



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

**Connecting European Data**



## Data Transfers

Connecting the ESCAPE Data Lake with the ScienceMesh

CS3, Barcelona, March 6-8 2023



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

# Address the common needs of ESFRIs

# Components

- # Data Lake (DIOS)
- # Science Platforms (ESAP)
- # Citizen Science (CS)
- # Software Repository (OSSR)
- # Virtual Observatory (VO)

(<https://projectescape.eu>)



(Slide stolen from G. Lamanna)

## # Two types of data transfers

### # Ad-hoc

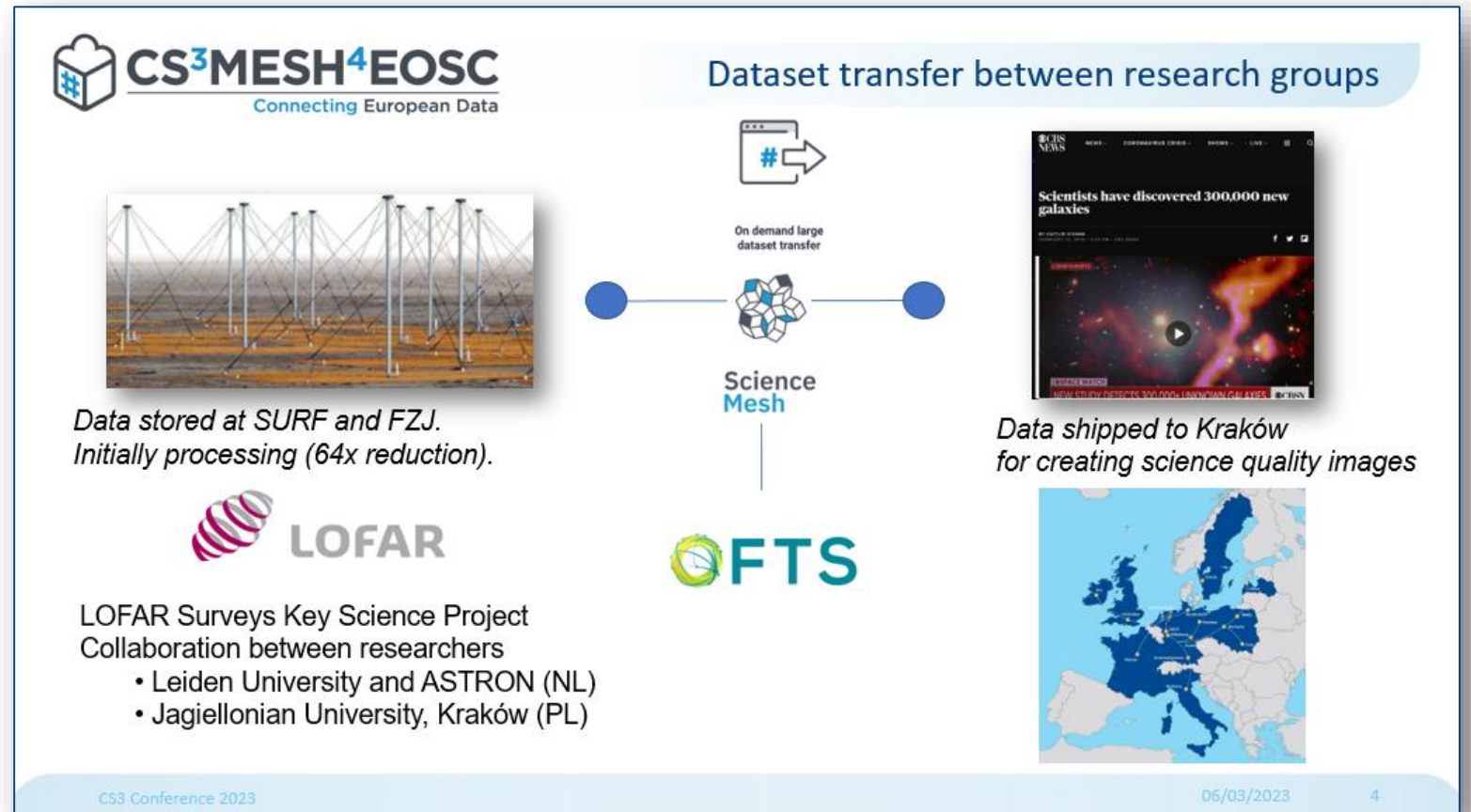
- # For small/medium sized data transfer needs within the ScienceMesh
- # Individuals or individual research groups
- # Rclone


