

Air National Guard Geo Integration Office (GIO)

Geospatial Requirements Definition Process (GRDP)

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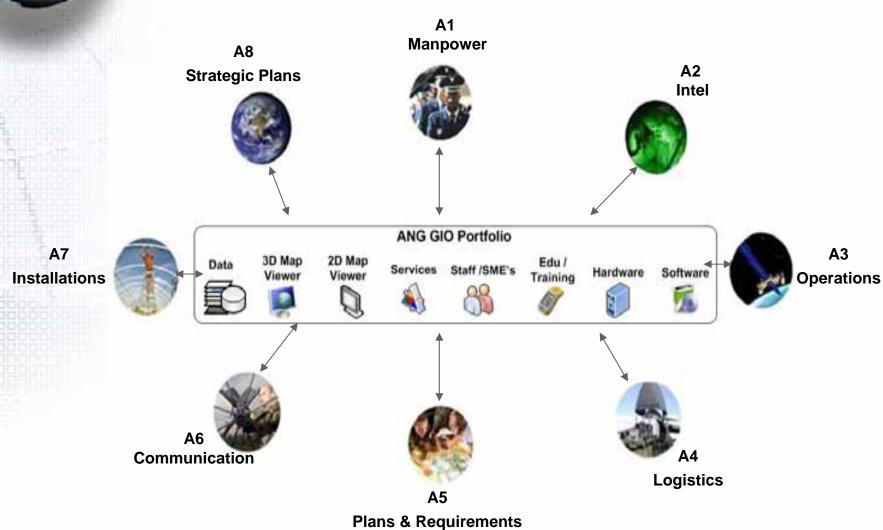


GIO Portfolio of Assets & Resources



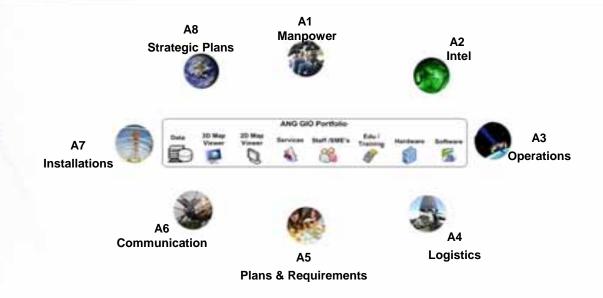


GIO Business Mission Areas





Business Mission needs & GIO Portfolio of assets

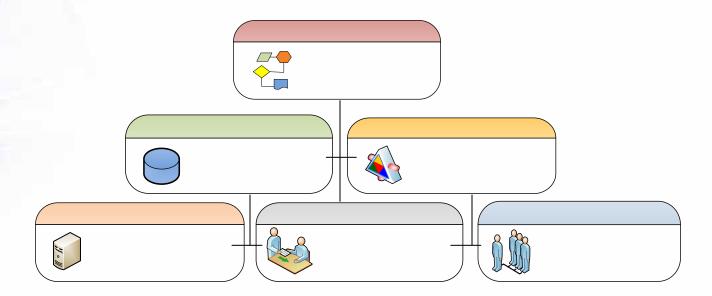


- Aligning GIO investments to business needs & strategic objectives
- **❖** Facilitating Governance... Establishing Priorities... Planned GIO initiatives
- Aligning requirements to existing resources
- ❖Business / Mission requirements as drivers for: Data, Services, Technology
- ❖ Highlighting connected/related requirements between lines of business



Geospatial Requirements Definition Process (GRDP)

The ANG GIO Geospatial Requirements Definition Process (**GRDP**) is a methodology...for Defining, Analyzing, Managing & Reporting requirements...for enterprise geospatial capabilities, services and resources.

