Alaska Data Integration working group (ADIwg)

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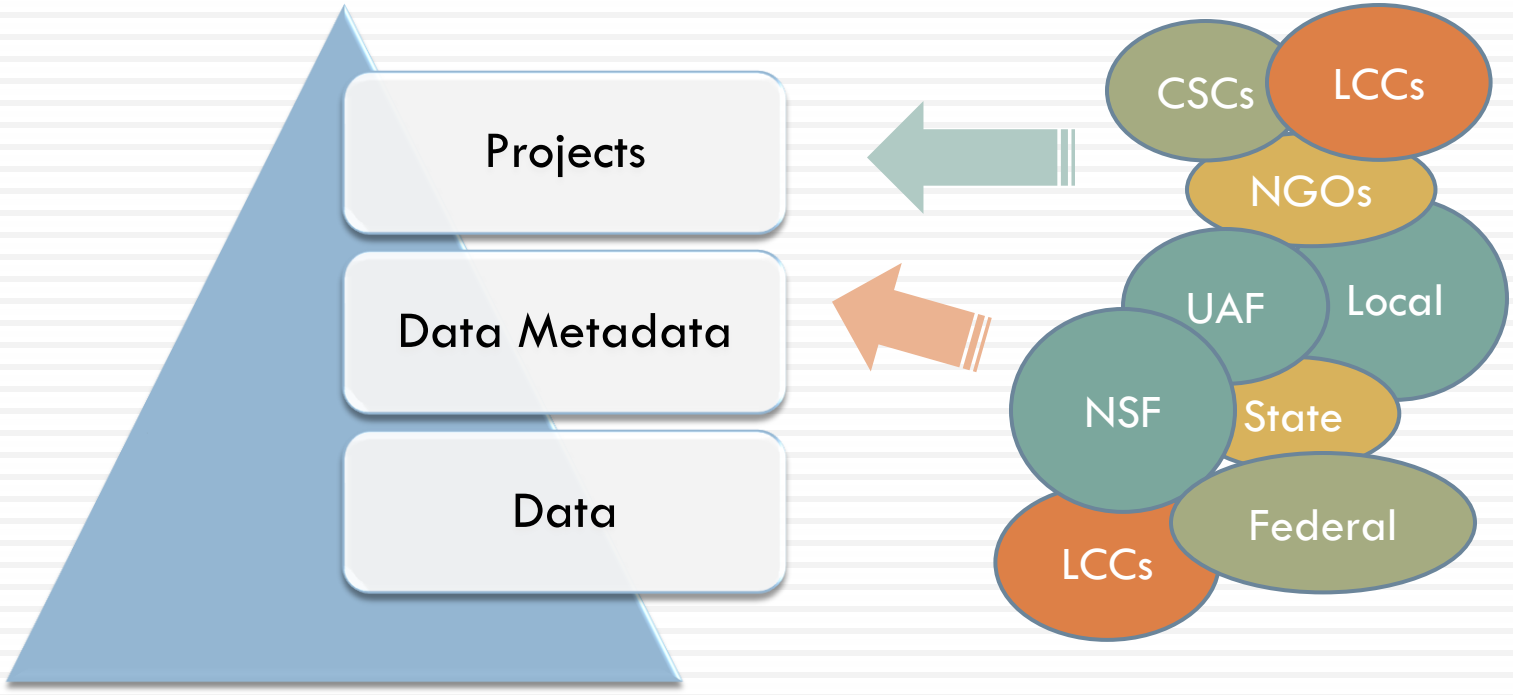
Stan Smith (USGS)

