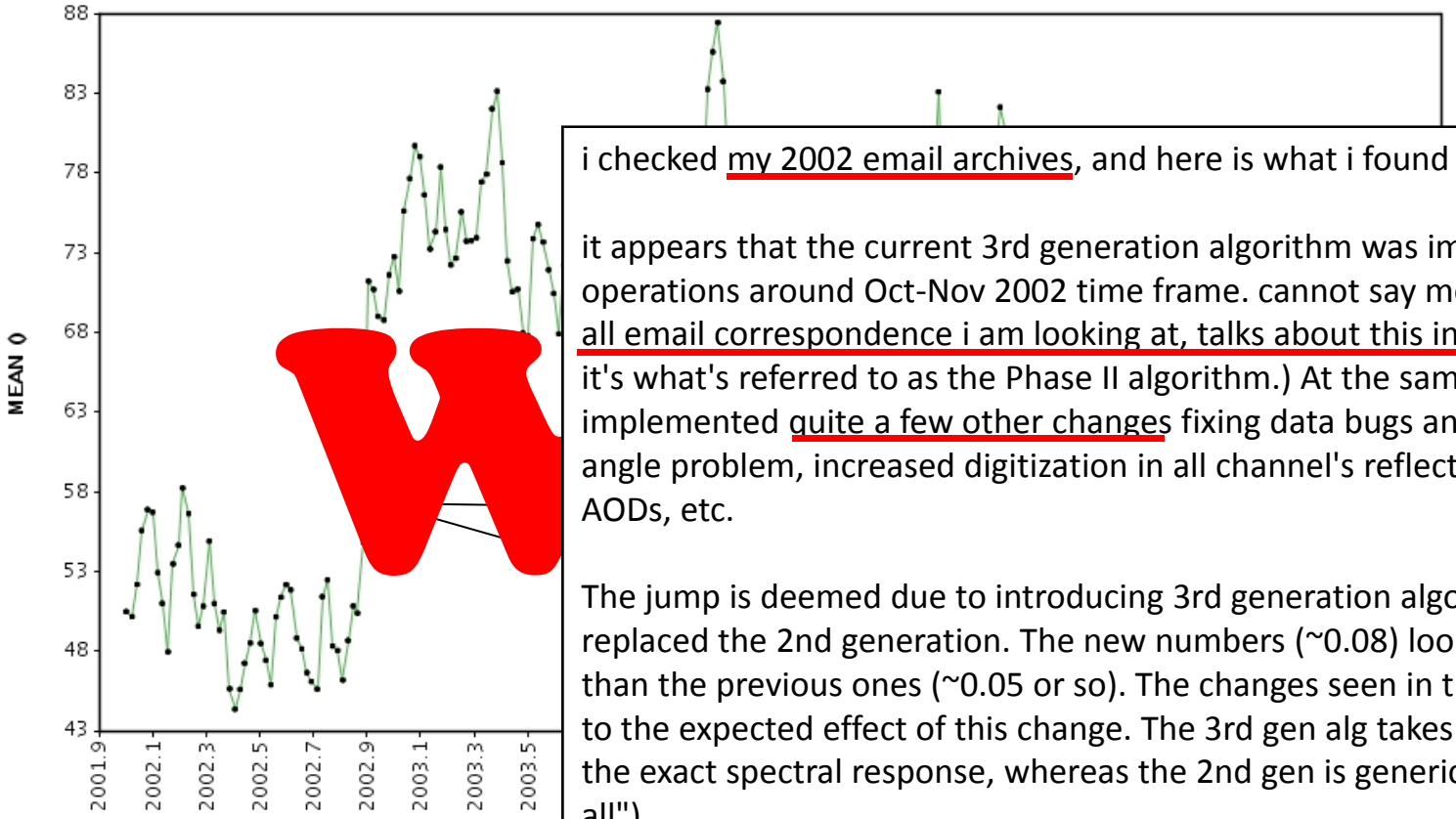
Transitioning to ISO

Ted Habermann, NOAA/NESDIS/NGDC



i checked my 2002 email archives, and here is what i found out:

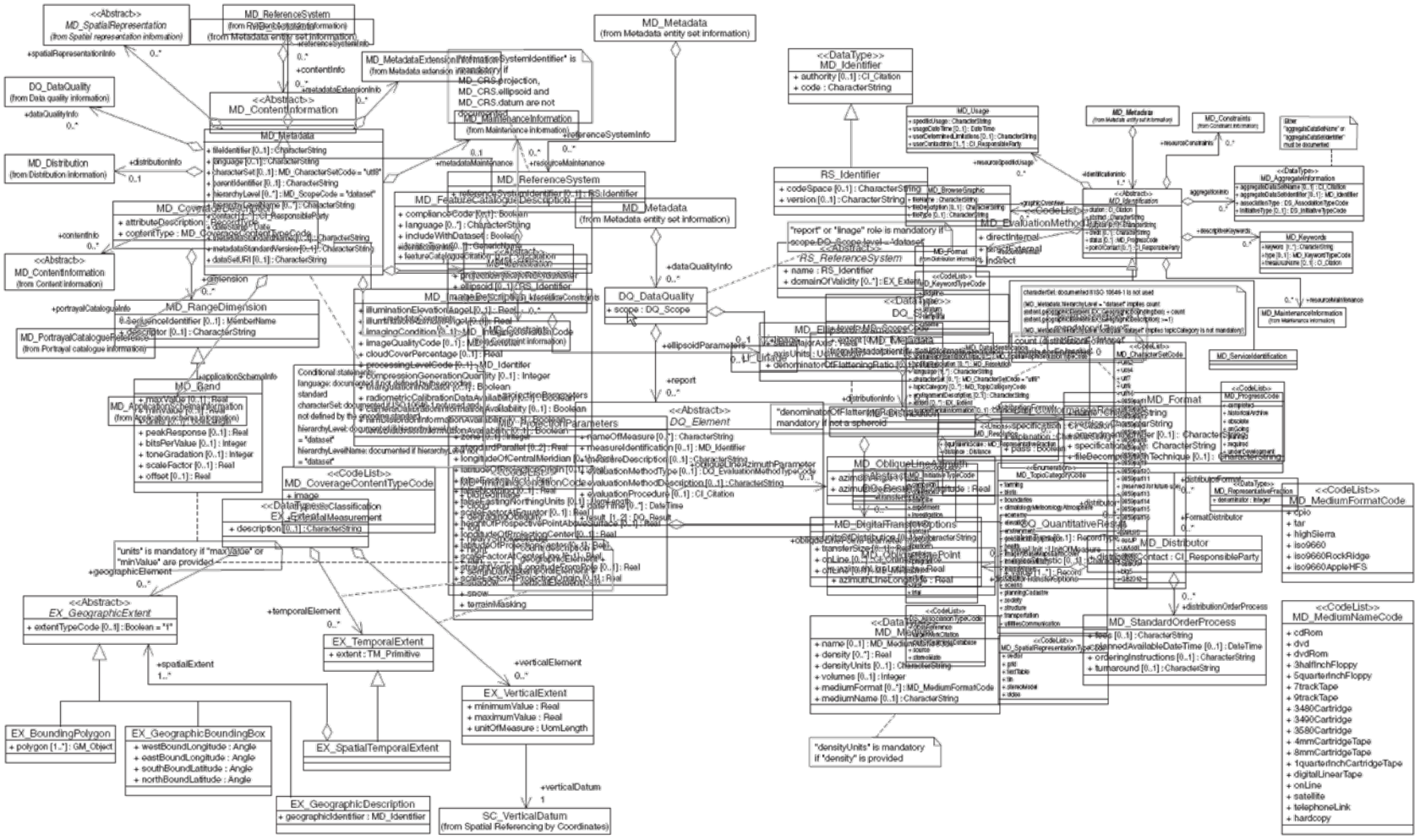
it appears that the current 3rd generation algorithm was implemented into operations around Oct-Nov 2002 time frame. cannot say more precisely, as all email correspondence i am looking at, talks about this indirectly. (maybe it's what's referred to as the Phase II algorithm.) At the same time, we had implemented quite a few other changes fixing data bugs and formats: view angle problem, increased digitization in all channel's reflectances and AODs, etc.

The jump is deemed due to introducing 3rd generation algorithm, which replaced the 2nd generation. The new numbers (~0.08) look more realistic than the previous ones (~0.05 or so). The changes seen in the data is close to the expected effect of this change. The 3rd gen alg takes into account the exact spectral response, whereas the 2nd gen is generic ("one size fits all").

hopefully this settles the issue..

