



Discipline-specific Guidance for DMPs

Briana Ezray¹, Daniela Hausen², Holly Murray³, Ivonne Anders⁴, Jessica Hrudey⁵, Santosh Ilamparuthi⁶, Shannon Sheridan⁷, Yasemin Türkyilmaz-van der Velden⁶, Cees Hof⁸, Anna Schickerath⁹, Sebastian Netscher⁹

¹ Pennsylvania State University

² RWTH Aachen University

³ F1000Research

⁴ Deutsches Klimarechenzentrum

⁵ Vrije Universiteit Amsterdam

⁶ TU Delft

⁷ University of Wyoming

⁸ Data Archiving and Networked Services, EOSC Hub

⁹ GESIS – Leibniz Institute for the Social Science

Welcome notes

- The session is being recorded and will be made available on the RDA website afterwards.
- Please mute yourself when you are not talking.
- Main communication will take place via the chat function.
- If you would like to add comments or suggestions, ask questions,..., please raise your hand (participants)



Image credits : Alan Levine. CC0 1.0

- [Collaborative session notes](#)
- Add your name to the attendee list!

Agenda

Minutes from the start

0 - 5 Welcome notes

5 - 10 Introduction of the idea of the prospective WG

10 - 15 Engineering DMPs

16 - 21 DDPs for archeological datasets

22 - 27 DDPs in empirical educational research

27 - 45 Presentation of the Case Statement

46 - 80 Discussion

80 - 90 Closure: summary and next steps of action

Please go to menti.com and use the code 77 38 17 3



Please enter the code

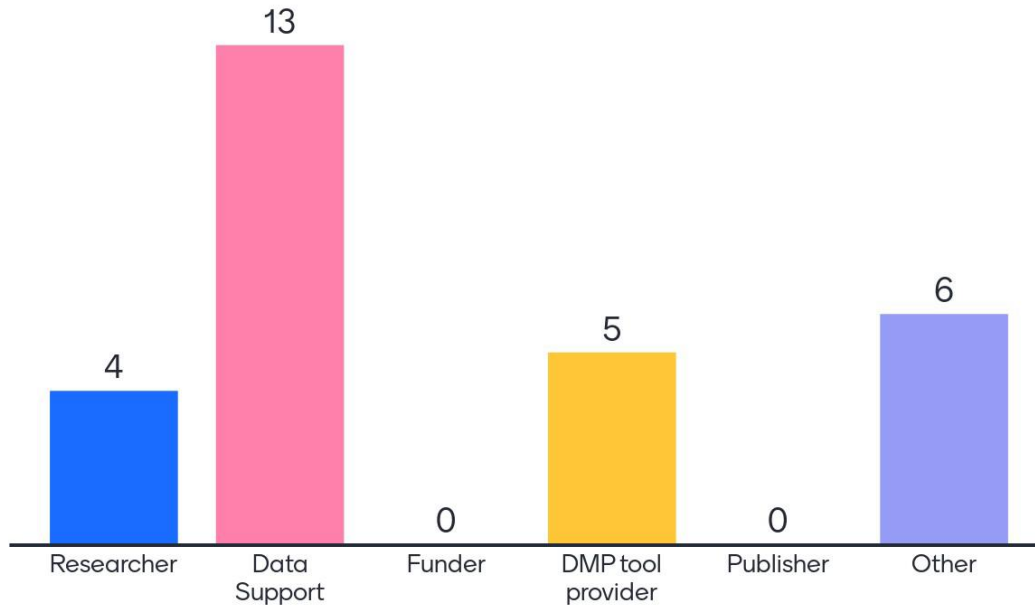
Submit

The code is found on the screen in front of you

What is your discipline/field of expertise?



What is your role/function?



