



Financial Obligation Root Cause Explorer

Speed and Scale Motivation



On November 15, 2021, Agencies completed their 25th CFO Act Audits and the President signed the bipartisan \$1 trillion Infrastructure Bill into law.

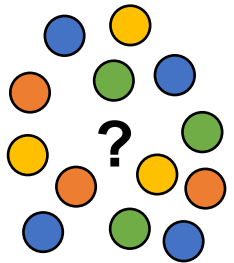
FORCE Technology Stack



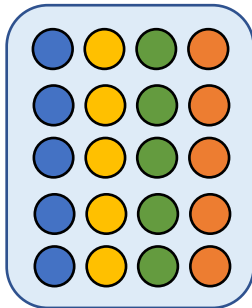
Financial Obligation Root Cause Explorer (FORCE) uses an **innovative technology stack** to analyze grants with potential spending delays and **uncover hidden themes** through artificial intelligence.

Nightly Automated Processing

Data Aggregation and Transformation



Raw Data



Data Lake



Data Curation



Ad Hoc Analysis and Advanced Insights

Data Visualization



Dashboards and Text Analytics

Artificial Intelligence / Machine Learning

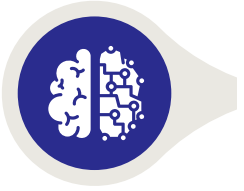


Natural Language Processing



#TTS20

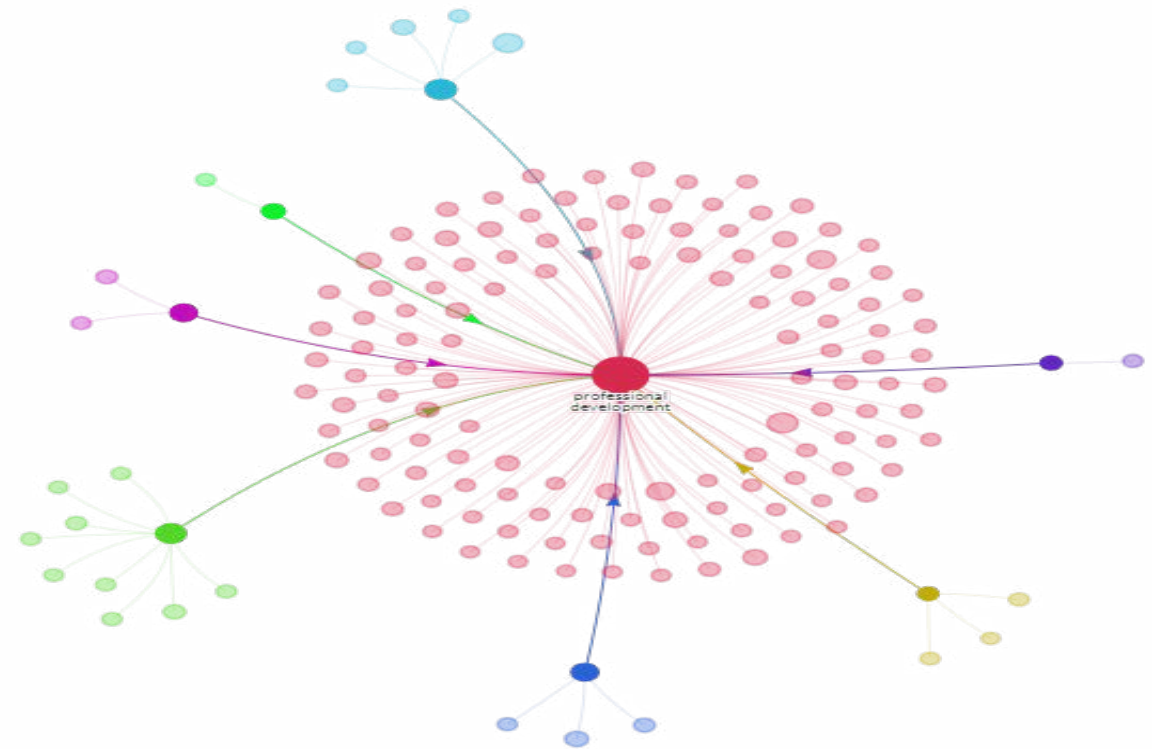
Closing Thoughts



Innovation. Implements cutting-edge processes that transforms data, information, and knowledge; questions the compliance status quo, and connects the dots between financial management and programmatic disciplines through advanced insights and analytics.

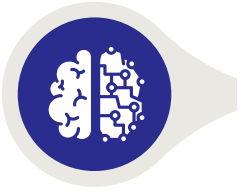
Closing Thoughts

New Approaches to Program Inventory or AGA Blended and Braided Funding Challenges!



Illustrative Graph View of STEM EDUCATION

Closing Thoughts



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Transferability. This initial use case is ripe to expand for government-wide shared services and management to auditor collaborations.



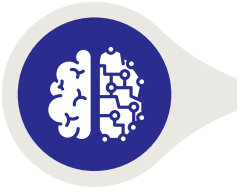
USASPENDING.gov



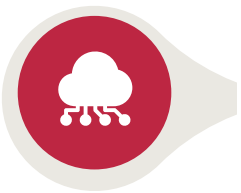
Think Data Act + FORCE = USAspending v2.0!

#TTS21

Closing Thoughts



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Benefits to Others. Creates tremendous workforce upskilling opportunities and balances value and compliance workloads.
AI/ML Beginner's Guide: [The Artificial Intelligence Wiki](#) | [Pathmind](#)

Contact Information



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