

October 30, 2014



# Powell Street BART: From Drab to Fab



# What are Station Modernization Investments?



- Transformative improvements
- High level of investment
- Showcase to leverage future funding
- Comprehensive assessment of needs, with prioritized investments
- Short and long-term
- First out of the gate: 19<sup>th</sup>, EC Del Norte, Powell

# Station Modernization

September 16, 2014

—○— BART System

### Gateway

● Preliminary Engineering

○ Conceptual Design

○ Capacity Implementation Study

### Other

◇ Additional Projects



# Powell Goals + Objectives



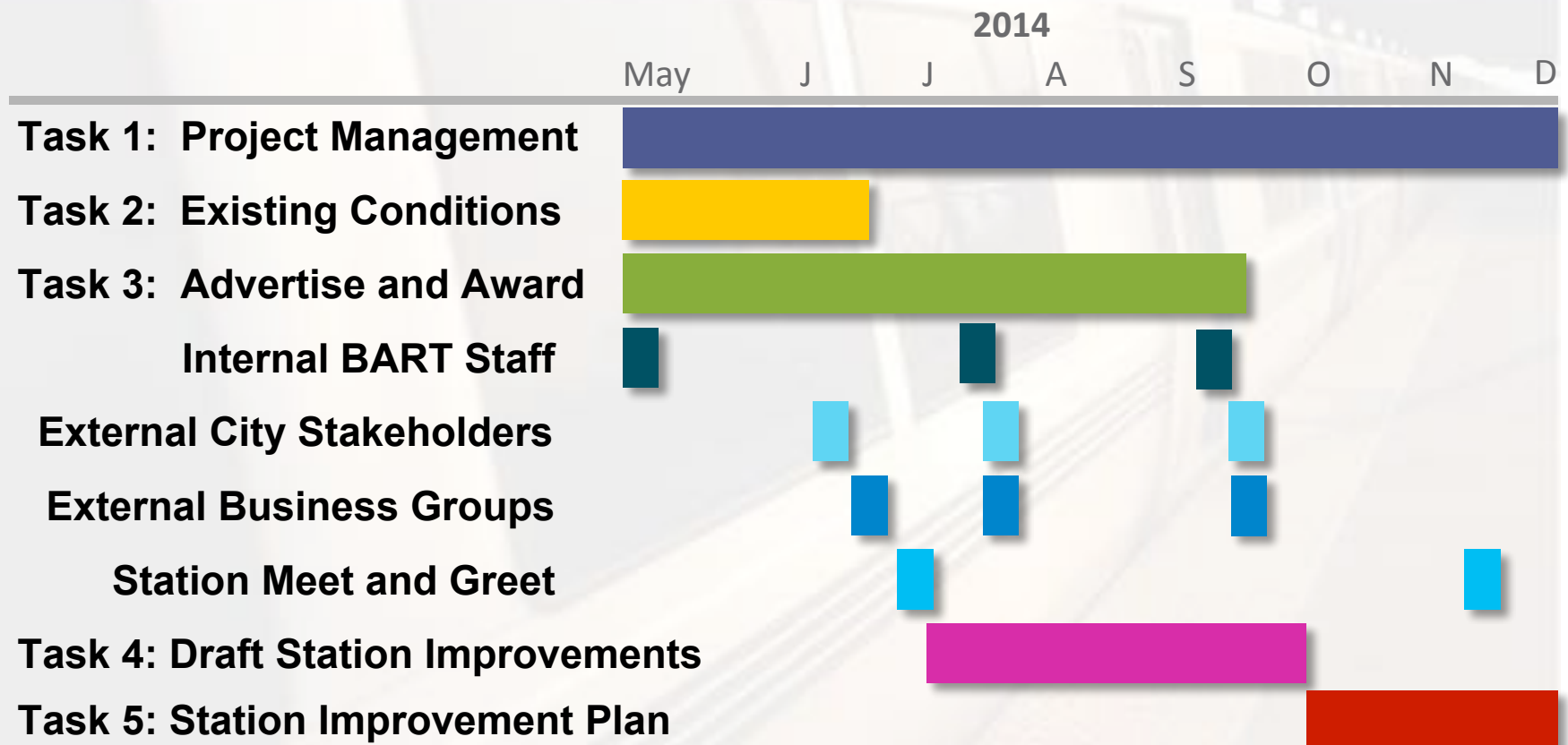
- Embrace as World Class/Gateway to San Francisco
- Modernize and Refresh
- Improve for continued and future operations
- Improve ease of use
- Implement placemaking and art installations
- Strengthen partnership, seek leveraging opportunities
- Incorporate sustainability

