Project Development IT Efforts

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KENTUCKY TRANSPORTATION CABINET

Presented by
Brad Bottoms
& Jeff Jasper

Ongoing Software & Application Efforts in Project Development

Program Delivery Platform (PDP)

Umbrella data system over specific modules serving Program and Project Management needs:

Active Modules:

- Continuous Highway Analysis Framework (CHAF)
- Funding Authorization (FA)

PDP - PreCon

Replacement for Oracle / Clearview

Release 1
- Replace Current Functionality
- Faster Web Interface
- Revised and Minimized Milestones

PDP - PreCon

- Future Releases in Development and will add additional features
- Testing in September, Rollout in Fall
- CO Location Training In September
- District Training in October
- Contact John Moore or Brad Bottoms

KY Right of Way Data System (KROWDS)

- Replacement for RWUMS
  - Automated Status Reports
  - Streamlined Processes & Forms
  - Acquisitions, Appraisals, Relo & PM
- Acquisitions Rollout Mid-2020
- KROWDS Update Session - 8am
- Contact Michael Beaven

Professional Services Portal

- Complete Overhaul Current System
  - Consultant Access, User-Friendly Production Hours, Faster Procurement
- Launched August 30th
- Wednesday sessions: 9am & 1:50pm
- Training – User Guidebook
- Contact David Gormley / Eric Pelfrey

OpenRoads Designer (ORD)

- Bentley Dropping Support of SS2
- OpenRoads required for NEW starts
- Wednesday Breakout Sessions:
  - What's New with ORD – 10am, 1:50pm
  - Updates to CADD Stnds. – 9am, 1pm
- Training - KY Engineering Center
- Contact Kevin Martin

AASHTOWare Estimation

AASHTOWare Estimation is replacing Estimator

Cradle to Grave Estimates / Tracking

Testing in PS&E begins soon

KY Utilities & Rail Tracking System (KURTS)

New Features for Existing Program:

- Utility Company Accounts
  - 2019 effort resulted in 100+ accounts
- Statewide Utility Prioritization
  - Low, Medium, High, Critical Risk Level
  - Reports for Utilities and Mngmnt.
- Contact liaison or Jennifer McCleve

Continued Efforts and Thanks

Thanks to:
- Leadership
- Project Managers & Teams
- OIT
- Developmental Branch
- Technical Support Branch

CRITICAL PATH FOR PROJECT DEVELOPMENT

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SPR Study: CRITICAL PATH FOR PROJECT DEVELOPMENT

Identify typical KYTC highway projects and preconstruction phases.

Create several CPM templates for these typical projects and common project phases.

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the TEAM

Darrin Eldridge (KYTC - Chair)

Karen Mynhier (KYTC)

Shannon Dearing (KYTC)

David Waldner (KYTC/Retired)

Dean Loy (KYTC)

Jennifer McCleve (KYTC)

Allen Rust (KYTC)

Doug Kreis (KTC - Principal)

Jeff Jasper (KTC)

Rachel Catchings (KTC)

Candice Wallace (KTC)

Robin Baskette (KTC)

Chris VanDyke (KTC)

Bryan Gibson (KTC)

MICROSOFT PROJECT GANTT CHARTS

Graphical Representation of the Highway Project Schedule (Preconstruction)