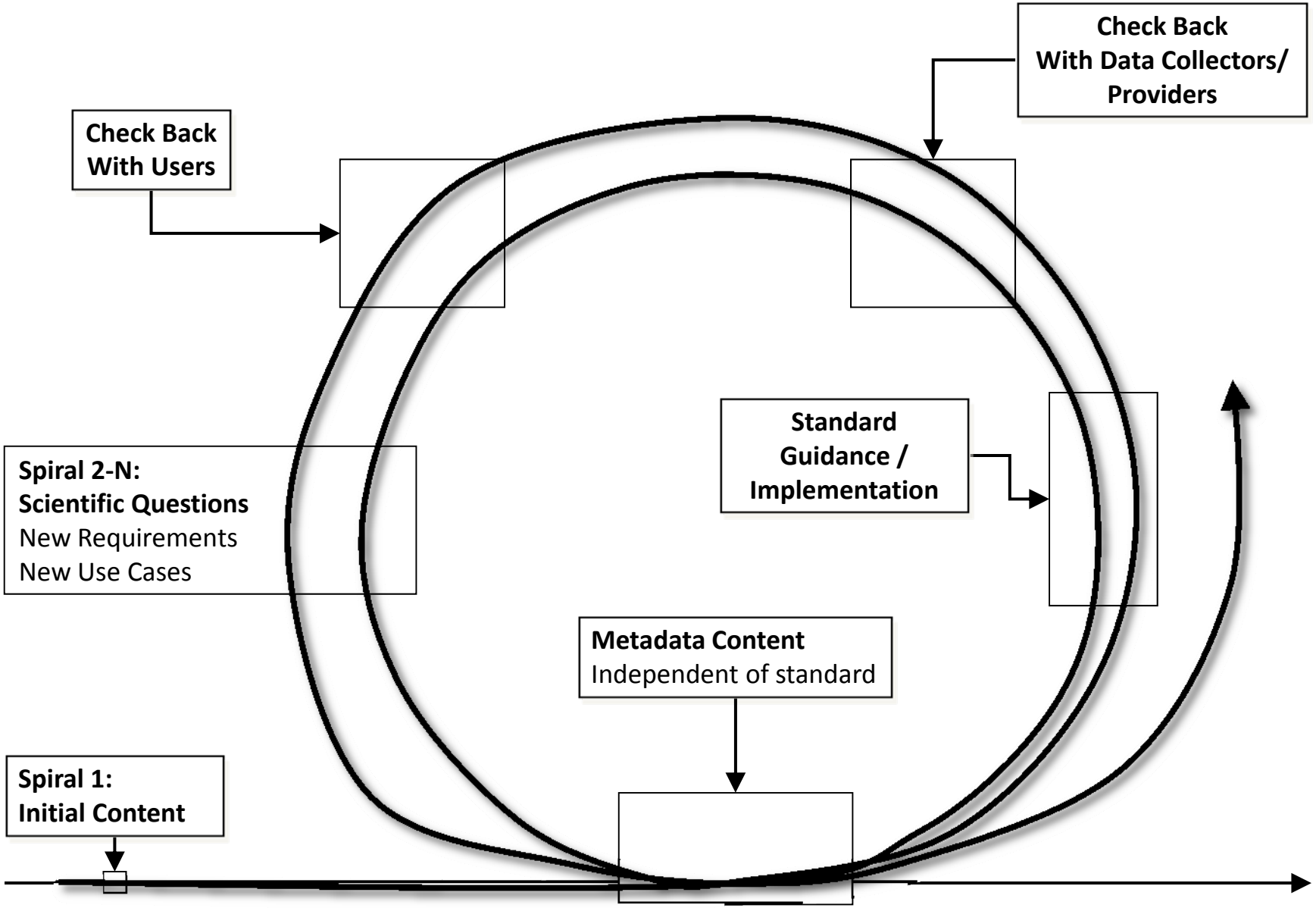
Documentation: It’s not just discovery...

The ISO Standards are broad

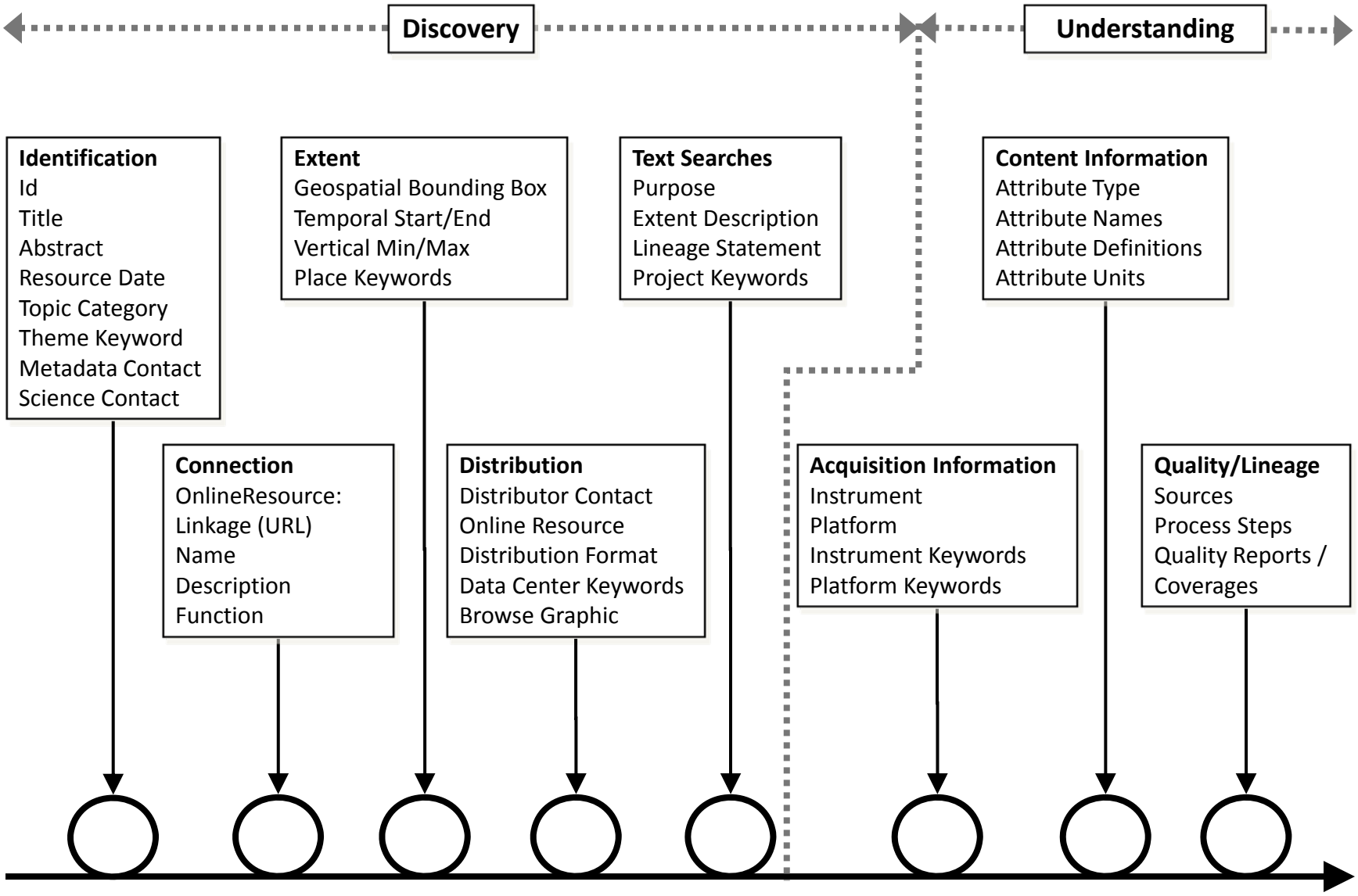


What Goes Where?

