

Chelsea Street Bridge

Voluntary Notification Program



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April 3, 2019

AGENDA

INTRODUCTIONS

USCG – Overview of Maritime Operations

**BRIEF SUMMARY OF PHASE I: Policy
Regulatory Review**

OPTIMIZED BRIDGE PERFORMANCE – D6

**PURPOSE & GOALS OF PHASE II: Implement
Volunteer Notification Program**

GOALS & EXPECTED OUTCOMES OF TRIAL PROGRAM

APPROACH TO ESTABLISH EXISTING CONDITIONS

- Data, MOEs, Sample Metrics & Communications

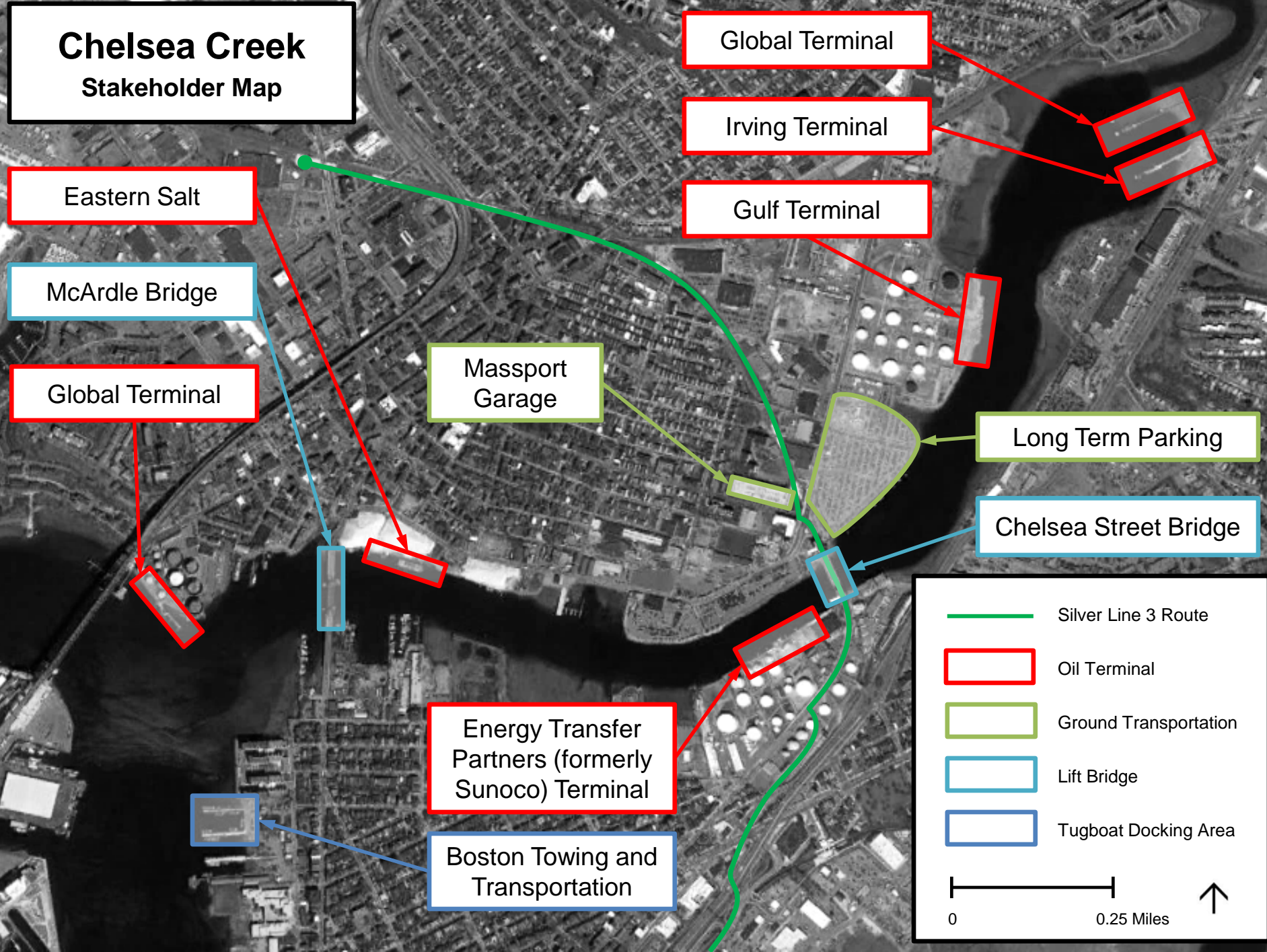
APPROACH TO IMPLEMENT NOTIFICATION PROGRAM

- Notification Intervals, SOPs, Communication methods, tracking

NEXT MEETING & PROPOSED SCHEDULE



Chelsea Creek Stakeholder Map



Legend

- Silver Line 3 Route
- Oil Terminal
- Ground Transportation
- Lift Bridge
- Tugboat Docking Area