Time Scale, Work Activities, Durations, and Internal Activity-Relationships
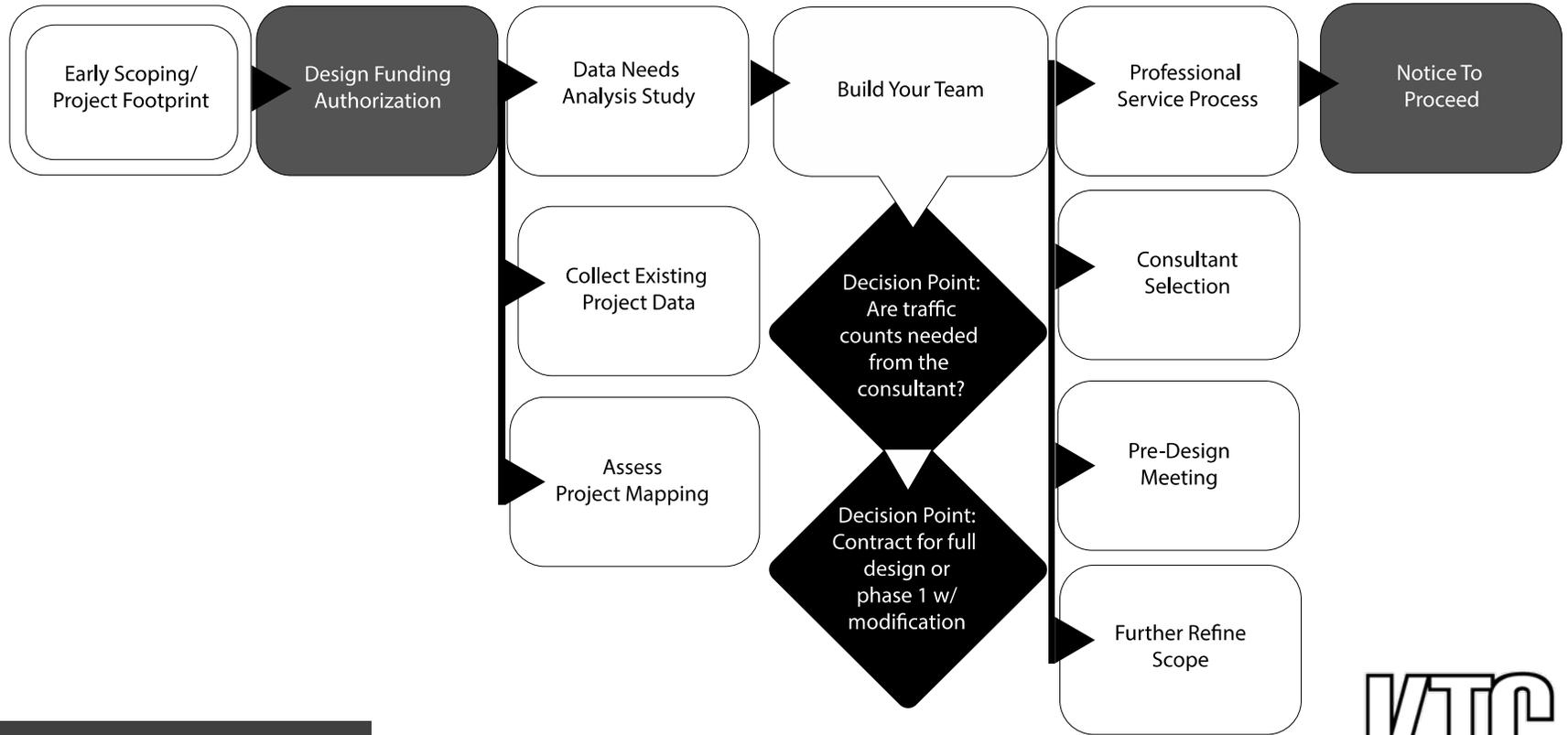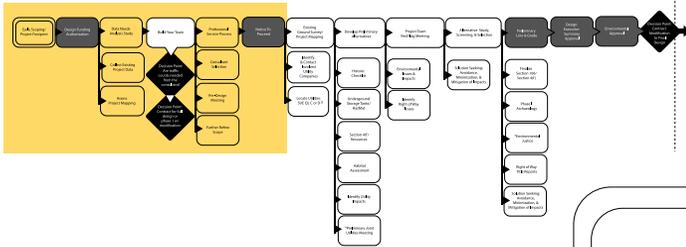
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PROJECT CONTEXTS

- Rural Federal Bridge Replacement CE I

- Urban Federal Bridge Replacement with Railroad CE I

- 4 Mile Rural Road Widening into Urban Intersection EA FONSI

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PROJECT CRITICAL WORK

- Archaeology (Phase I, II, III)

- Asbestos

- ROW Parcel Condemnation

PHASE 1

Early Scoping/ Project Footprint

Design Funding Authorization

Data Needs Analysis Study

Collect Existing Project Data

Assess Project Mapping

Build Your Team

Decision Point: Are traffic counts needed from the consultant?