Impressions during training and consultation:

- from an RDM support perspective
 - DMPs could become part of the daily work, workflows, etc.
 - How to create acceptance among researchers for the concept DMP?
- from researchers perspective:
 - DMPs are a bureaucratic hurdle
 - DMPs are additional work
 - control instrument



source: https://pixabay.com/get/55e1d3454f55b108f5d08460da29317e1136dbe6565376_1280.jpg

 **Discipline-specific Guidance for DMPs**

OpenAIRE survey on Horizon 2020 DMPs: overall experiences:

- 50 % researchers & 60 % support staff
- 45 % found the template useful
 - detailed textual responses explaining points of confusion
 - offering suggestions for change
- majority indicated the understanding of FAIR
 - implementing elements of the FAIR concept and applying them to a DMP can be complicated
- terminology was a barrier
 - interoperability
 - overlap of concepts and questions for similar information

source: <http://doi.org/10.5281/zenodo.1120245>

Question 11 - Priorities of a DMP template or tool



Figure 001 - Q11: priorities for a DMP template or tool

Our recommendations for H2020 DMPs:

Revise the DMP template structure

Reduce technical terminology

Provide discipline-specific guidance

Offer example DMPs and costings

Clarify DMP review processes

source: <http://doi.org/10.5281/zenodo.1120245>

Data Management Planning in Engineering

Background information

- Funded by German Federal Ministry of Education and Research
- Project in 2018
- starting from RDMO template

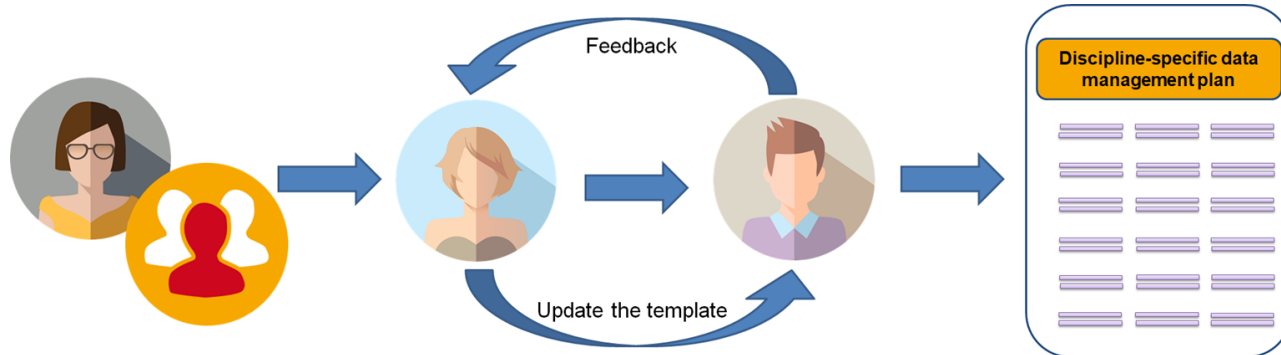
Hypothesis

- DMPs can guide to good research data management in projects
- Adoption of DMP template is necessary
 - To tailor the researchers needs
 - To make the concept of DMPs attractive to the researchers

