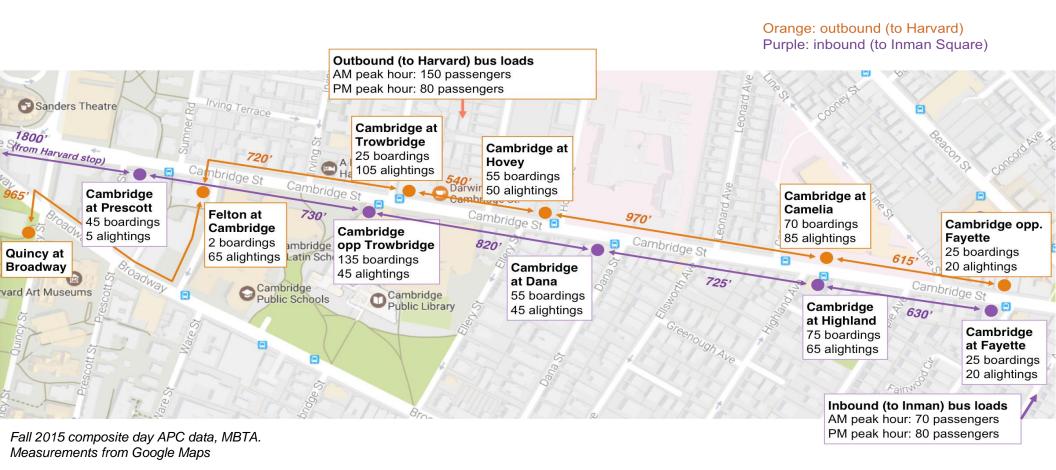
#### Preliminary Results – Occupancy Rates

Street/Area	Time of Day	Weekday	Weekend
Cambridge Street	AM	82%	68%
	PM	75%	68%
	Midnight	42%	53%
North Neighborhood Streets	AM	76%	74%
	PM	72%	64%
	Midnight	76%	67%
South Neighborhood Streets	AM	77%	68%
	PM	70%	71%
	Midnight	83%	75%

(Total of **1180 on-street parking spaces** within study area)

### **Bus Boarding and Alighting**

#### Cambridge St Bus Data (Inman Sq to Quincy St)



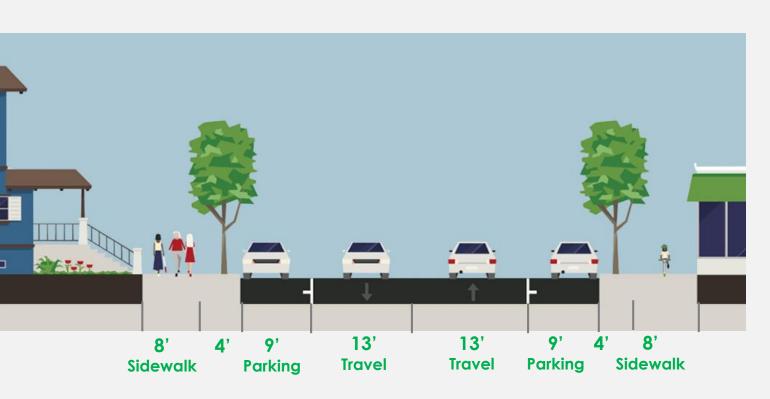
### Project Elements

- 1. Create one-way separated bike lane on each side of the roadway using existing pavement and curbto-curb width
- Narrow travel and parking lanes, and remove some parking
- 3. Delineate lane with pavement markings, signs, and flexible delineator posts