Decision Point: Contract for full design or phase 1 w/ modification

Professional Service Process

Consultant Selection

Pre-Design Meeting

Further Refine Scope

Notice To Proceed

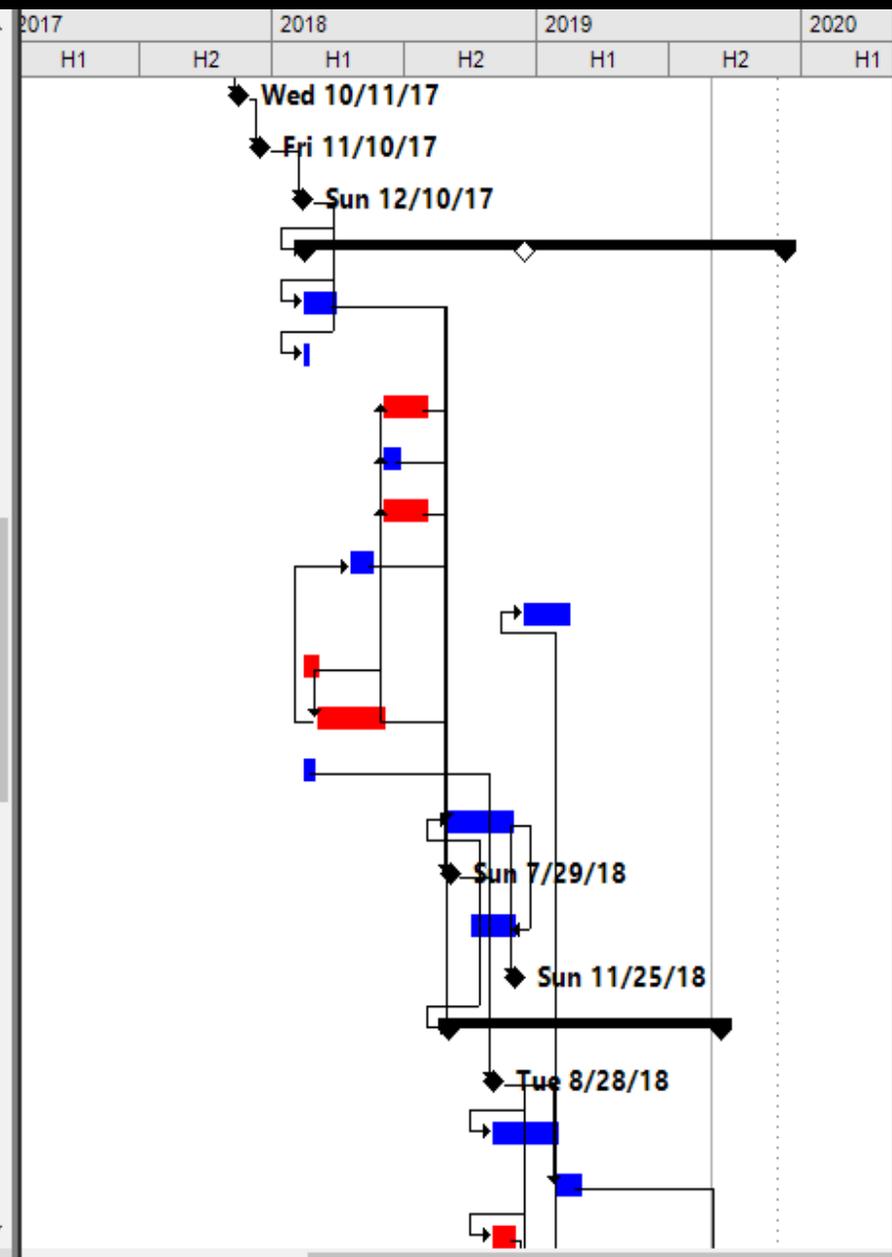**Process Map: Rural Federal Bridge Replacement CE I**
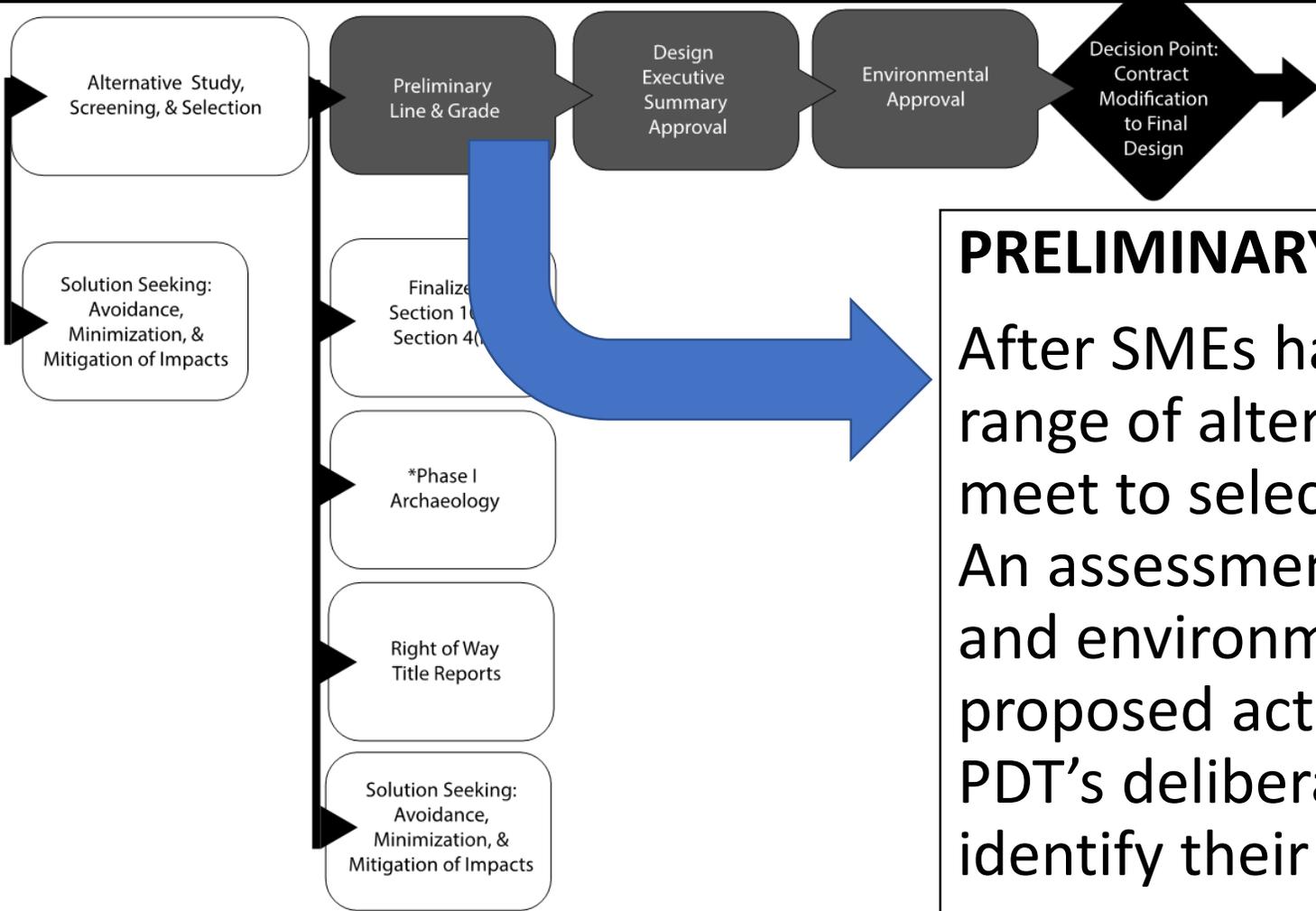
PRELIMINARY LINE AND GRADE