0 0.25 Miles

↑

BRIEF SUMMARY OF PHASE I

- Better understand Port, Chelsea Bridge and land side operations
- Review of federal regulations and operational procedures on bridge lifts



BRIEF SUMMARY OF PHASE I: Consensus Reached On -

- MassDOT to advance a notification program
- ***No restrictions on bridge operations*** at this time, pending the outcomes of the pilot notification project
- ***No further consideration of capital improvements*** such as lighting, fendering, or Chelsea Creek widening/dredging during the notification trial with the exception of agencies continual efforts to advocate for dredging funding.
- ***Consider land side improvements***

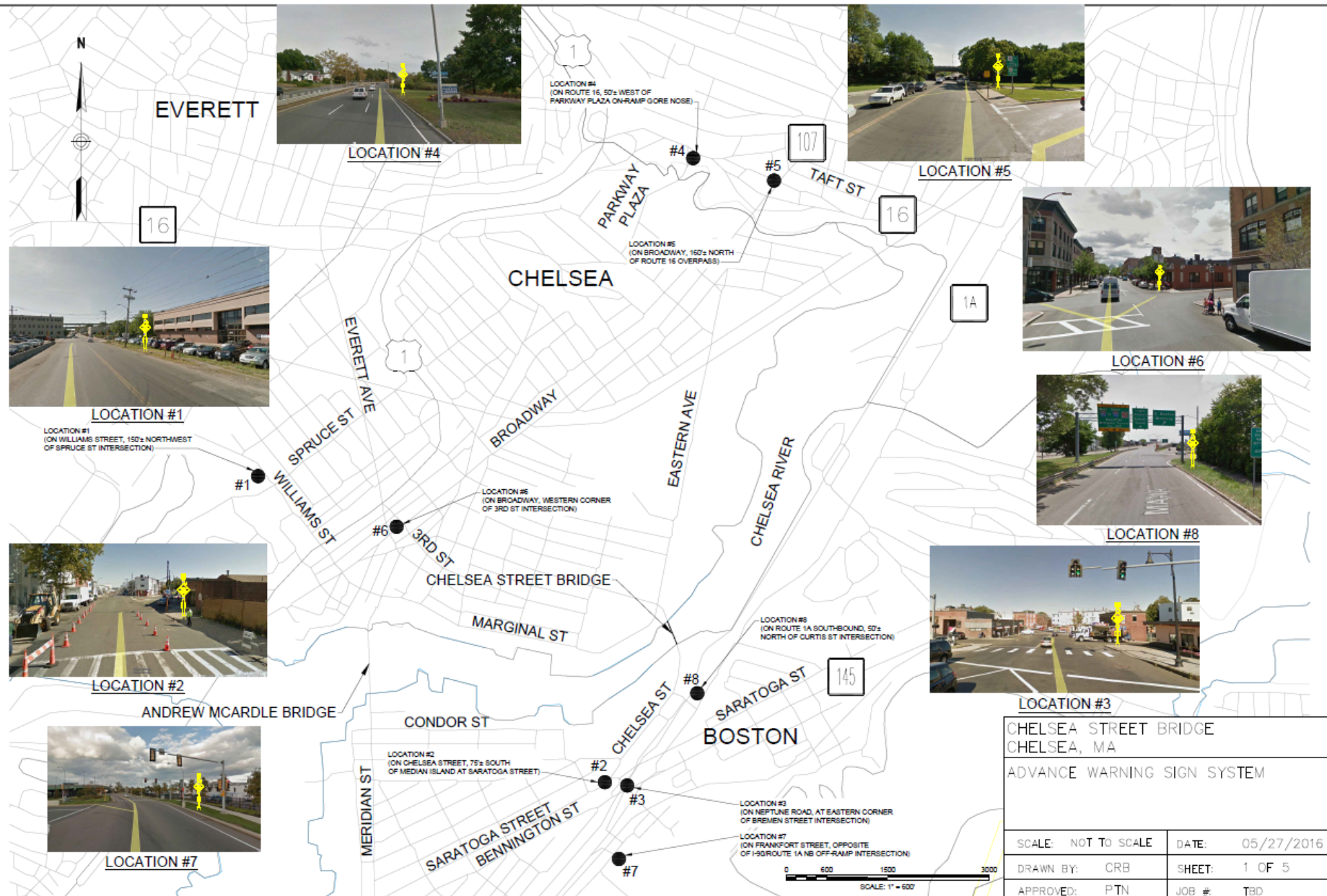
Implement a Trial Notification Program – develop scope, base data and standard operating procedures (SOPs) with stakeholders.