# Scope

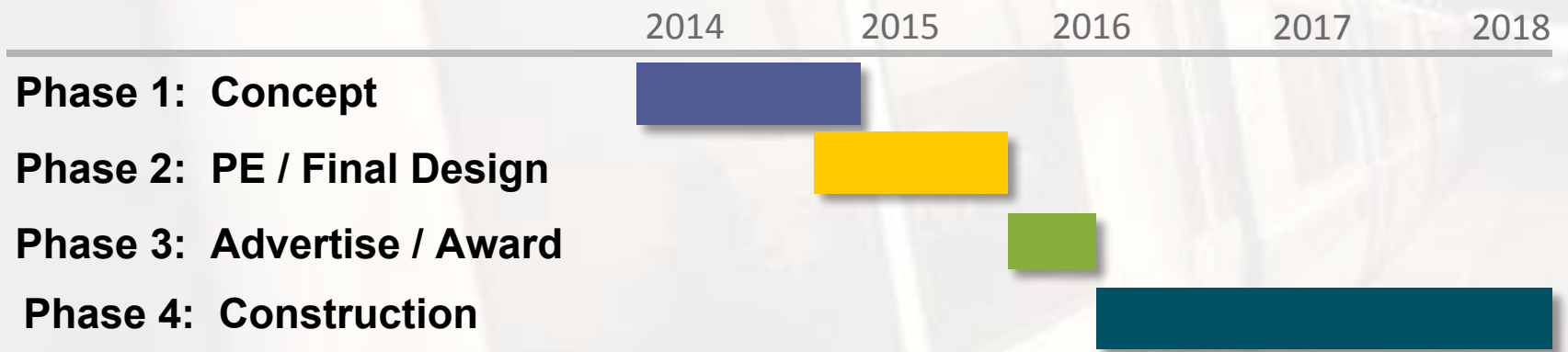


- Build on Powell Station Design Guidelines
- Layer analysis not in Design Guidelines (i.e. Central Corridor, Warriors Venue, Central Subway)
- Coordinate with other initiatives: Westfield, advertising, art, wayfinding, retail, ceiling + lighting plan, Station Brightening
- Develop phased conceptual station designs and layouts
- Develop preliminary cost estimates
- Prioritize short and long-term investments

# Project Schedule



# Implementation Schedule





# Design Guideline Focus Issues



1. Lighting
2. Circulation and Capacity
3. Acoustics
4. Station Communications
5. Health, Safety and Security
6. Ventilation
7. Space Planning (to be presented by Robin)



# Lighting



- Concourse is over-lit
- Platform is under-lit
- Significant wasted energy (50%+)

- Design light levels to reflect BART standards
- Design system to be adjusted over time



# Circulation and Capacity



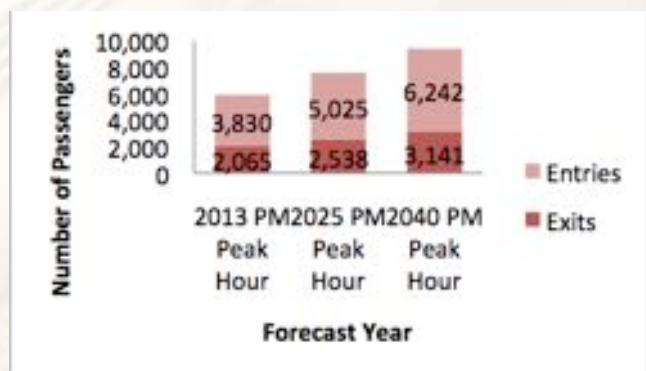
- Enough room to handle number of riders now
- Station currently meets standard for emergency evacuation

- In 2040, may need to add a new stairway to aid emergency egress
- Identify where new stairway could be located

### AM Peak Hour Forecasts



### PM Peak Hour Forecasts



# Acoustics



- Digital synthesized voice messages are intelligible
- Limited intelligibility during Muni pass-by, none during BART pass-by

- Improvements with best results from grinding the rails and new train cars
- Installing station sound absorbers