After SMEs have studied the project's range of alternatives, the PDT should meet to select a preferred alternative. An assessment of the social, economic, and environmental impacts of a proposed action or project informs the PDT's deliberations and helps members identify their preferred alternative.

Glossary of Preconstruction Work Items

	Task Mode	Task Name	Duration	Start	Finish
41		Design Executive Summary Approval	30 days	Wed 10/11/17	Thu 11/9/17
42		Environmental Approval	30 days	Fri 11/10/17	Sat 12/9/17
43		Contract Modification to Phase II (Op	60 days	Sun 12/10/17	Wed 2/7/18
44		⊿ Phase II	663 days	Thu 2/8/18	Mon 12/2/19
45		Final Design	45 days	Thu 2/8/18	Sat 3/24/18
46		Locate Utilities Subsurface Engineeri	7 days	Thu 2/8/18	Wed 2/14/18
47		Drainage Design	60 days	Wed 5/30/18	Sat 7/28/18
48		Pavement Design	21 days	Wed 5/30/18	Tue 6/19/18
49		Roadway Design	60 days	Wed 5/30/18	Sat 7/28/18
50		Structure Design	30 days	Sun 4/15/18	Mon 5/14/18
51		Engineering Agreements (Utilities) (C	60 days	Mon 12/10/18	Thu 2/7/19
52		Final Survey	21 days	Thu 2/8/18	Wed 2/28/18
53		Geotech Investigation	90 days	Thu 3/1/18	Tue 5/29/18
54		Right of Way Layout/Right of Way Re	14 days	Thu 2/8/18	Wed 2/21/18
55		Final Plan Development	90 days	Tue 8/28/18	Sun 11/25/18
56		Final Joint Inspection	30 days	Sun 7/29/18	Mon 8/27/18
57		Plan Processing and Review/Roadwa	60 days	Thu 9/27/18	Sun 11/25/18
58		Final Plans Complete	0 days	Sun 11/25/18	Sun 11/25/18
59		⊿ Right of Way	376 days	Tue 8/28/18	Sat 9/7/19
				Tue 8/28/18	Fri 10/26/18
				Sat 10/27/18	Thu 1/24/19
				Fri 1/25/19	Sat 2/23/19
				Sat 10/27/18	Sun 11/25/18

Gannt Charts via Microsoft Project Files

SPR Study: CRITICAL PATH FOR PROJECT DEVELOPMENT

Microsoft Project files (Gantt Charts) and   Project Flow Maps are available online. Go to:

ktc.uky.edu/ismyprojectonschedule/

or

Email: jeff.jasper@uky.edu

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