



AIIM: Advanced Infrastructure Integrity Modeling

Evaluating Offshore Energy Infrastructure for Safe Reuse, & Repurposing



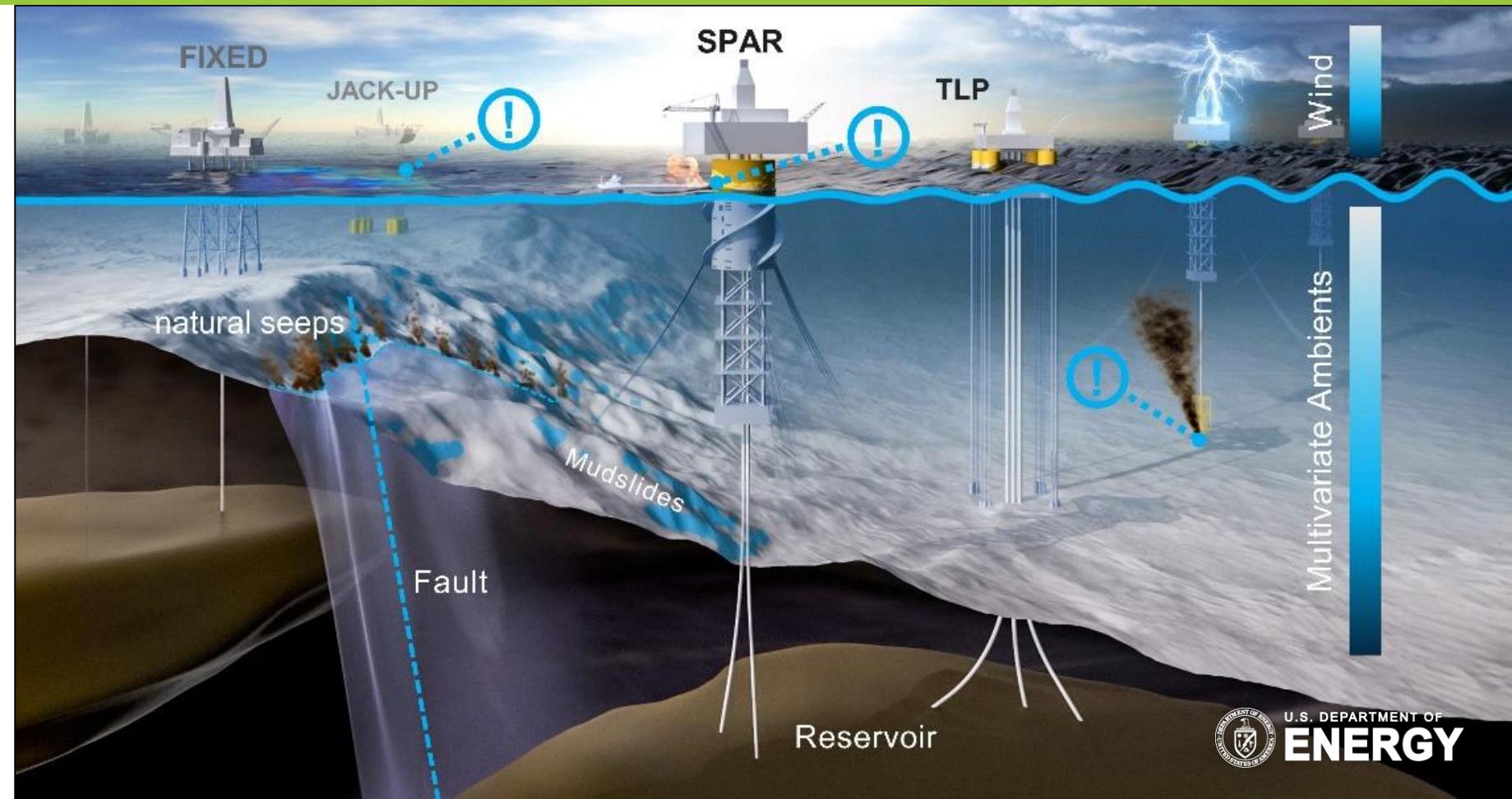