OPTIMIZING BRIDGE PERFORMANCE – District 6

- Engineering and Mechanical Review of Bridge Lifts
- Gates Options under Consideration
- Traffic Monitoring and Signal Enhancements
- Coordinated Variable Messaging through signals and boards



Traffic Sign Warning System



PURPOSE OF PHASE II: Implement Volunteer Notification Program

*Engage stakeholders to develop and implement a volunteer notification program to improve the **PREDICTABILITY** of the Chelsea Street Bridge Lifts and more efficiently manage disruptions to users without adversely impacting maritime operations*



GOALS OF PHASE II: Implement Volunteer Notification Program

- ❖ Advance knowledge of closures (notification and routing options)
- ❖ Effectively manage disruptions to travel for all users
- ❖ Improve real-time operational performance of operators (bridge, transit and waterway) to maximize economic opportunities and minimize delays
- ❖ Communicate in real-time information on bridge closures – when information is available



***It is Important to Note:
Bridge will continue to
open on demand as per
maritime rules.***

EXPECTED OUTCOMES OF TRIAL PROGRAM

- Obtain quality data to establish base line conditions for waterway and roadway operations – track for one month
- Using data to confirm optimal hourly notification period
- Develop *Measures Of Evaluation* (MOEs) that represent interests of users to improve operational performance and optimize access – against which the notification program can be evaluated.

