

"Build to Share"

U.S. Federal Enterprise
Architecture
Data Reference Model
(FEA DRM):

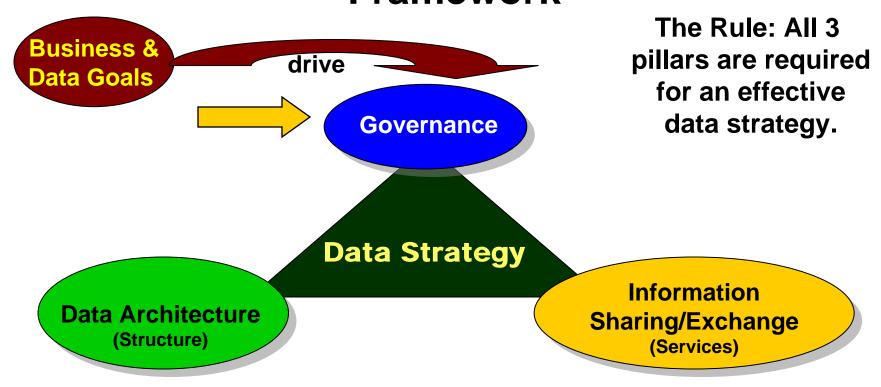
Data Governance
Strategy
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## The Federal 3-Pillar Data Strategy Framework



Goals drive; governance controls; structure defines; and services enable data strategy.





#### **Federal Data Governance**

- Data Governance encompasses the people, processes and procedures required to create a consistent, enterprise view of an organization's data to:
  - Promote information sharing
  - Improve confidence and trust in data used in decision-making
  - Make information accessible, understandable, and reusable
  - Reduce cost and duplication
  - Improve data security and privacy

# Oversight Policy & Procedures Education/Training Processes and Practices Issue Resolution Metrics/Incentives

Data governance is needed to help agencies determine how they will manage the data relevant for business objectives.

The right information to the right people at the right time!





### **Components of Federal Data Governance**

- Federal Data Architecture Subcommittee
- Communities of Interest (COI)
  - Collaborative group of stakeholders who require a shared vocabulary and structure to exchange information in pursuit of common goals, interests, mission or business process
  - Empowered by President Management Agenda (Federated Lines of Business) and Agency E-Government Initiatives
  - Members include:
    - Tribal, local, state, federal, public, private and other non-government organizations.
    - Cross functional members including data consumers, producers, program managers, application developers, and data sharing governance groups





## **COI Objectives**

#### COIs facilitate:

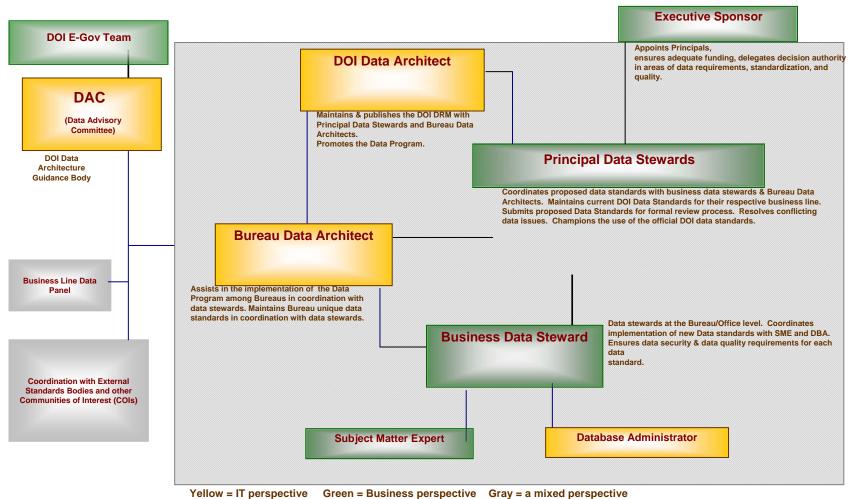
- Data sharing through common COI vocabulary
- Establishment of consistent data management processes
- Preparation of integrated data access plans or information exchange schemas
- Development of information exchange agreements
- Brokerage of conflict resolution among data stewards
- Identification of Authoritative Data Sources (ADS)

COIs work to resolve common issues affecting their communities and develop solutions to promote information sharing.

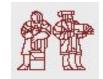




## **Example: DOI Data Governance Bodies**







## **Example: Enabling Net-Centricity DOD Data Strategy**

Producer and **Developer** 





System 1 Data



System 2 Data









Community

Services

**Ubiquitous Global Network** 



**Producer** 



PKI, SAML Application Services

(e.g., Web)

Metadata

Registries

Security

Services (e.g.,

Shared **Data Space** 



Developer



- Multiple calls to find data
- Private data only supports planned consumers
- Data translation needed for understanding when pulled from multiple sources.

#### To Consumer-centric:

- · Data is visible, accessible, governable and understandable
- Shared data supports planned and unplanned consumers
- Shared meaning of the data enables understanding

Transition from disparate networks and within legacy systems to an enterprise Linformation environment where known and unanticipated users can access information.