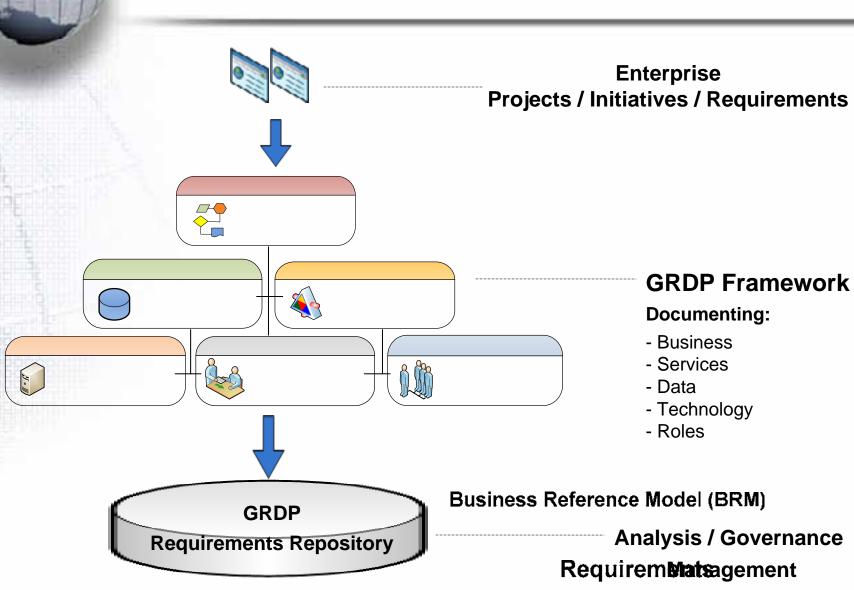


GRDP framework is modeled after the Federal Enterprise Architecture

Business Reference I



GRDP...Project Requirements Framework





GRDP Models Defined

The Business need for geospatial services

Requirements tied to Lines of Business

Business Drivers, Policy, Guidance

Required Services to support the Mission

-Ex: Education & Training, Geo Data Management

Documenting Required Data to support the Missister efere

-Data Name, Authoritative Source, Data sharing

-Ex: 2D Viewer, 3D Viewer, Desktop GIS

-Standardize & Optimize Business Rules

- -Identified Performance Improvements
- -Performance metrics between LOB

Req

Identified Roles/Resp. needed to support the Mission

-Ex: Data Maintainer, Trainers, QA/QC



ANG GIO Business Domains (BRM)

GIO Services to ANG Enterprise



A1 A2

A1F - Airmen Development Division

Manpower

A1M - Manpower, Organization, & Resources

A1P - Personnel Force Management

A1Q - Personnel Data Systems

A1Y - Budget Execution, Program, & Analysis

A1S - Services

A1X - Plans & Integration

A11 - Manpower, Personnel, & Services

Intelligence

A2E - Executive Services

A2A - Intelligence Analysis

A2O - Intelligence Operations A2T - Training and Readiness

A2X - Intel Plans and Regs

A2Y - Intelligence Systems

A3

Air, Space & Operations

A3A - Airspace and Ranges

A3C - Cyberspace Warfare

A3E - Executive Support Services

A3F - Airfield Services

A3J - Personnel Recovery / Special Missions

A3O - Current Operations

A38 - Space Branch

A3T - Aircrew Training

A3X - Operational Plans and Execution

A3Y - Command and Control (C2)

A3Z - NGB Action Group

A4 Logistics

A4M - Aircraft Maintenance

A4P - Resource Integration

A4Q - Analysis and Inspection

A4R - Logistics Readiness

A5 Plans & Requirements

A3E-Chief, Executive Services A5R-Operational Requirements A5RC- Combat Forces Requirements A5I-Integration Forces Requirements A5RM- Mobility Forces Requirements

A6 Communications

A6A - Air Traffic Services

A6E - Executive Services

A6I – Architecture, Technology, & Interoperability

A6N - Network Systems

A6O - Operations

A6C - Office of the CIO

A6X - Plans and Requirements

A7 Installation Management

A7A - Asset Management Division

A7O - Operations Division

A7R - Resources Division

A7S - Security Forces Division

A7X - Readiness Division

A8 Strategic Plans & Programs

A8E- Executive Services

A8P- Programs Division

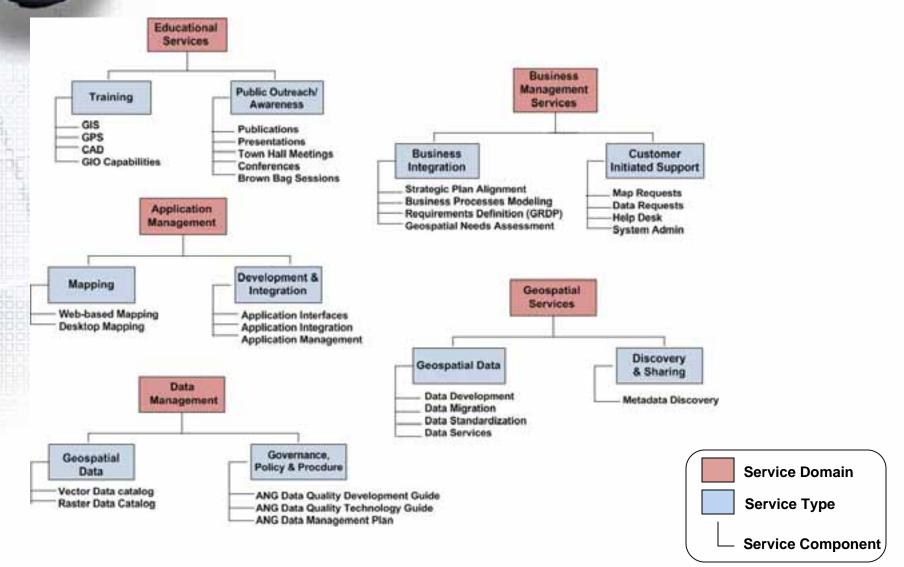
A8Y- Analysis Division

A8X- Strategic Plans Future Missions



ANG GIO Service Domains (SRM)







Data (DRM)

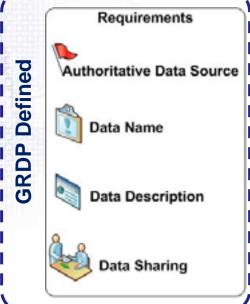
Data is managed & available as an asset to the enterprise, not just for the project that produced it...

