The case studies are meant to exemplify the process of answering asset management questions by systematically reducing uncertainty in asset performance models.

Each study should therefore provide the following items to support that process:

Bridge description

* Structure type
* Date of construction
* Location
* Region
* ADT
* Photo of bridge

Motivation

* Description of motivating problem
* Knowledge required for rectifying/mitigating problem
* Techniques for acquiring necessary knowledge

Plan

* Objectives for any testing activities
* Description of how test results may answer questions or reduce uncertainty
* Figure of test plan
* Description of test activities to ensure success

Results

* Image of test activities
* Example figure of data gathered
* Summary of data processing
* FEM Modeling
* Updating, Rating
* Results and interpretation within context of structural performance

Conclusions

* Relate test results to motivating questions
* Comment on overarching knowledge gained

Content should be broken into the following categories

1. Intro
   1. Description
   2. Motivation
2. Technology implementation
3. Results & Conclusions

Present case studies within decision tree framework

: Reactive Decision Making Framework

**Opportunities for sensing/simulation**