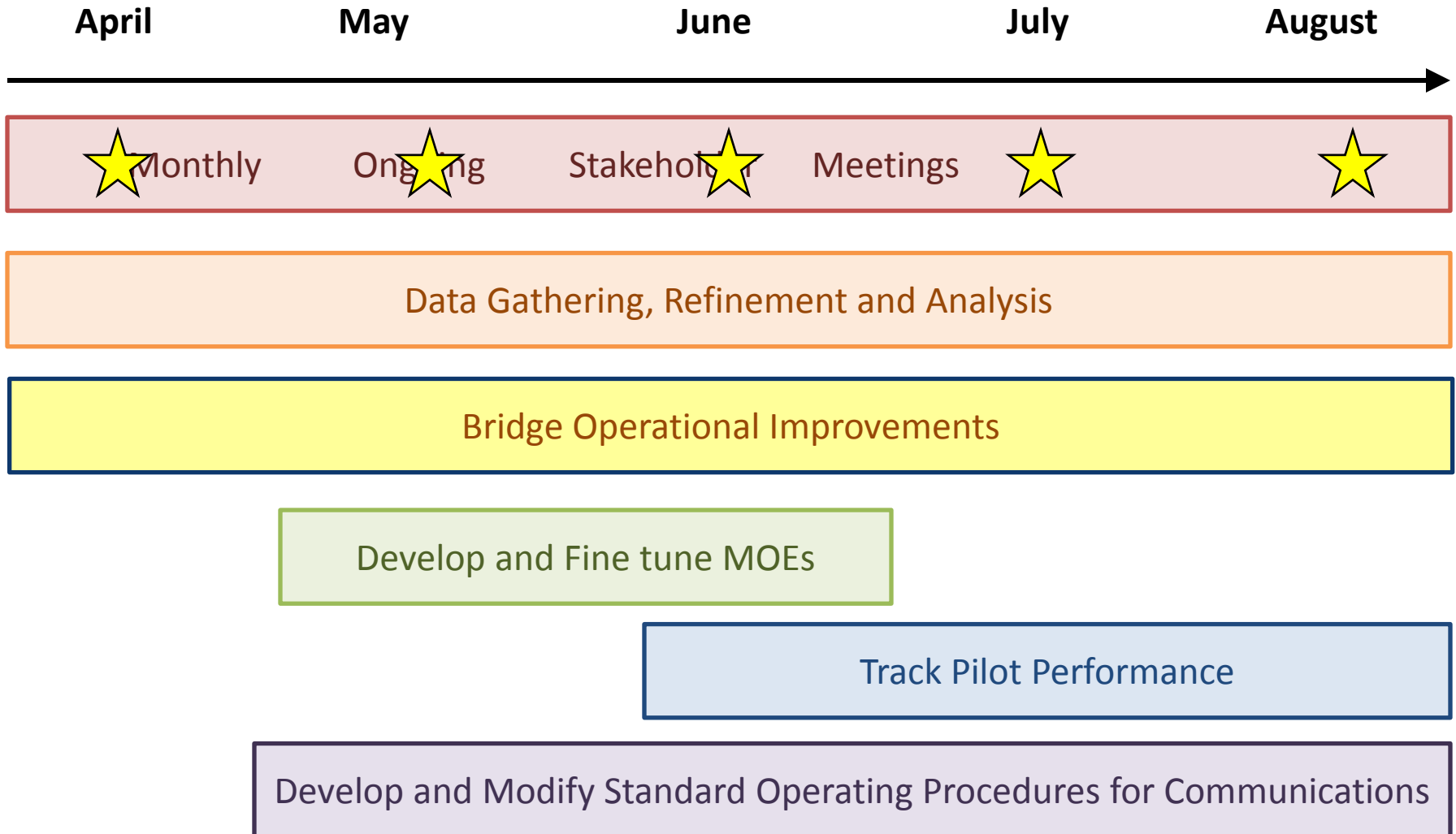


EXPECTED BENEFITS OF ADVANCED NOTIFICATION

- Enable people to make an alternative mode shift – for example from car to transit or transit to commuter rail
- Allow people and businesses to better plan and schedule trips, such as delayed travel or alternate routes
- Reduce frustration and improves traveler behavior as they can better plan a delay.



TRIAL NOTIFICATION SYSTEM TIMELINE



EXISTING CONDITIONS TRACKING



Target Date for
tracking Existing
Conditions is:
**Monday, May 6,
2019 – for one
month**

ESTABLISHING EXISTING CONDITIONS - Approach



- ***Collect data and track existing conditions*** to effectively measure performance of program that meets with user needs
- ***Develop Measures of Evaluation (MOEs)*** to track, monitor and evaluate existing conditions and the performance of the trial
- ***Model existing operator/agency communications*** and traffic management procedures

BASE LINE DATA SETS – Tracking, Monitoring & Evaluating Performance of Trail Program

Goal: Identify available data sources and future needs for performance tracking

Existing	Notification Trial	Future
Bridge Logs (Chelsea and McArdle)	Predicted Bridge Lifts	Automated Notification
Bridge Traffic Signals and Counters	Notifications Received	Streamlined Communication
VesselTracker. Com (arrivals and departures)	Customer Notified	Traffic Signal Enhancements
Silver Line On –Time Performance	Traveler Experience	Detour Routes
MPA Logan Airport Employee Shuttle Operations	Traffic Impacts – back up queues	Integrate and coordinate information network
<i>Do not have data from contractors or other vessel operators (20% of lifts)</i>		Social Media

Quality of data is critical to success of notification program

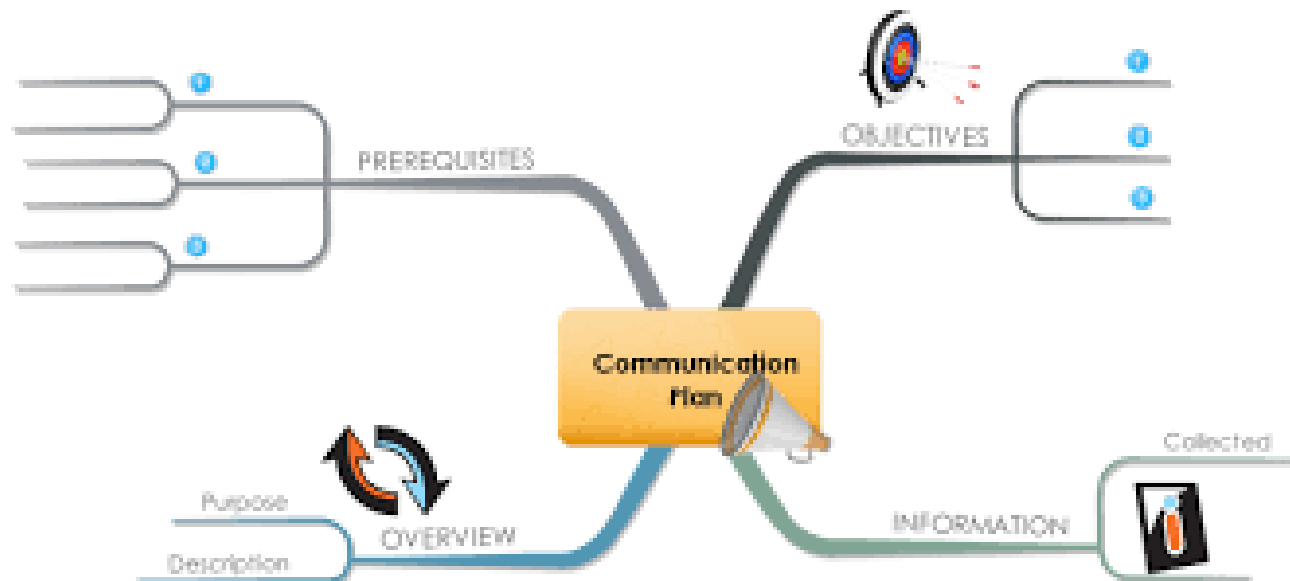
DEVELOPING THE NOTIFICATION PROGRAM

1. **Measure Performance & Outcomes of Existing Conditions** (MOEs) to refine data sets and determine trial parameters for notification times
2. Develop **Communications Network for Notifications** to Impacted agencies to effectively plan and manage operations and outreach to customers
3. Develop **Standard Operating Procedures (SOPs)** for waterway and roadway operators that details procedures, roles and responsibilities.

