

Addressing Colorado's Major Mobility Issues

Colorado Department of Transportation High Performance Transportation Enterprise



INNOVATIVE ERA OF TRANSPORTATION



• Innovative era of CHOICE

How you get from point A to B

 Innovative era of FUNDING

How you pay for transportation

 Innovative era of PARTNERSHIPS

How a project gets built



OLD versus NEW TRANSPORTATION



OLD

- Build roadways for cars and trucks
- Add lanes when congested



NEW

- Increase choice in travel (transit, carpool, single occupant)
- Increase mobility through operational improvements
- Use pricing on new express lanes to manage travel reliability and growth
- Promote options for walking & biking



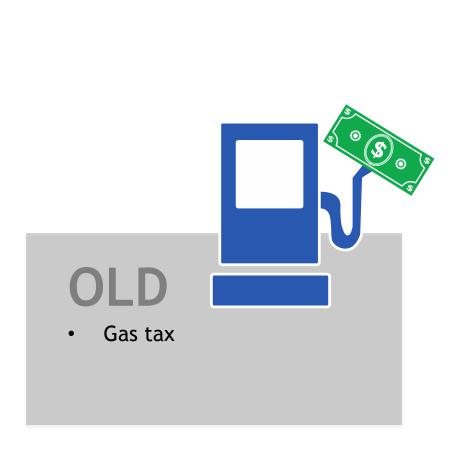
CHOICE NEW CDOT STRATEGY

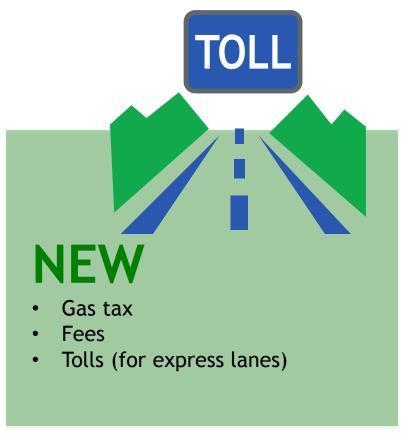
EXPRESS LXNES

- Reduce delay on most seriously congested corridors
- Use toll pricing to manage congestion
- Maintain reliable travel times now and in the future
- Promote transit and carpooling (where viable)



OLD versus NEW FUNDING







OLD versus NEW PROJECT DELIVERY



OLD

- Secure funding from state or feds (supported by gas tax)
- Design project
- Select low bid or best value
- Build



NEW

- Strategies for limited funds
 - Design Bid Build, Design Build, CMGC
- Public Private Partnership (P3) Partner may finance, design, build, operate and maintain in return for:
 - Toll revenue OR -
 - Annual performance payments
- Secure long-term performance guarantees for fixed price
- P3 not a solution for every corridor



OLD versus NEW PARTNERSHIPS



 CDOT planned with partners, secured funding and delivered



NEW

- Multi-lateral partnerships engaging:
 - Local governments, planning entities,
 RTD, state, federal, TIFIA, P3, etc. to
 make it work
 - Planning, financing and delivering
 - Example U.S. 36



CDOT'S APPROACH



Launch RAMP (Responsible Acceleration of Maintenance and Partnerships)
Short-term to accelerate major corridors and other projects around state



CDOT's Office of Major Project Development (OMPD) oversees corridors



Work with HPTE, innovative financing arm, to determine viability of P3 for corridors
Working on initial Traffic & Revenue studies and Value for Money reports on each corridor



HOW DO WE DECIDE?





- Available funding
- Level of design
- Lowest bid
- Best value (scope)
- Need for innovation in design and construction



NEW

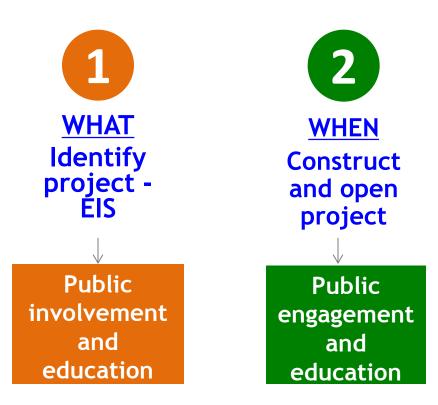
Old requirements plus more

- Evaluate risks and value of transfer
 - Toll revenue risk
 - Long-term annual maintenance risk
 - Long-term reconstruction risk (capital maintenance)
 - Long-term operations risk





