

Developing, Using & Testing Tools to Assess Learning Perspectives from Two Perspectives: the Teacher & the Learner



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Karl Benedict (University of New Mexico)

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This project is made possible by a grant from the U.S. Institute of Museum and Library Services (IMLS). IMLS Grant LG-70-18-0092-18. The DMTC is managed by the Earth Science Information Partners, with development support provided by DataONE, and USGS. The views, findings, conclusions or recommendations expressed in this presentation do not necessarily represent those of the IMLS, or the other sponsor organizations.

Presentation Outline

1. Introduction to the Goals & Objectives for the Session
2. Assessment Framework activities to date
3. Using the DataONE EEVA tool to help identify post-publication questions
4. Your feedback requested via a survey monkey form.

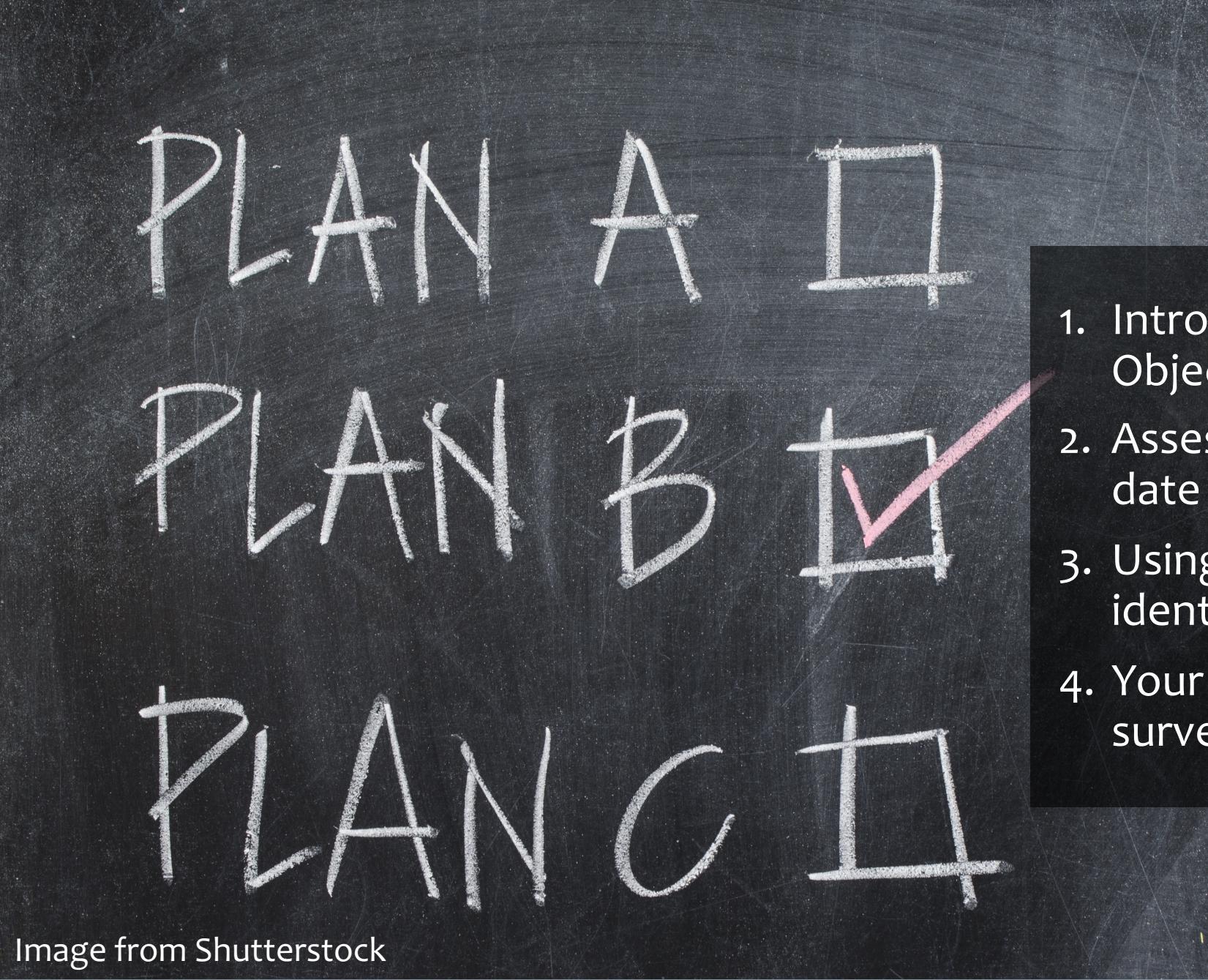


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Goals & Objectives

- Provide update on progress toward adding learning resource assessment enhancements to the DMTC.
- Introduce the DataONE EEVA tool and how it could be used as a possible source of relevant questions for learning resource assessment.
- Solicit community feedback on most relevant questions to include as first phase of assessment enhancement.

 **SIP Data Management Training**

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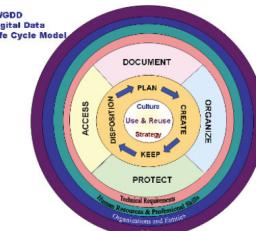