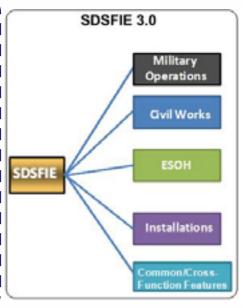


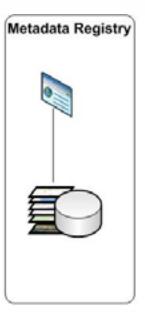
Standardized?

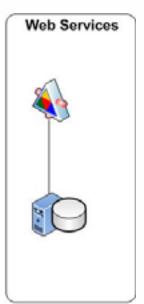
Discoverable?

Accessible?





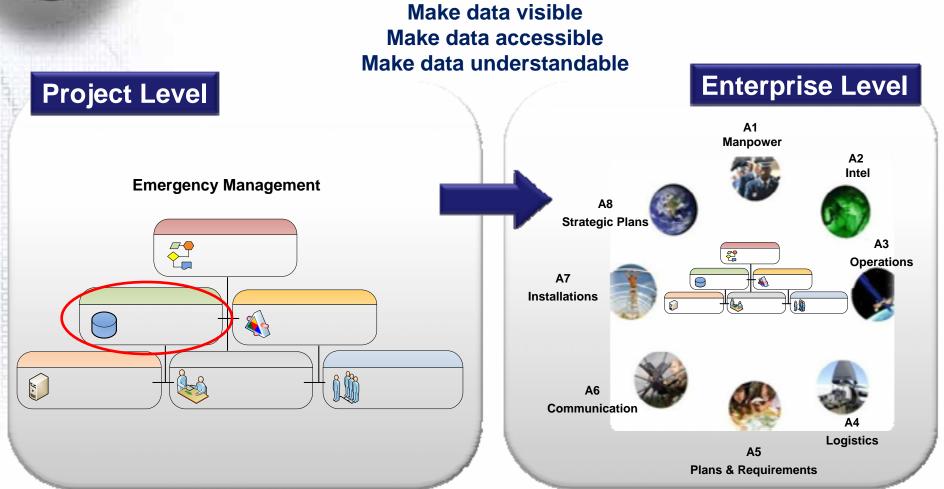




Defined Process



Goal of Data Reference model (DRM)

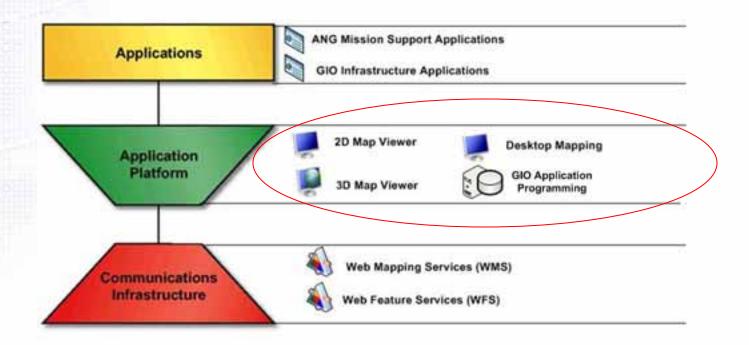




GIO Supported Technology (TRM)



Standards and technologies to support and enable the delivery of Service Components and Capabilities





GRDP Models Defined

The Business need for geospatial services

Requirements tied to Lines of Business

Business Drivers, Policy, Guidance

Required Services to support the Mission

-Ex: Education & Training, Geo Data Management

ocumenting Required Data to support the like in

Data Name, Authoritative Source, Data sharing

-Technical means to support the Mission

Ext 2D Viewer, 3D Viewer, Deakton Gis

-Standardize & Optimize Business Rules

- -Identified Performance Improvements
- -Examining Performance metrics between LOB

Req

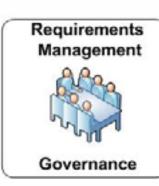
Identified Roles/Resp. needed to support the Mission