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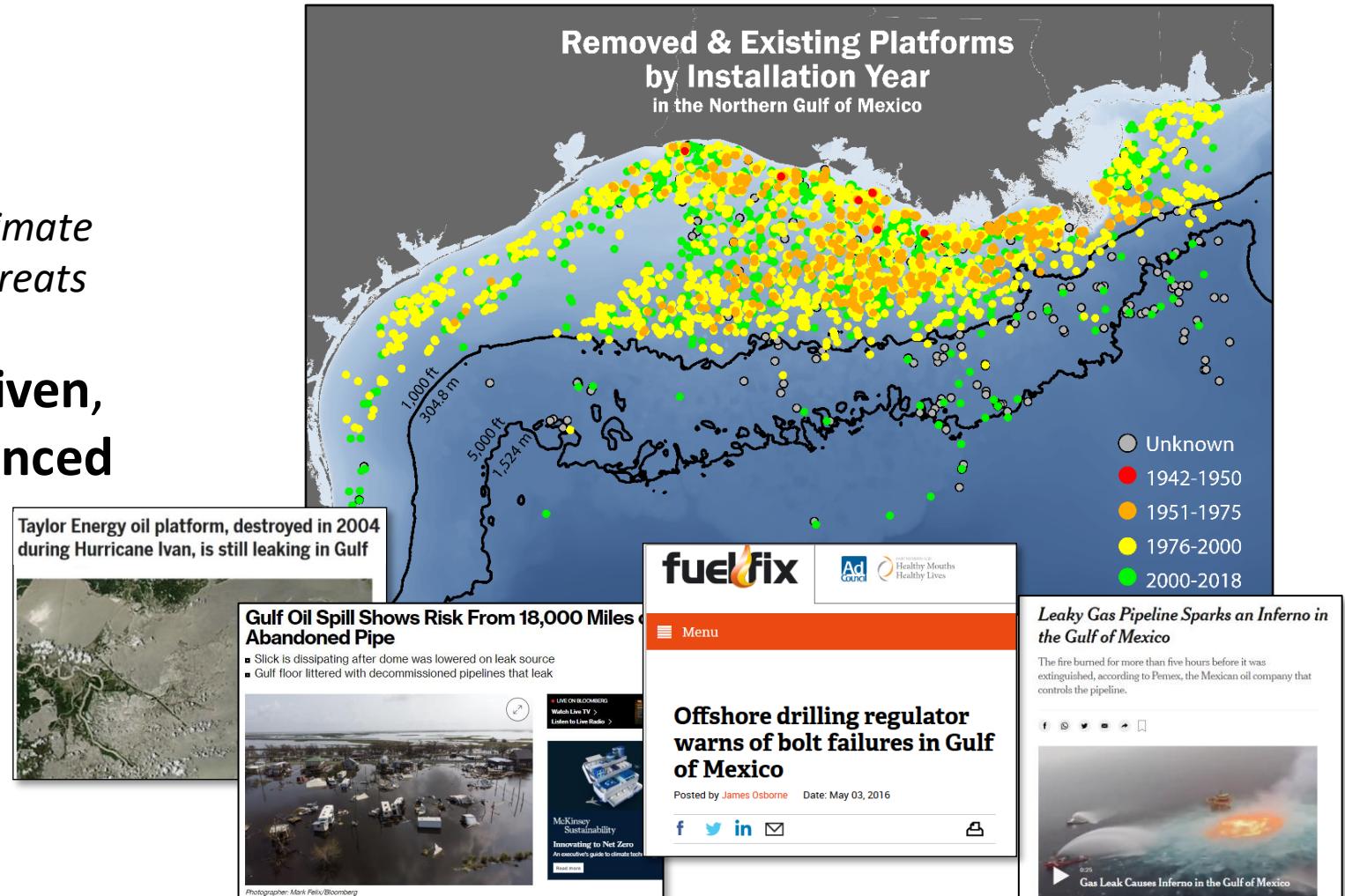
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Energy Infrastructure Security

