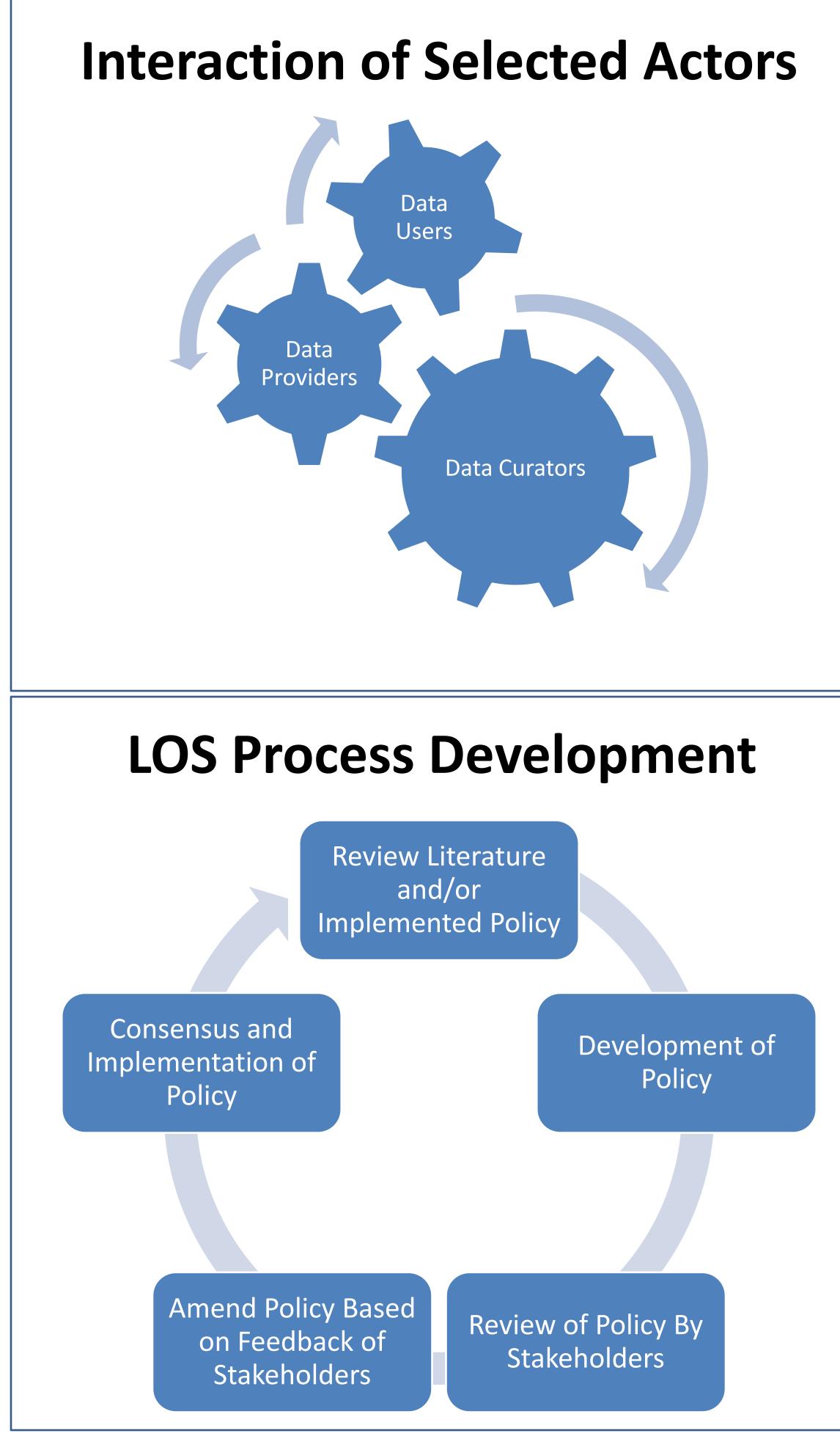


Establishing Levels of Service Within NCAR: ACADIS Case Study W. R. "Rob" Christensen II, Matthew Mayernik, Eric Nienhouse

Introduction

The purpose of this case study is to establish a framework for creating a levels of service policy at National Center for Atmospheric Research (NCAR). The Advanced Cooperative Arctic Data Information Service (ACADIS) is the exemplar to demonstrate how a levels of service policy is implemented within an NCAR group.



Acknowledgments: The first author would like to thank several individuals and organizations that made this internship poster presentation possible. Those individuals and organizations that made this internship poster presentations that made this internship poster presentation possible. Those individuals and organizations that made this internship poster presentation possible. Those individuals and organizations that made this internship poster presentations that made this internship poster presentation possible. Those individuals and organizations that made this internship poster presentations that made this internship poster presentation possible. Those individuals and organizations that made this internship poster presentation possible. Museum and Library Science (IMLS); National Center for Atmospheric Research (NCAR) and its staff members; My Fellow DCERC NCAR Interns; The Roman Catholic Church; My Family (Father, Mother, Brother); and the Holy Trinity.

