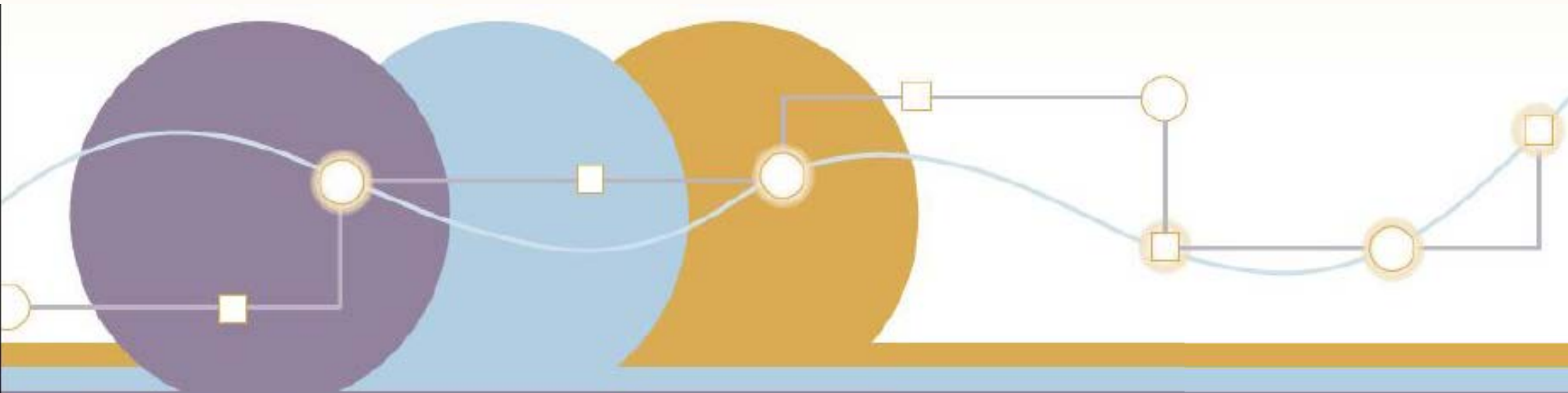
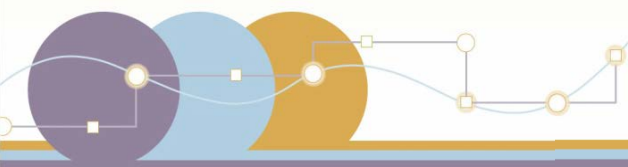


TPM State Workshop Pilot

Action Planning: Component D

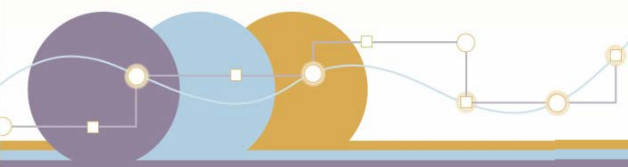
August 24 & 25, 2016
Jefferson City, MO





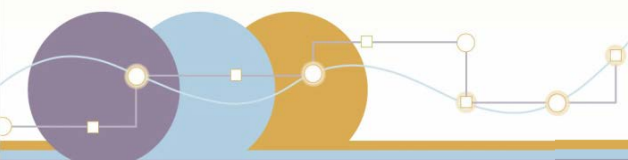
Recap Component C (Data Management) Actions





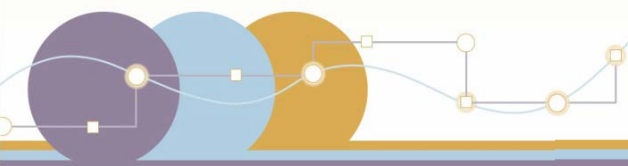
Action Planning for Component D: Data Usability and Analysis

- Work with your colleagues to determine actions that will improve your agency's ability to analyze performance data



Action Planning

1. Record median agency maturity level
2. Adapt actions to your agency
3. Identify priority actions for improvement
4. Complete detailed action plan form for each action (finish as many as you can)



Handouts: Exercise



Action Planning Exercise: Component D

In this exercise you will identify 2-3 high priority improvements and develop a plan for implementation.

