

Past, Present and Future Design-Build Projects

Presented by

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Transit Project Delivery

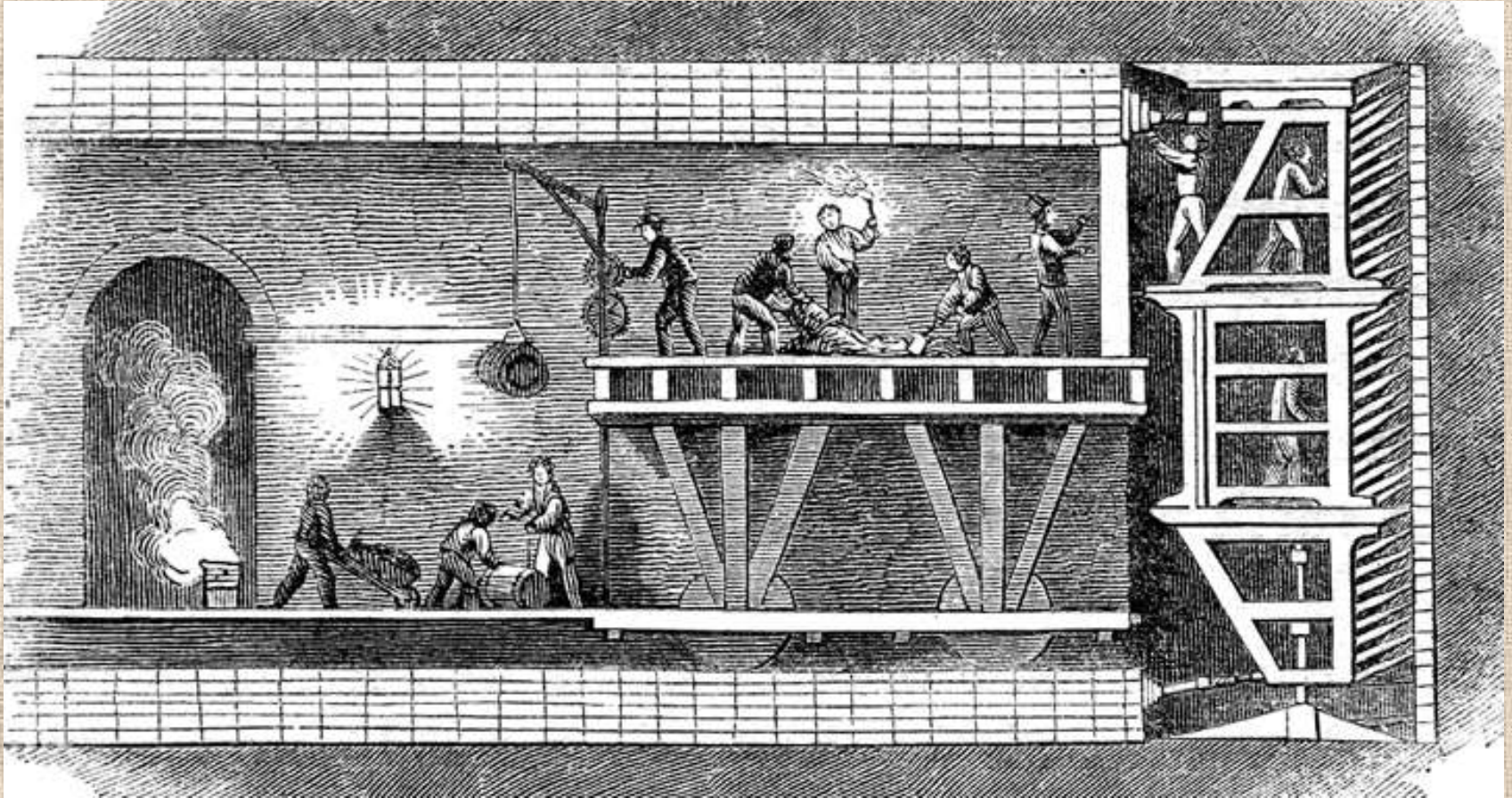
Los Angeles County Metropolitan Transportation Authority

April 20, 2012



Early Alternate Delivery Method Project

Thames Tunnel – East London



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Early Design Build Transit Project

Docklands Light Railway, London

Tunnels and Bank Station (TABS) Contract

- Late 1980's
- Connects Canary Wharf development to City of London
- Fast Track project
- Early DB contract model



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Project Delivery Method

Metro considers the following factors in determining the project delivery method:

- **Project duration**
- **Budget**
- **Project complexity**
- **Level of design completed**
- **Value engineering opportunities**
- **Integration of design and construction activities**
- **Risk**
- **Staff expertise**