Welcome to the DMT Clearinghouse

The Data Management Training (DMT) Clearinghouse is a registry for online learning resources focusing on research data management.

It was created in a collaboration between the [U.S. Geological Survey's Community for Data Integration](#), the [Earth Sciences Information Partnership \(ESIP\)](#), and [DataONE](#).

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IWGDD Lifecycle - https://www.nitrd.gov/About/Harnessing_Power_Web.pdf

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Assessment Framework development/adaptation, so far:

- Established small working group to identify scope and parameters
- Developed scope & possible steps for plan
- Presented plan at ESIP Summer 2019 where community feedback was solicited on most relevant approach to take as first phase of assessment enhancement plan.

From community feedback:

Assess at pre-publication stage by submitter / reviewer / editor

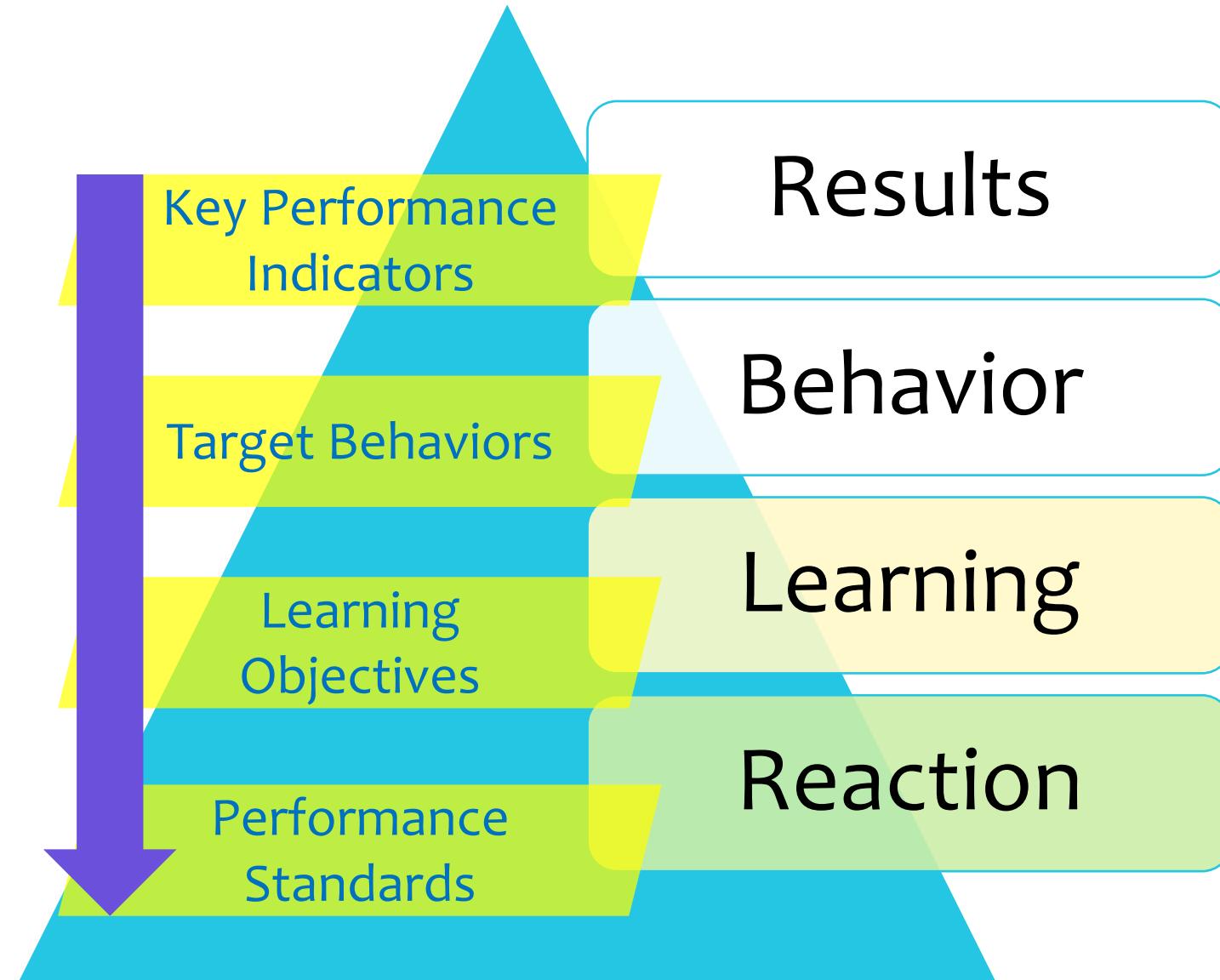
- Look for existence of learning objectives, target audience, level of expertise expected, etc.
- Use available tools to assess accessibility features & actions taken upon creation of the learning resource
- Add content producer guidance info to DMTC website
 - Links to / information about how to create learning objectives, level of expertise expected and other recognized characteristics recommended by professional educators
 - Examples of long term impacts
 - How to engage / help develop a community of practice for instructors / trainers