PUBLIC ENGAGEMENT

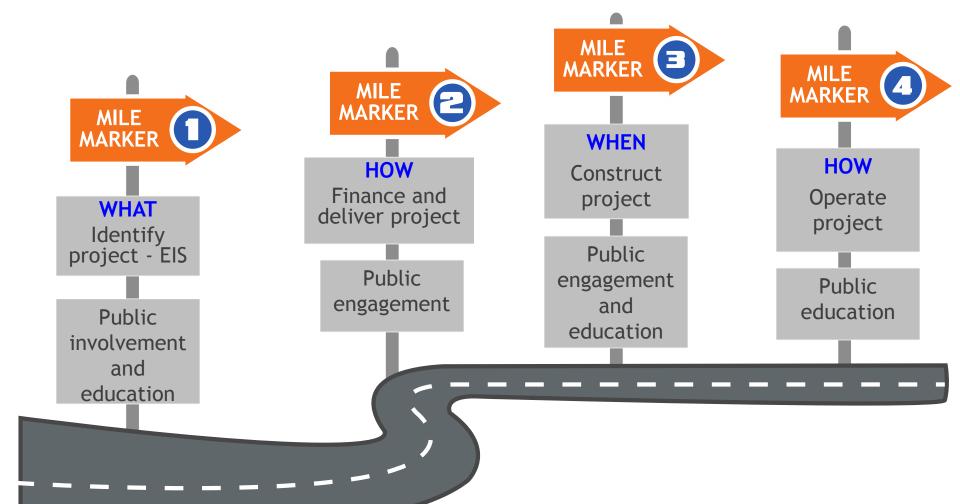


Public involvement = Iterative outreach to develop plans based on public input and feedback Public engagement = Outreach to explain and gather feedback Public education = Outreach to inform and educate public





PUBLIC ENGAGEMENT





COLORADO'S EXPRESS LANE CORRIDORS

C-470 I-70 WEST NORTH I-25 I-70 EAST



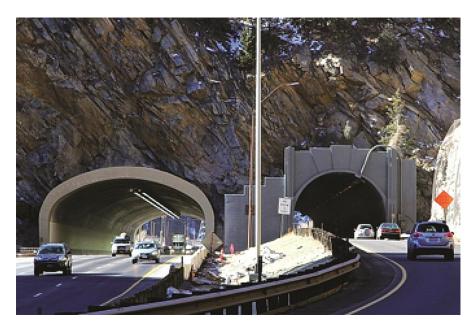
- Corridor Needs: \$400 million
- Proposed Project Cost: \$230 million
- RAMP: \$100 million
- Work: Adds new tolled Express Lanes, improves general purpose lanes from I-25 to Wadsworth
- Benefits:
 - Mobility: Reduces travel time 20 minutes in express lanes in 2016 and up to 70 minutes by 2035
 - Economic: Provides access for I-70 corridor tourism. Is crucial link for commuters to and from downtown
 Denver and for businesses along I-25
- Choice





I-70 WEST

- Corridor Needs: \$11 billion
- Construction Activities: Eastbound Peak Period Shoulder Lanes (PPSL) and Westbound Twin Tunnel expansion
- RAMP: \$20 million (eastbound PPSL),
 \$55 million (westbound Twin Tunnel)
- Benefits:
 - Mobility: Reduces travel time 30 minutes (EB PPSL), westbound Twin Tunnel paves way for future PPSL
 - Economic: Provides access for I-70 corridor tourism, supports significant economic commercial vehicle traffic
- Choice





NORTH I-25

Corridor Needs: \$1 billion

U.S. 36 to 120th Ave.

- Project Cost: \$66 million
- Work: Adds new tolled Express Lane each direction from U.S. 36 to 120th Ave.
- Benefits:
 - Mobility: Reduces travel time 22% in express lanes, 10% in general purpose lanes
 - Economic: Supports continued economic growth along corridor
- Other:
 - Not part of U.S. 36 concessionaire agreement
 - Connects to existing I-25 Express
 Lanes
- Choice

120th Ave. to E-470/SH 7

- Total Cost: \$55 million
- RAMP: \$55 million
- Work: Adds new tolled Express Lane each direction I-25 from 120th Avenue to E-470/SH 7
- Benefits:
 - Mobility: Reduces travel time 25% in express lanes, 12% in general purpose lanes
 - Economic: Supports continued economic growth along corridor
- Other:
 - Connects to previous project and I-25 Express Lanes
- Choice



I-70 EAST

- Corridor Needs: \$1.8 billion (phased project)
- Work: Reconstructs a 50-year old stretch of interstate. EIS proposes adding two tolled express lanes each direction from I-25 to Tower Road
- Travel-time benefits in 2035 over "No Action" between I-25 & Tower Rd:
 - Express Lanes: 17 minutes compared to 60 minutes
 - General Purpose Lanes: 35 minutes compared to 60 minutes





I-70 EAST Phase I

- First phase—\$1.05B
 - Remove viaduct between Brighton and Colorado Blvd; reconstruct as a lowered highway with a cover
 - Potential to extend managed lanes further east to optimize connectivity (funding dependent)
- Will require multiple funding sources; including:
 - Bridge Enterprise
 - SB 228
 - DRCOG





Addressing Colorado's Major Mobility Issues High Performance Transportation Enterprise



WHAT IS HPTE?