AOOS/USACE Workshop
Coordination of Coastal and Ocean Monitoring
August 9, 2010

Information Managers

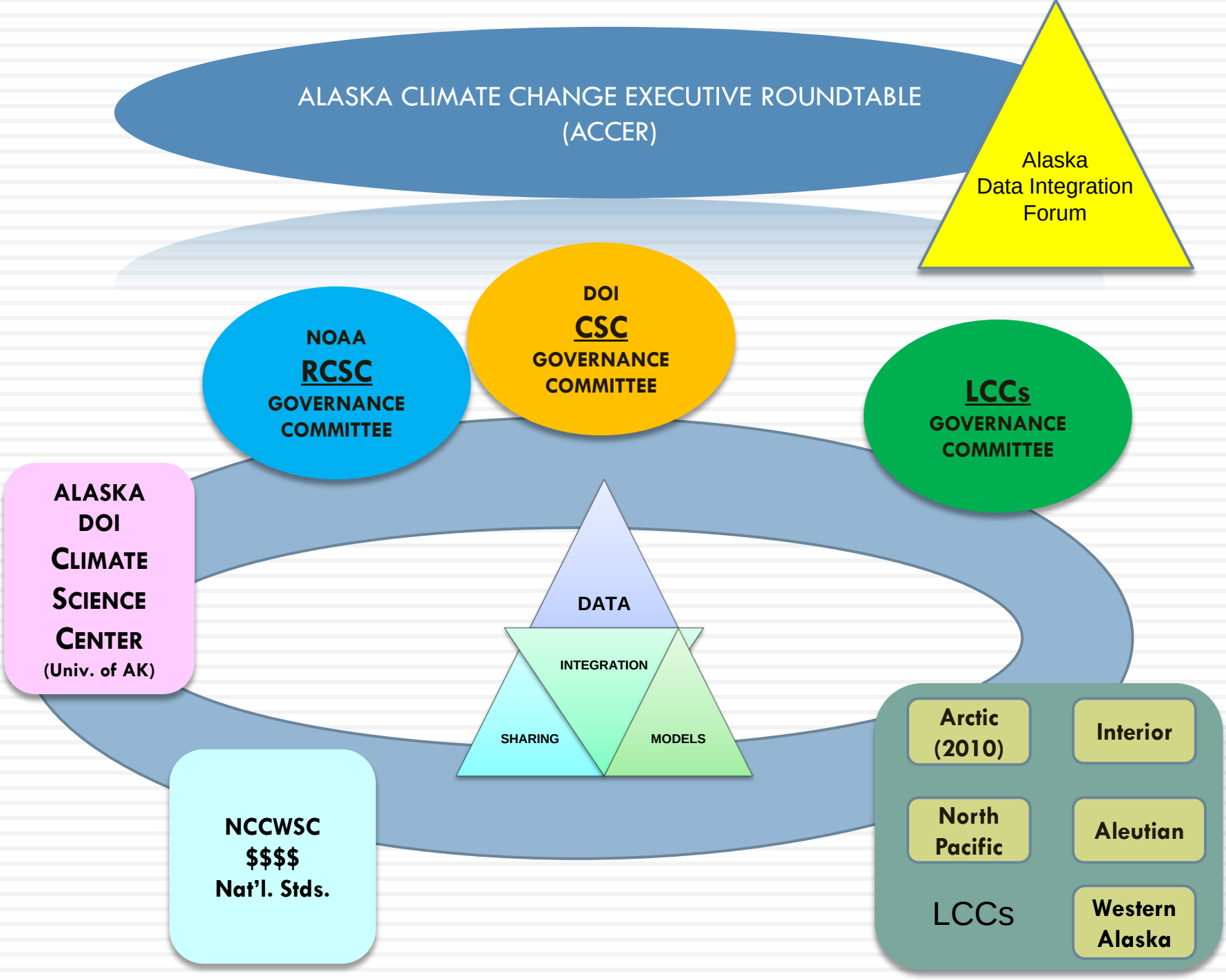
New Missions – Old Problems

Collaboration - Communication

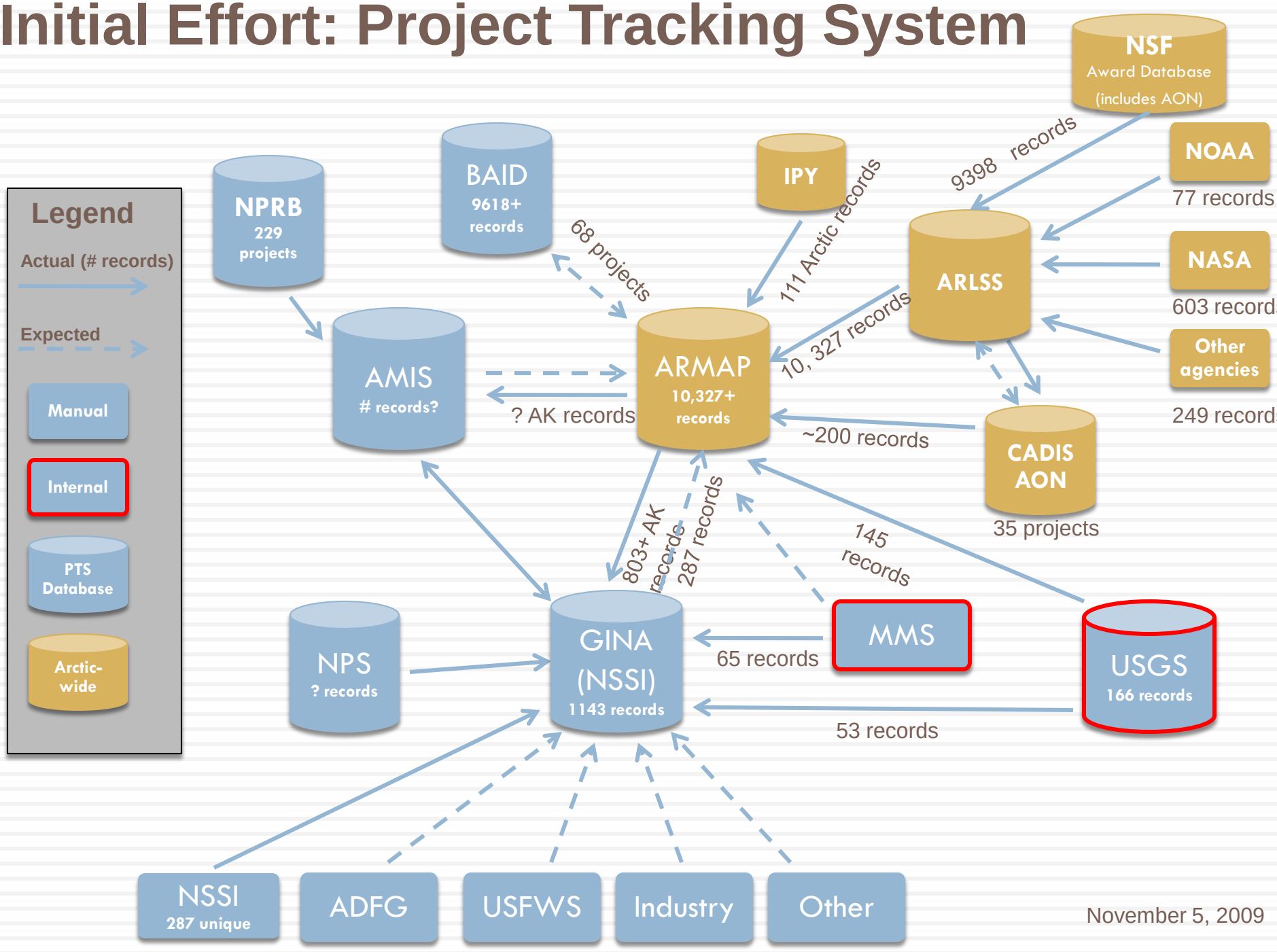


Current Membership

- **Federal**
  - **DOC**: NOAA
  - **DOI**: BLM, FWS, MMS, NPS, USGS
- **State of Alaska**
  - UAF Geographic Information Network of Alaska (GINA)
- **Non-Governmental Organizations (NGOs)**
  - Arctic Ocean Observing System (AOOS)
  - Nunatech Consulting, Arctic Research Mapping Application (ARMAP)
  - North Pacific Research Board (NPRB)
  - North Slope Science Initiative (NSSI)


ALASKA CLIMATE CHANGE EXECUTIVE ROUNDTABLE
(ACCER)
Alaska
Data Integration
Forum
NOAA
RCSC
GOVERNANCE
COMMITTEE
DOI
CSC
GOVERNANCE
COMMITTEE
LCCs
GOVERNANCE
COMMITTEE
ALASKA
DOI
CLIMATE
SCIENCE
CENTER
(Univ. of AK)
DATA
INTEGRATION
SHARING
MODELS
NCCWSC
$$$$
Nat'l. Stds.
Arctic
(2010)
Interior
North
Pacific
Aleutian
LCCs
Western
Alaska