Assess at post-publication stage by learner

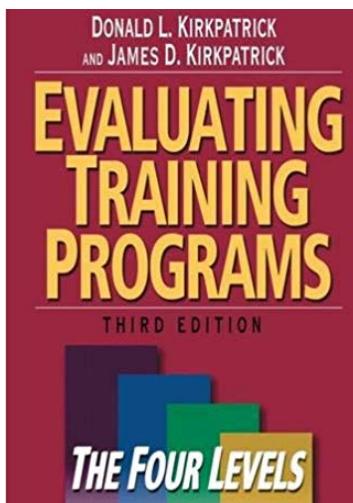
- Make re-usable survey available by focusing upon the Kirkpatrick's 1st level of assessment (Reaction)
- Get some sense of long term impact of a resources, if possible, especially from different perspectives.
- May want to differentiate facts about the training event: duration, format (online, face to face), hands-on involvement, what / who was the audience
- DMTC could be the aggregator of that kind of info & distribute some of the feedback to the creators if they wish to get it

Assessment

- Clearinghouse
 - Usability
 - Use
- Content
 - Editorial
 - Peer-review
 - Usage



Donald L. Kirkpatrick and James D. Kirkpatrick. 2006 *Evaluating Training Programs: the Four Levels*. 3rd Ed. Berrett-Koehler Publishers, Inc.



EEVA Tool (*Education EVAluation Tool*)

<https://www.dataone.org/education-evaluation>

EEVA (Education EVAluation)

The DataONE EEVA (Education EVAluation) tool is a survey generator designed to create a survey instrument for the evaluation of education and training resources and activities. EEVA makes it easy to create and download customized survey questions so that you can get quick, actionable feedback on data management training and resources. For more information on EEVA fields please see the [EEVA description document](#).