Spiral Development / Training



Potential Spirals

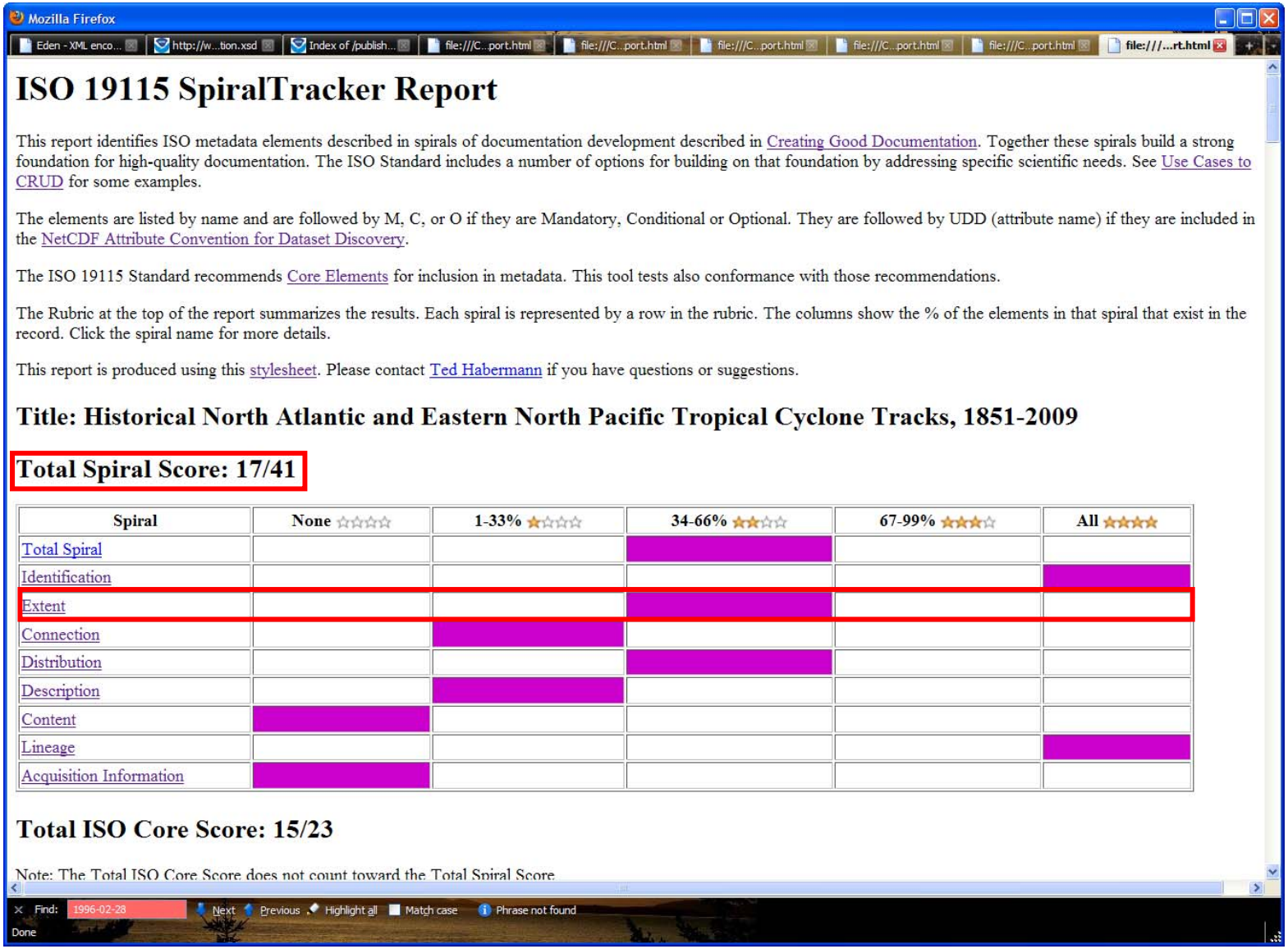


Spirals and Rubrics

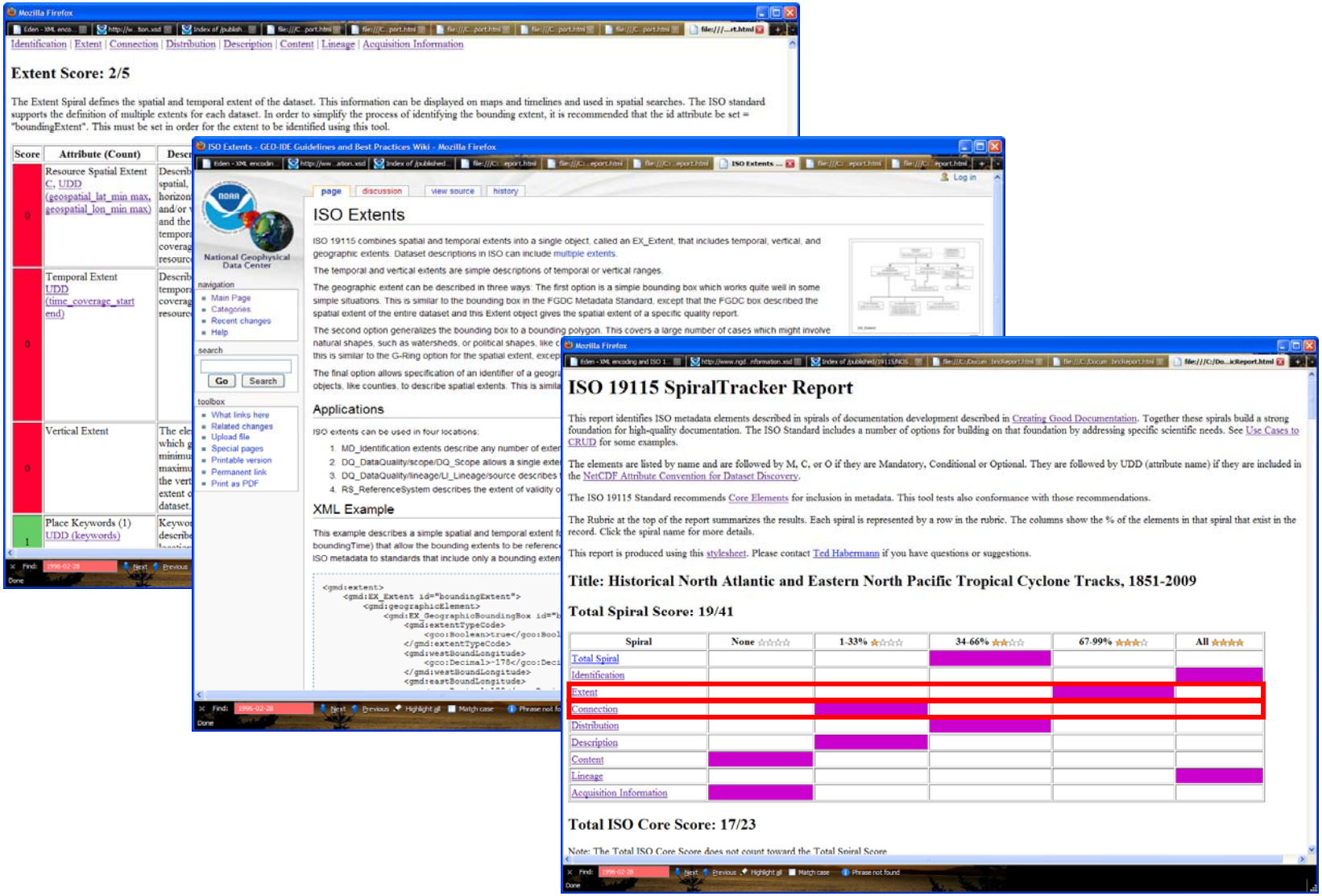
Spiral	None	0-33%	34-66%	67-99%	All
Identification					
Connection					
Extent					
Distribution					
Description					
Content					
Lineage					
Acquisition Information					

Metadata Evaluation for Dataset X
Date: 2010/10/24

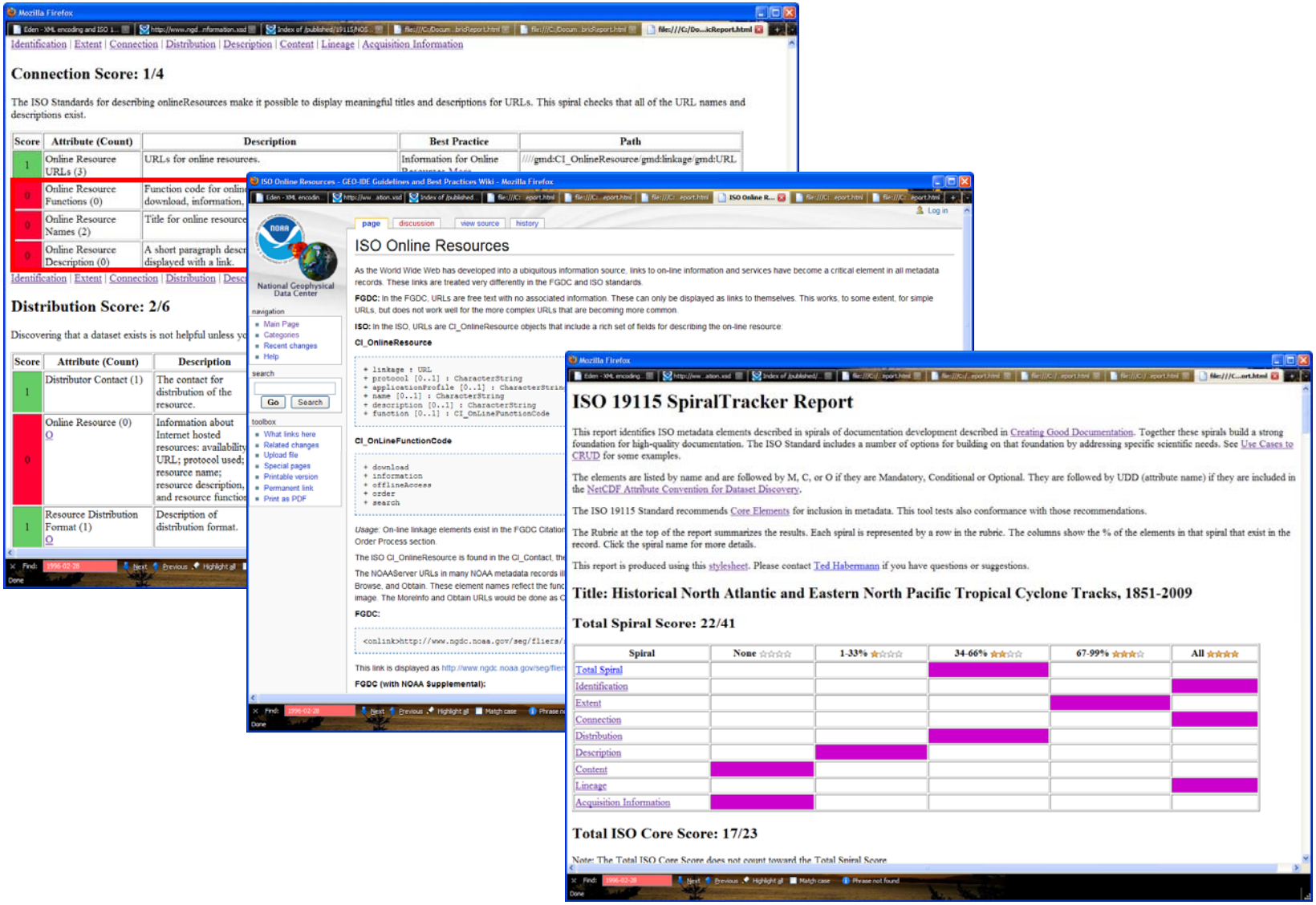
Initial Rubric for FGDC > ISO Translation