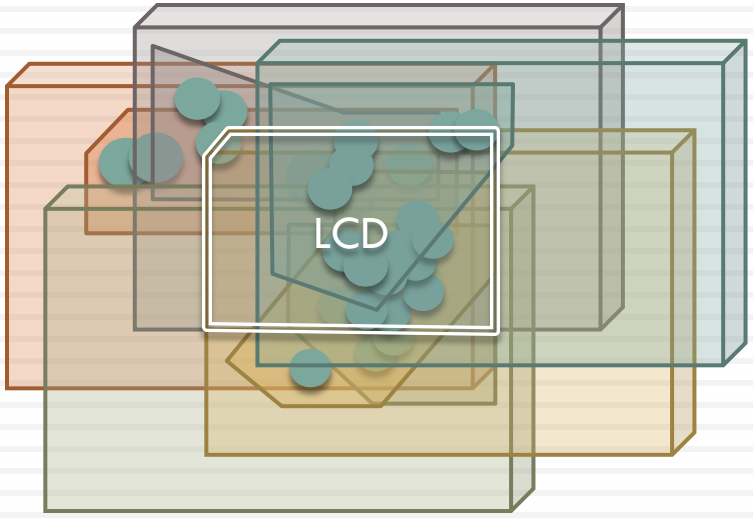
Initial Effort: Project Tracking System



November 5, 2009

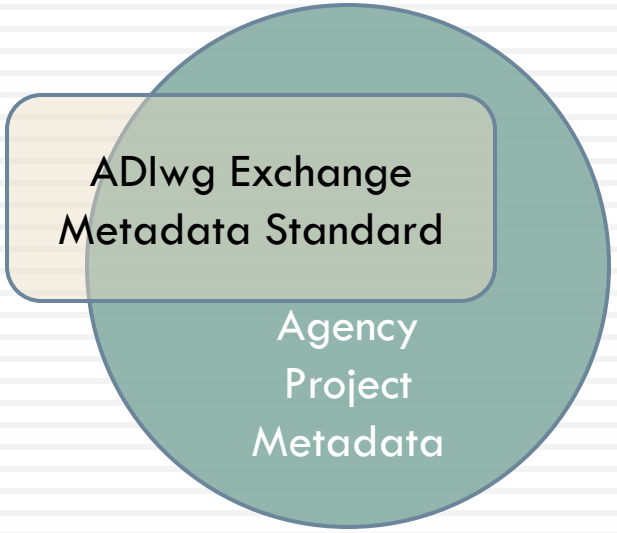
Project Tracking System: Metadata Core Fields

- What is the minimum core field set we must support?
- What is the richest core field set we are willing to support?