Applicability per Training Duration

- 1 Hour
- Multi-Hour/Day

Do you intend to use the survey as a

- Pre-training evaluation
- In / post-training evaluation

Applicability to

- In-Person Training/Education
- Online/Multimedia Training/Education
- Text-Based/Self-Paced Training/Education

Our use of the EEVA Tool for determining relevant questions

https://docs.google.com/spreadsheets/d/1lQg31KiGfZ_Atoo_gQFSXTqsau5p2lo/edit#gid=264729658

The screenshot shows a Google Sheets document with the title "EEVA_All_Questions" and a file type indicator ".XLSX". The document has a single sheet named "Seeker - Creator". The first row contains two columns labeled "A" and "B", both containing the text "Seeker - Creator". The second row contains three columns: "Information From - Learner", "Information From - Teacher", and "Evaluation Question". Rows 3 through 11 contain a series of questions with checkboxes. Row 3: "Is the purpose of the resource clear?" (checkbox checked). Row 4: "Are the learning objectives of the resource easy to locate?". Row 5: "Did the coverage of topics addressed by the resource meet your expectations?". Row 6: "Is the content of the resource relevant to your current data management situation?". Row 7: "Is the difficulty of the resource content appropriate to the level of your data management knowledge/expertise?" (checkbox checked). Row 8: "Did the resource stay focused on relevant concerns?". Row 9: "Did the resource present concepts/ideas that are new?". Row 10: "Are the use cases/scenarios helpful in clarifying the concepts from the resource?". Row 11: "Are the examples from the resource applicable to your data management needs?". To the right of the survey questions, there is a vertical column of text asking if the survey is intended for "In / post-training evaluation" repeated 11 times.

A	B	C	D
1 Seeker - Creator	Seeker - Creator		
2 Information From - Learner	Information From - Teacher	Evaluation Question	Do you intend to use the survey as a
3 <input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the purpose of the resource clear?	In / post-training evaluation
4 <input type="checkbox"/>	<input type="checkbox"/>	Are the learning objectives of the resource easy to locate?	In / post-training evaluation
5 <input type="checkbox"/>	<input type="checkbox"/>	Did the coverage of topics addressed by the resource meet your expectations?	In / post-training evaluation
6 <input type="checkbox"/>	<input type="checkbox"/>	Is the content of the resource relevant to your current data management situation?	In / post-training evaluation
7 <input checked="" type="checkbox"/>	<input type="checkbox"/>	Is the difficulty of the resource content appropriate to the level of your data management knowledge/expertise?	In / post-training evaluation
8 <input type="checkbox"/>	<input type="checkbox"/>	Did the resource stay focused on relevant concerns?	In / post-training evaluation
9 <input type="checkbox"/>	<input type="checkbox"/>	Did the resource present concepts/ideas that are new?	In / post-training evaluation
10 <input type="checkbox"/>	<input type="checkbox"/>	Are the use cases/scenarios helpful in clarifying the concepts from the resource?	In / post-training evaluation
11 <input type="checkbox"/>	<input type="checkbox"/>	Are the examples from the resource applicable to your data management needs?	In / post-training evaluation

Survey to see what you think:

https://www.surveymonkey.com/r/dmtc_assessment_202001

ESIP Data Management Training Clearinghouse Content Assessment Question Selection Survey

This survey is intended to capture feedback from [ESIP Data Management Training Clearinghouse](#) stakeholders and partners relating to the most informative questions that we should include in the Clearinghouse's **content assessment capabilities**. Separate assessment capabilities are being developed for the Clearinghouse itself (e.g. user experience testing/feedback). These capabilities will ultimately be integrated into the Clearinghouse platform itself as it goes through a platform migration with support from the Earth Science Information Partners ([ESIP](#)) and the Institute of Museum and Library Services ([IMLS](#)). While the platform migration is taking place preliminary assessment instruments will be developed and deployed in Survey Monkey based on the stakeholder feedback received.

The initial pool of questions that we are requesting feedback on are from the [DataONE Education EVAluation tool](#) (EEVA) developed as part of the DataONE project. The EEVA tool includes 89 questions that are characterized using several criteria:

Background slides

Data Management Training Clearinghouse



Background



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Data Management Training Clearinghouse Background

- Work Started 2015
- First Content in 2016
- Supported by USGS CDI, DataONE, and the Earth Science Information Partners (ESIP)