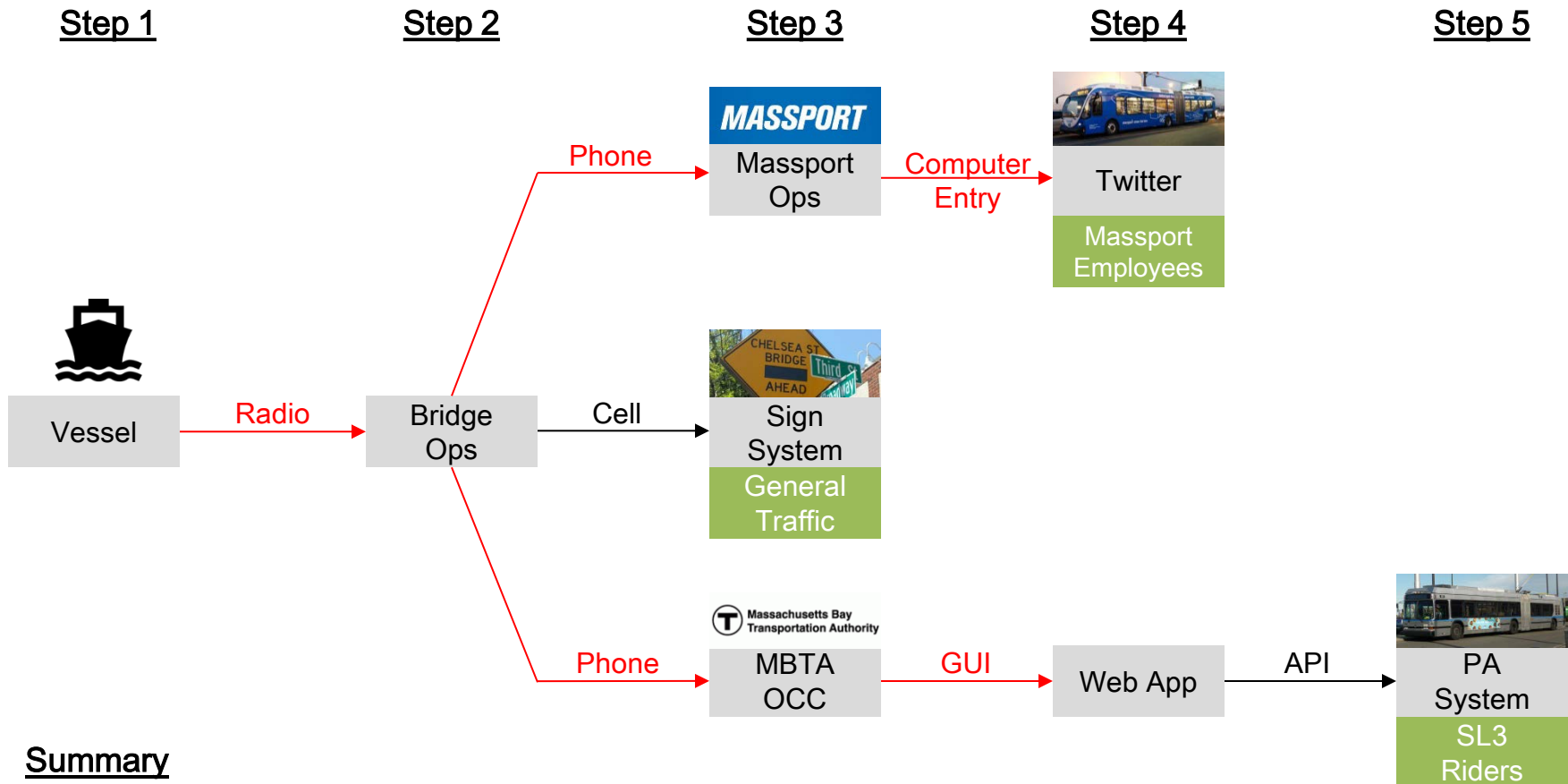


ESTABLISH BASE LINE COMMUNICATIONS

- Notification & Communications Mapping
 - MassDOT – Highway, Transit and MassPORT
 - Vessel Operators
 - Tug Operators
- Gap and Overlap Analysis
- Goal to Optimize and Simplify Communications System

