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NCHRP Report 903, January 2019



Provides implementation manual, examples, and Microsoft Excel tools to begin asset management now for assets such as:

- Retaining walls
- Embankments
- Cut slopes
- Subgrades

"Fence to Fence"



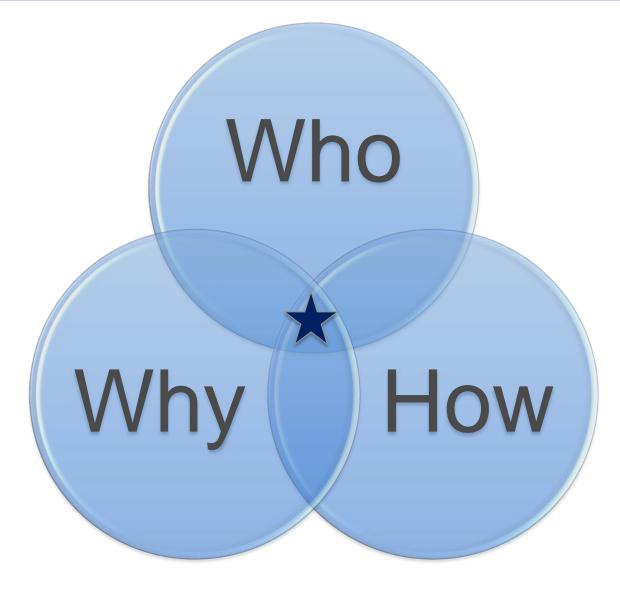
Start Now

NCHRP Report 903, Volume 2

- Implementation is designed to be simple for a low level of effort to get started
- Aligns with transportation asset management
- Includes Microsoft Excel tools:
 - <u>GAM Planner Worksheet</u>: simple inventory for <u>program</u> level assessment, measurement, reporting, and 10 year financial plan
 - <u>Life-cycle Cost Analysis Template</u>: net present value analysis for <u>asset</u> level treatment decision support



Implementation





Who















Why



<u>Why</u> in Summary

There is a <u>business</u> reason

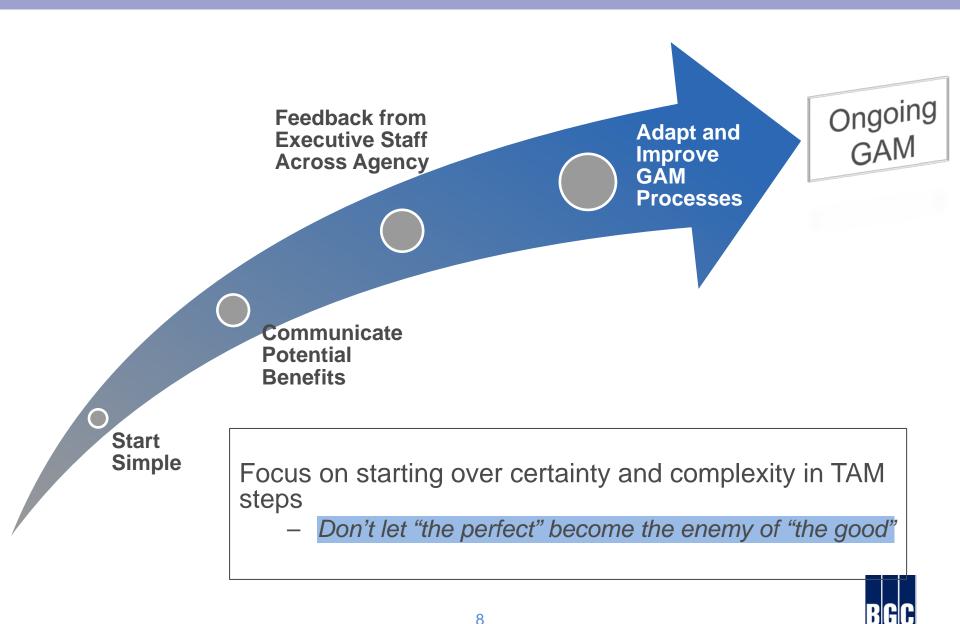
"We couldn't afford not to do it"

"There is a cost to not doing GAM"

"It wouldn't make sense not to do asset management anymore"



How



NCHRP Study 24-46 Geotechnical Asset Management Implementation Manual Making Informed Decisions

For any asset, the treatment options include:

- Reconstruct
- Rehabilitate
- Maintain
- Do minimum
 - Do minimum is a planned decision or the default action in the absence of a plan



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Future Questions

For any asset, the treatment options include: Reconstruct AASHTO and FHWA design guidance, standard and special specs, textbooks support these treatments

Are we providing enough guidance for this treatment? (when, what, and budget)

How do maintenance practices and timing influence deterioration rates?

Do minimum

Maintain

Clean up and recover