Serve the least common denominator

-OR-



Everyone stretch to support a standard

Candidate Metadata Field Set

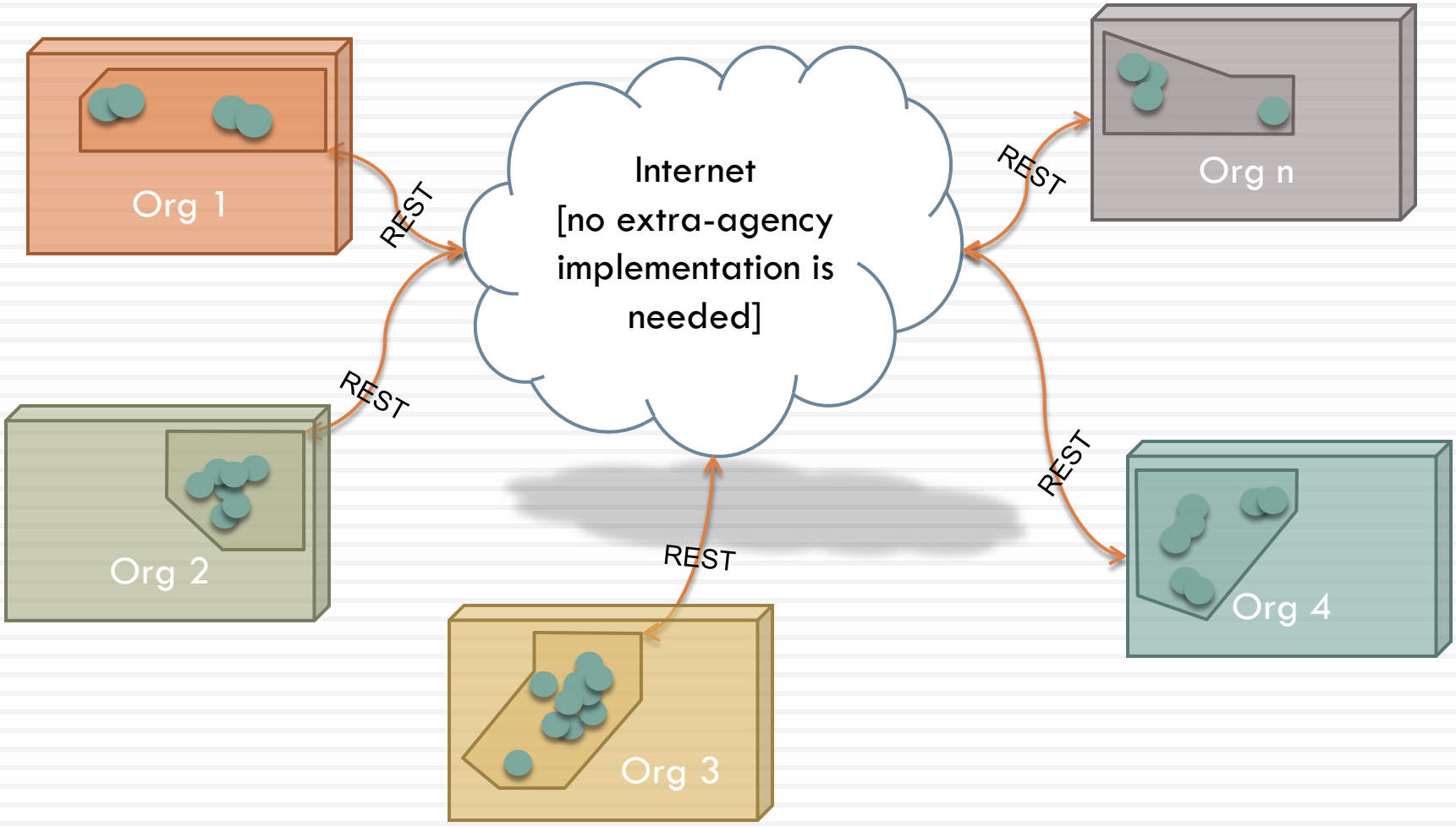
FGDC/NAP compliant where possible

ADI WG Field	Databse Field	Format	FGDC Synonym	NAP Synonym/Field
Full project title (1-1)	PROJECT.project_name	Text	<metadata> | <idinfo> || <citation> ||| <citeinfo> |||| <title>{project name}	<gmd:MD_Metadata> | <gmd:identificationInfo> || <gmd:MD_DataIdentification> ||| <gmd:citation> |||| <gmd:CI_Citation> ||||| <gmd:title> |||||| <gco:CharacterString>{project name}
Project Start Date (0-1)	PROJECT.project_start_date	yyyy-mm-dd | yyyy-mm | yyyy	<metadata> | <idinfo> || <timeperd> ||| <timeinfo> |||| <rngdates> ||||| <begdate>{start date}	<gmd:MD_Metadata> | <gmd:identificationInfo> || <gmd:MD_DataIdentification> ||| <gmd:citation> |||| <gmd:CI_Citation> ||||| <gmd:date> |||||| <gmd:CI_Date> ||||||| <gmd:date> |||||||| <gco:Date>{start date} ||||||| <gmd:dateType> |||||||| <gmd:CI_DateTypeCode>beginDate
Project End Date (0-1)	PROJECT.project_end_date	yyyy-mm-dd | yyyy-mm | yyyy	<metadata> | <idinfo> || <timeperd> ||| <timeinfo> |||| <rngdates> ||||| <enddate>{end date}	<gmd:MD_Metadata> | <gmd:identificationInfo> || <gmd:MD_DataIdentification> ||| <gmd:citation> |||| <gmd:CI_Citation> ||||| <gmd:date> |||||| <gmd:CI_Date> ||||||| <gmd:date> |||||||| <gco:Date>{end date} ||||||| <gmd:dateType> |||||||| <gmd:CI_DateTypeCode>endDate

