

# 1 Asset Inventory

## 1.1 Section Detail

## 1.2 Section Guidance

**Finalize TAMP asset inventory.** A finalized TAMP asset inventory will be developed for those assets identified through previous project tasks. The inventory will include those assets required for MAP-21 compliance— NHS pavement and bridge assets—and will also include those additional assets necessary to effectively support the agency’s TAM decision making.

**Assets to be addressed in the TAMP (minimum):**

- Pavements
- Bridges

## 1.3 Links

Transport Scotland *Road Asset Management Plan* (2007) – [Road Assets](#)

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# 2 Asset Management Objectives and Measures

## 2.1 Section Detail

## 2.2 Section Guidance

**Establish objectives and measures.** Establish measures to characterize the condition of each asset type in the plan. For some asset types the measures may be clear from the outset, based upon existing FHWA guidance. For other assets where rulemaking is ongoing or does not specifically address a given asset type, additional measure development will be needed. Furthermore, for those asset categories where the agency may have relatively little condition data available, guidance will be produced that addresses a development plan for the effective risk-based management of these assets

## 2.3 Links

Transport Scotland *Road Asset Management Plan* (2007)

- [Aims, Objectives, Targets, and Expectations](#)
  - [Performance Management Framework](#)
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# 3 Performance Gap Assessment

## 3.1 Section Detail

## 3.2 Section Guidance

**Identify performance gaps.** Provide for the calculation of asset conditions and other measures as determined in the previous step. This will enable the identification of performance gaps and areas for improvement. Note that it is assumed that this step will rely heavily on existing data. To the extent that extensive calculations are required, clearly and explicitly define the calculation parameters/ approach and illustrate the calculations for the requisite set of asset types.

## 3.3 Links

# 4 Lifecycle Cost Considerations

## 4.1 Section Detail

## 4.2 Section Guidance

**Lifecycle cost and risk management analysis.** Determine approaches to aggregating lifecycle cost and risk management analysis for reporting in the TAMP. These approaches will comprise a structured framework for assessing lifecycle cost and risk for each asset category and will inform the development of a financial plan and investment strategies.

## 4.3 Links

Transport Scotland *Road Asset Management Plan* (2007) – [Lifecycle Plans](#)

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# 5 Risk Management Analysis

## 5.1 Section Detail

## 5.2 Section Guidance

**Minimum TAMP Requirements.** The contents of the TAMP will meet the minimum requirements for NHS Asset Management Plans specified in MAP-21. MAP-21 TAMP requirements will be further clarified by FHWA through a rulemaking process, but at a minimum will include:

- A summary listing of the highway infrastructure assets on the National Highway System (NHS), including a description of the condition of those assets.
- Asset management objectives and measures.
- Performance gap identification.
- Lifecycle cost and risk management analysis.
- A financial plan.

## 5.3 Links

Transport Scotland *Road Asset Management Plan* (2007) – [Risks to the RAMP and Their Management](#)

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# 6 Financial Plan

## 6.1 Section Detail

## 6.2 Section Guidance

**Incorporate financial plan.** Leverage information produced through previous and ongoing financial planning efforts. A financial plan is a requirement of a MAP-21 compliant TAMP.

## 6.3 Links

Transport Scotland *Road Asset Management Plan* (2007) – [Financial Plan](#)

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# 7 Investment Strategies

## 7.1 Section Detail

## 7.2 Section Guidance

**Develop investment strategies.** Develop information on asset investment strategies for inclusion in the TAMP. The financial plan in the previous section should provide the basis for the scenarios that define these strategies. The TAMP will explain in detail the steps entailed in these analyses. Questions this section will address include:

- What are policies, goals and objectives regarding investments in its assets?
- What range of funding should the TAMP consider for addressing TAM needs?
- What conditions are predicted for assets based on different budget assumptions?
- What is the approach for prioritizing its capital investments to the extent that available funds are insufficient for funding all identified needs? Also, what set of projects and work activities will be included in the program based on a given investment approach?

## 7.3 Links

# 8 Asset Management Process Enhancements

## 8.1 Section Detail

## 8.2 Section Guidance

**Detail Improvements.** The TAMP will also detail improvements recommended to improve asset management approach in the future, such as needed process and system/data improvements, as well as any change management activities required to support improving the agency's asset management approach.

## 8.3 Links

Transport Scotland *Road Asset Management Plan* (2007) – [Asset Management Improvements](#)

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