

Summary of Day 2

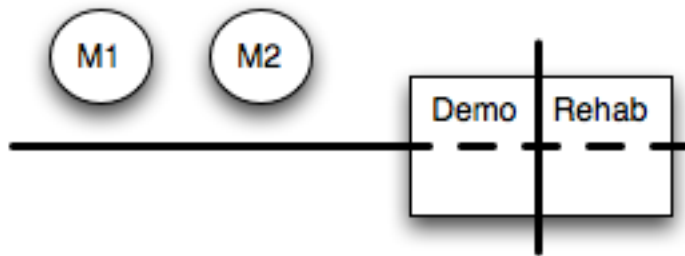
Q8: Time Horizon

- The *analysis period* refers to the time horizon during which the inputs and outputs associated with the functional unit for a system or systems are inventoried. The initial construction of each system will have a different functional design life, and may be followed by a series of different maintenance and rehabilitation (M&R) activities to preserve its function. Properly assessing the pavement system over a time horizon presents a major challenge. Some proposed approaches to determine the analysis period include:
 - Using 1.5 times the longest functional design life among all alternatives
 - Using minimum next major rehabilitation activity
 - Annualizing/amortizing construction events

Group 1

Time Horizon Issue

What is one **service life**?



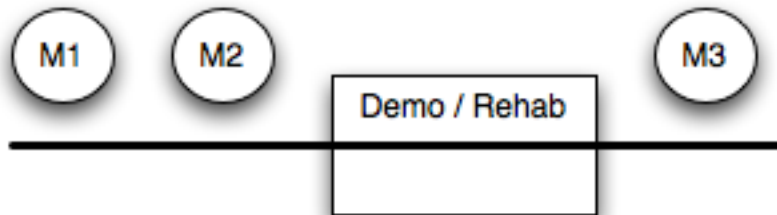
Three options:

- 1) Terminates before demolition
- 2) Includes demolition (consensus choice)
- 3) Includes rehabilitation (minority choice)

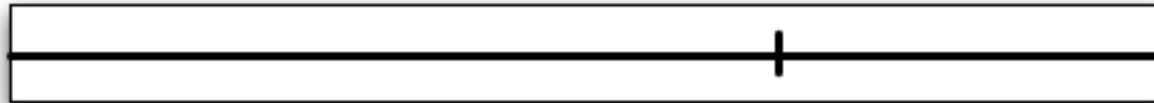
Issues

-2 is OK as long as benefits and deficits are properly allocated

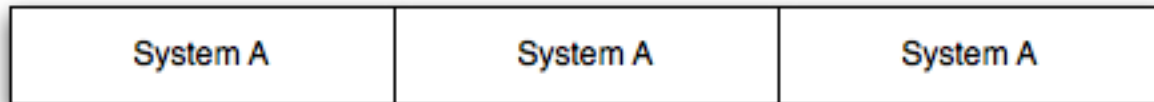
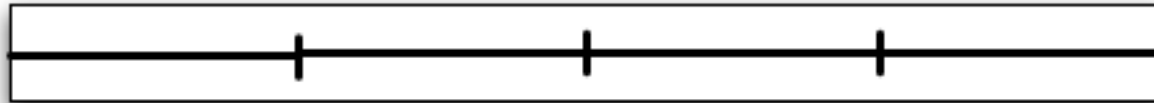
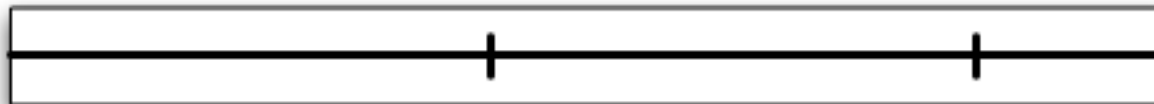
-Often difficult to separate these activities



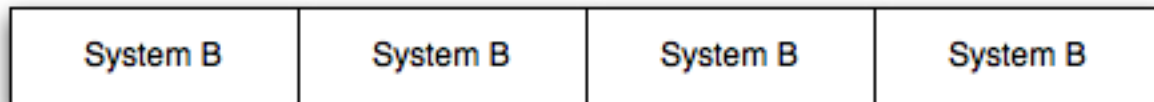
What is the analysis period?



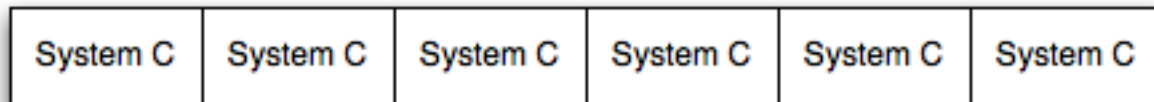
Arbitrary Analysis Period



Common Denominator



or



Annual Average Impact