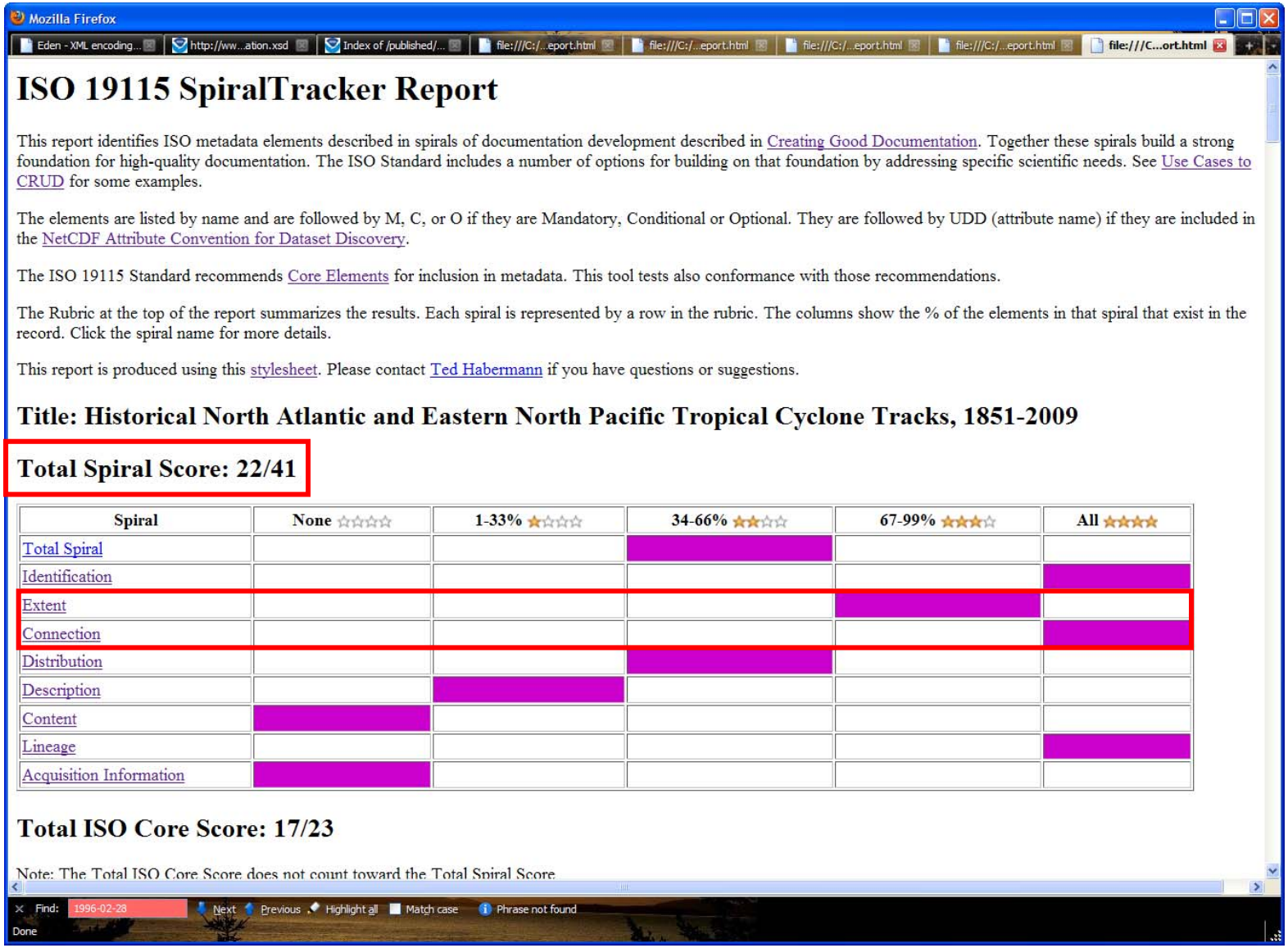
Identifying Bounding Extents



Connections are Critical



Rubric Reflects the Improvements



Mozilla Firefox

Eden - XML encoding... | http://ww...ation.xsd | Index of /published/... | file:///C:/...eport.html | file:///C:/...eport.html | file:///C:/...eport.html | file:///C:/...eport.html | file:///C...ort.html

ISO 19115 SpiralTracker Report

This report identifies ISO metadata elements described in spirals of documentation development described in Creating Good Documentation. Together these spirals build a strong foundation for high-quality documentation. The ISO Standard includes a number of options for building on that foundation by addressing specific scientific needs. See Use Cases to CRUD for some examples.

The elements are listed by name and are followed by M, C, or O if they are Mandatory, Conditional or Optional. They are followed by UDD (attribute name) if they are included in the NetCDF Attribute Convention for Dataset Discovery.

The ISO 19115 Standard recommends Core Elements for inclusion in metadata. This tool tests also conformance with those recommendations.

The Rubric at the top of the report summarizes the results. Each spiral is represented by a row in the rubric. The columns show the % of the elements in that spiral that exist in the record. Click the spiral name for more details.

This report is produced using this stylesheet. Please contact Ted Habermann if you have questions or suggestions.

Title: Historical North Atlantic and Eastern North Pacific Tropical Cyclone Tracks, 1851-2009

Total Spiral Score: 22/41

Spiral	None ☆☆☆☆	1-33% ★☆☆☆	34-66% ★★☆☆	67-99% ★★★☆	All ★★★★
Total Spiral					
Identification					
Extent					
Connection					
Distribution					
Description					
Content					
Lineage					
Acquisition Information					