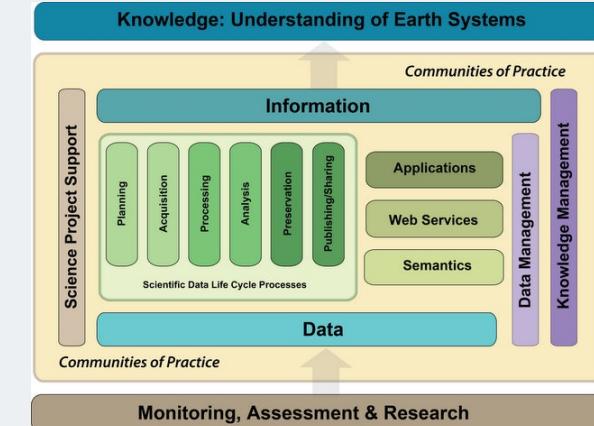
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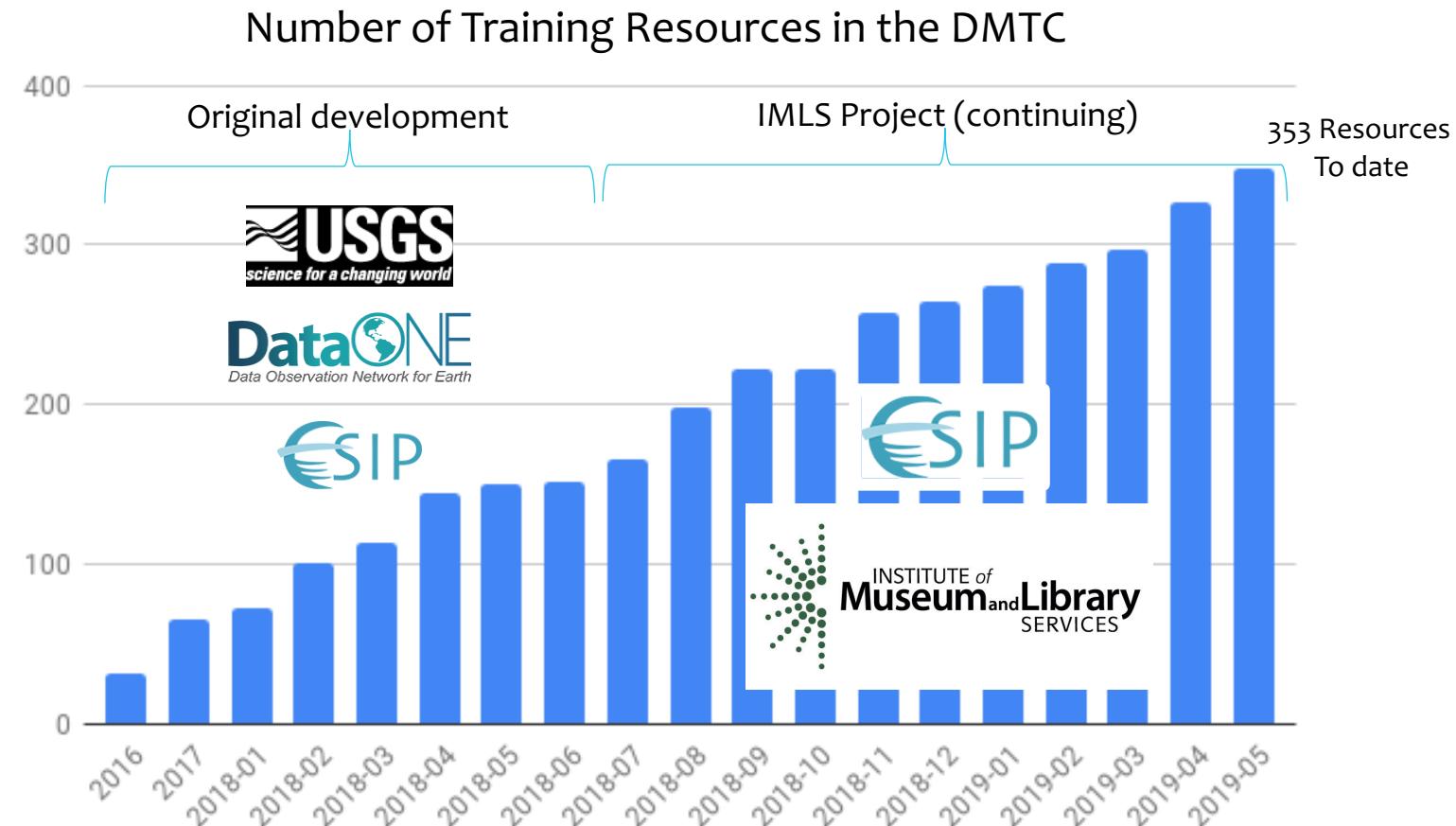
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