Federal Government Modernizing

Grants Data Management to Ensure Data is

Understood, Standardized and Shared

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Kamran Atri
Managing Director
703-930-6057
katri@A4SAFE.COM

" We cannot solve problems with the same thinking we had when we created the problems."

→ Albert Einstein

Grants Data Management Vision in Making

Most Important Asset in any Grants Organization = Data

GRANT TARGETED DATA LIFE CYCLE

- **01** BUSINESS UNDERSTANDING — Through Data Management Alignment
- **02** DATA MINING — Establish Data Patterns and Anomalies
- **03** DATA CLEANING — Data Mapping & Profiling
- **04** DATA EXPLORATION — Focused Data Assessment
- **05** FEATURE ENGINEERING — Data Risk MGMT
- **06** PREDICTIVE MODELING — Data Fraud Detection
- **07** DATA VISUALIZATION — Data Analytics on Demand

Where Grant Data Was:
- Inaccurate and unmatched Grant data inventory
- Some Grant data structure with document but many missing
- Data not understood or modeled
- Data not standardized or aligned
- Data not mapped to line of business
- Duplicated Grant data functionalities and data processes not managed
- Inadequate data reporting capabilities
- Data not sharable and cleansed
- Data demand management not adequate

Where Grant Data Is:
- Data assets mapped on the high level
- Initiated Grant data inventory and data documentation
- Mapping some Grant data to the lines of business
- Initiated data prioritization based on Grant needs & functionalities
- Identified many duplicated datasets
- Capturing data REQs & prioritizing data based on flows
- Most have developing Target data architecture

Where Grant Data Is Going:
- Complete Grant data mapped and standardized
- Many GMM Data MGMT document finalized / unified
- Complete Grant data aligned to LOBs
- Identified data Authoritative sources
- Eliminate duplicative datasets
- Enhance Grant LOBs with new functionalities (i.e. Forecasting, demand MGMT)
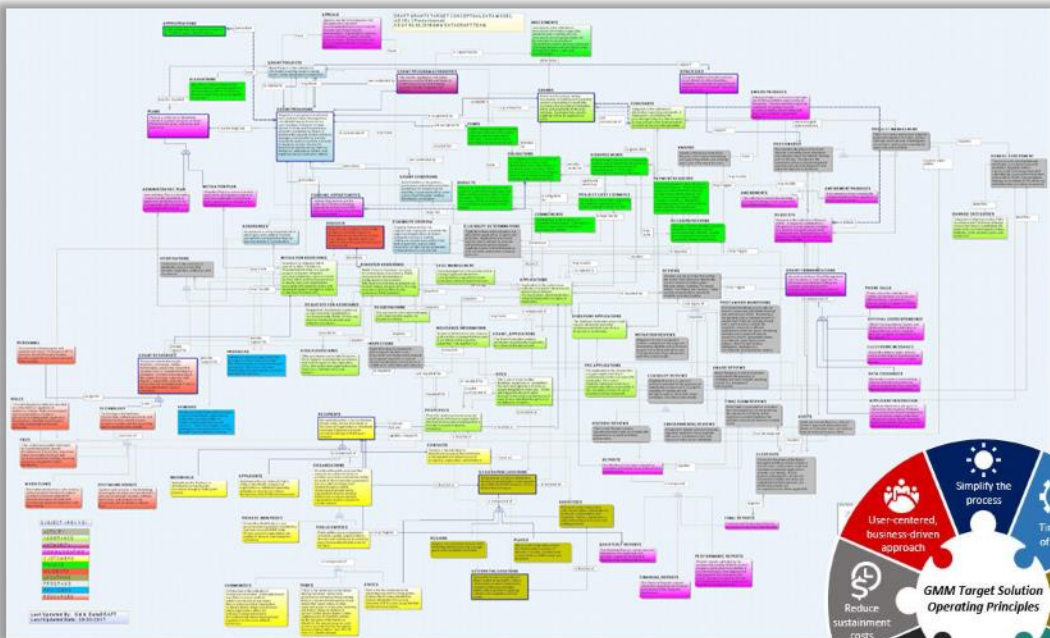- Enterprise information sharing and reporting enhanced

Over 23 Federal Agencies and 50 States Involved Modernizing and Unifying their Grant Data Infrastructures and Reporting

Unified Conceptual Model in NIEM GITHUB (Building Together)

Grant Unified Conceptual Model

Grant Data Subject Areas

...TIONS	ADDRESSES	ADMINISTRATIVE PLANS	ALLOCATIONS	AMENDMENTS	APPEALS
...URANCES	AWARDS	AWARD PACKAGES	AWARD REVIEWS	AGREEMENT ARTICLES	BUDGETS
CLOSEOUTS	CONTACTS	COMMUNICATIONS	CUSTOMERS	COMMITMENTS	DISASTERS
DISASTER ASSISTANCE	DISBURSEMENTS	DOCUMENTS	ELIGIBILITIES	ELIGIBILITY REVIEWS	ENVIRONMENTAL REVIEWS	VENDORS
FILES	FINAL REPORTS	FINANCIAL REPORTS	FINAL CLAIM REVIEWS	FUNDS	FUNDING STREAMS	FUNDING OPPORTUNITIES
GRANTS	GRANT CONDITIONS	GRANT APPLICATIONS	HISTORIC REVIEWS	HOUSING ASSISTANCE	INSURANCE INFORMATION	GEOGRAPHIC LOCATIONS
INVESTMENTS JUSTIFICATION	INVESTMENTS	INSPECTIONS	LOCATIONS	MITIGATION APPLICATION	MITIGATION PLANS	MITIGATION PROGRAMS
MITIGATION PROJECTS	NATIONAL PROPERTIES	OBLIGATIONS	ORGANIZATIONS	PAYMENT INFORMATION	PAYMENT REQUEST	PERFORMANCE REPORTS
PLANS	PUBLIC ENTITIES	PROJECT COST ESTIMATES	PRE APPLICATIONS	PROGRAMS	PROJECTS	PROPERTIES
PROVIDERS	QUARTERLY REPORTS	QUARTERLY REVIEWS	RECOUP / RETURNS	REGIONS	REFERRALS	REGISTRATIONS
REPORTS	RESOURCES	REVIEWS	SITES	STATES	STATUTORY AUTHORITY	STRATEGIES
REFERENCES	SUBGRANTS	SUBGRANT APPLICATIONS	SUBSTANTIATIONS	TECHNOLOGIES	USERS	WORK CATEGORIES

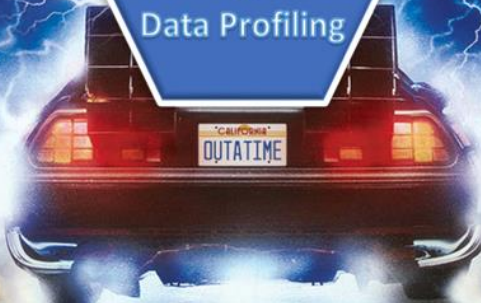# Unified Conceptual Model in NIEM GITHUB (Building Together)

Moving Forward

Continue participating in multiple Grants Data Management Working Groups

Data Model, & Metadata Management

Information Lifecycle Management

Data Access & Data Sharing

Strategy & Governance & Standard

Data Analytics & Data Mining

Data Administration & Management

Data Quality & Data Profiling

Continue working with GMM teams in different Agencies and Policy Teams (DATA ACT, GREAT ACT)

THE FUTURE IS NOW

Questions?

Kamran Atri
Managing Director
703-930-6057
katri@A4SAFE.COM
WWW.A4SAFE.COM