



**CS<sup>3</sup>  
MESH<sup>4</sup>  
EOSC**

**Connecting European Data**



# Welcome and Overview

Pedro Ferreira (CS3MESH4EOSC Technical Coordinator, CERN)

SciDataCon 2021



CS3MESH4EOSC has received funding from the European Union's Horizon 2020 Research and Innovation programme under **Grant Agreement No. 863353**.

- # CS3: community of practice since 2014
  - # File Sync & Share services operated by...
    - # Research labs, NRENs, Universities, companies,...
    - # 130+ organisations, 30+ service nodes, 25 countries
    - # > 400K users, >16 PB data, >3.5 billion objects
  - # User environments, higher level applications
    - # editors, data analysis, metadata, transfer...



København 2020



Roma 2019



Kraków 2018



Amsterdam 2017



Zürich 2016



Genève 2014



<http://www.cs3community.org>

- # Science Mesh — global collaboration platform for researchers
  - # Integrating (open) data and (open-source) tools
  - # Provided as building block for European Open Science Cloud (EOSC)



**Science  
Mesh**



**EUROPEAN OPEN  
SCIENCE CLOUD**

- # Open, bottom-up approach
  - # Applications: working closely with users communities we take existing best practices, services and technologies, improve them and open up for other scientific communities



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Manager at CERN



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**Marcin Sieprawski**  
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Partnerships Director



**Ron Trompert**  
Leader, Online Data  
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**Holger Angenent**  
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## ScienceMesh: Unlocking scientific collaboration through technology



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## ScienceMesh core applications - the federated layer



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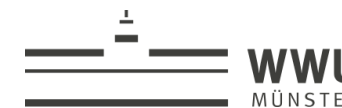
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Use case

High Energy Physics: analysing data streams from particle detectors



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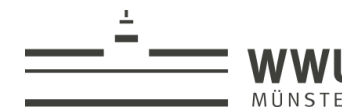
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Use case

PARADISEC: guarantee long-term usefulness thanks to metadata



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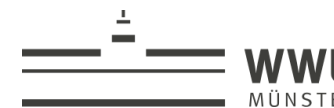
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Use case

LOFAR: Low Frequency Array



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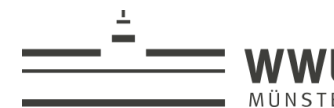
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Use case

JRC: supporting decision-making in sustainable management of natural resources



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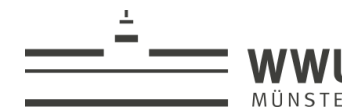
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Use case

Social Media Analytics and Crisis communication



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**Marialetizia Mari** and **Jacopo Mariani** Trust-IT Services



- # Questions & Answers session are welcome at the end of this session
- # We encourage you to participate
  - # As an early adopter, contributor, supporter,...

**Enjoy the session!**



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**Thank you!**  
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