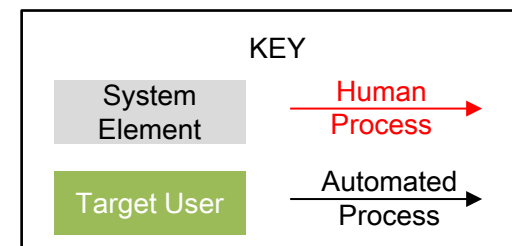


Existing Real-Time Communications Process

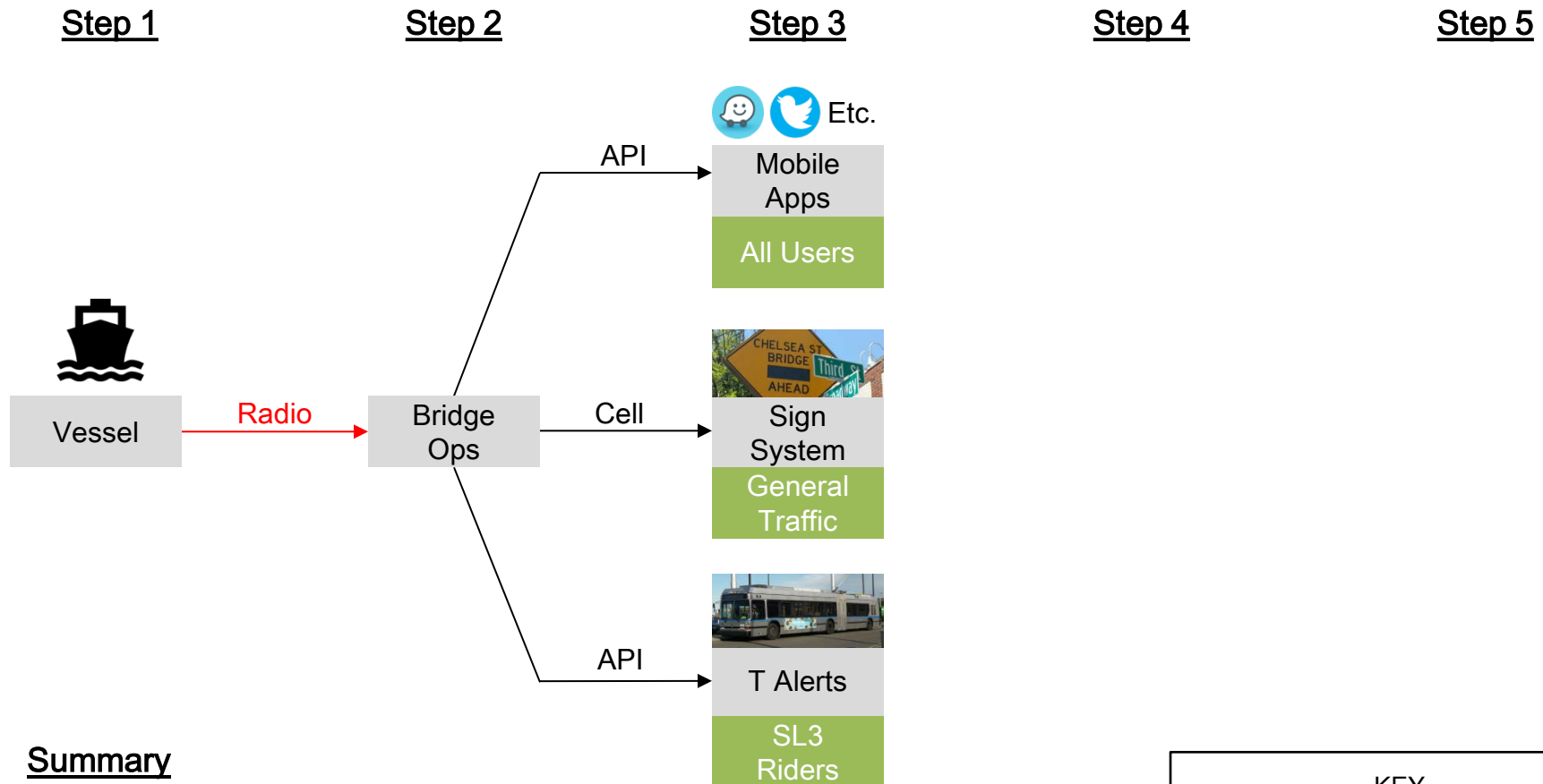


Summary

1. Many steps involved
2. Human processes introduce error
3. Varied reporting of the same information
4. Not all target users reached