### **Existing Conditions**

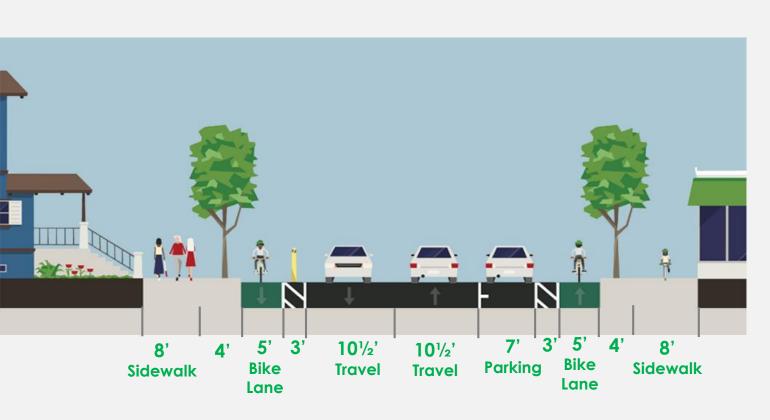
### Cambridge Street Cross-Section (Quincy St to Inman Sq)



- √ 44' wide
- No existing bike facility
- ✓ Parking on both sides
- Mix of meters and resident parking
- Bus stops and bus pullouts
- Curb extensions at multiple locations