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LACMTA View of Design/Build

- **Mature Agency**
- **Established Criteria & Standards**
- **Rail transit projects are extensions**
- **Agency experienced in:**
 - **Geology**
 - **System requirements**
 - **Operational requirements**
- **Risk evaluations:**
 - **Assessment**
 - **Avoidance**
 - **Sharing**



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DB Contracts – Lessons Learned

- **People**
- **Project Management Approach and Agency Organization**
- **Budget**
- **Intergovernmental and Third Party Agreements**
- **Real Estate**



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DB Contracts – Lessons Learned

- **Utilities**
- **Geotechnical Issues**
- **Hazardous Materials**
- **Systems Engineering**
- **Integrating and Commissioning**



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DB Contracts – Lessons Learned

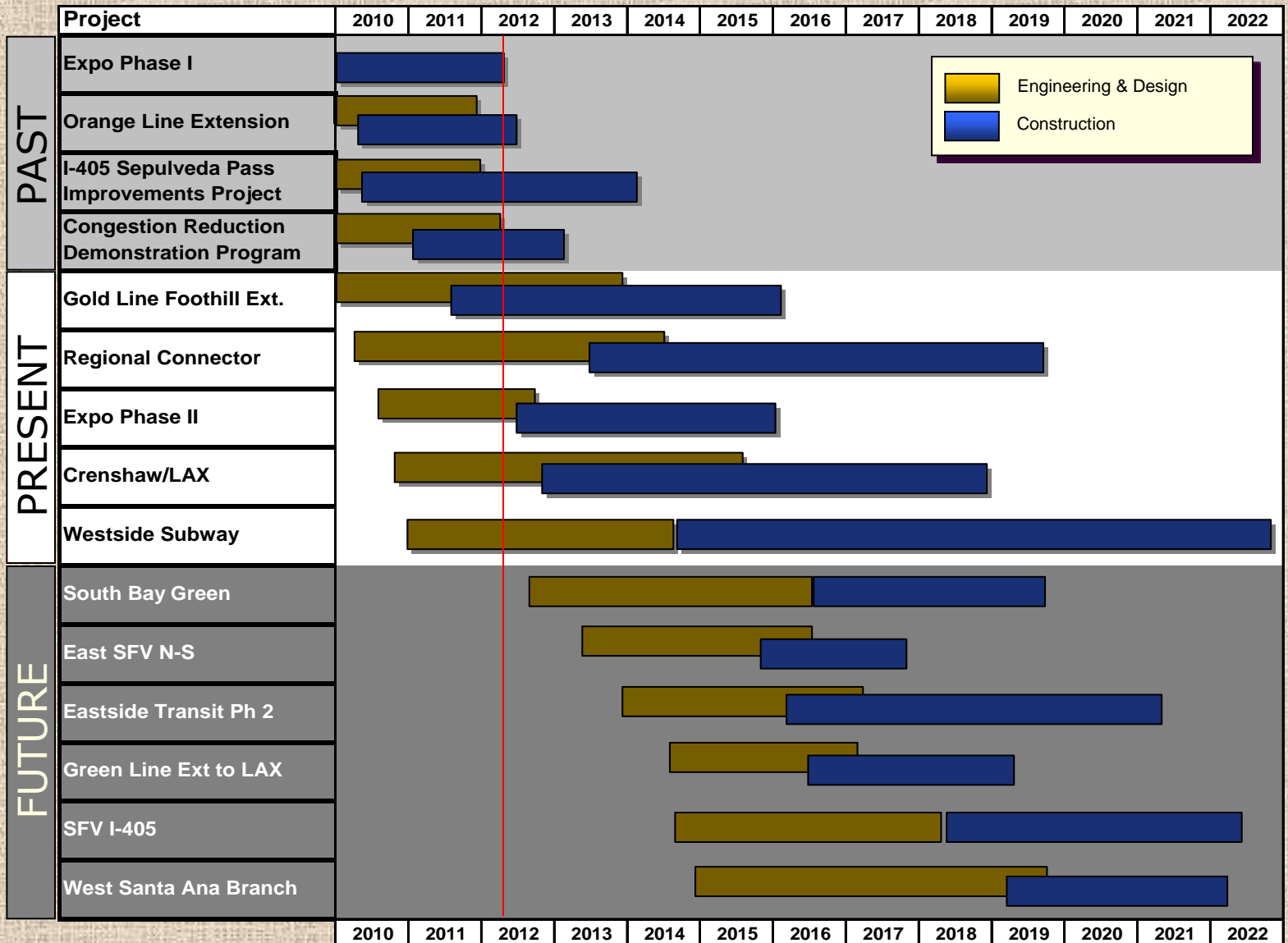
- **Public Information**
- **Quality**
- **Procurement**
- **Processes**
- **Specifications**



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Schedule of Major Transit Capital Projects