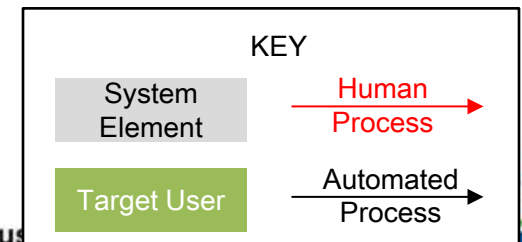


Simplified Real-Time Communication

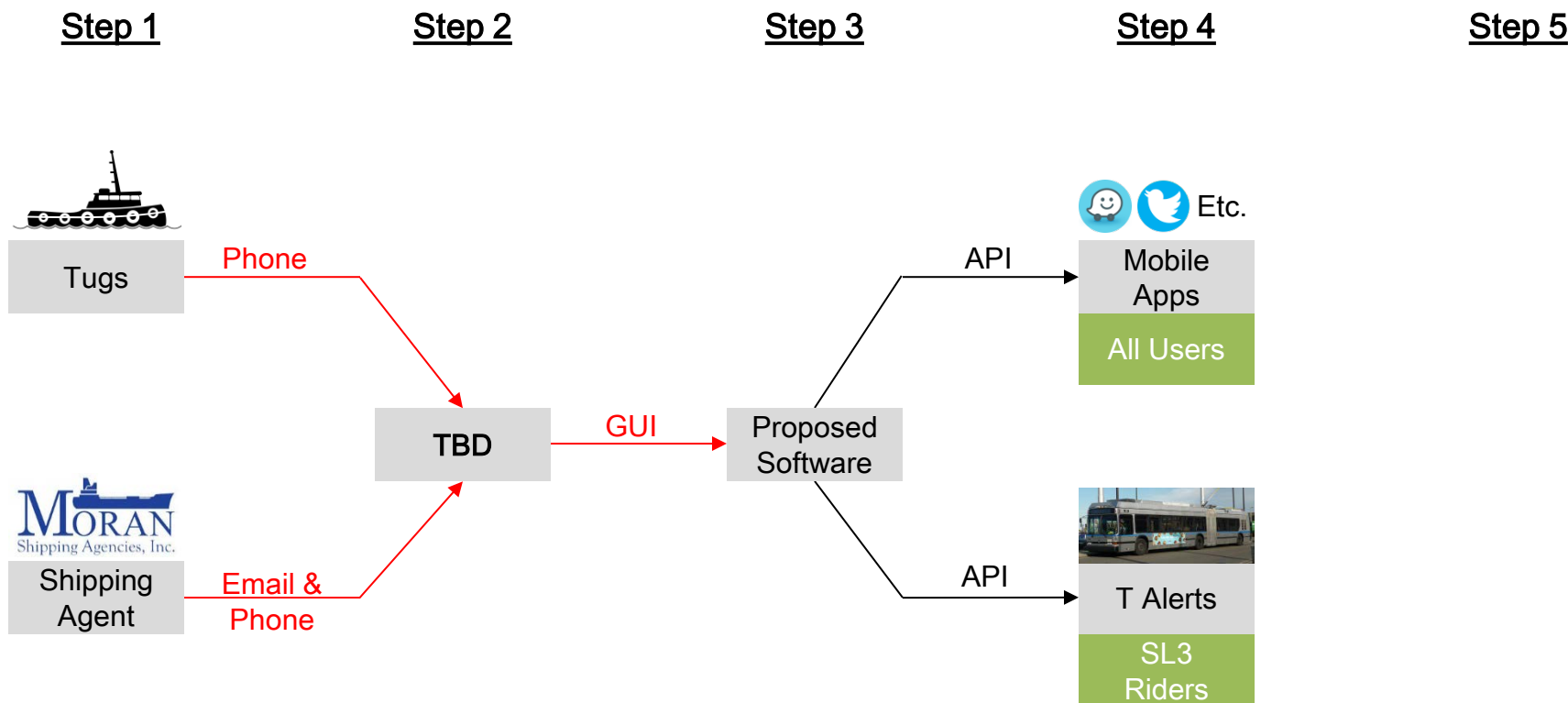


Summary

1. Reduced number of steps
2. Minimal human processes
3. Single point of information
4. All target users reached

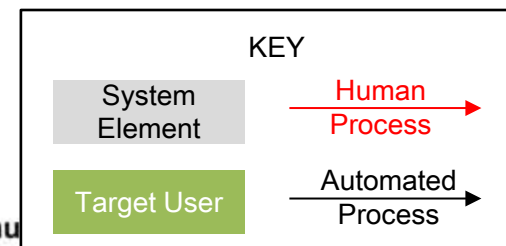


Optional 2-Hour Notification



Summary

1. Four-step process
2. Some human processes necessary
3. Same target users as on-demand system for consistent messaging
4. Need to determine “**TBD**” responsibilities