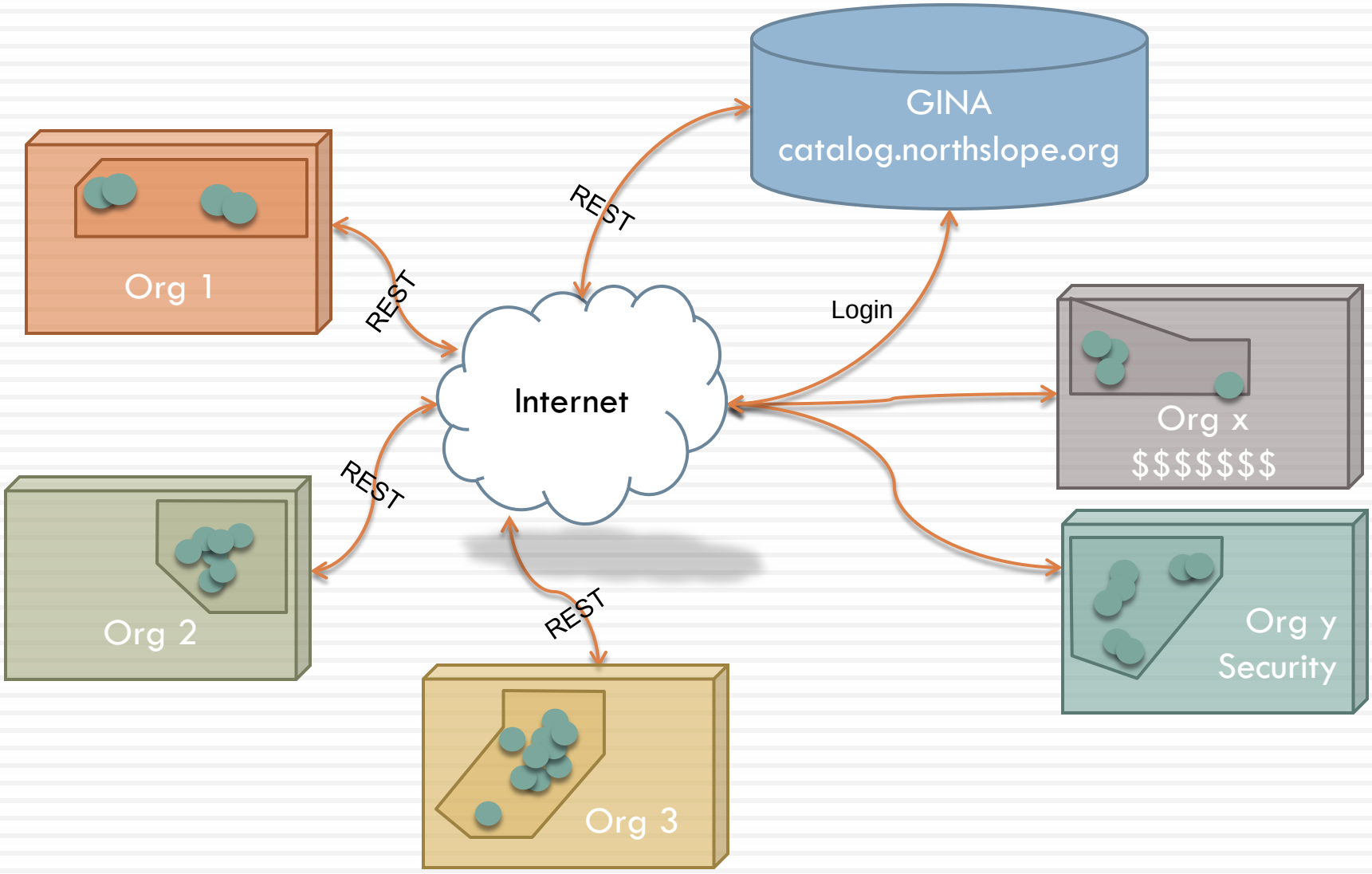
Distribution: Single Source

Independent Implementation