-Ex: Data Maintainer, Trainers, QA/QC



GRDP Phases





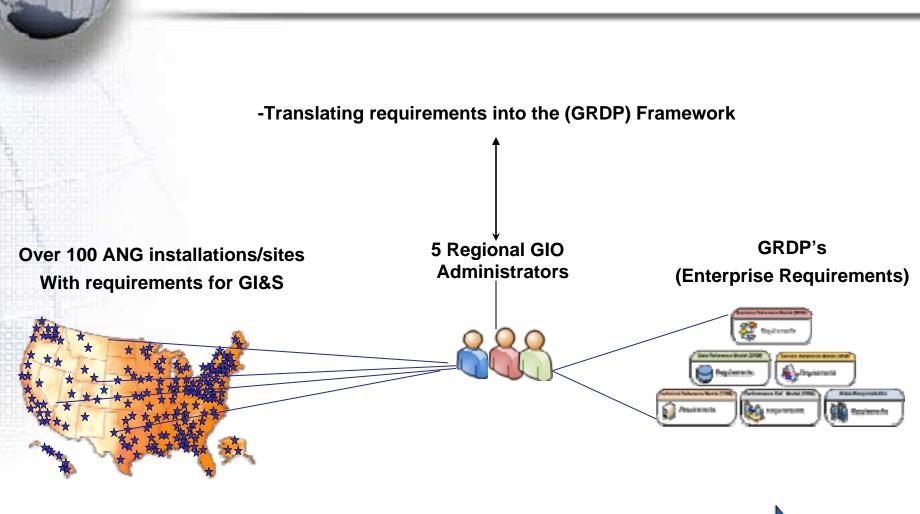








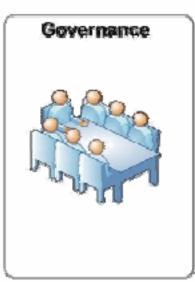
GRDP Requirements Definition





GRDP Requirements Management

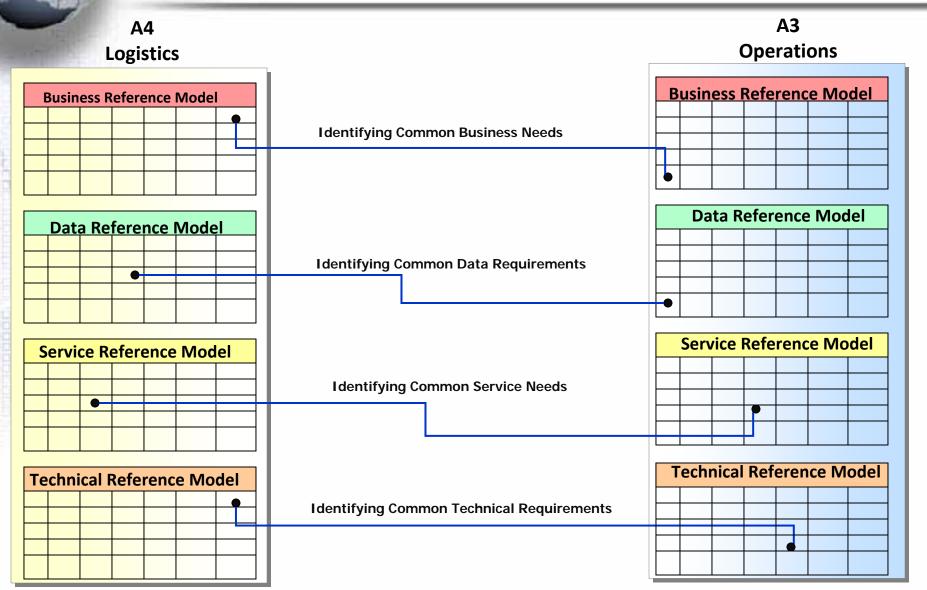






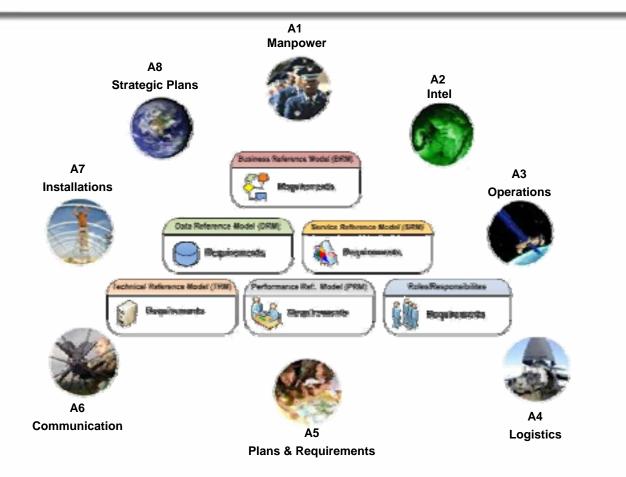
- -Transparency...publish requirements for the ANG enterprise to see
- -Validate....what will the ANG GIO will focus on