### # Managed data transfers

- # Connecting Big Science with sync-and-share (EFSS)
- # Communities
- # FTS



## # Getting the data from the telescope to the end-user

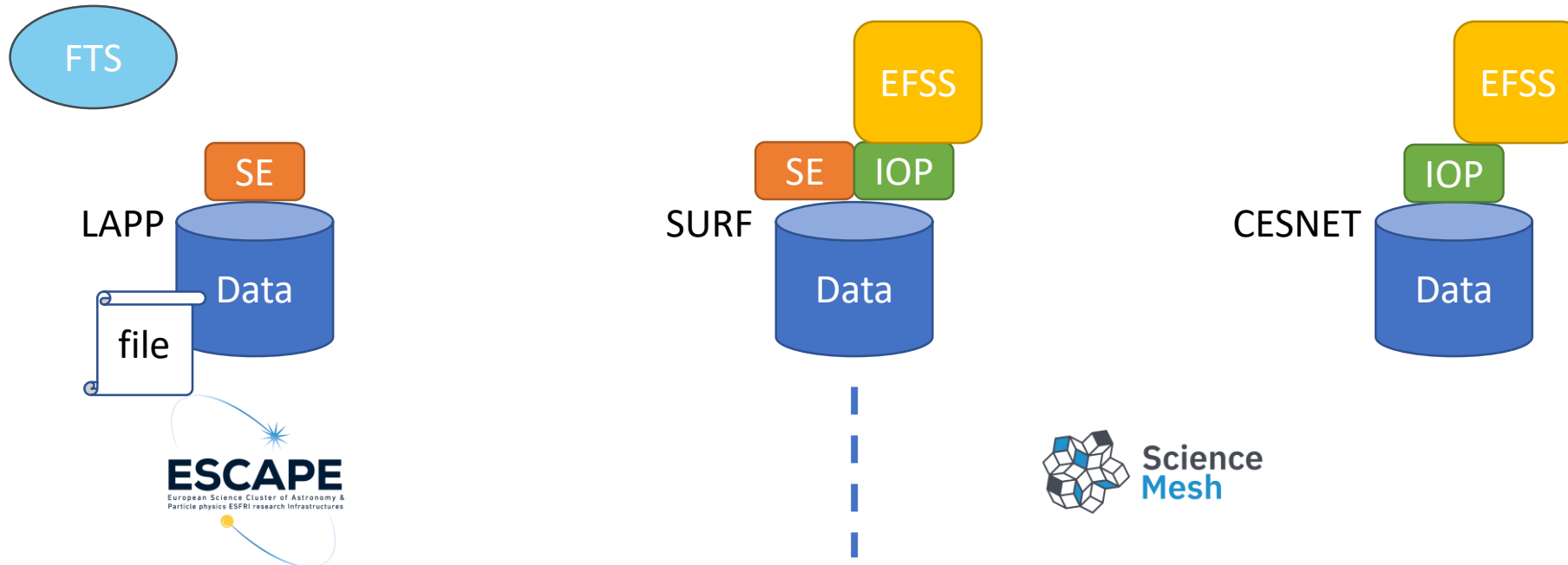



 Stella (data manager)

 Yan (PI)

 Mirek

FTS client



 Stella (data manager)

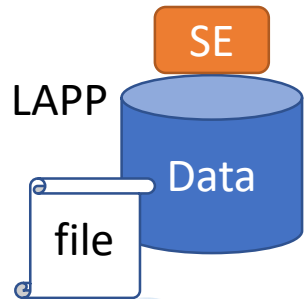
 Yan (PI)

 Mirek

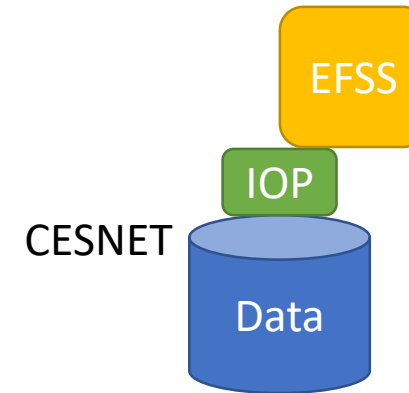
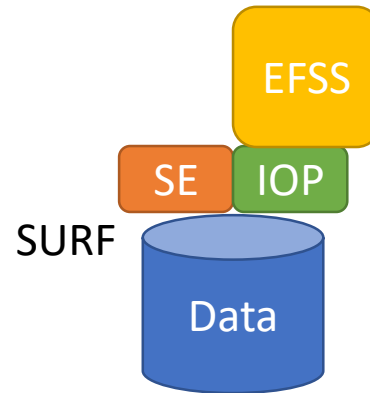
**Replicate data from LAPP to SURF**