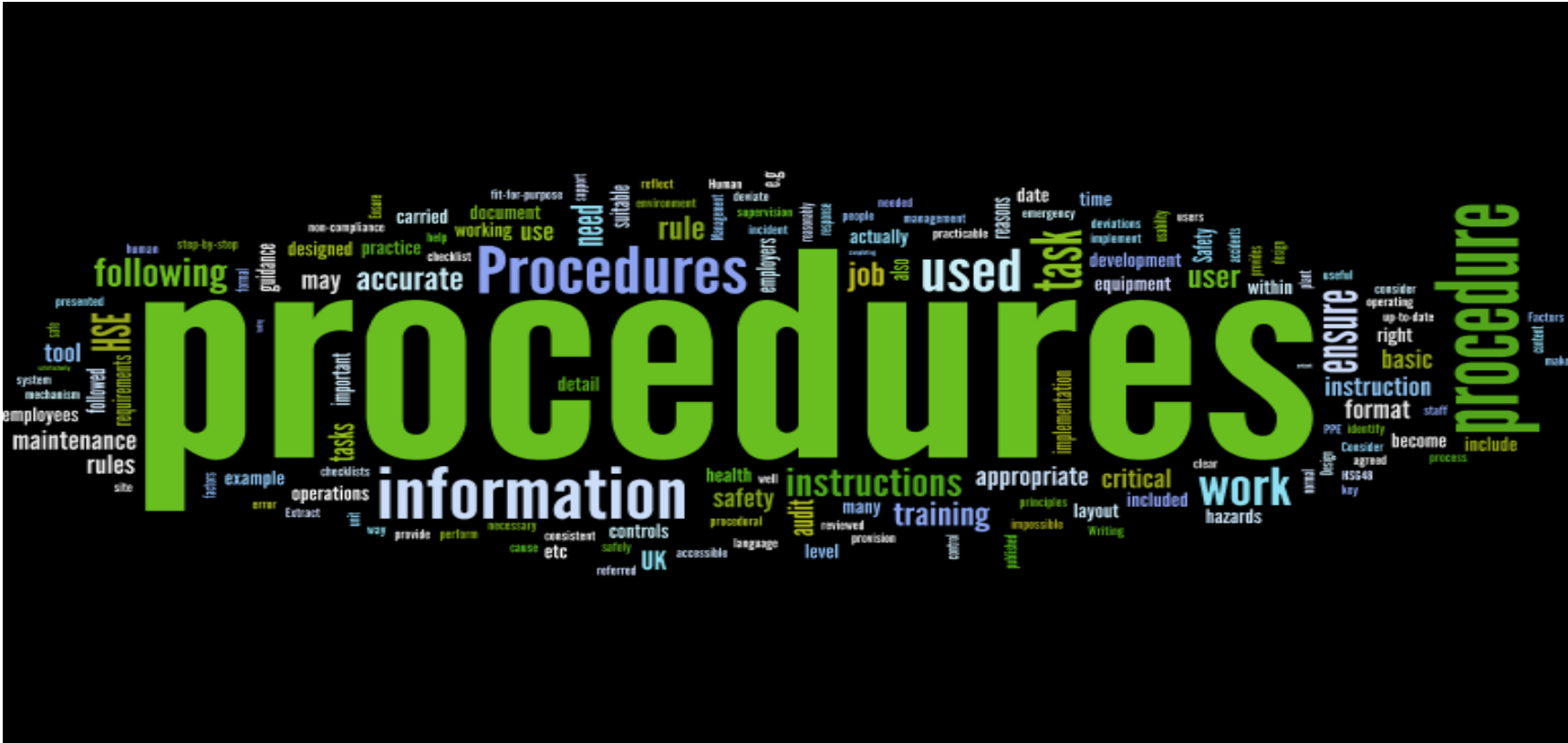


IMPLEMENTING THE NOTIFICATION PROGRAM

1. Coordinate Traffic Management Planning
2. Optimize and Simplify Communications
3. Monitor the Performance of the Program
4. Convene Monthly Stakeholder Meetings to refine metrics and adjust operations
5. Identify Other Improvements



DEVELOPING STANDARD OPERATING PROCEDURES (SOPs)



LAUNCH TRIAL PERIOD FOR NOTIFICATION PROGRAM



Target Date to launch the Trial Notification Program is:
Summer of 2019 – for two months

NEXT MEETING – AGENDA - MOEs

Purpose

Establish the Base MOEs to begin monitoring existing conditions and upon which the notification time period can be determined.

Agenda

- Update on Activity
- Response to Information requested
- Working Session
 - Review and Refine Goals / Problems / Objectives
- Break Out Groups by Goal
 - Refine Measures and evaluations

Time & Date & Location

April 17th @ 1:00 - Same Location (if available)

PROPOSED MEETING SCHEDULE – AGENDAS

- **April 3rd – Overview and Approach to Notification Trial**
- **April 17th – Measures of Evaluation**
- **May – Review of data – MOEs revisited & Process mapping for notifications and communication flow charts**
- **June – MOE tracking, process flow updates and standard operating procedure reviews**
- **Thereafter - Monthly Updates on improvement and MOEs TBA**

QUESTIONS & DISCUSSION