ACADIS Lovals of Samuisa Matrix

ACADIS Levels of Service Matrix				ACADIS Levels	
Category/LOS	General	Special	Unique	Actor	<u>Defini</u>
Archive or Repository	NSF funded Arctic researcher/data provider possesses the ability to archive data into the ACADIS Gateway. The data provider establishes an account through the ACADIS Gateway, and the data curators approve data provider's account. The data provider uploads the data set into the ACADIS Gateway that displays the data set for data users to access.	Non-NSF funded Arctic researcher/data provider seeks permission from the data curators to deposit data into the ACADIS Gateway.	The data provider requests that EOL Arctic data set be archived due to risk of losing data. The data curators determine value of data and perform curation services (e. g. access, copy, establish access permissions) to ensure data access for data users.	Data Provider	The so scient
				Data curators	The in
				Data User	Indivio from o
				Metadata User	Indivi data s
Metadata	The ACADIS Gateway requires that the data provider complete a minimum of seven metadata fields before data set is accepted for submission by the ACADIS Gateway.	The ACADIS Gateway permits and the data provider provide additional metadata information and/or the data curators can assist the data provider in the authoring and preparing of the metadata record.	The data curators create, modify, or transfer metadata to the EOL Arctic Field Project Archive.	ACADIS Gateway	A mac storag and of Arctic
				EOL Arctic Field Project Archive	The A sets m
Documentation		The data curators author and prepare the readme file for the data provider. The data curators upload the readme file with the associated data set to the ACADIS Gateway.	The data curators create, modify or transfer readme or other non- metadata files to the EOL Arctic Field Project Archive.	ACA	ADIS Le
				Category Def	<u>inition</u>
				res	s is the leve earchers.
Quality Control	metadata, but the ACADIS Gateway provides metadata validation (example: ensures the accurate entering of latitude and longitude data).	The data curators provide quality control to data providers on request to check metadata, ensure the readme file is consistent with the data set.	The data curators consult with the data provider to ensure data files and metadata are complete and correct. The data curators may ensure the readability of processed data.	pro	s is the leve viders. Afte el of service
				•	s is the leve e basis.
				ACADIS	_evels c
Distribution & Retrieval	The ACADIS Gateway makes the data set, metadata, and other information available to data and metadata users through the ACADIS Gateway's web interface. The data and metadata users retrieve the data set and other information via the ACADIS Gateway.	Data users access the data through the ACADIS Gateway, but the data is discoverable through metadata that is harvested from the EOL Arctic Field Project Archive Server. The ACADIS Gateway serves as the public distribution but the EOL Arctic Field Project Archive is the	The data curators will create a special web interface (beyond the normal ACADIS Gateway web interface) for a data provider so that data users to access and use the data set, readme files, metadata, and other information.	<u>Variable</u>	Definition
				Archive or Repository	The initial provided
				Metadata	Information users.
Long-Term	The ACADIS Gateway uses Chronopolis to	authoritative source of the data. The data curators place data and	The data curators place data and	Documentation	Information understar
Preservation	annually capture a snapshot of entire ACADIS Gateway Archive. The captured data is rarely manipulated by ACADIS once the data is in a long-term preservation state.	related files on the NCAR HPSS Tape Storage System.	related files on the NCAR HPSS Tape Storage System.	Quality Control	Quality co correctne
					ACADIS di methods.
User Services	The data curators provide basic user services to data providers (initial project consultation, repository submission requests from non-NSF Arctic researchers/data providers, ACADIS Gateway technical issues) and users (request for basic information, ACADIS Gateway technical issues).	The data curators provide the data provider with data organization, project consultation, enhanced web interface services for data sets, and assists the data provider with complex requests for information.	The data curators provide the data provider with data organization, project consultation, enhanced web interface services for data sets, and assist the data providers with complex requests for information.	Long-Term Preservation	This refer
				User Services	ACADIS pr and reque

General Recommendations for Levels of Service Policy

- Collaboration amongst the stakeholders involved in data use process
- Continual review of the levels of service policy
- Review other data repository organizations level of service policies while constructing or refining levels of service policy

• Define all actors, categories, and variables so that there is a common understanding of the levels of service matrix components • Ensure that there is a clear distinction between the different levels of service





Is of Service Actors and Definitions Table

scientist/principal investigator and/or individual appointed by the ntist/principal investigator to submit a data set to the ACADIS Gateway.

individuals within ACADIS responsible for data curation services.

viduals that use the ACADIS Gateway to extract or obtain information data sets stored within the ACADIS Gateway.

viduals or machines that harvest metadata information to make ACADIS sets discoverable for data users to use.

achine technology that automates certain functions and provides digital age to store data sets along with associated metadata, documentation, other information. This also serves as the "front door" access to the ic Field Project Archive.

Arctic Field Project Archive serves as a repository for unique Arctic data managed by the Earth Observing Laboratory (EOL).

evels of Service and Categories Table

vel of service regularly provided by ACADIS to all NSF funded Arctic

el of service where ACADIS provides enhanced services to data ter an individual evaluation, some special cases may revert to a general

vel of service where ACADIS provides individualized services on a case by

of Service Variables and Definitions Table

al storage of data set, readme file, metadata, and other information d by a data provider.

tion provided to make the data set discoverable to data and metadata

tion (readme files) provided to assist data users to analyze and and data files.

control refers to the checking and monitoring of completeness and ness of metadata submitted to ACADIS.

distributes information through the ACADIS Gateway or through other . The data or metadata user discovers and can download data.

ers to the storage of data with a focus upon integrity of data over time.

provides project consultation, data organization, repository acceptance, uest for information.

• Understand that no two levels of service policies are identical due to unique nature of organizations & data