## Example: Recreation One-Stop E-Government Initiative

- President E-Government Interagency Initiative led by DOI
- Requirements:
  - Share data among multiple Federal, State, Local and Commercial partners
  - Share data across multiple business lines
  - Data standards must be easily extensible to accommodate new requirements
  - Data sharing standards must be translated to a database and XML





# Recreation Community of Interest Members





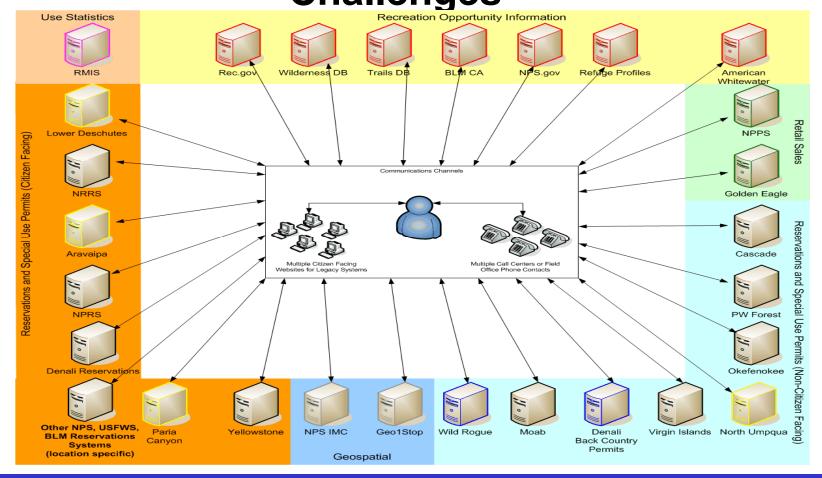


US Army Corps of Engineers





# Recreation One Stop Challenges



Recreation information it the most sought after information by the e-citizen. There are too many sources for Federal, state and local recreation information.





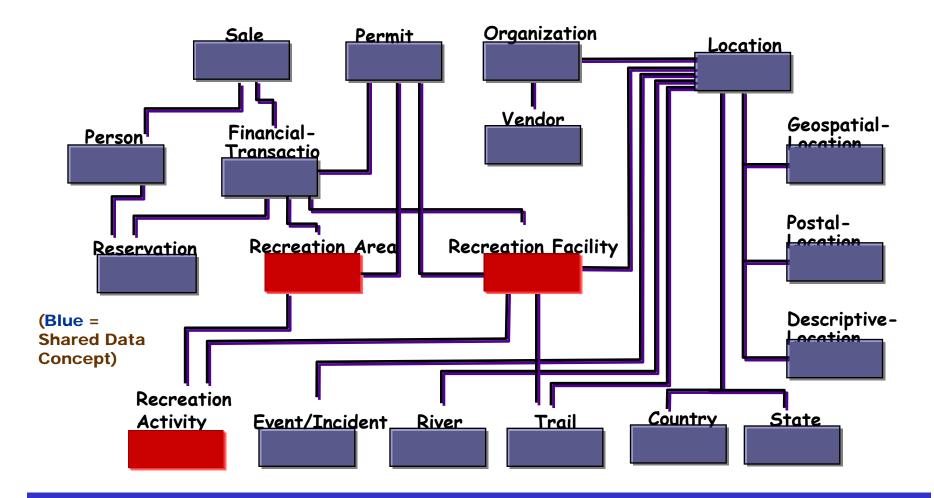
# **Example: Recreation One-Stop Governance Committees**

- COI: Federal Recreation Providers
  - Recreation Executive Council
    - Members: Deputy assistant secretary level (DOI, USDA, & DOD)
    - Provide strategic perspective
    - Provide adjudication
  - Recreation Managers Committee
    - Members: Senior level Recreation Managers (Smithsonian, DOT, and 16 other agencies)
    - Set priorities
    - Provide requirements and resources
  - Various implementation teams
    - Adoption of data standards
    - Data Stewards
    - Data implementation





## **Example: Recreation One-Stop Findings**

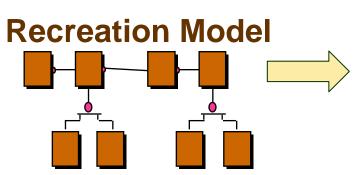


High percentage of data reuse identified across the COL





# Example: Recreation One-Stop Data Standards



```
<RecElements xmlns="http://www.recreation.gov/architecture/"</p>
xmlns:fips="http://www.doi.gov/xml/importedSchemas/fips 10-4"
xmlns:fipsl="http://www.doi.gov/xml/importedSchemas/fips 5-2">
  <Username>string</Username>
 <Password>string</Password>
 <!--l or more repetitions:-->
 <Event>
   <EventID>100</EventID>
   <EventDataStewardID>100</EventDataStewardID>
   <EventName>string</EventName>
   <EventDescription>string</EventDescription>
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   <EventStartTime>string</EventStartTime>
   <EventEndTime>string</EventEndTime>
   <EventAgeGroup>string</EventAgeGroup>
   <EventURLAddress>string</EventURLAddress>
   <EventURLText>string</EventURLText>
```

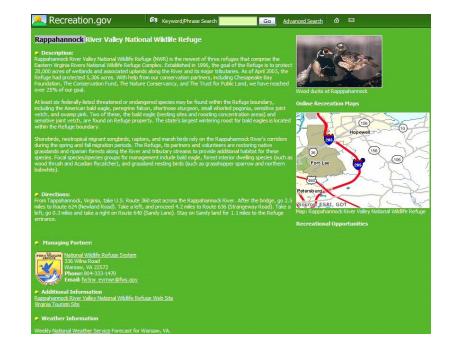
Recreation Data Exchange Standard (RecML) is generated from the Recreation COI data model





# Outcome: Data Sharing with Business Lines and Partners

- Recreation One-Stop
  - RecML was developed through an interagency coordinated set of discussions and vetted through state and local recreation partners.
  - RecML has evolved to include data such as recreation areas, sites, events, and activities.
  - Recreation information for federal, state and local managed properties is accessible from a single site.



Data sharing across business lines and with partners (e.g. AAA) and services provider (Reserve America) is done by leveraging RecML.





## Questions