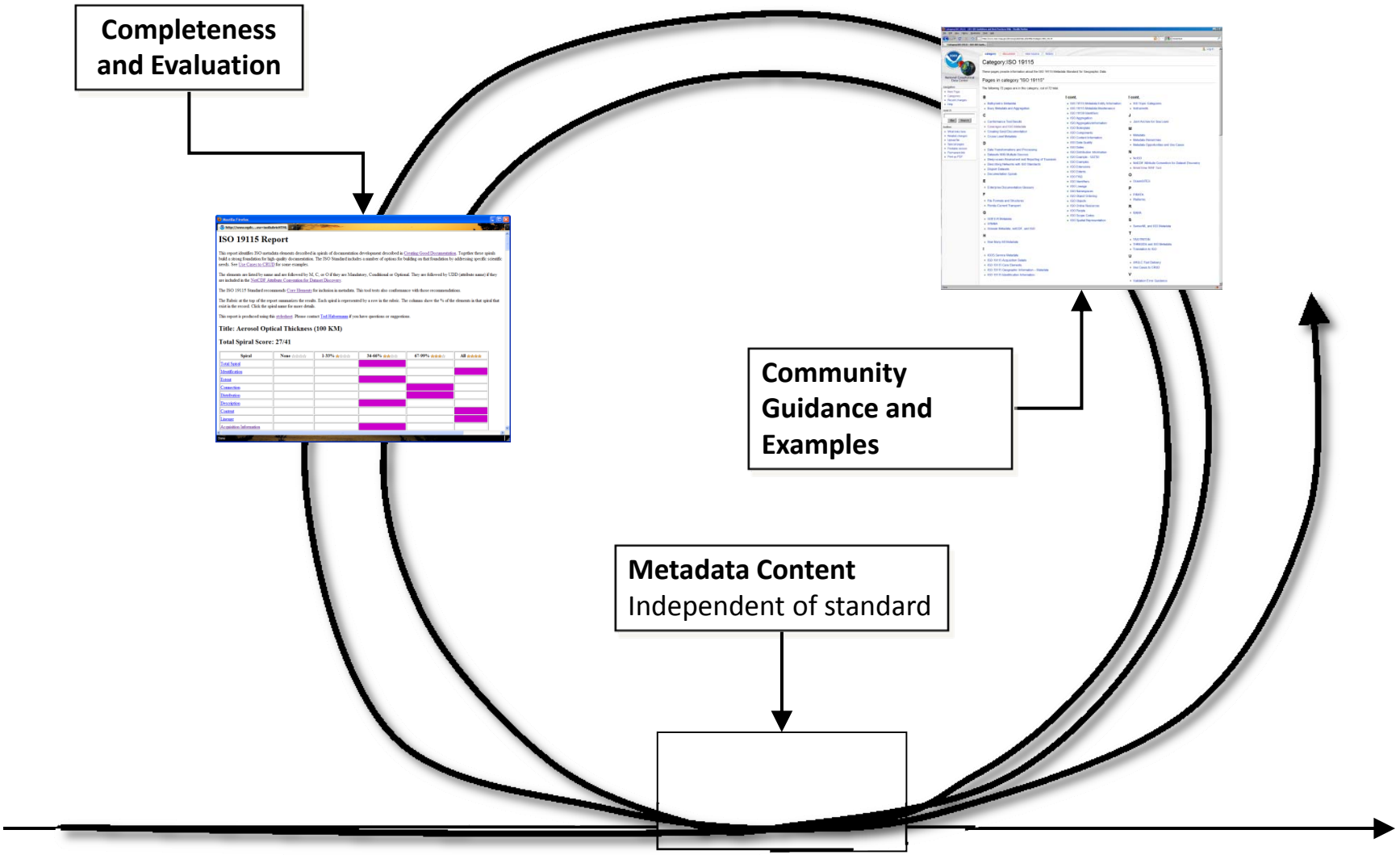
Total ISO Core Score: 17/23

Note: The Total ISO Core Score does not count toward the Total Spiral Score

Find: 1996-02-28 Next Previous Highlight all Match case Phrase not found

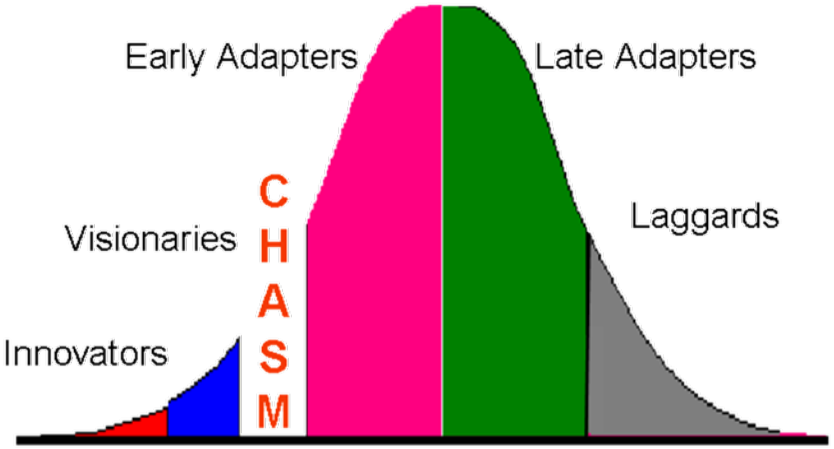
Done

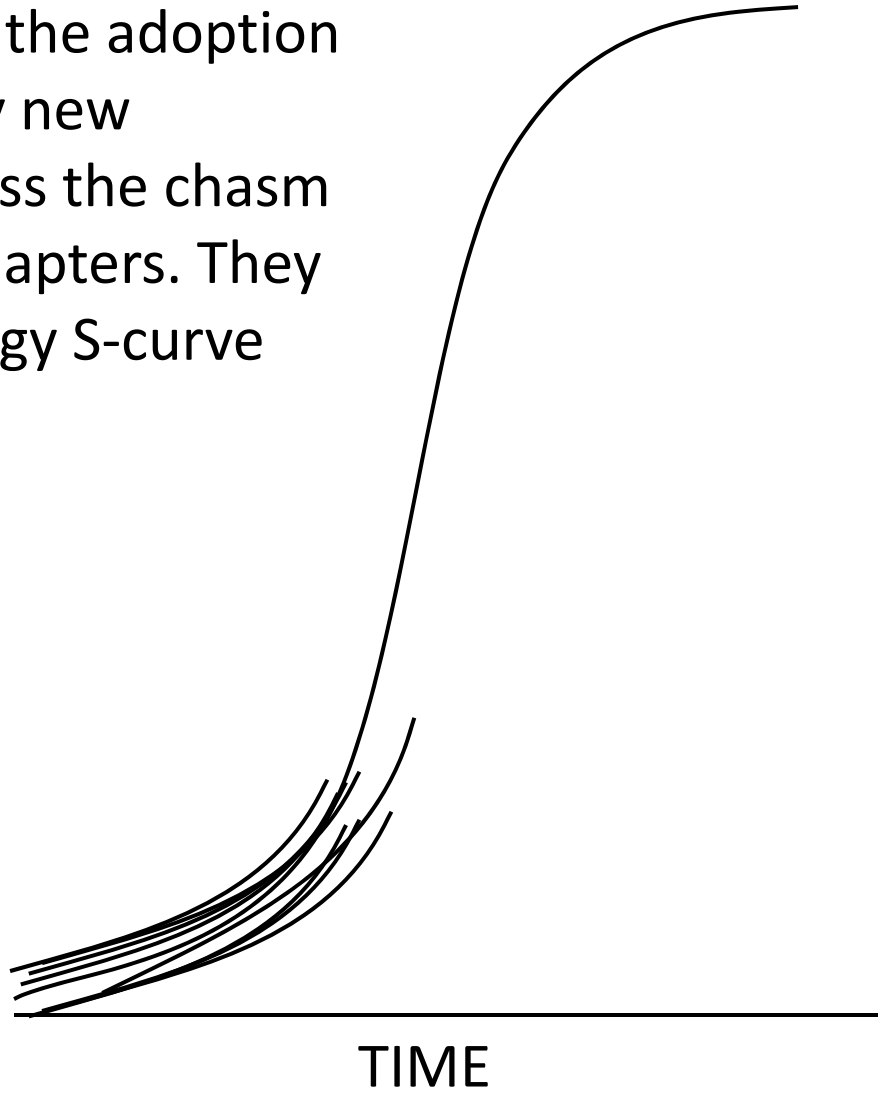
Spiral Development / Training



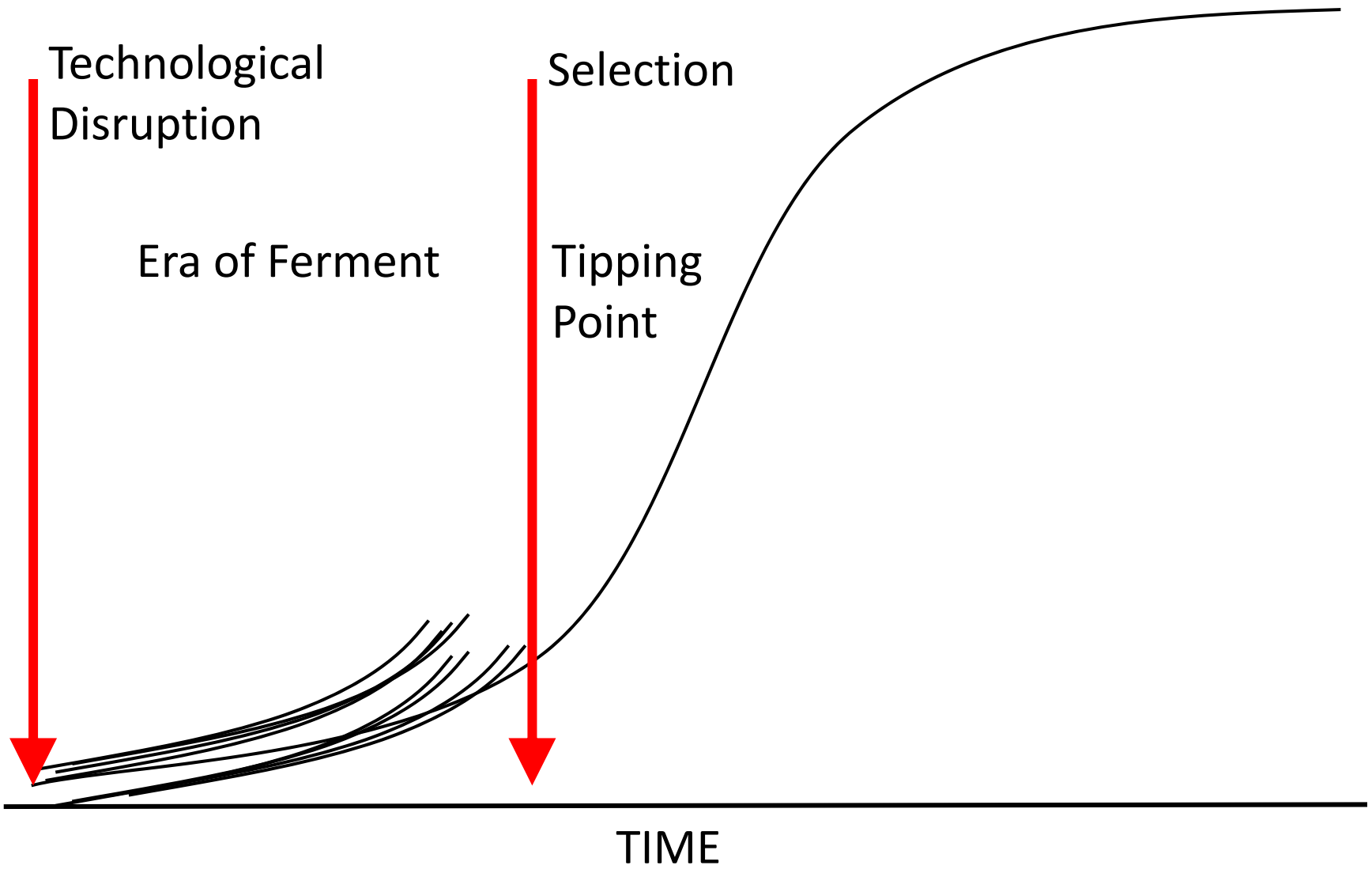
Technology Adoption

Moore described the “chasm” in the adoption life cycle. He proposes that many new technologies do not make it across the chasm between visionaries and early adapters. They fall into the chasm. The technology S-curve with the chasm might look like:

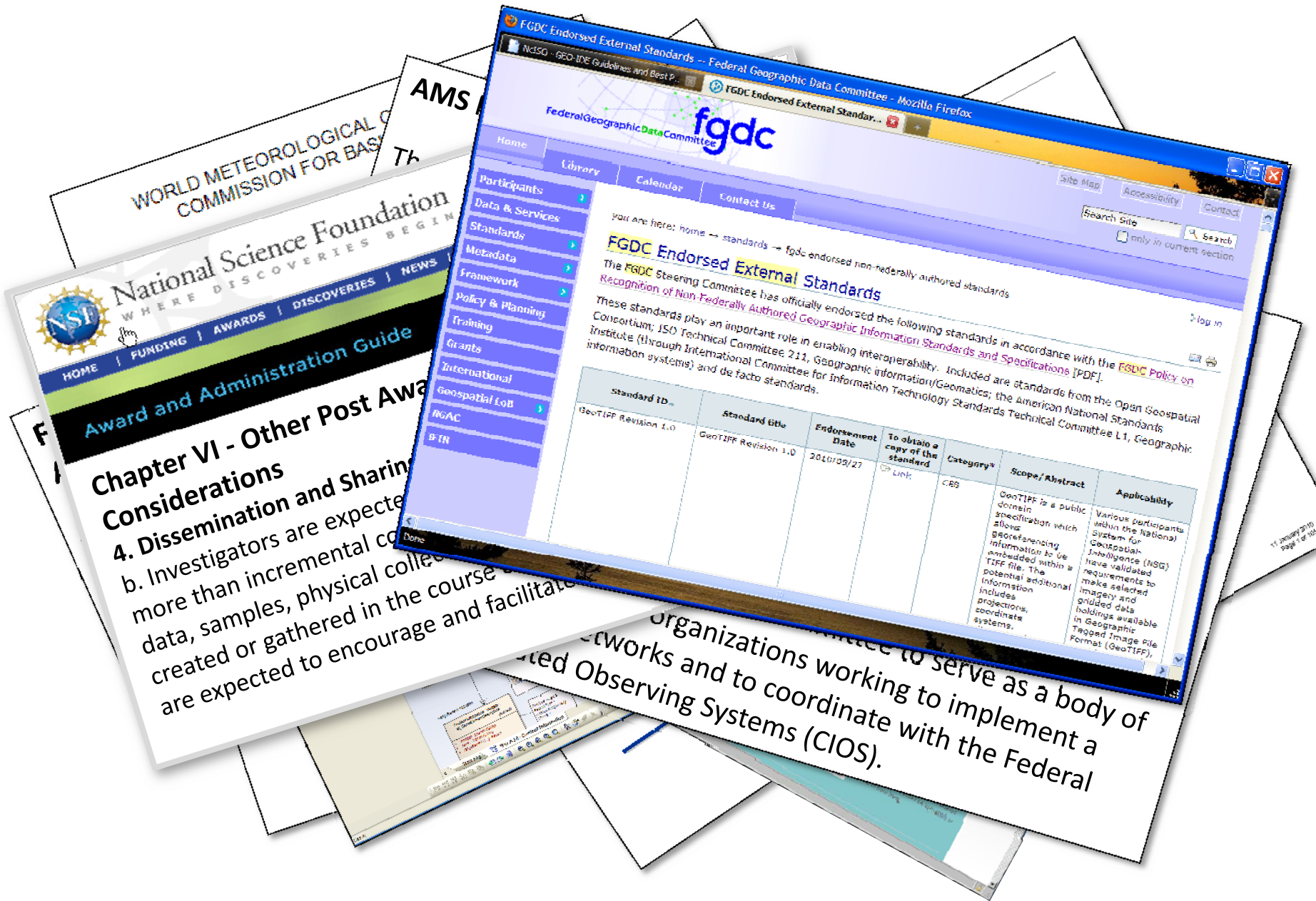




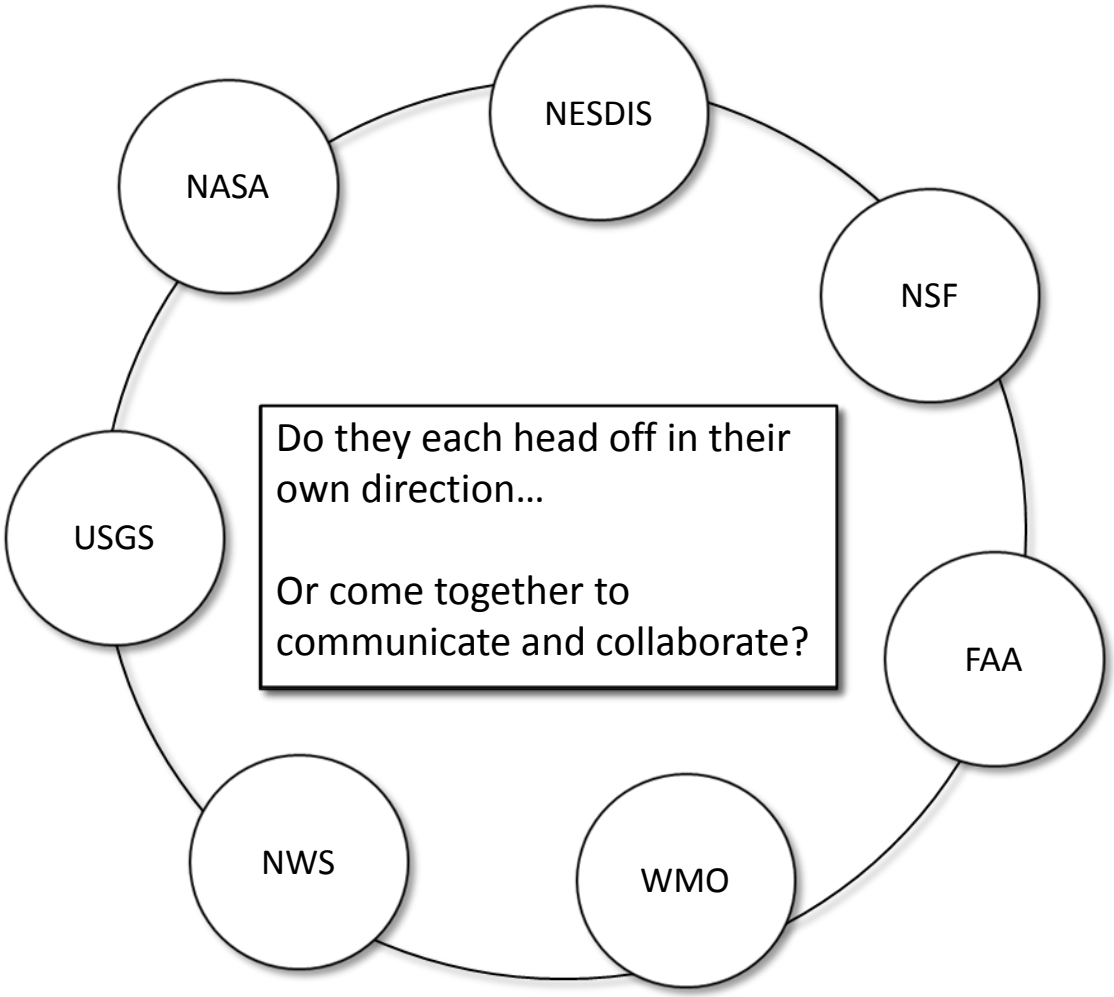
Technology Cycle



What Does a Tipping Point Look Like?