Engineering-specific DMP

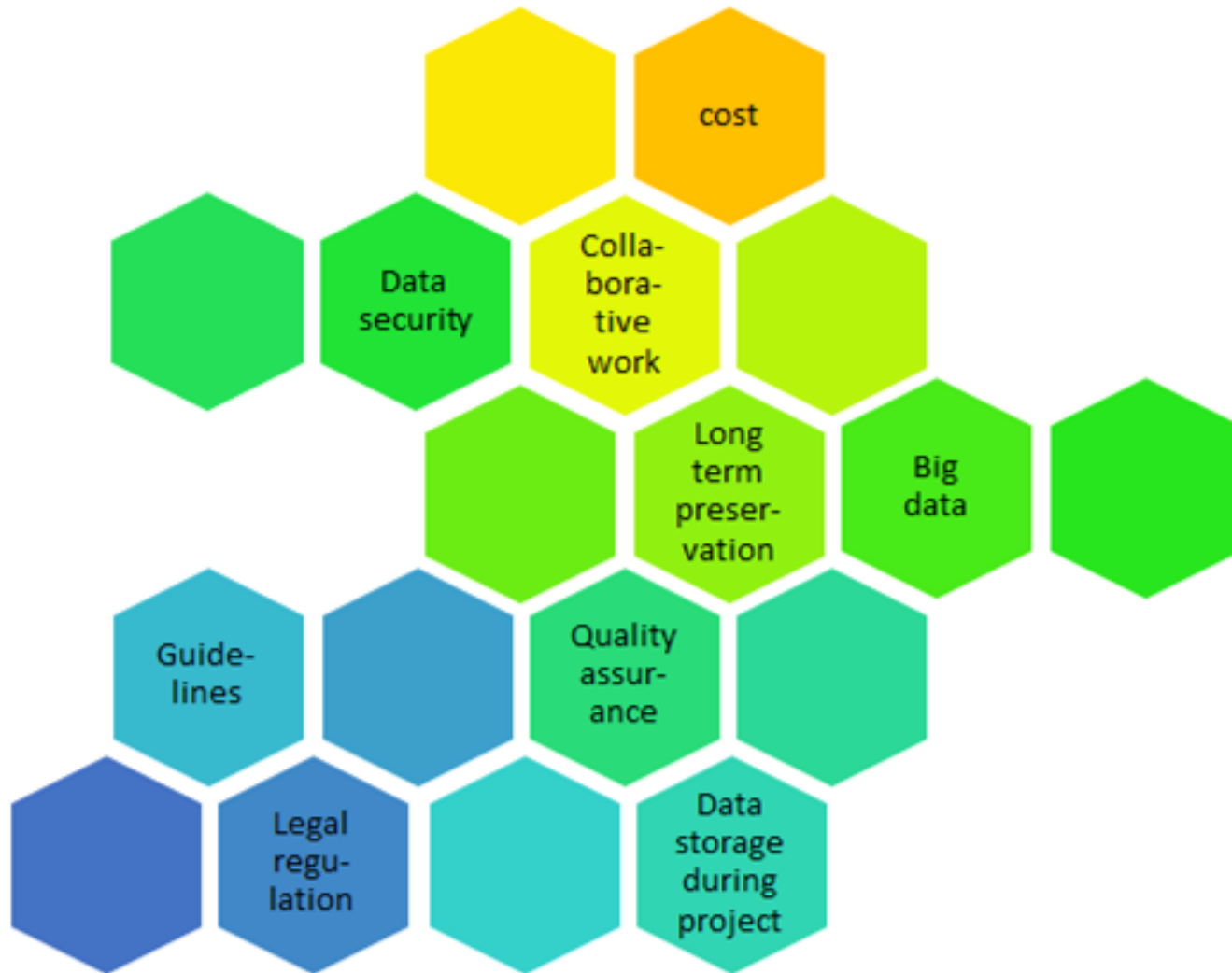
<https://doi.org/10.5281/zenodo.2598796>

- 1-day workshops with engineers
 - 1 x Aachen, 1 x Darmstadt
 - 10 to 12 participants



1. Information on generic RDM and DMP concept
2. Reflection and exchange of experiences
3. World Café to work on the generic template to make it more engineering-specific

Results of the DMP-workshops



Conclusion and next steps

- More a vision than a living document
- Processes, standards and guidelines for data management and quality control is missing
- given time frame was too small
- engineering and institutional specific templates are published at the [RDMO GitHub](#)

- 3 Use cases in 2020 on engineering-specific DMP templates (work in progress):
 - corrections and complements on
 - quality assurance
 - repositories
 - institutional parts
 - data sharing - role management
 - more concrete

Thank you!

Domain specific DMPs

Practices at DANS and within EOSC-Hub

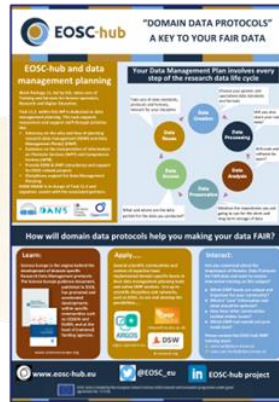
Cees Hof



BoF for introducing the WG “Discipline-specific Guidance for DMPs”
RDA 16th (virtual) Plenary Meeting 2020

Domain specific DMPs as the core for good research, a growing development...