# Health, Safety and Security



Activity Support



Natural Surveillance



Natural Access Control



Territoriality



Maintenance

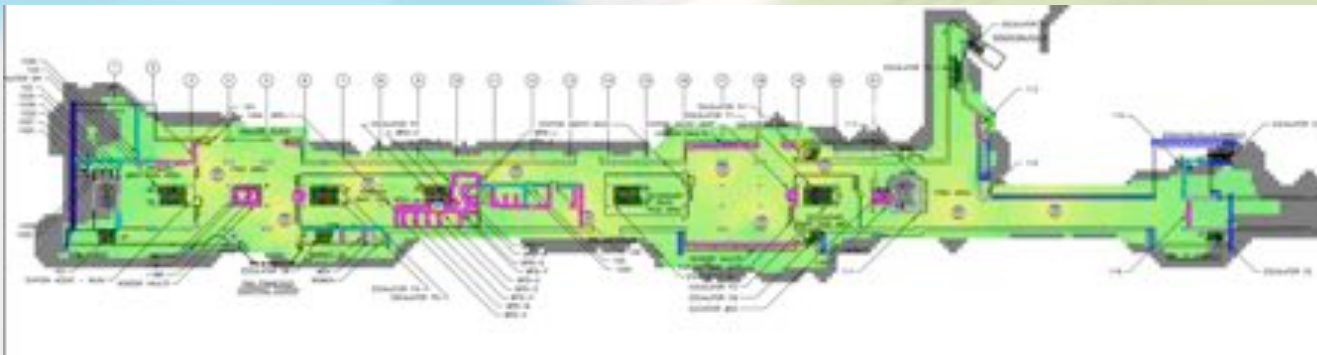


# Station Communications



- Improvements added on as-needed basis, creating systems built on top of each other
- Lack of good wi-fi coverage

- More wi-fi access points needed
- Update IT systems on a coordinated schedule

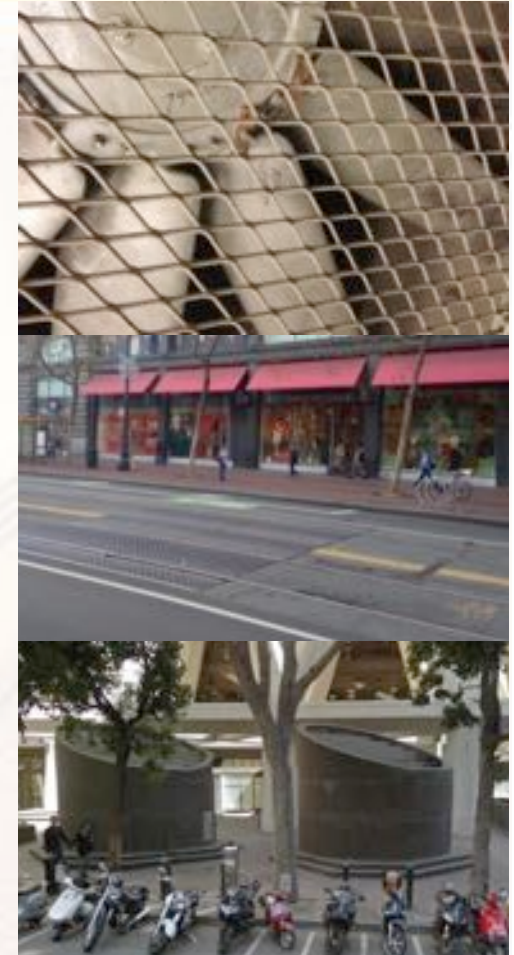


# Ventilation



- Existing system deactivated in 1980's
- Train piston effect keeps platform at temperatures within SES boundaries

- System reactivation would require extensive work and maintenance
- Study feasibility of installing a new system







# Stakeholder + Public Consultation



# Public Engagement to Date



- Engagement with City, community based organizations, business community and BART customers
- 1<sup>st</sup> round of In-station Open House events in June/July 2014
  - 1,762 online and in-person survey responses
- Most important: Safety + security, cleanliness + upkeep, lighting upgrade, elevator + escalator performances

# Next Steps



- Complete ventilation and space planning analyses
- Complete prioritization of draft project list
- Hold next round of outreach in November to present Draft Concept Plan
  - Wednesday, November 12<sup>th</sup> from 7 – 10 am
  - Thursday, November 13<sup>th</sup> from 4 – 7 pm
  - Complete Plan and advance priority investments into Design/Construction