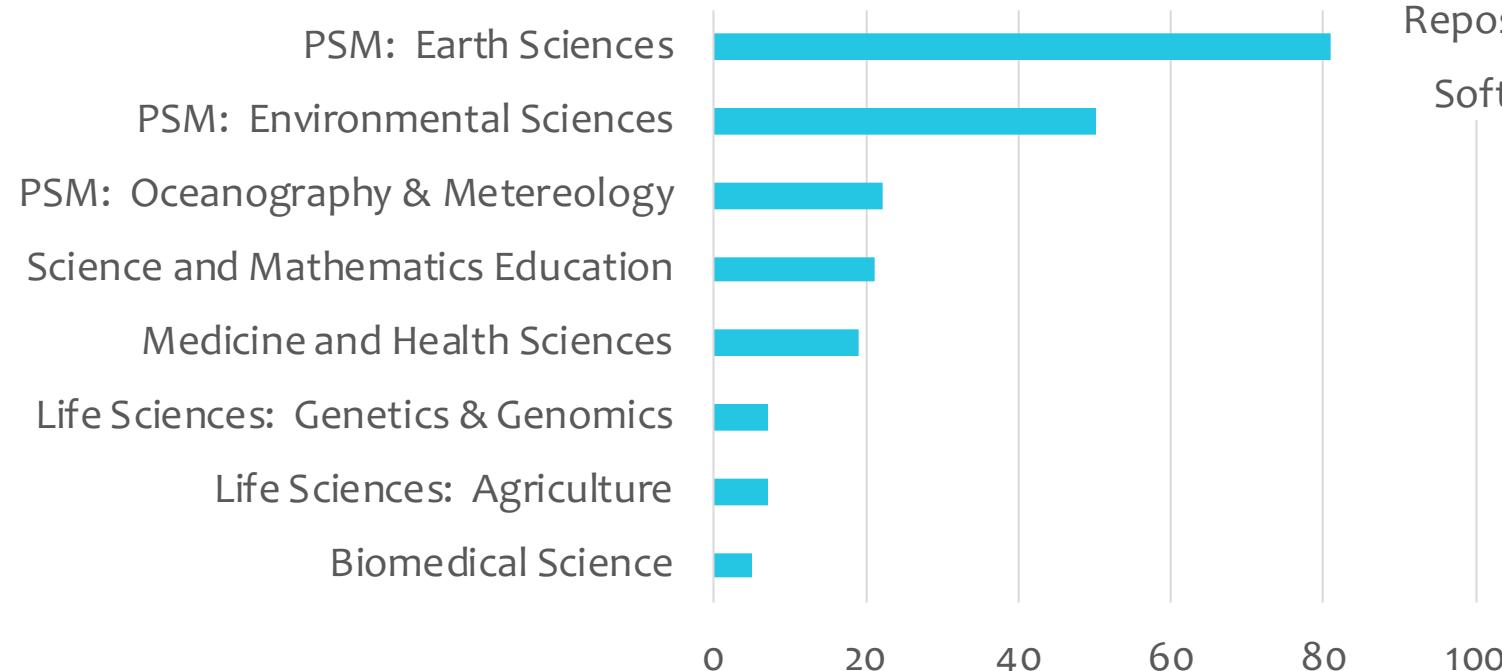
- July 2018 – Start of 3 year project to enhance the DMTC
- Quantity of Content
- Diversity of Content
- Metadata/Search
- Assessment
- Outreach