GRDP Requirements Analysis





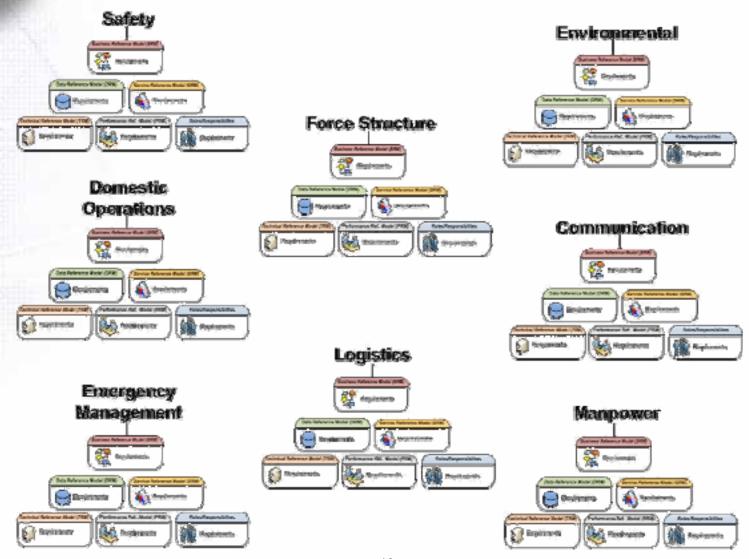
GRDP...Managing the GIO Portfolio



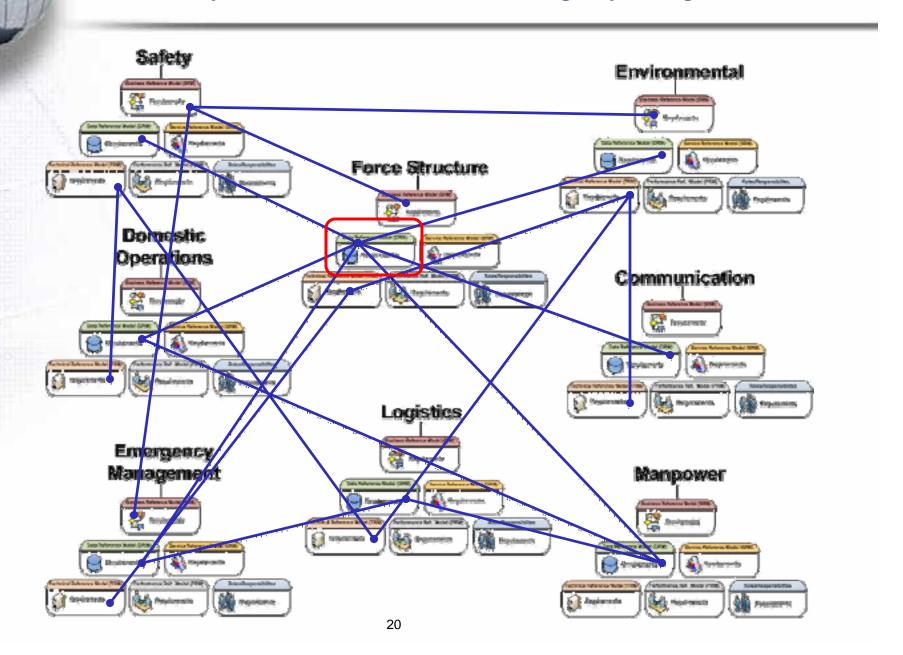
- ➤ Managing the capabilities that are supporting the missions
- ➤ Investing in technologies that are aligned to business needs / mission support
- ➤ Identifying the Corporate Bill to pay such as...shared data development & maintenance



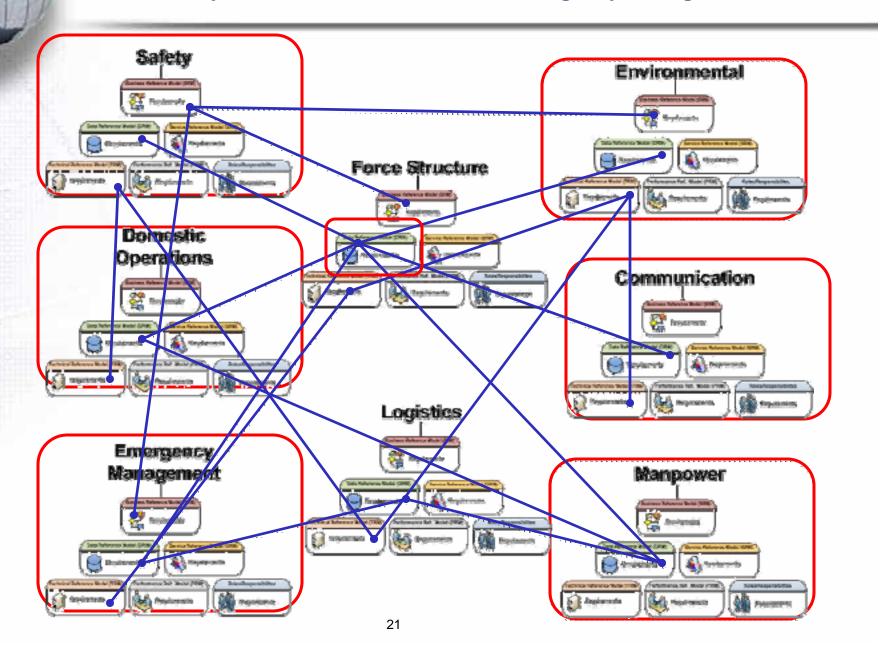
GRDP...How does the GIO define Support?