DANS involvement:



Science Europe publications 2018 on discipline specific RDM as the base for our DMP activities

Active promotion of Domain Data Protocols in EOSC-Hub 2020. Using ARGOS, DSW and DMPonline in interactive training sessions...

9 Person months for DMP development in a thematic Research and innovation actions (RIA) H2020 project on musicological data, starting in 2021

Our DANS test case...

Using ARGOS for domain specific DMPs in archaeological research

Building on European trials:



ARGOS



DMPs for Research Communities: Argos for ARIADNEplus

See: <https://www.openaire.eu/blogs/>

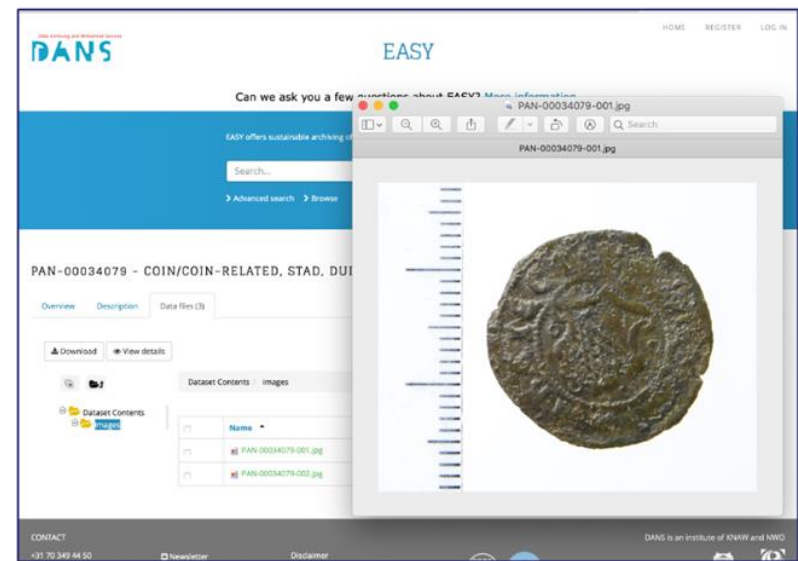
Our DANS test case...

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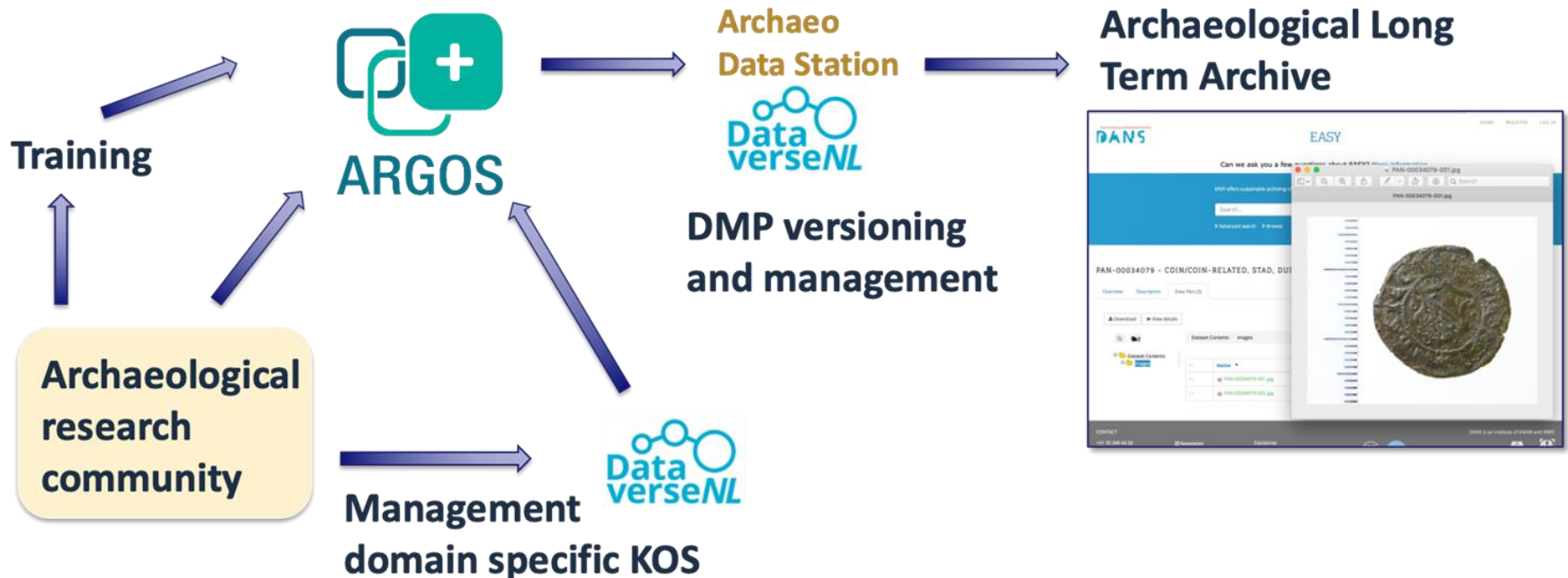
Can we use this to add a service to our archaeological repository?