RESTful Architecture Standard



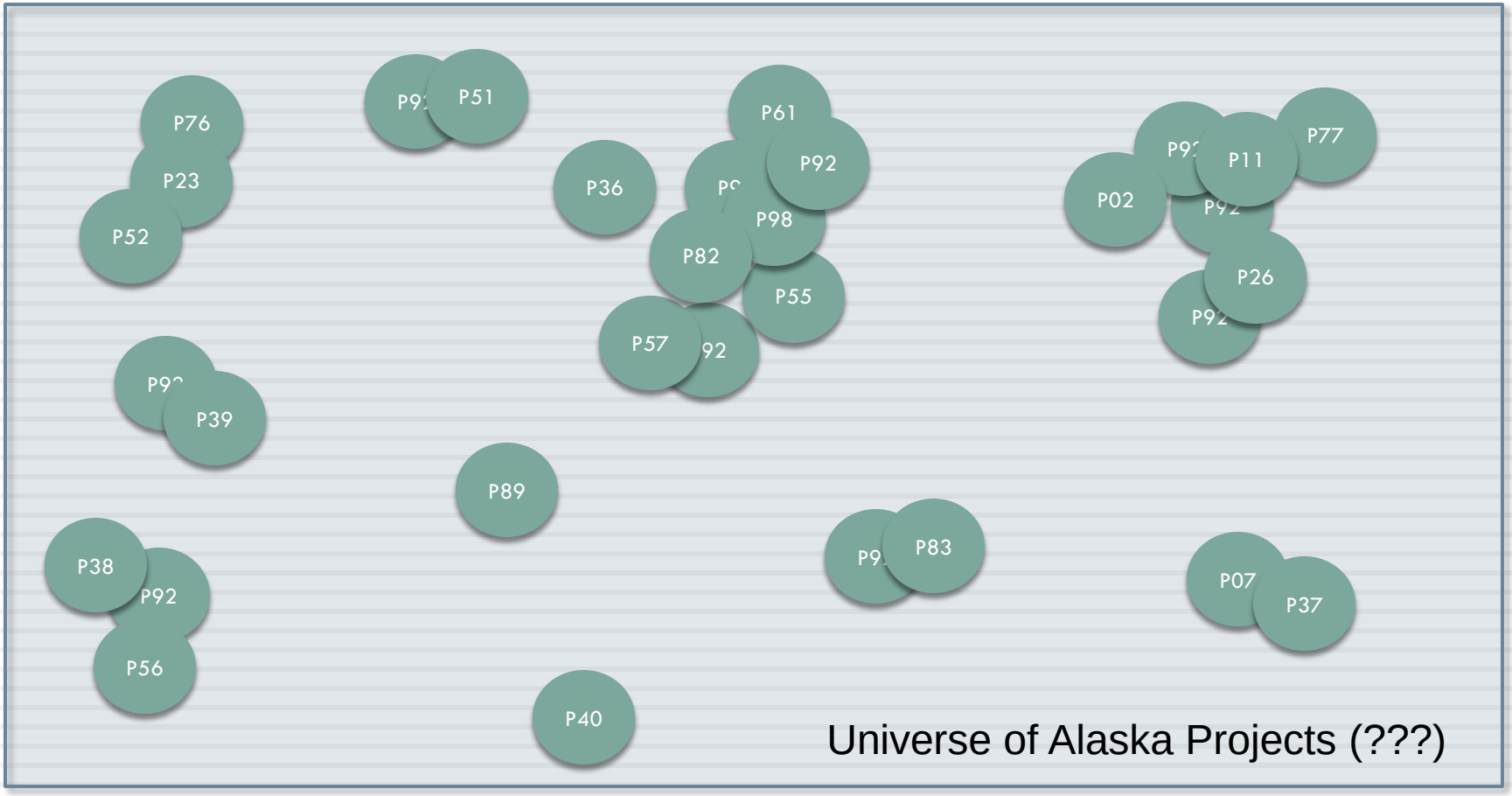
Distribution: Single Source + Shared Services



