Applying Data Analytics to Risk Modelling and Assessment

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Pipeline Replacements

Figure 1. U.S. Distribution Main Pipeline Miles (2015)

[Graph showing miles of U.S. Distribution Mains (2015) with categories for Plastic, Cathodic Protection, Unprotected Coated Steel, and Bare Steel]

[Graph showing remaining miles of pipe with lines for cast iron and unprotected steel]
Climate Impacts

- Methane is more than 20x more harmful compared to CO2
- 25% manmade global warming
- Gas distribution accounts for 21%
EXPENSIVE
Technology Impact
Ratepayers, Technology, and Utility

- Complex relationships
- Aligning incentives
- Pilots aren’t enough
Removing Barriers

- Regulatory sandbox
- Performance based incentives