80/94 FlexRoad: INDOT's First PEL Study



ROAD SCHOOL 2022



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What is PEL?

Planning and Environment Linkages

It's a federally recognized, pro-active first Step of a larger process and approach



It's the Blending of Planning and NEPA



It brings more voices into the planning process



It captures the value of the investment within the planning process





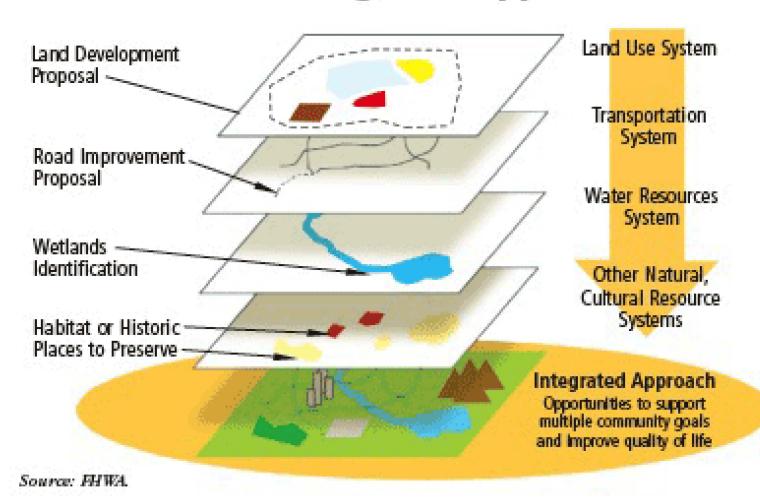


The PEL Approach

Is Not... is... Simple to Set up A NEPA Replacement Public & Stakeholder Engagement Identifying the NEPA Equivalent that Preferred Alternative Reduces Rework Extra Requirement Fewer Alternatives to Evaluate in NEPA *NEPA timelines for EAs and EISs can be reduced to meet CEQ regulations.



PEL's Integrated Approach



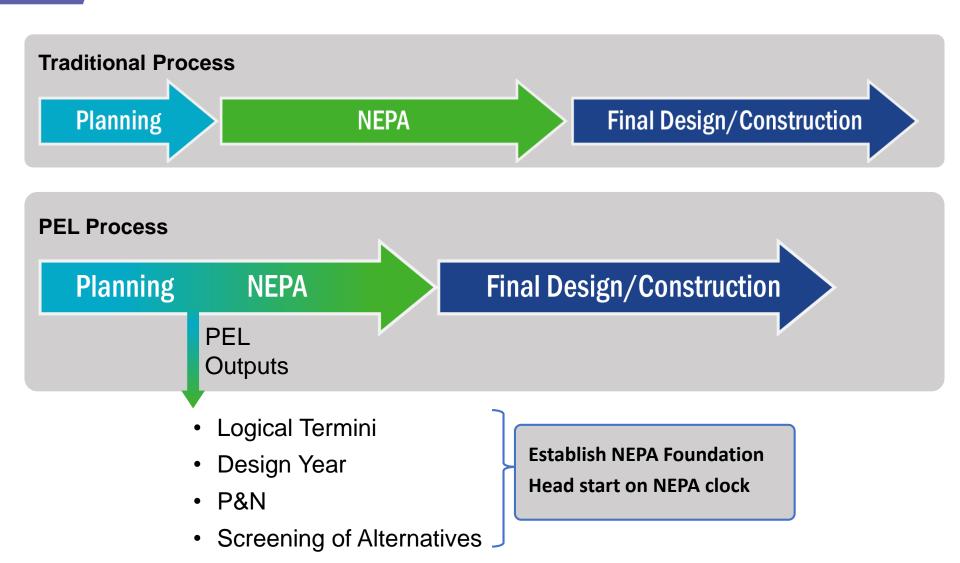






- Agencies are informed and involved early to resolve differences and minimize conflicts with resource agencies
- Environmental analyses are conducted early to identify and weed out potential fatal flaws or issues (e.g. hazard mitigation...not resolvable)
- Enhanced public and stakeholder understanding of the project development process and more involvement
- Faster project development process and few issues on the back-end

Blending Planning and NEPA



PEL Origins

(Psst: It's not new)

Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)

"Vital Few" goal to reduce median EIS time to 3 years

2008 FHWA PEL Program Initiation

2016 • "Final Rule": 23 CFR 450.212







GENERAL CHALLENGES WITH PEL

- Lack of training and exposure.
- Getting everyone onboard
- When should you do PEL? How early is early?
- •It is a study, NOT a project!
- The process is not firm in Indiana. We are still learning.
- •Considering upfront resources.
 Attention is needed for early coordination.
- Documentation of planning actions in a form that can be utilized in a NEPA document may seem like too much!



INDOT's approach to PEL

Peer Exchange

PEL Implementation Plan

National Highway Institute Course





INDOT's approach to PEL

- PEL Committee
 - Technical Planning and Programming
 - Environmental Services
 - Traffic Engineering
- PEL Project Evaluation
- Definition of Study Goals, Scope, and Outcomes





Project evaluation criteria



Large geographic scale and/or regionally significant proposal could result in multiple programmable projects with independent utility and logical termini



Known or anticipated public controversy about scope, need, purpose, and/or potential alternatives



Complex community impacts or complex environmental constraints



Need and purpose is unclear, unstable, or requires additional definition



Too many possible alternatives for an efficient NEPA process



High cost and/or construction funding not programmed





Even with a lot of initial work, NEPA process will not meet EA (1 year) or EIS (2 year) time limits



