Managing Iowa’s Interstate Needs through 2040
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Initiatives
- Performance Based Design
- Traffic System Maintenance and Operations
- Asset Management
- Project Management

Project Management
- On Time
- On Budget

But What Is The Budget?

Planning Efforts Highlight that Transportation Needs Exceed Funding

I-80 PEL Study
- Addresses funding options and viability

Rural areas of I-80 Yellow bar area = 2018 to 2033

With the option of tolling eliminated, the PEL concludes:
Based on current funding limitations, these assumptions are likely untenable in the long term
Interstate Plan Proposed

How Do We Ensure Progress?

Rehabilitation Needs vs. Capacity Needs

The intent is to contrast the timing of the rehabilitation needs against the timing of the capacity needs.

And prevent this?

What Is The Budget?

Available funding must play a role

Workshop Held To Address the Problem

• About 70 participants
• 2 days of intense problem solving
• Planning, Design, Pavements, Structures, Safety, Traffic Management, Public Involvement, Data Analytics, Technology, Maintenance, Estimating, Programming, Construction
• 1,296 years of experience

The Budget

• For purposes of the workshop, we needed to assume a maximum budget

Workshop Flow

• The workshop focused comprehensively on the system
• The group was divided into 8 multidisciplinary tables
• Each table was assigned segments of the system and asked to make recommendations
Data for Workshop

Traffic forecast, safety, and SLRTP info

Pavement condition and treatment recommendations

Bridge condition and treatment recommendations

Recommendations

- **Stewardship** - All of the participants recommended that the focus should be on preservation treatments to keep the system in its current state of good repair
  - $80m of pavement stewardship was included each year
- **Widening Options** - Many segments of I-80 have significant pavement life remaining, so expansion in those areas will first consider widening the existing pavement rather than a complete rebuild
  - This requires us to hold to a schedule
- **Don't Add Capacity** - Some areas previously studied for expansion were not prioritized to be completed by 2040
- **Delay with Technology** - Expansion projects in urban corridors will be limited and focus on technology solutions and other management strategies

Expectations vs Reality

**Expectations:**
- We define the problem
- We give information
- We brainstorm
- We propose solutions
- We reiterate
- We solve the problem

**Reality** 😳
Where We The Workshop Ended

After the Workshop

• QC of the concepts
• Refine cost estimates
• Additional reductions in the scope of work for projects
• Delayed projects until they matched the funding available

The Next Steps

What do you do next?

Get as much into your cart as you can!
This Fits With Our Other Goals

- **Performance Based Design**
  - System thinking rather than project thinking
  - Reducing low impact upgrades on one project will allow us to get more miles addressed to achieve the high value upgrades

- **TSMO**
  - Which is more valuable traffic management or geometric improvements?
  - Does our process reflect this?

- **Asset Management**
  - It doesn’t make the brochures, so how do we emphasize it?

Implementation

- Distributed **VERY** tight budgets across the projects. Ask project teams to suggest ways to reduce costs and request additional budget if necessary
- Meet with Bureau and District Engineers to:
  - Review the additional budget requests
  - Prioritize and schedule projects currently shown in 2031-2037
- Report updated schedule and priorities back to project teams
- Manage and deliver individual projects to meet the defined targets
- Develop dashboards to monitor progress and key assumptions
- Meet periodically with management to update the plan and convey the priorities back to project development staff

Feedback

**Project Teams can make choices with understanding of larger implications to the system**

Goals of the Final Plan

- Improve decision making
- Avoid scope creep
- Provide better communication of priorities
- Involve management in key financial choices
- Help staff see the larger benefits when projects are scaled back

Thank You