How Risk-Based Asset Management Programs Can Catalyze ERM

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ERM Complements Performance

- "Risk is the positive or negative effects of uncertainty or variability upon agency objectives."
- It includes
 - Uncertainty
 - Variability
 - Threats
 - Opportunities

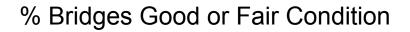


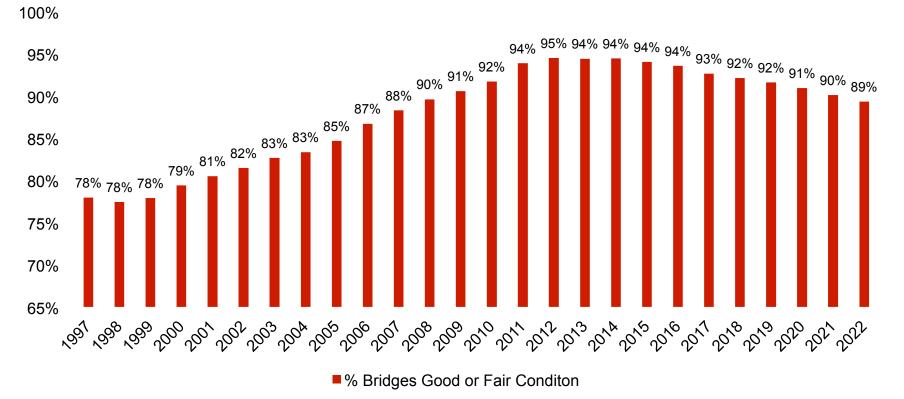
Elements of Risk in TAM

- Asset management plans will include
 - Specific condition targets
 - Long horizons which bring uncertainty about:
 - Revenues
 - Asset performance
 - Model accuracy
 - Traffic loadings
 - Political support



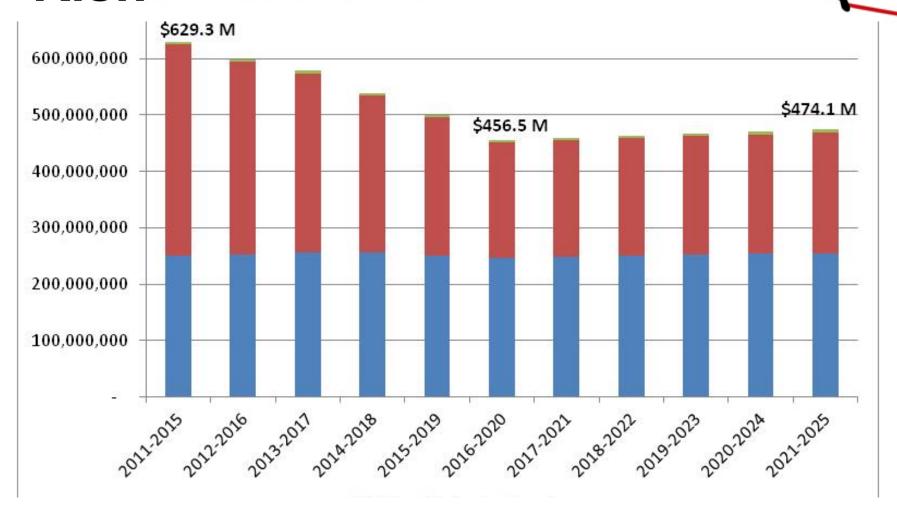
Model Risk





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Revenue, Economic Politica Risk



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NCHRP 20-24 (105)

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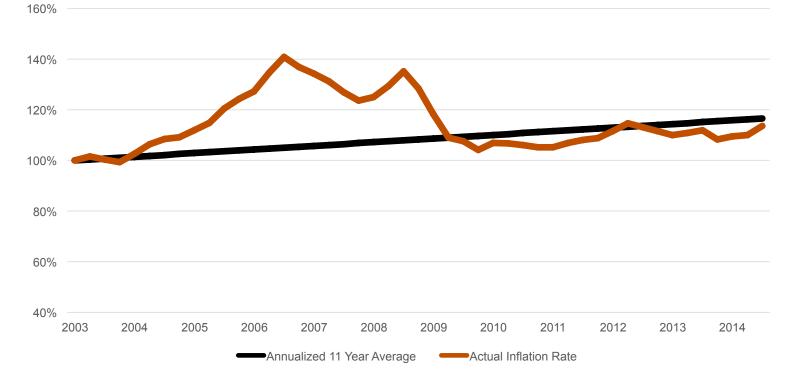
Risk-Based Tradeoffs

- Not all assets are equal
- Risk helps prioritize asset investments
- Agencies often face tradeoffs
- Risk justifies difficult tradeoffs



Construction Price Risks

FHWA Construction Inflation Trends



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