- With addition of a needed platform migration

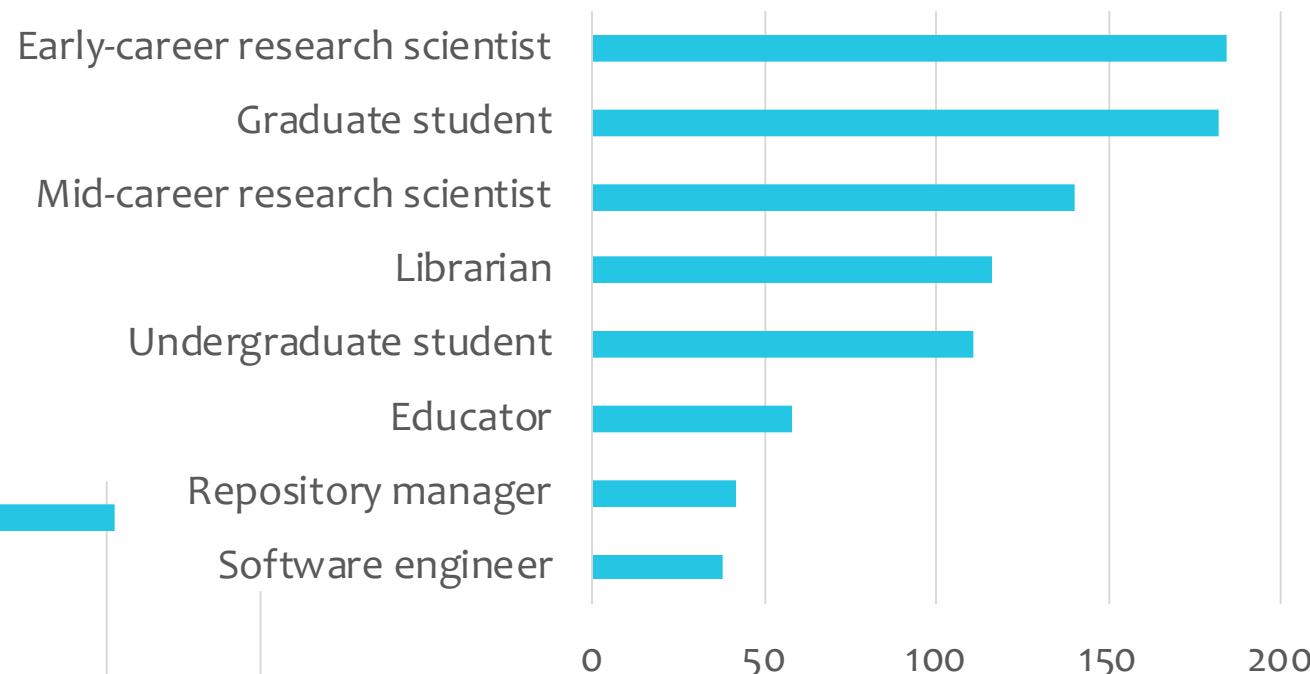


Content Diversity

Resources by Discipline



Resources by Target Audience



Data Keywords

Agricultural data	Nutrition data
Biological data	Ocean data
Coastal data	Open data
Fossil data	Organismal data
Genomic data	Paleontological data
Food security data	Social science data
Geoscience data	Specimen data
Geospatial data	Swath bathymetry data
Gridded data	Tabular data
Linked data	Taxonomic data
Marine data	

Metadata & Search

- Expand metadata model beyond core
- Refine search capabilities based on updated model and user feedback

Existing Metadata Elements	Additional Elements
Contributor Type	Educational Framework Target
Intended Time to Complete	Educational Framework Target URL
Educational Purpose of Resource	Country of Origin
Type of Learning Resource	Type of Credential Offered if Any
Targeted Audience for Resource	Resource Modification Date
Content Usage Information	Persistent Personal Identifiers for People
Cost to Access	Type of Persistent Personal Identifier
Media Type	Supported Accessibility Features
Credential Status	Narrative Summary of Accessibility Features
Content License URL	
Educational Framework	
Educational Framework Node	
Description of Educational Framework Node	
Link to Educational Framework Node Explanation	

Drupal 9

will be released in **2020**

FROM: <https://devcollaborative.com/blog/drupal-7-8-support-ends-nov-2021-whats-nonprofit-do>

Platform Migration

- Currently on Drupal 7
- Drupal 7 & 8 End-of-Life: November 2021
- Decouple Conjoined ESIP Web Assets – DMTC and Commons
- Build for Long-Term Sustainability

