





Purpose of the Project

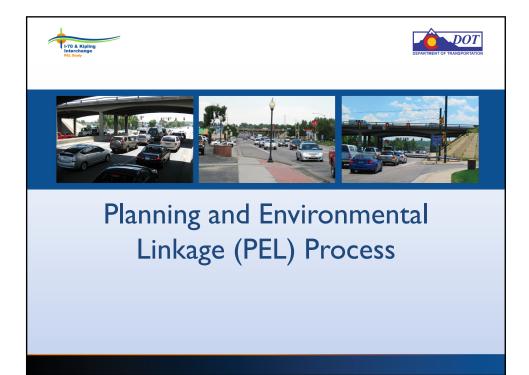
• The purpose of the I-70 and Kipling Street interchange project is to reduce congestion, optimize operations, improve safety, and accommodate multimodal connections at the I-70 and Kipling Street interchange.





Definition of the Problem

- Improvements are needed to:
 - Meet current and future traffic demands
 - Improve operational efficiency of the interchange
 - Improve traveler safety through the interchange
 - Accommodate multimodal connections







What is a PEL Study?

 An approach to transportation decisionmaking that considers environmental, community, and economic goals early in the planning stage





What is a PEL Study?

- Documentation and public and stakeholder outreach will be carried through project development, design, and construction
- Elements carried forward into NEPA:
 - Purpose and Need
 - Alternatives Evaluation
 - Early Community and Resource Agency Involvement
 - Public Outreach





Why do a PEL Study?

- This approach:
 - Minimizes duplication of effort
 - Promotes efficient and cost-effective solutions and environmental stewardship
 - Reduces delays in project implementation





Study Key Elements

- Identify the long-term interchange vision
 - Purpose and Need May 2012
- Narrow range of alternatives before NEPA
 - Level 1 Screening July 2012
 - Level 2 Screening November 2012
- Complete community and resource agency involvement
 - Resource agencies April 2012
 - Community Focus Groups August & November 2012
- Conduct public outreach
 - Public Meeting #1 April 2012
 - Public Meeting #2 December 2012











Alternatives Evaluation





Alternatives Evaluation Process

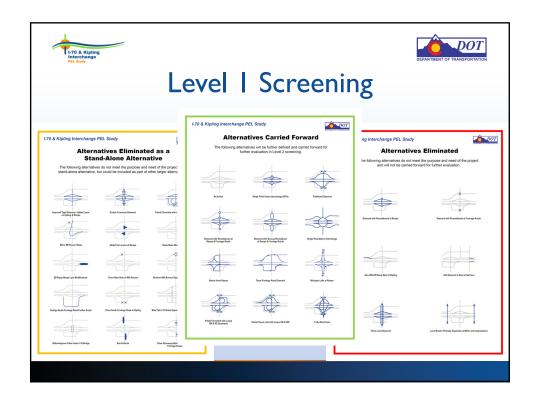
- Level 1 screening (June July 2012)
 - Evaluate each alternative against Purpose & Need
- Level 2 screening (Aug. Nov. 2012)
 - Comparative evaluation based on how well each alternative addresses detailed criteria
- Level 3 screening (Nov. 2012 Jan. 2013)
 - Refine remaining alternatives to make study recommendations





Level I Screening

- 6 alternatives eliminated
- 12 alternatives carried forward (including No Action)
- 15 options carried forward as elements of alternatives







Level 2 Screening

- 16 alternatives evaluated (including No Action)
- 11 alternatives eliminated





Level 2 Screening - Eliminated

- Diamond with Roundabouts at Ramps & Frontage Roads
- Diamond with Six-Leg Roundabout at Ramps & Frontage Roads
- Fully Directional Interchange
- Partial Cloverleaf with Loops SW & NW Quadrants
- Texas Frontage Road Diamond





Level 2 Screening - Eliminated

- Michigan Lefts for Ramps
- Single Roundabout Interchange
- Loop SW Quadrant & Improved WB Ramps
- Improved Tight Diamond with SB to EB Flyover
- Double Crossover Diamond Interchange
- Button Hook Ramps South & Improved WB Ramps





Level 2 Screening – Carried Forward

- No Action
 - Poor traffic operations and increasing safety issues due to additional congestion by 2035
 - Minimal accommodation of multimodal connections
 - Further analysis required for comparison







Level 2 Screening - Carried Forward

- Single Point Urban Interchange (SPUI)
 - Improved vehicular operations with minor community and ROW impacts and direct multimodal connections through the interchange
 - Typical urban interchange layout with no change to current frontage road access
 - Difficult construction impacts and limited opportunities to construct in phases







Level 2 Screening - Carried Forward

- Partial Cloverleaf with Loops SW & NE Quadrants
 - Improved vehicular operations and safety with direct multimodal connections through interchange area, although free flow ramp crossings for pedestrians and bicyclists
 - Moderate community and ROW impacts, but limited to two quadrants of the interchange
 - Moderate cost and opportunities to construct in phases

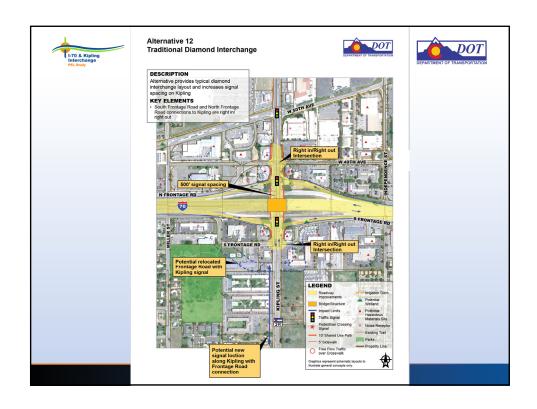






Level 2 Screening - Carried Forward

- Traditional Diamond Interchange
 - Improved vehicular operations and safety with typical urban interchange layout and direct multimodal connections through the interchange
 - Potential impacts to area business access with limited frontage road access
 - Opportunities to construct in phases with minor ROW impacts







Level 2 Screening – Carried Forward

- Button Hook Ramps
 - Improved vehicular operations with full access between ramps and frontage road
 - Moderate community and ROW impacts, but limited to two quadrants of the interchange
 - Moderate cost and opportunities to construct in phases









Next Steps

- Community Focus Group meetings (mid Nov.)
 - Homeowners, business and multimodal group representatives
- Public Meeting #2 (Dec. 4th)
 - Obtain feedback on alternatives screening results
- Preliminary recommendations (Jan. 2013)
 - Alternatives refinement
- Study Report/recommendations (Mar. 2013)