DMPs for Research Communities: Argos for ARIADNEplus
See: <https://www.openaire.eu/blogs/>

Our DANS test case...

Using ARGOS for domain specific DMPs in archaeological research



Thank you!

gesis

Leibniz Institute
for the Social Sciences



Developing Domain Data Protocols for Educational Research (in Germany)

RDA-BOF | *Discipline-specific Guidance for DMPs*
Sebastian Netscher, 10. November 2020

Project, Members and Aim

Who We Are

- partners: 12 institutions, most of them directly involved in educational research
- funding: German Federal Ministry of Education and Research (BMBF) (grant agreement number: 16QK01)
- project duration: 01.06.2019 – 31.05.2022



What We Aim To Do

- build upon a concept of Science Europe (2018)
- to develop
 - standardized data protocols
 - for educational research (domain)
- guiding researchers on how to create open data following the *FAIR Data Principles*

“DDPs are defined as generally agreed-upon guidelines, or predefined written procedural methods. One might also conceive a DDP as a ‘model DMP’ for a given domain or community that shares common methods”



Science Europe (2018): Science Europe Guidance. Document Presenting a Framework for Discipline-specific Research Data Management. D/2018/13.324/1. S. 9.

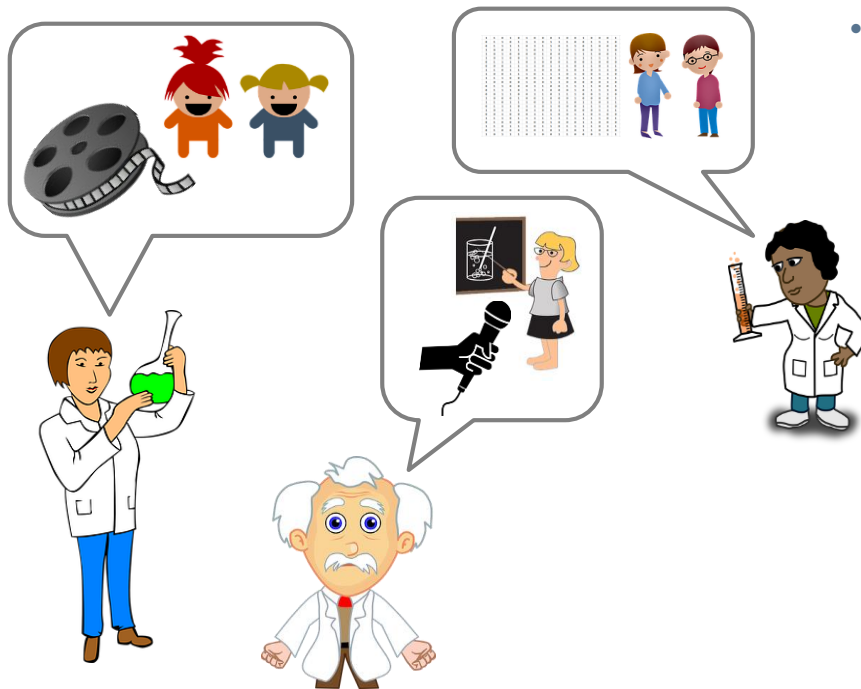
Educational Research as a Domain

Pre-Conditions

- requirements on data sharing by one of most important funders (BMBF)
- well-established infrastructure for data archiving (VerbundFDB)

Educational Research

- similar research topics
- common methods on data collection and use
- common (sensitive) research population, i.e. children / teenager
- but with a wide variety of data types
 - data matrix
 - text files
 - video and audio files
 - pictures, imagesetc.



Domain-Specific or Cross-Domain?

Requirements For Domain-Specific DMPs

- taking different data types, research subjects etc. into account
- assisting researchers in doing good data management
- providing guidance on how to make such data FAIR



But, Not Everything Is Domain-Specific

- educational research, a part of social science research
 - share common data and standards of data usage
 - deal with similar research populations and sensitive information
- beyond social sciences
 - some aspects of data management are independent of any data, research discipline or domain
 - learn from each other to improve domain-specific data management and data sharing

Thank you!

Case statement: Value proposition

- *Discipline-Specific Guidance Catalogues*
- Science Europe
- Key beneficiaries
 - Researchers
 - Data stewards or managers
 - Research data librarians
 - Research data management experts/officers