Step 1: Record level of maturity

Record the median from your agency's assessment results for Component D in the box below.

Step 2: Adapt actions to your agency

Reference the CMM tables handout under your agency's median maturity level for a list of generic action items. Adapt these potential actions for Component D to your agency's specific context. Write them down below.

Overall Component D maturity level:

Actions

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____



Step 3: Identify priority actions for improvement

Select 2-3 actions from Step 2 and list below.

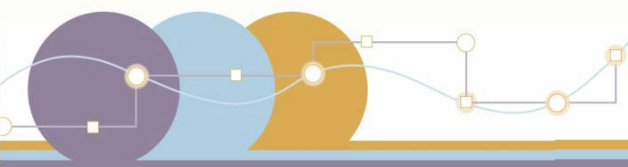
Action

1. _____
2. _____
3. _____

Step 4: Complete detailed action plan form for each priority action

See following pages.

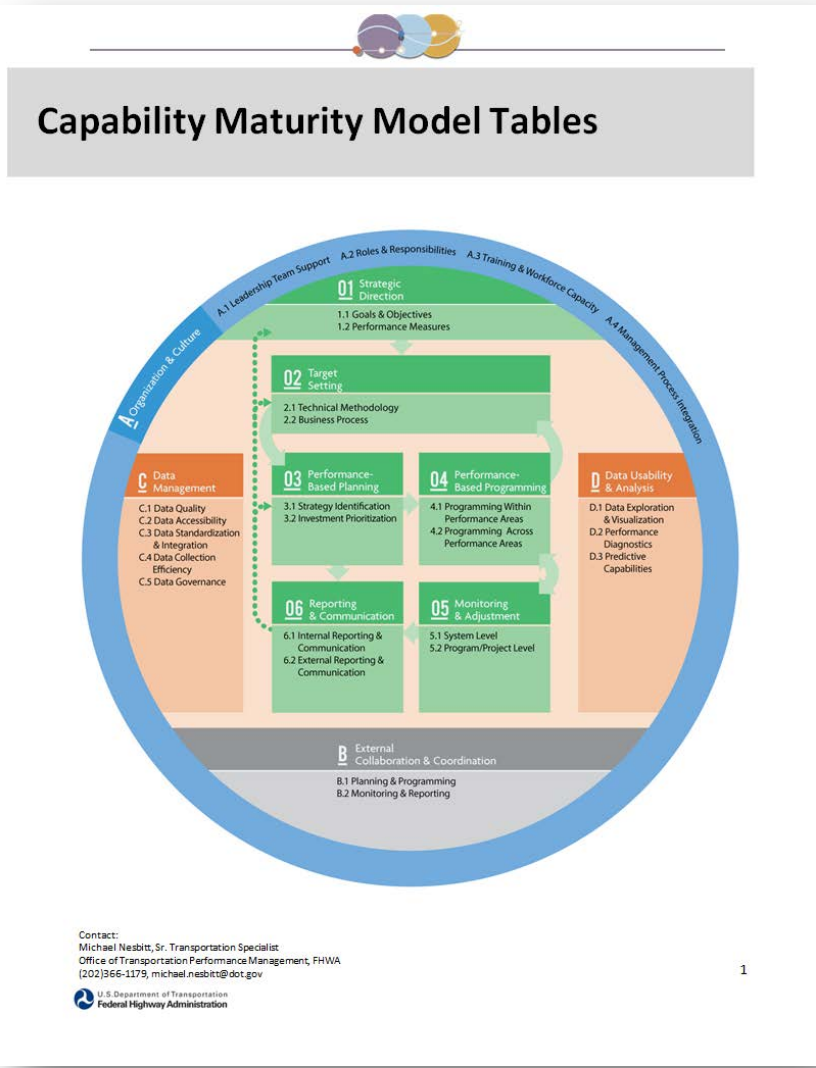




Handouts: Exercise

Action Item #1
Action Item:
What is the problem we are trying to solve? How will this action help?
How will you know if your action is successful? (e.g. tangible results, progress milestones)
Responsibilities: Who should take the lead in implementing this action item? Who else should be involved?
Key issues to be resolved for implementation:

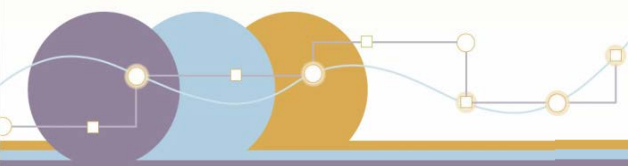
Handouts: CMM Tables



Component D. Data Usability and Analysis

Definition: Existence of useful and valuable data sets and analysis capabilities available in accessible, convenient forms to support transportation performance management. While many agencies have a wealth of data, it is often disorganized, or cannot be analyzed effectively to produce useful information to support target setting, decision making, monitoring or other TPM practices.

Level	Description	ACTIONS to move to next level:
INITIAL (Level 1)	Limited tabular performance reports may exist, but the agency does not have ad-hoc query or drill down/roll up capabilities. Information is not readily available for identifying root causes of performance results, and no methodology exists for predicting future performance.	<ul style="list-style-type: none"> Initiate an effort to improve agency performance reporting and query capabilities. Meet with managers and staff to identify what information is needed to better understand reasons for performance results. Initiate an effort to develop predictive models for different performance areas.
DEVELOPING (Level 2)	The agency is developing exploration and visualization capabilities. Identification of data sources that will help to explain observed performance results has begun. Models, tools, and a methodology for predicting future performance are being developed.	<ul style="list-style-type: none"> Meet with different users of performance data to understand and document data views that would be useful to them. Identify and implement tools and technologies for improved data exploration and visualization as needed. Compile available supplemental information needed to provide diagnostic capabilities and integrate into performance reporting processes. Implement predictive capabilities; acquire and configure analysis tools.
DEFINED (Level 3)	Tools and technologies for providing data views needed by various users are in place, and requirements have been documented. Performance reports now include supplemental data that provides insight into root causes of system-level performance results. Though not tested, capabilities exist for predicting future performance under different scenarios.	<ul style="list-style-type: none"> Implement and configure reports, charts, views and query capabilities to meet identified needs. Conduct user training. Work with staff to ensure that available diagnostic information is useful. Validate models and refine based on user feedback. Enhance capabilities to analyze risk factors that may impact achievement of strategic goals and objectives.
FUNCTIONING (Level 4)	Reports and tools meet the needs of different users, enabling employees to easily visualize and determine explanatory factors. Root cause analysis is regularly conducted to understand performance results at the project and system level. Predictive capabilities incorporate risk and have been used for at least one cycle of planning and programming.	<ul style="list-style-type: none"> Meet with data users to obtain feedback and ideas for further improvement. Keep in touch with peer agencies to identify new approaches to data presentation. Regularly obtain feedback on value of diagnostic information and implement improvements to diagnostic capabilities. Regularly review and refine models; communicate model value and limitations to stakeholders.



CMM: Capability Maturity Model

Component D. Data Usability and Analysis

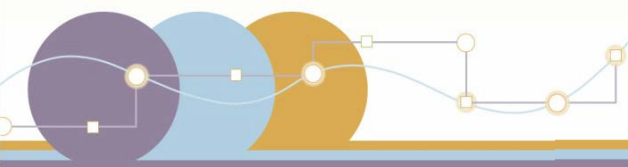
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Definition →

5 maturity level descriptions

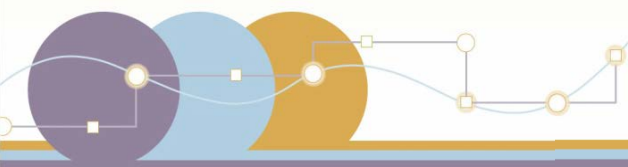
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Actions to move to the next level (for levels 1-4)



Breakout

- Complete the exercise
- Report out: share your priority action items



Report Out

- 3 min per group
- Share your priority action items
- Prioritize as a group