FTS client


FTS



**ESCAPE**  
European Science Cluster of Astronomy & Particle physics ESFRI research Infrastructures



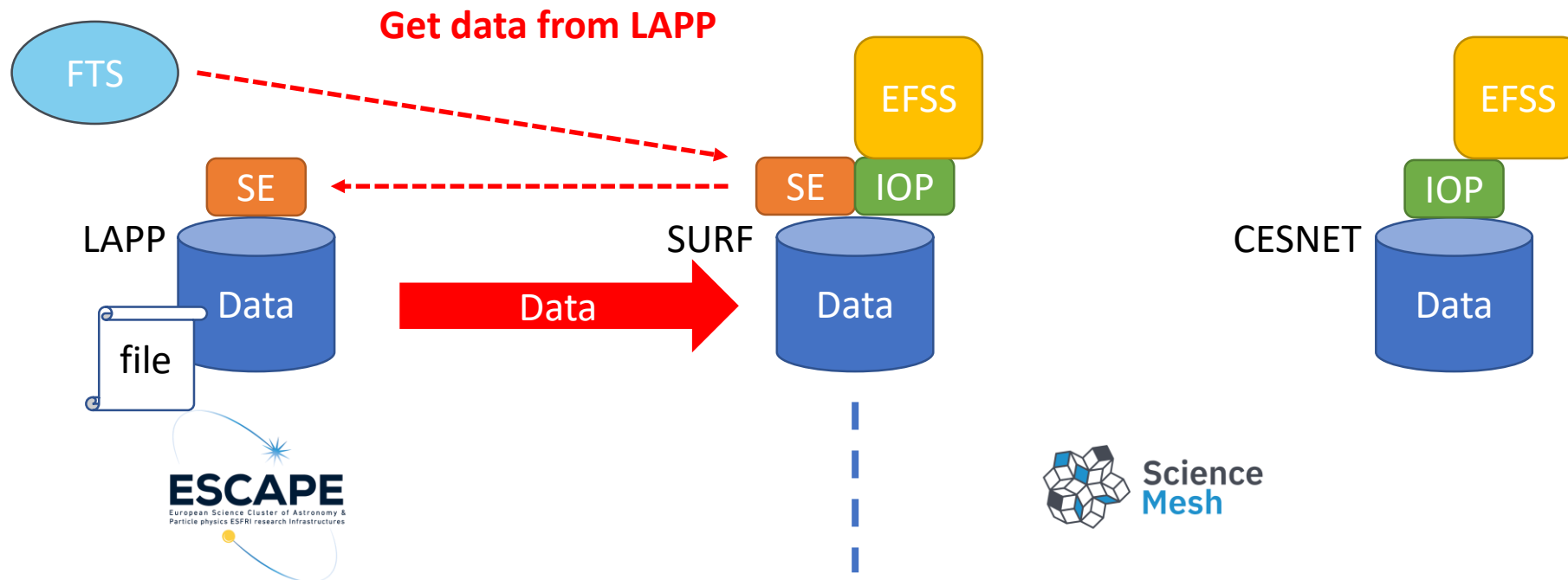
 Science Mesh

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 Yan (PI)