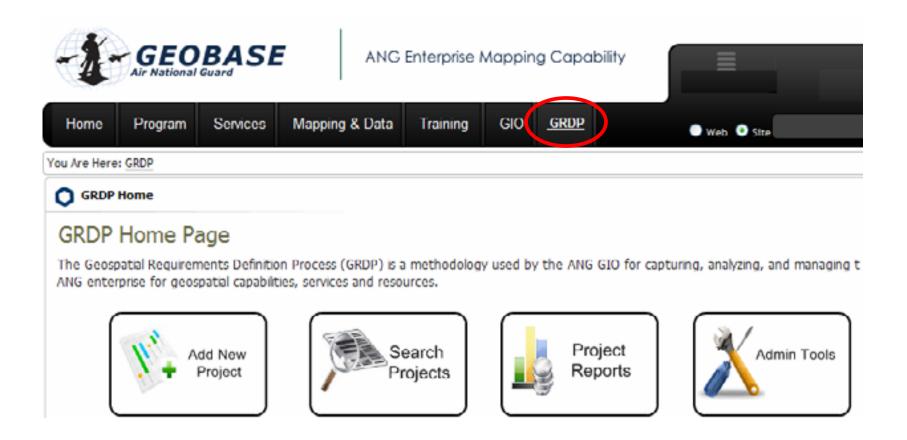
GRDP...How does the GIO define Support? Commonality between Force Structure & Emergency Management?



GRDP...How does the GIO define Support? Commonality between Force Structure & Emergency Management?