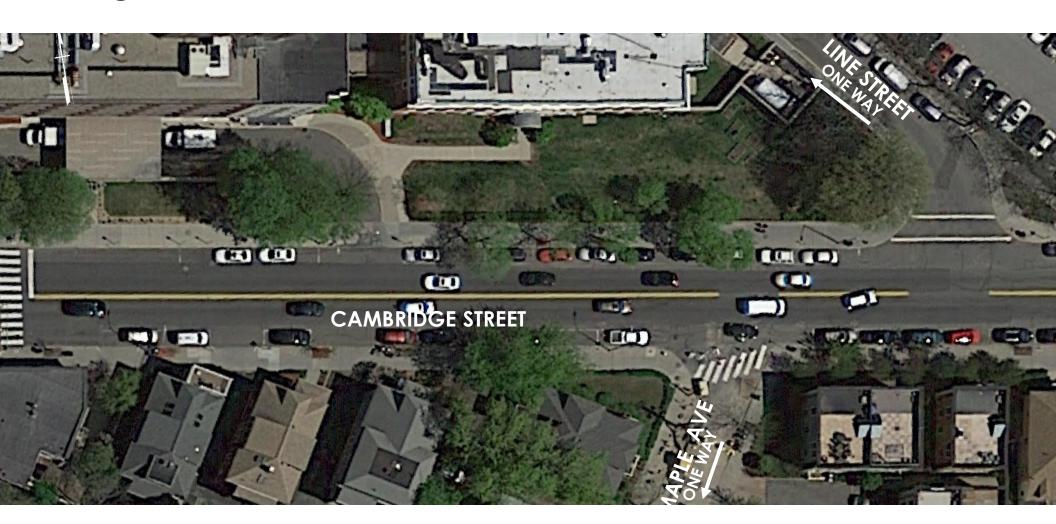
### **Possible Outcomes**

### Cambridge Street Cross-Section (Quincy St to Inman Sq)

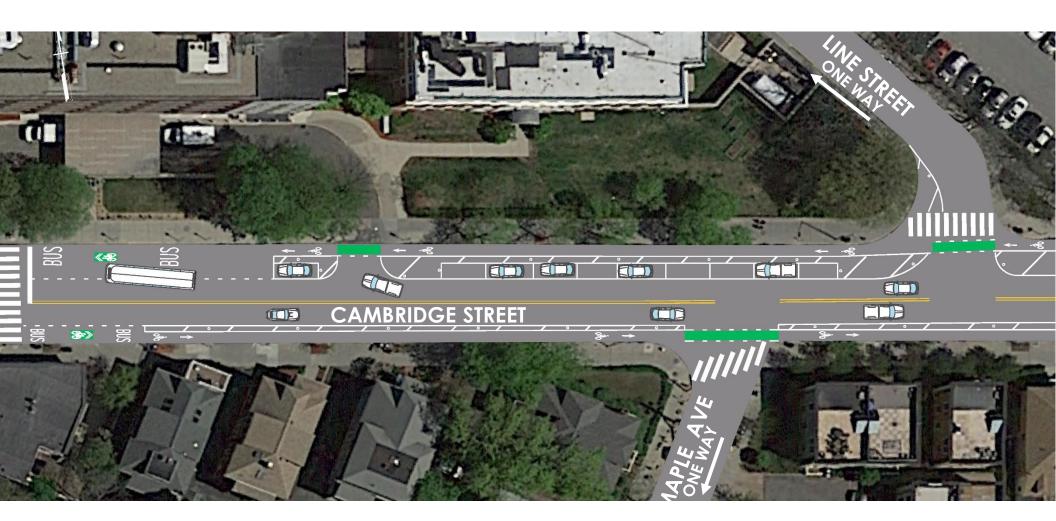


- √ 44' wide
- Separated bike lanes on both sides
- Parking on one side (could alternate)
- ✓ Bus stops remain
- Curb extensions remain