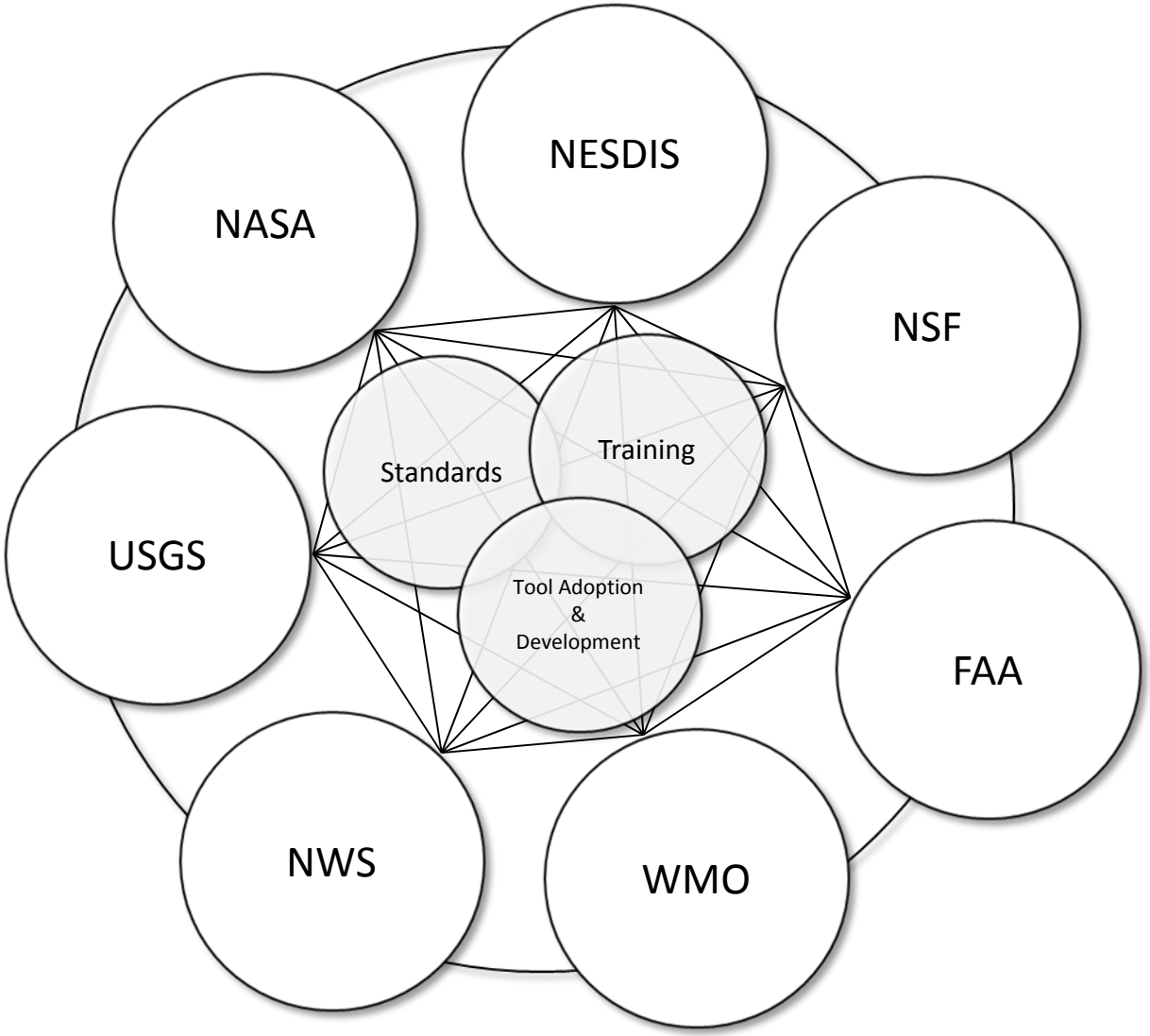


Shared Needs

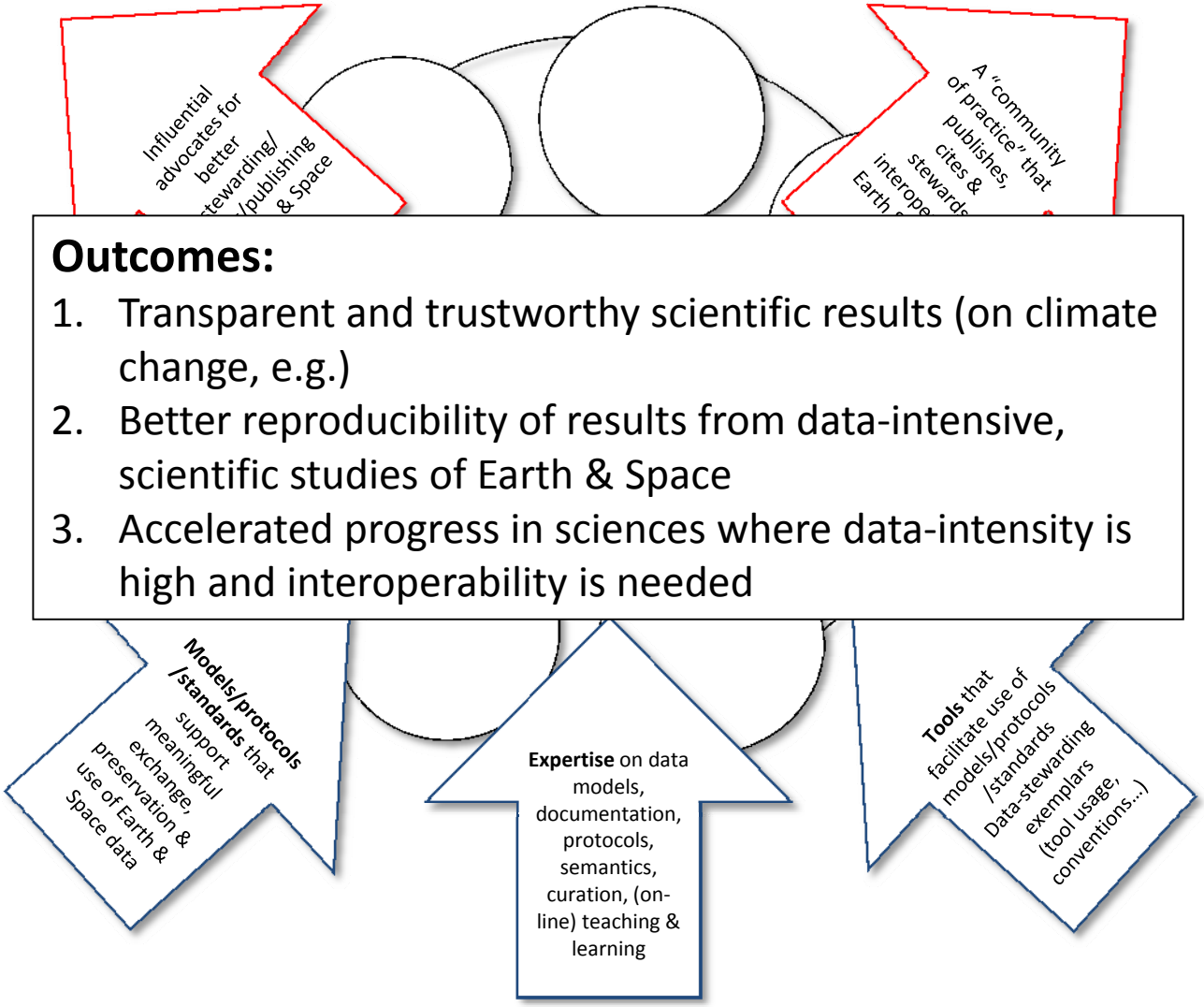


The Documentation Consortium

Consortium: association of organizations with the objective of pooling resources for **achieving a common goal**: To foster stewardship & meaningful publication of Earth & Space data for world-wide cross-disciplinary & citizen use, today and tomorrow. Initially to coordinate and facilitate the transition to effectively use of ISO Documentation Standards.



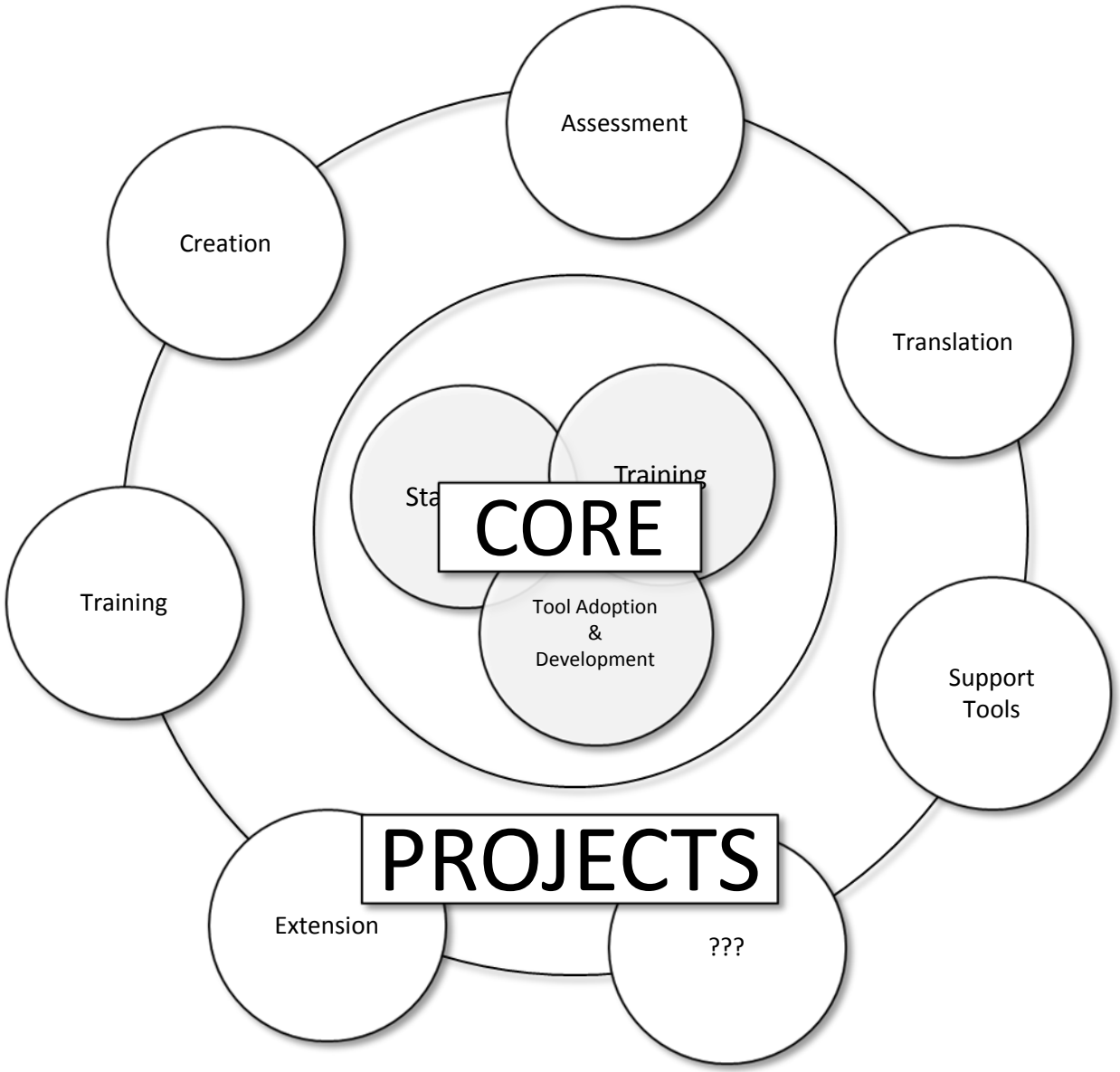
Mission: To foster stewardship & meaningful publication of Earth & Space data for world-wide cross-disciplinary & citizen use, today and tomorrow.



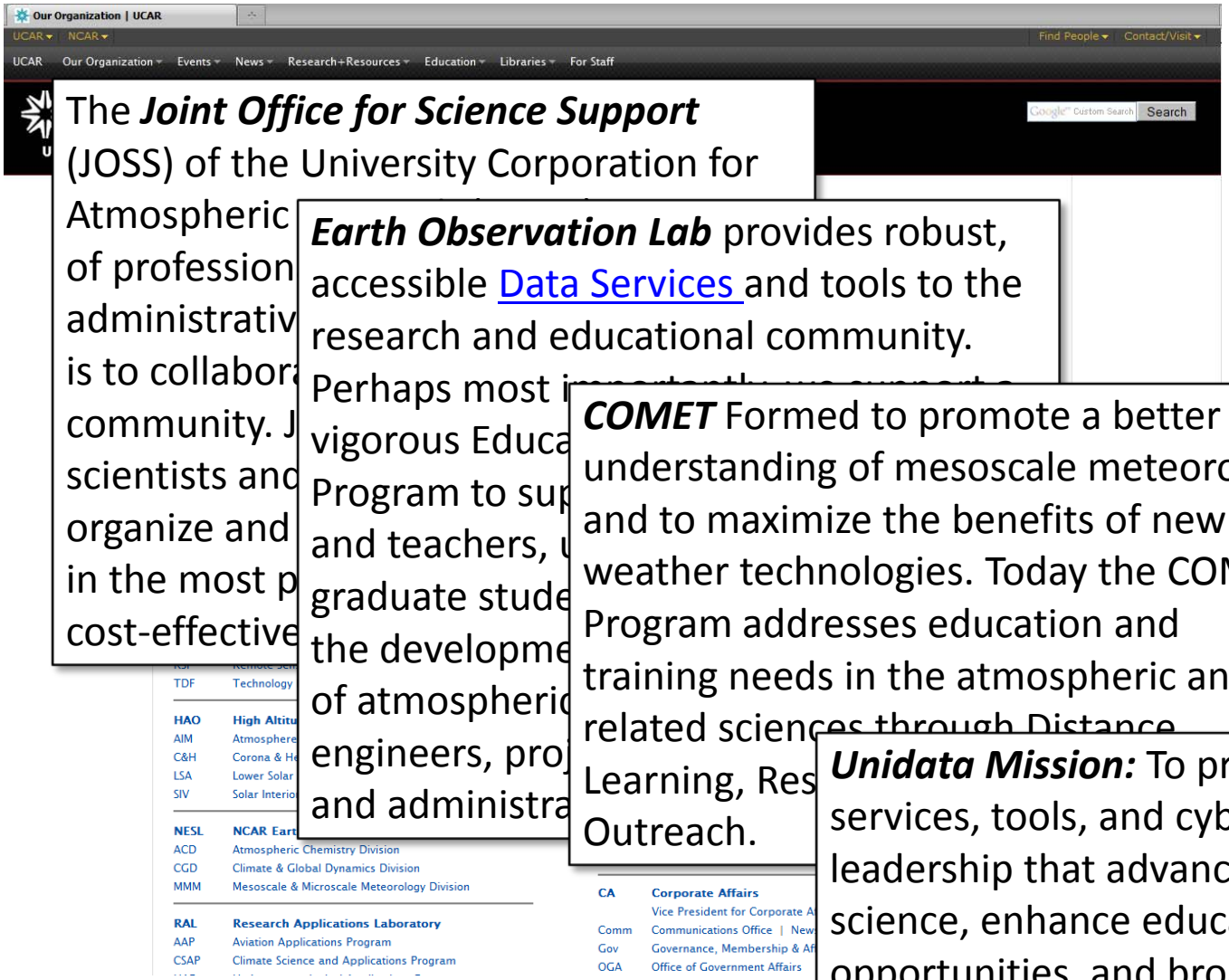
Consortium Structure

Core Tasks of the consortium will include outreach, standards evolution, and guidance / best practices.

