

Date:

Participating Members:

Assessment Context:

D-Analyze Data
2-Modeling

D.2.b – Optimization / Prioritization

Element Description Capabilities for development and application of prioritization and optimization techniques.

Benchmark Level 0	Benchmark Level 1	Benchmark Level 2	Benchmark Level 3	Benchmark Level 4
Asset investment prioritization is not conducted.	Investment prioritization / optimization methodology exists for individual assets. This methodology does not use information on work history and planned work.	Investment prioritization / optimization methodology exists for individual assets and uses information on work history and planned work.	Results from individual asset investment optimizations are used to discuss investment tradeoffs across assets, however there is no quantitative approach to cross-asset optimization.	A quantitative approach to cross-asset resource optimization is in use.
Current: <input type="checkbox"/> Desired: <input type="checkbox"/>	Current: <input type="checkbox"/> Desired: <input type="checkbox"/>	Current: <input type="checkbox"/> Desired: <input type="checkbox"/>	Current: <input type="checkbox"/> Desired: <input type="checkbox"/>	Current: <input type="checkbox"/> Desired: <input type="checkbox"/>
<input type="checkbox"/> Develop treatment selection criteria, associated improvement benefit and cost models, and methodology for investment optimization and prioritization.	<input type="checkbox"/> Improve treatment selection criteria, benefit and cost models, and prioritization through analysis of historical data and expert opinion.	<input type="checkbox"/> Improve treatment selection, benefit and cost models, and prioritization with non-asset data (e.g. utilization / environmental data).	<input type="checkbox"/> Develop method to tie asset investments to overarching “benefit” or “value” against agency objectives, supporting a quantitative cross-asset resource optimization approach.	
<input type="checkbox"/> Document key factors input as constraints to optimization analysis (e.g. performance constraints, available funding). Identify values / data sources.	<input type="checkbox"/> Identify data sources for planned work and define method for incorporating this data into existing investment analysis.	<input type="checkbox"/> Produce asset specific investment optimization / prioritization analysis results in a format useful in an overarching investment optimization and prioritization decision process.	<input type="checkbox"/> Develop analytical tools to identify where discrepancies are identified between actual and anticipated performance of asset investments and improvements.	
<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	

Assessment Notes:

Improvement Notes:

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