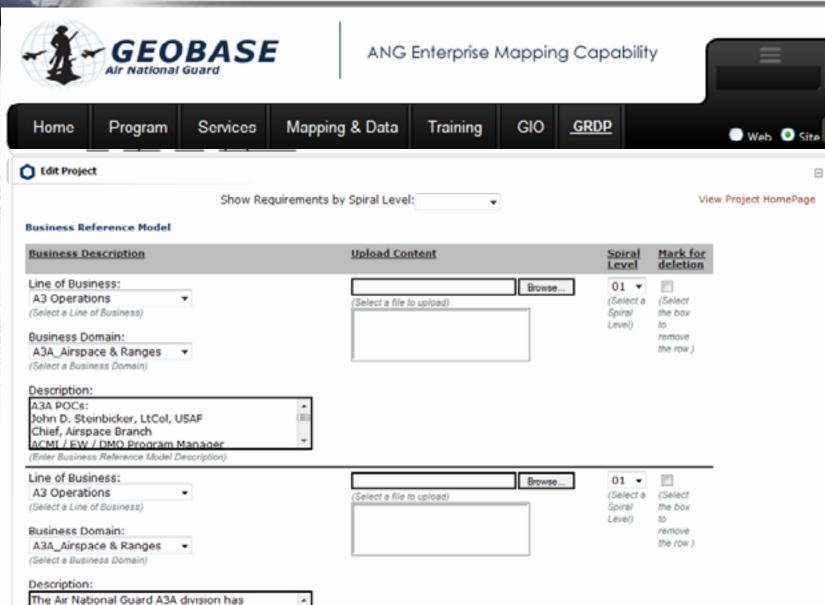


Web-based access to input, Analyze & Publish Requirements

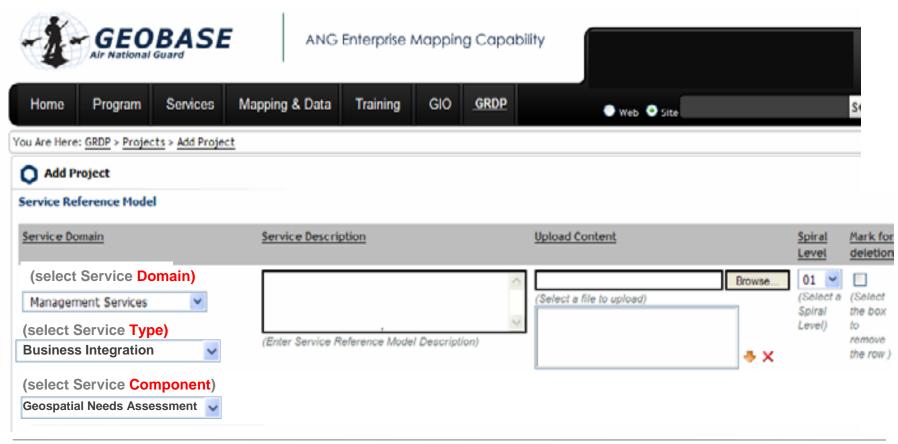














Military Operations Civil Works ESOH Installations Common/CrossFunction Features

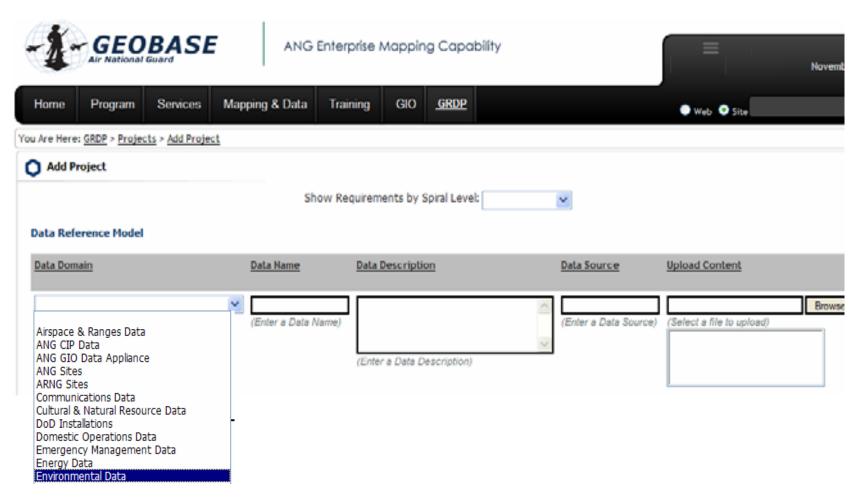
Domestic Ops

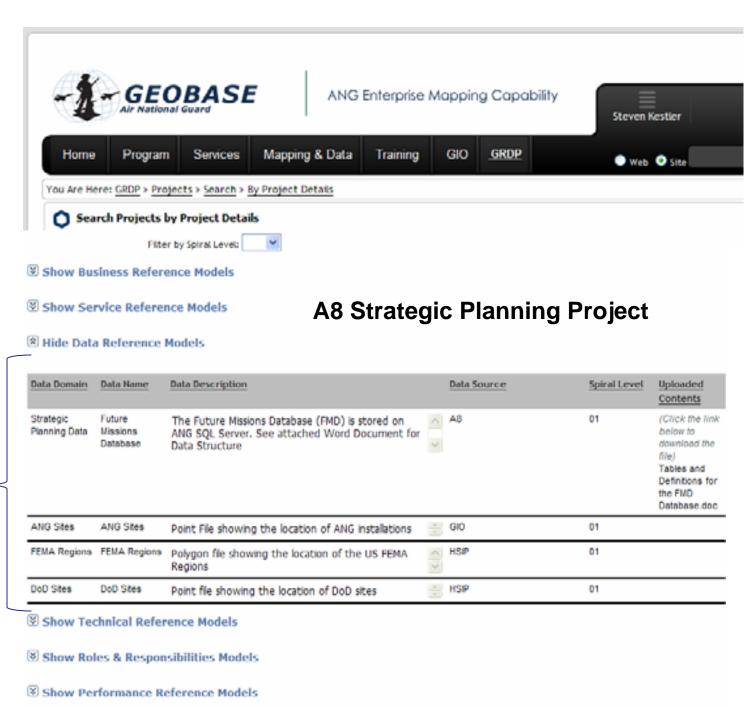


Expeditionary



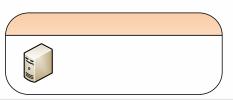


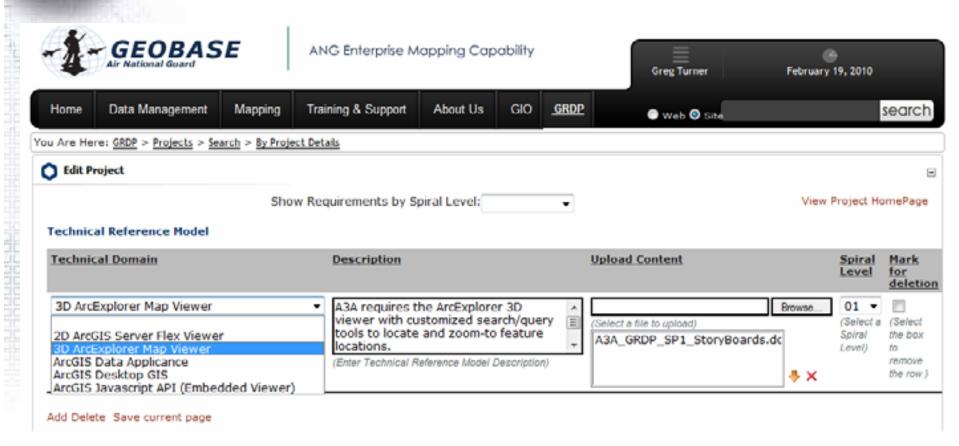




DRM Section of each
Project defines
the Mission Datasets
(MDS)

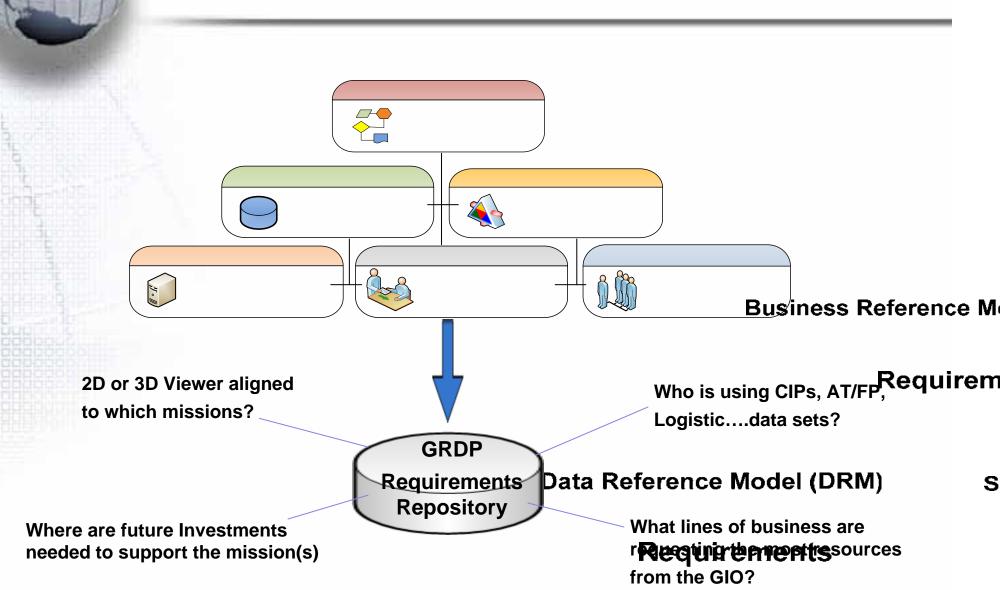








GRDP Reporting



Technical Reference Model (TRM)

Performance Ref.