- Communities and associations advance respective sections



Case Statement: Benefits to stakeholders

- Help fill the gap for researchers between daily practice and generic DMPs
- Generalist data professionals would be able to provide tailored disciplinary support
- Funders, universities, and publishers receive better ROI with tailored data support
- Incorporation of discipline-specific guidance in common DMP tools

Case Statement: Overview of discipline-specific requirement examples

- Behavioural, Educational and Social Sciences
 - Extremely wide variety of data types and data management skill sets
 - Many data types overlap with other disciplines
 - Numerous ethical and privacy issues
- Engineering and Natural Sciences
 - High heterogeneity: Large datasets, confidential data, proprietary data formats and research software
 - IP considerations: restrictions on sharing
 - Hardly any RDM best practices & standards
- Life Sciences - Medicine and Biology
 - Siloed sub-disciplines at different stages when it comes to FAIR and open data.
 - Interdisciplinary collaborations are common and increasing, but lack common metadata schema.
 - Diverse activities, data types (some with privacy considerations), and data sizes.

Case Statement: Engagement with existing work

- Two other RDA Working Groups
 - Exposing Data Management Plans WG
 - DMP Common Standard WG
- Some work already being done within disciplines
 - Engineering
 - Domain Data Protocols
 - Psychology
- Important to involve other RDA discipline-specific groups

Case statement: Working plan milestones

- M1: Identification of What is Already Known, Knowledge Gaps, Overlaps and Additional Use Cases (0-6 months)
- M2: Discussions with disciplinary experts (6 - 10 months)
- M3: Creation of guidance document (10 - 13 months)
- M4: Dissemination and adoption of guidance document for test cases (13 - 18 months)

Case statement: Working plan deliverables

- D1: Online Survey Overview (after 8 months)
- D2: Discipline-specific Guidance Overview (after 18 months)

Discussion

- In groups/ breakout room
 - Discuss the suggested questions
 - Each room is having the same questions
 - Discuss as many or as few as you'd like
 - Add more as desired!
- Please report your discussions in the Google Doc according to your discipline
- Meet again in 25 minutes
 - Each group presents 1 minute summary of discussion

Summary and next steps

- Questions?
- In the next 6 months: Identification of What is Already Known, Knowledge Gaps, Overlaps and Additional Use Cases
- Where to find more information
 - [Working Group Case Statement](#)
- Thank you!



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Thank you!