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Transit Projects

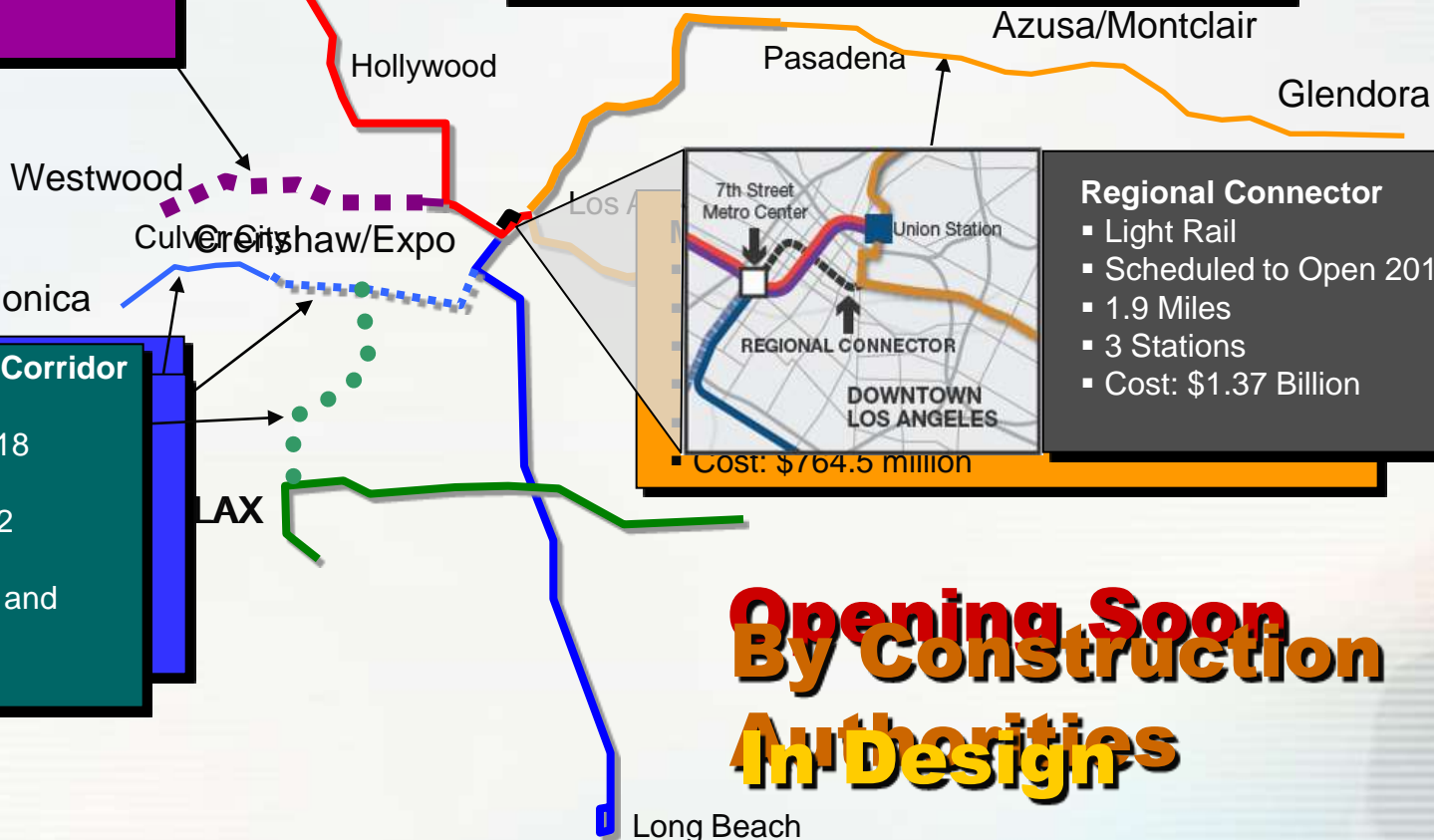
Chatsworth

Westside Subway Extension

- Heavy Rail - Subway
- Scheduled to Open 2022
- 8.9 Miles
- 7 Stations
- Cost: \$5.34 billion

Metro Orange Line – Canoga Extension

- Rapid Busway
- Scheduled to Open Summer 2012
- 4 Miles
- 4 Stations
- Cost: \$180 million (about \$36 mil. under budget)



Crenshaw/LAX Transit Corridor

- Light Rail
- Scheduled to Open 2018
- 8.5 Miles
- 6 Stations (options for 2 additional stations)
- At grade, underground and aerial segments
- Cost: \$1.75 billion

Regional Connector

- Light Rail
- Scheduled to Open 2019
- 1.9 Miles
- 3 Stations
- Cost: \$1.37 Billion



Opening Soon
By Construction
Authorities
In Design



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Questions and Answers



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