- High Performance Transportation Enterprise pursues innovative means of more efficiently financing important transportation projects
- Partner + Innovate + Accelerate
- Innovative means of financing projects include, but are not limited to:
 - Public-private partnerships
 - Operating concession agreements
 - User fee-based project financing
 - Annual performance payment agreements
- HPTE operates as a government-owned business within CDOT







PARTNERSHIPS COLORADO STRATEGY



Pursue innovative financing that:

- Advances funding, scope or schedule for needed corridors
- Guarantees performance of high levels of service and maintenance
- Retains state ownership of transportation assets
- Is transparent to the public



Public Private PARTNERSHIPS



P3 BENEFITS:

- Accelerated construction schedules, increased scope
- Reduced risk for taxpayers
- Private sector investment over "whole life cycle" of infrastructure upgrades
- Long-term performance requirements



CORRIDORS



- Examine cost (construction + lifecycle) data, potential revenues
- Provide matrix of risks and identify best value
- Consider what possible risks to transfer:
 - Toll revenues?
 - Long-term annual and capital maintenance costs?
 - Ongoing operations?
 - Innovation of design, construction schedule and scope potential?

Stakeholder/Public ENGAGEMENT PROCESS

VISION - Should we go P3?

Review of Value for Money report (type of P3, risk sharing, value to taxpayers)

PRE-RFQ - What kind of partner do we want?

Review of final decision and elements of a Request for Qualifications for partners

PRE-RFP & SELECTION – What is the proposed partnership?

Review elements of Request for Proposals and possible partners

PRE-CLOSE - What is the deal?

Summary of contract elements, protections for state & public, performance standards





C-470 CONSIDERATIONS

EXPRESS C LINES 470

- Level 2 Traffic & Revenue Study finalized June 2014
- Preliminary results: Project could generate enough revenue to borrow \$100 Million. Further analysis is necessary.
- Value for Money Analysis to start Summer 2014
 - Initial assessments indicate Design-Build likely
- Public Town Hall (vision outreach) in early Autumn 2014



I-70 WEST CONSIDERATIONS

EXPRESS 1-70 L/NES WEST

- Level 1 Traffic & Revenue Study in process
 - Looking at a range of alternatives including:
 - Two/Three Lane Reversible
 - Peak Period Shoulder Lane (east and westbound)
 - Working through CSS process to evaluate whether any options move forward for additional analysis
- Moving forward
 - Exploring ideas to leverage eastbound PPSL revenues to fund a westbound PPSL project



NORTH I-25 CONSIDERATIONS

EXPRESS 1-25 LXNES NORTH

- Level 1 Traffic & Revenue Study completed in 2013
 - Conducted meetings with P3 industry
 - Initial assessments indicate North I-25 preferred alternative is not feasible at this time for P3
- Moving forward with projects to 120th and from 120th to E-470/SH 7
 - Wait for toll revenues to "season" before re-evaluating financing alternatives for corridor



I-70 EAST CONSIDERATIONS

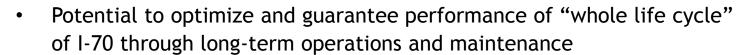
EXPRESS 1-70 LINES EAST

- Value for Money Analysis (VFM) completed 2013
- VFM considered three different P3 models
 - Toll Risk
 - Annual Performance Payments
 - Design, Build, Finance
- Projected toll revenue does not generate sufficient revenues to cover capital costs
 - Express lane tolls will be used to manage traffic
 - Need to look for financial partnerships with local governments
- Annual performance payment model currently being considered

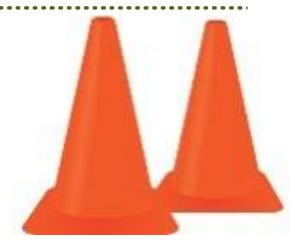


I-70 EAST CONSIDERATIONS

- P3 option builds on Design-Build or CMGC benefits through:
 - Potential for innovation, cost and time savings
 - Construction duration
 - Assured program delivery

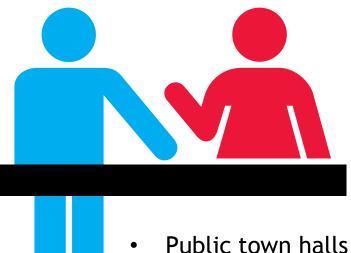


- Spreads the financial risks and obligations over a greater period
- Could impact how concessionaire builds project
- Transfers risk and provides performance guarantees for roadway where state might not be able to (i.e. major rehab)





I-70 EAST NEXT STEPS



- Public town halls (vision outreach): July 2014
- Transportation Commission P3 action in July 2014
- Supplemental Draft Environmental Impact Statement Public Hearing: Fall 2014



Questions?