What is the need?

- Offshore operations are often remote & risky
 - Aging infrastructure
 - Natural hazards
 - Changing climate
 - Domestic threats
- Developed **AIIM**, a data-driven, multi-machine learning & advanced analysis model, to evaluate structural integrity
- Values Delivered:
 - Identify hazards & prevent risk
 - Inform safe reuse & repurposing as energy security strategies
 - Evaluate possibilities and liabilities

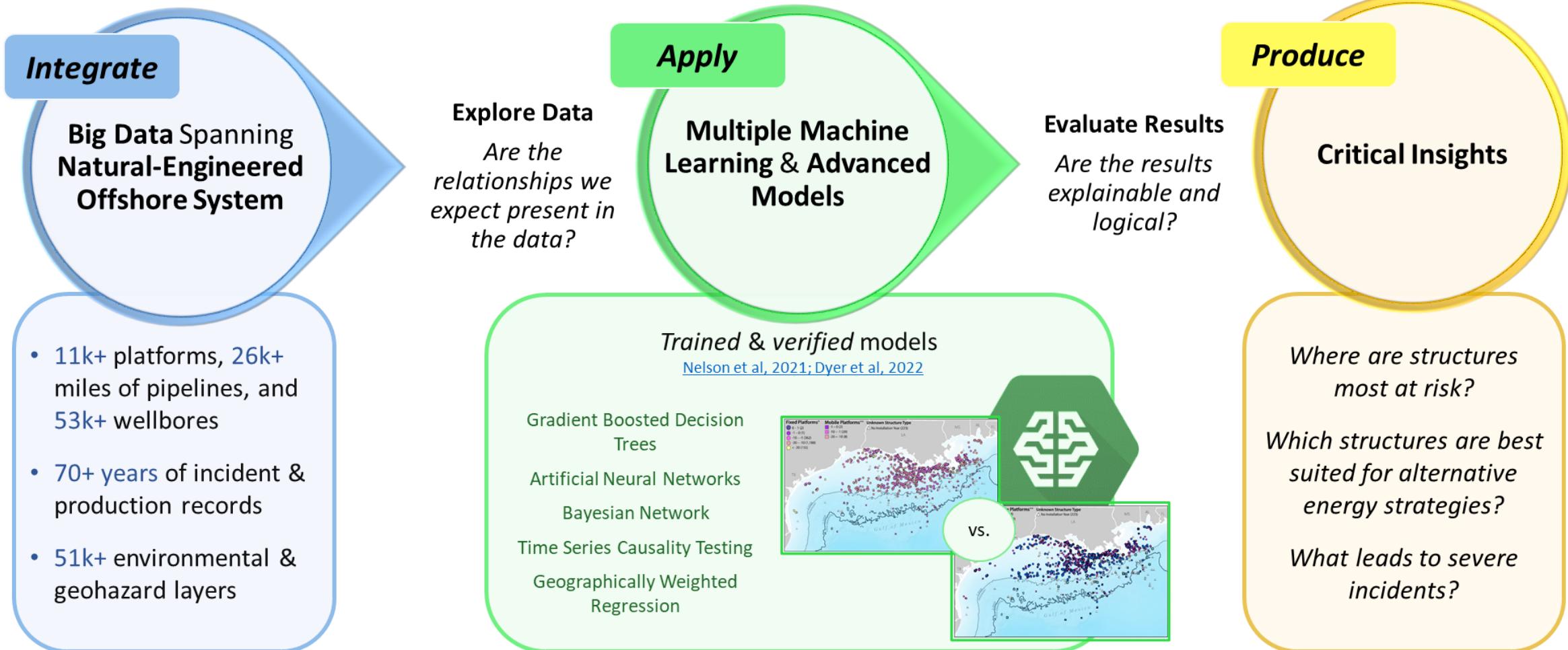


<https://edx.netl.doe.gov/offshore/portfolio-items/assessing-current-and-future-infrastructure-hazards/>

Full System Analytics Informing Local Predictions



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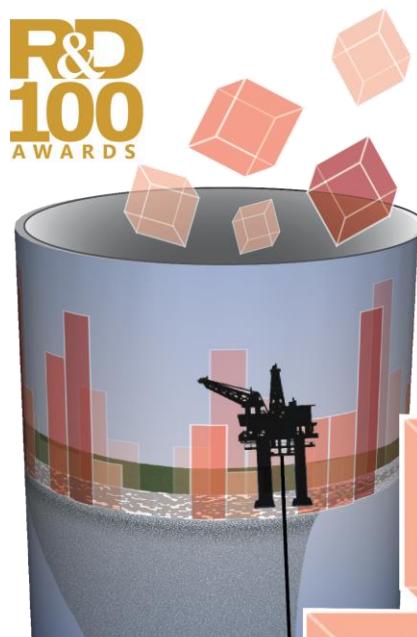


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A Decade of Critical Insights for Prevention



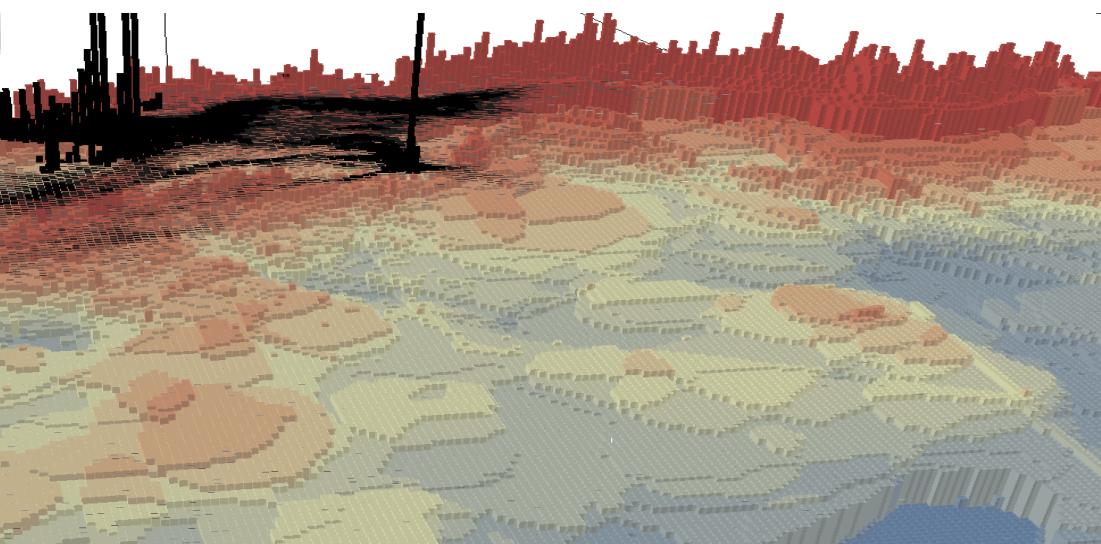
Offshore Risk Modeling Suite: Minimize Risk, Maximize Opportunity



10 scientific
models & tools



U.S. DEPARTMENT OF
ENERGY



Publicly available

Built for regulators & stakeholders

Support risk prevention

Configurable for many applications

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