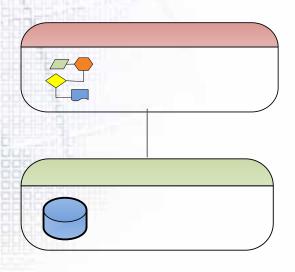


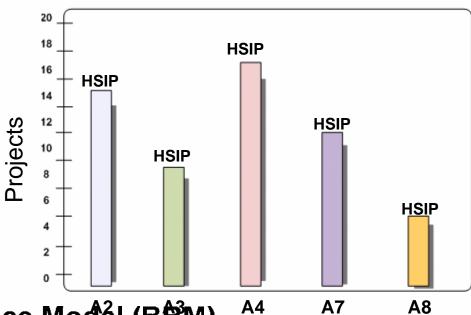
Querying the GRDP Framework

-HSIP Data

What ANG lines of business have the requirement for: -CIP Data

-Force Structure Data



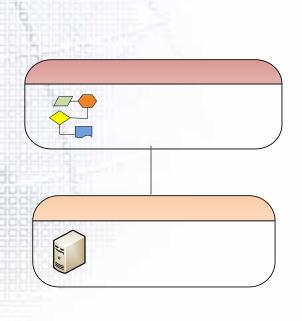


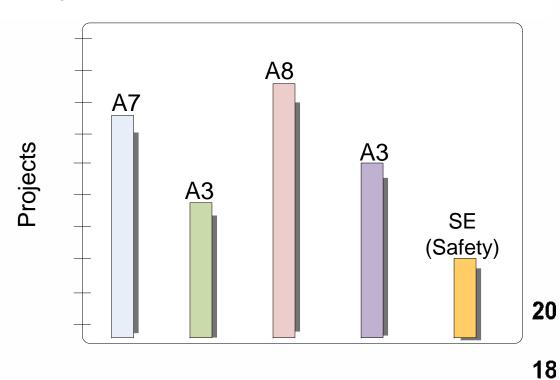
Business Reference Model (BRM)



Enterprise Geospatial Technology

What GIO Supported Technology is utilized most & by whom?





Business Reference Model (BRM)

16

Requirements

14

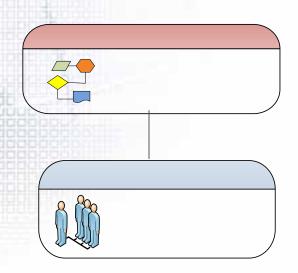


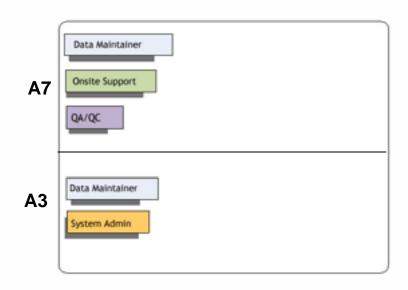
Enterprise Roles/Resp requirements

What geospatial projects or lines of business have the requirement for:



- Spatial Data Developers
- System Administrators

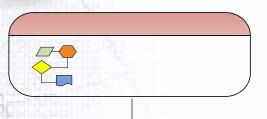






Business & Services supported by technology



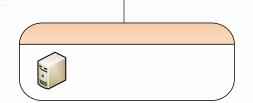


- A3A Airspace & Ranges
- A8 Force Structure
- A7 Asset Management



GIO Application Management Services

Business Reference Model (BRM)



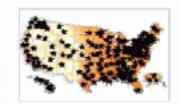
Requirements

ArcGIS Server 9.2 (Flex Viewer)



GRDP Benefits

Capture & Define Needs



Captoring Requirements in a distributed environment

- Consistent
- Standardized
- published for all stakeholders to view

Analyze



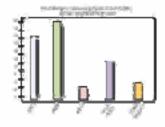
- Analyzing requirements via a methodology / framework:
- Alignment of requirements to resources
- analyzing connectivity between lines of business.
- Avoid duplication of efforts (data development, app development)
- Defining requirements into well structured statements

Govern



- Establishing project priorities
- Governing investments and initiatives
- Communication amongst stakeholders
- alignment with business & strategy

Reporting & Management



- Who's using what data?
- What Technology is supporting what missions?
- What business are requesting the most GIO resources?
- What GIO services are requested the most?
- Sharing of resources (software, hardware, maintenance)



Questions?