Project Tasks will support specific needs of partners and will be done in collaboration with those partners. They could include documentation assessment, creation, translation, and extension, as well as training and tool development.



UCAR Community Programs



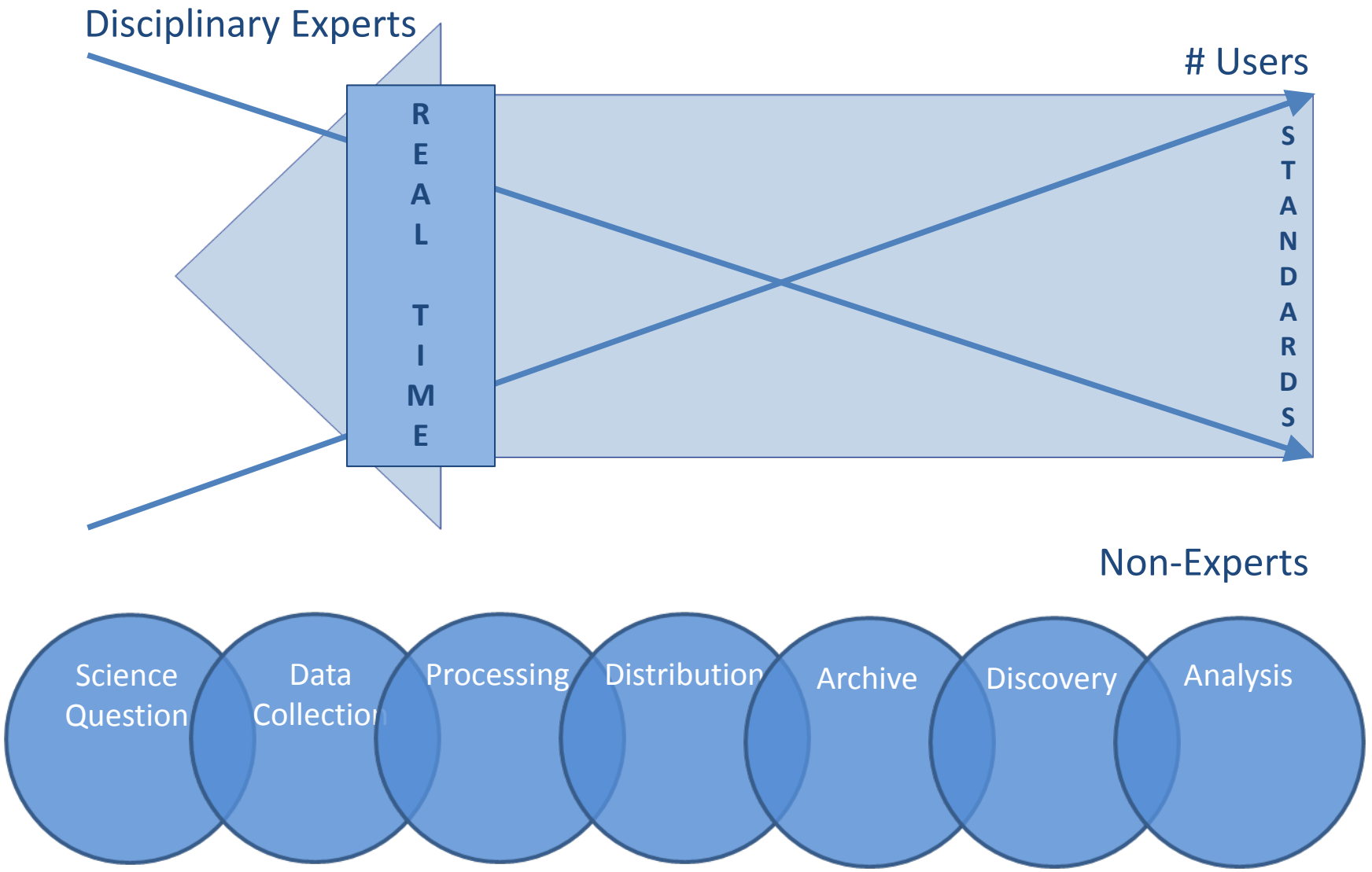
The ***Joint Office for Science Support*** (JOSS) of the University Corporation for Atmospheric of profession administrativ is to collabor community. J scientists and organize and in the most p cost-effective

Earth Observation Lab provides robust, accessible Data Services and tools to the research and educational community. Perhaps most i vigorous Educa Program to sup and teachers, u graduate stude the developme of atmospheric engineers, proj and administra

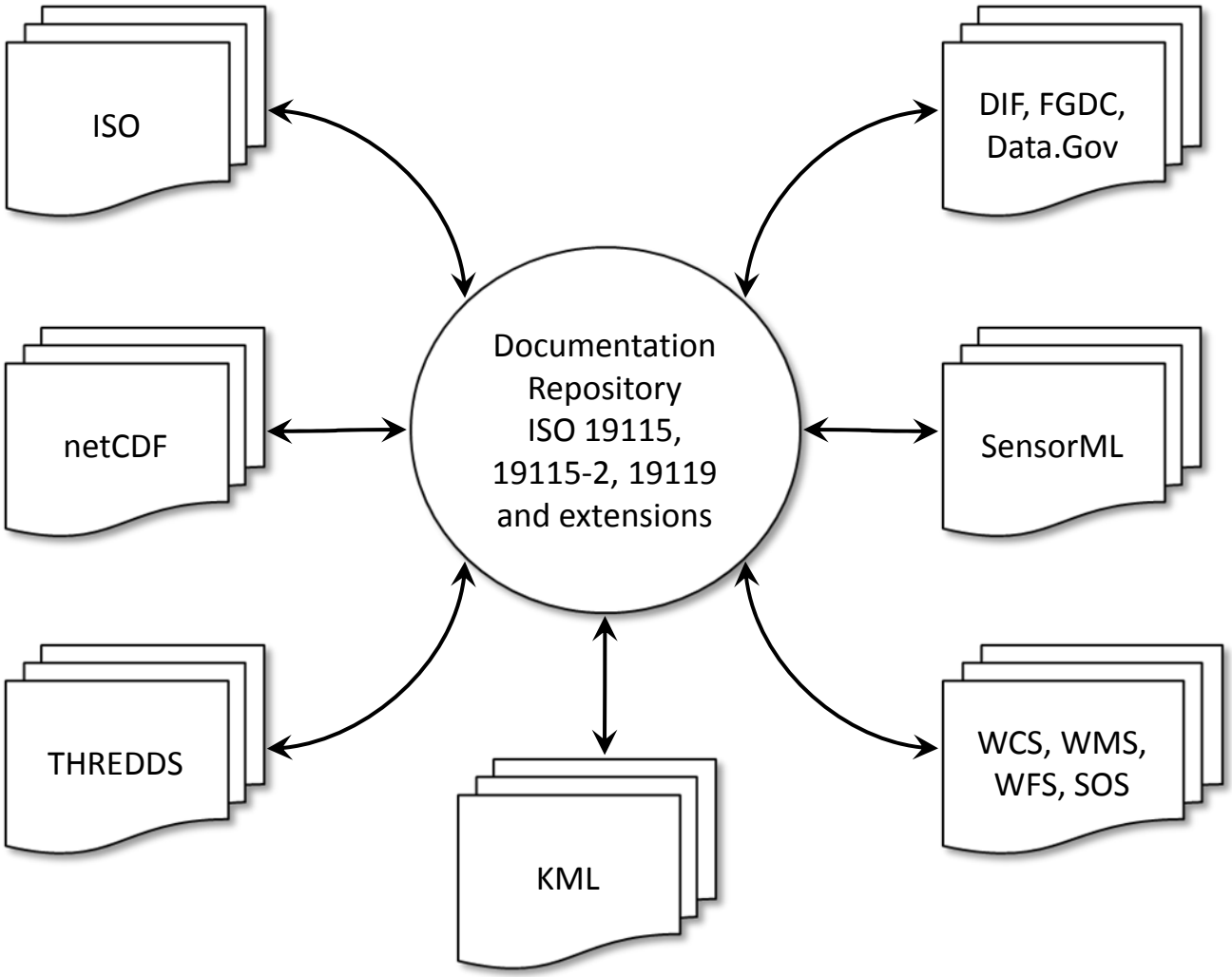
COMET Formed to promote a better understanding of mesoscale meteorology and to maximize the benefits of new weather technologies. Today the COMET Program addresses education and training needs in the atmospheric and related scienc through Distance Learning, Res Outreach.

Unidata Mission: To provide the data services, tools, and cyberinfrastructure leadership that advance Earth system science, enhance educational opportunities, and broaden participation.

Migrating Standards Upstream



Multiple Dialects and Connections



Links

GEO-IDE Wiki:
Home page: https://www.nosc.noaa.gov/dmc/swg/wiki/index.php

ISO Pages:
https://nosc.ngdc.noaa.gov/dmc/swg/wiki/index.php?title=Category:ISO_19115

ISO WAF with Rubric Links:
http://www.ngdc.noaa.gov/metadata/published/19115/isoMetadataHome.html

Spirals:
https://www.nosc.noaa.gov/dmc/swg/wiki/index.php?title=Creating_Good_Documentation
https://nosc.ngdc.noaa.gov/dmc/swg/wiki/index.php?title=Documentation_Spirals

Questions / Comments / Suggestions: ted.habermann@noaa.gov

Questions?

ted.habermann@noaa.gov