Indiana PEL Studies



80/94 FlexRoad



Greater Northern Lafayette Connectivity Study

INDOT and Tippecanoe County Area Plan Commission



US 30/31 Corridor

- 180 miles
- Multiple PEL Studies





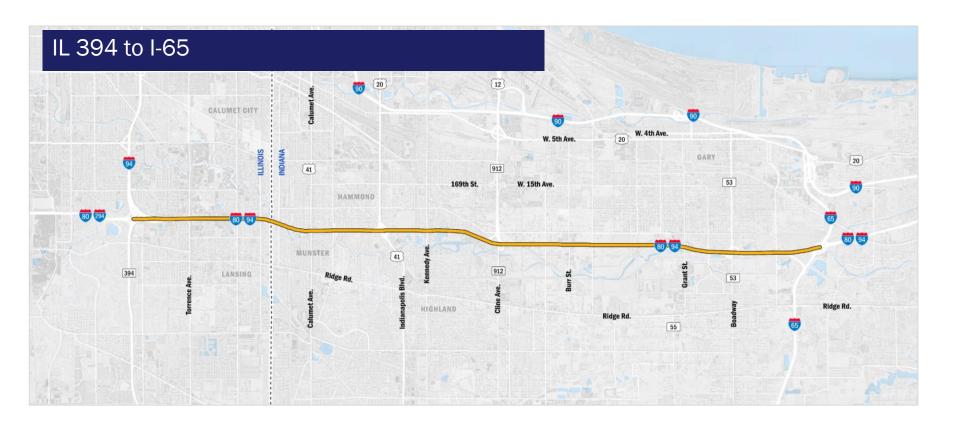
I-80/94 BORMAN EXPRESSWAY

Transportation Systems Management and Operations (TSMO)





The Borman Expressway



The Borman Expressway



What is TSMO?

Transportation Systems Management and Operations

- A set of strategies that focus on operational improvement
- Get the most out of the existing transportation facilities.
- Real-Time Monitoring and Response
- Flexibility: Demand-Responsive Roadways





WHY PEL ON THIS PROJECT

- Manageable scope for a pilot project
- Wide range of potential solutions
- Uncertain funding needs





- Termini
- Design year
- P&N
- Screening of alternatives/
 Defining NEPA alternatives

OUTREACH

- Public outreach
 - Community Advisory Committee (3)
 - Public Open Houses (2)
- Agency coordination
 - Resource Agency Committee (3)
- Website/Social





CHALLENGES

- Being first
- Public outreach in a pandemic
- Public interest in this project
- Bi-state project
- Non-traditional "Alternatives"



ALTERNATIVES

 Dozens of TSMO Strategies

 Initial High-Level Assessment

Screened out strategiesI that were:

Not applicable

Not feasible

Didn't meet purpose and need

Integrated Corridor Co

Management (ICM)

Connected and

Autonomous Vehicle (CAV)

Transit Signal

Freight

Priority

Management

Transit

Tolling



Alternatives

ALTERNATIVE 1

Base Package

- Dynamic Shoulder Lanes
- Event Management
- Broadway

 Interchange and I 65
 Interchange
 Modifications
- Signing Enhancements

ALTERNATIVE 2

Base Package



Ramp Metering

ALTERNATIVE 3

Base Package



Mainline Safety

- Variable Speed Limits
- Dynamic Lane Control
- Queue Warning

ALTERNATIVE 4

Base Package

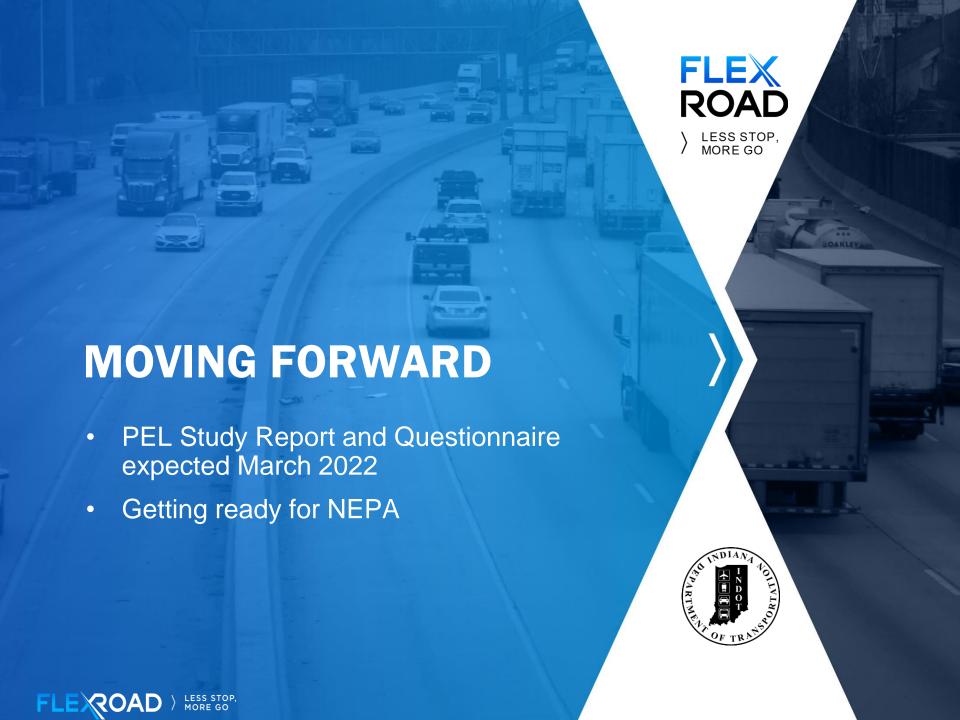


Ramp Metering



Mainline Safety





What We've Learned So Far

Looks and feels like NEPA

Communication is critical

Making intentions clear

- Terminology: Study vs. project
- What's the final product?
- Materials and public notice





Future of PEL in Indiana