ADIwg Progress: Project Metadata

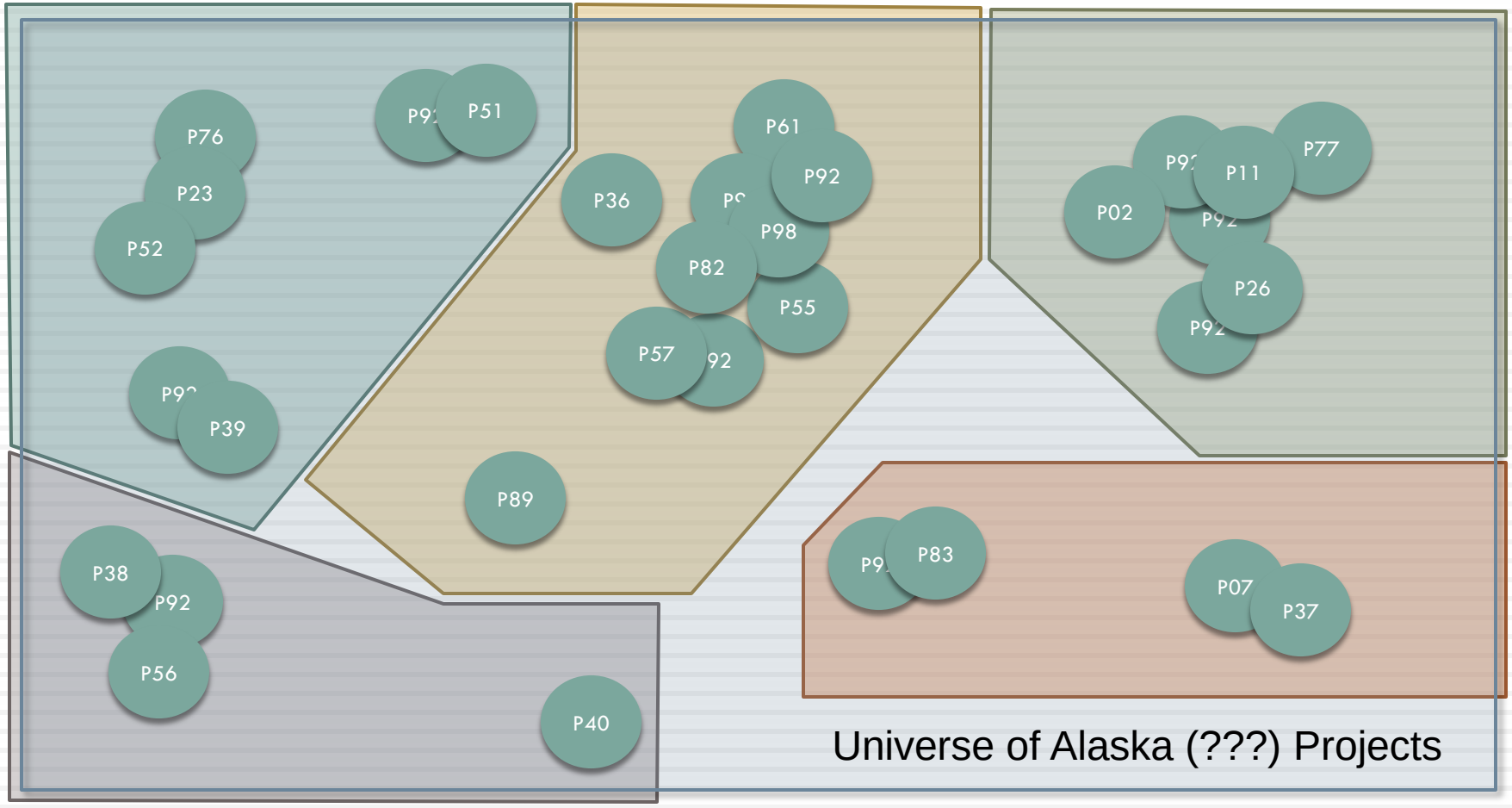
- Core fields / definitions / formats
- Data model
- Full record mapping to FGDC & ISO 19115 NAP
- Domains (lookup tables)
- Geo-referencing
- Delivery architecture – RESTful services
- Sample REST service in .net and RoR

Universe of Alaska Projects



Pnn = Project

Assign Sole Responsibility



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