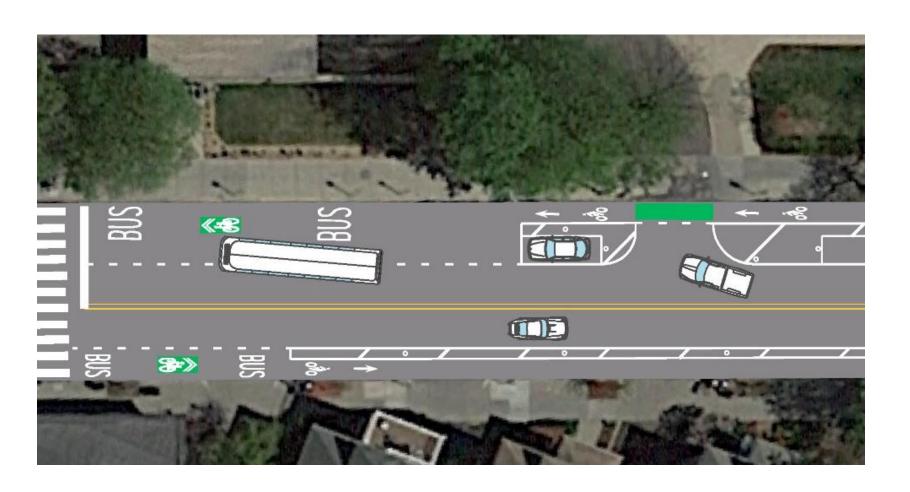
#### **Existing Condition**



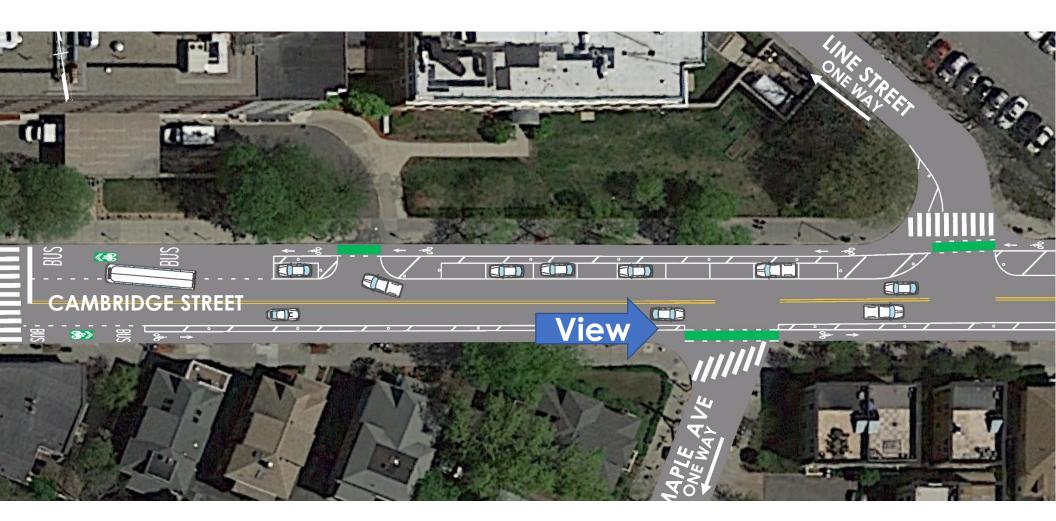
### **Proposed Design**



### **Bus Stops**



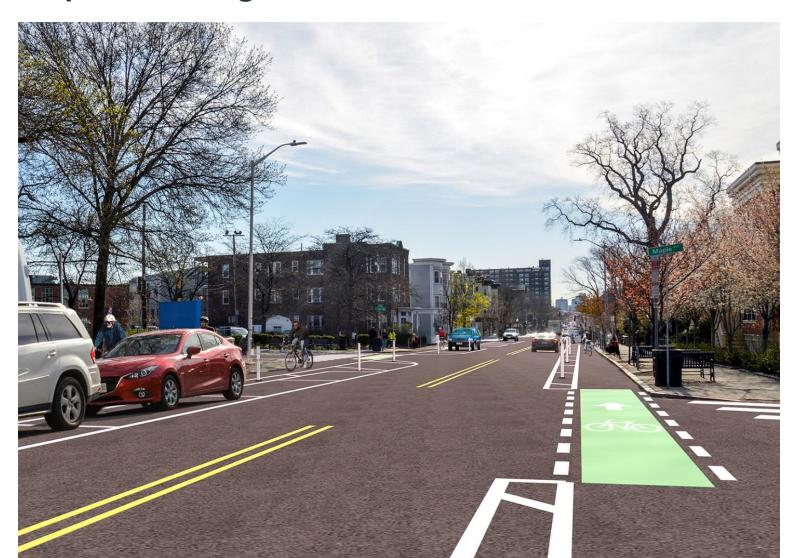
### **Proposed Design**



### **Existing Condition**

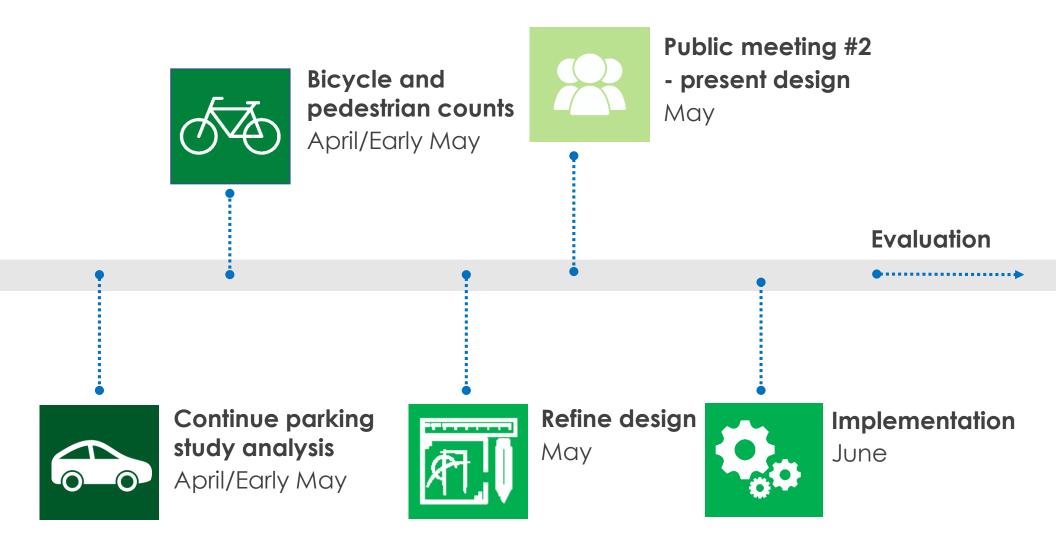


### **Proposed Design**



#### **NEXT STEPS**

### Schedule



# COMMENTS & QUESTIONS?