 Mirek

FTS client



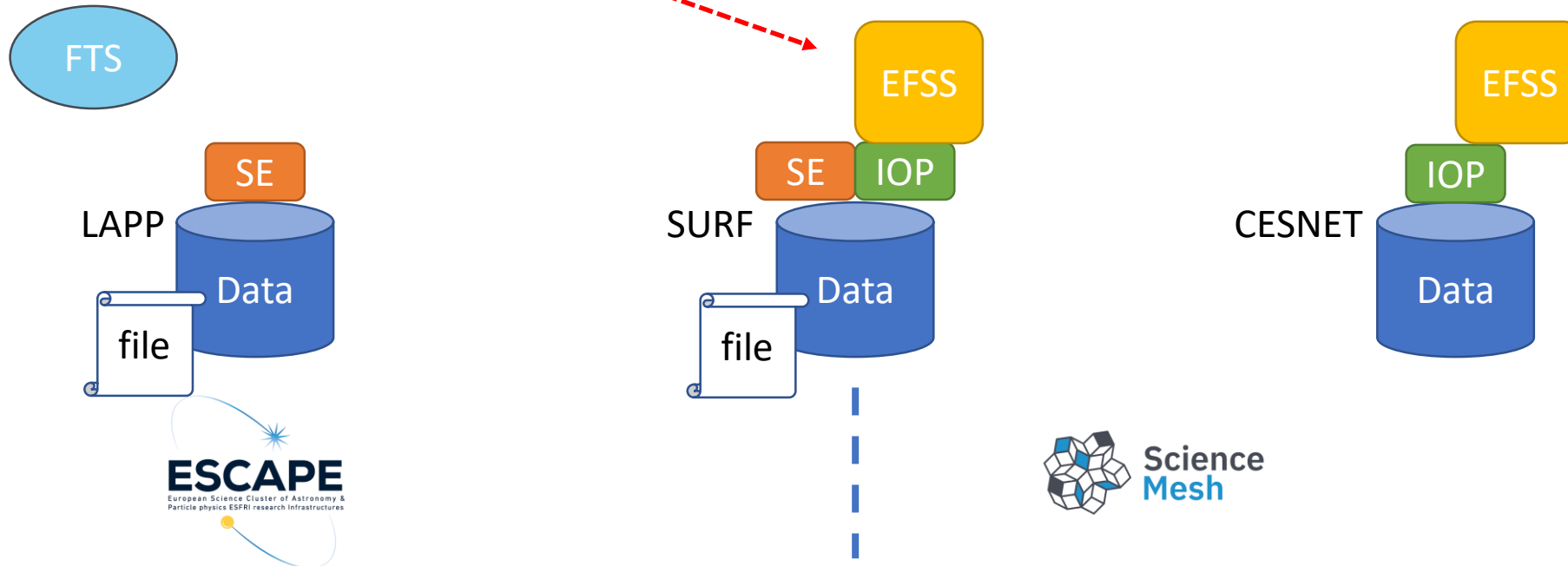
😊 Stella (data manager)

😊 Yan (PI)


😊 Mirek

Share data with Yan

FTS client





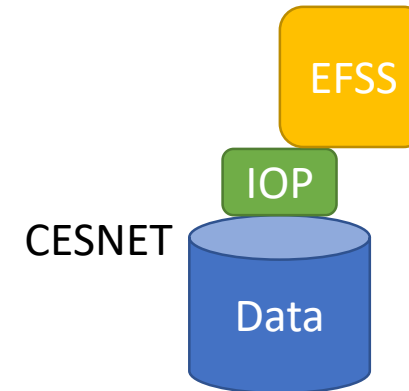
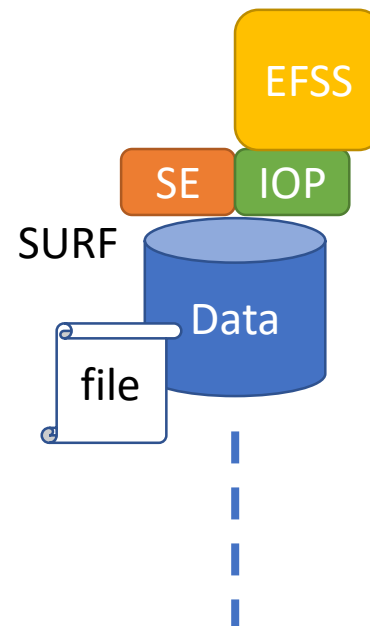
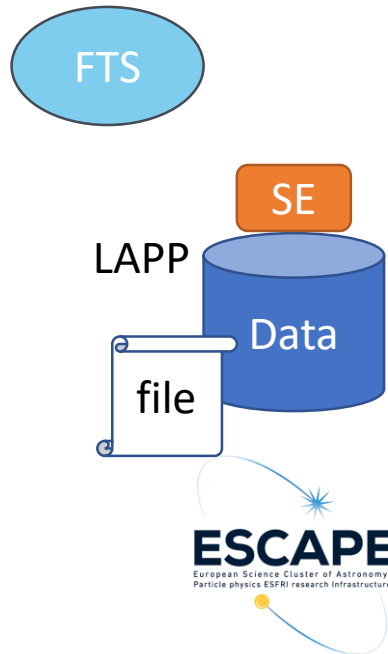
 Stella (data manager)


 Yan (PI)

 Mirek

Share data with Mirek

FTS client

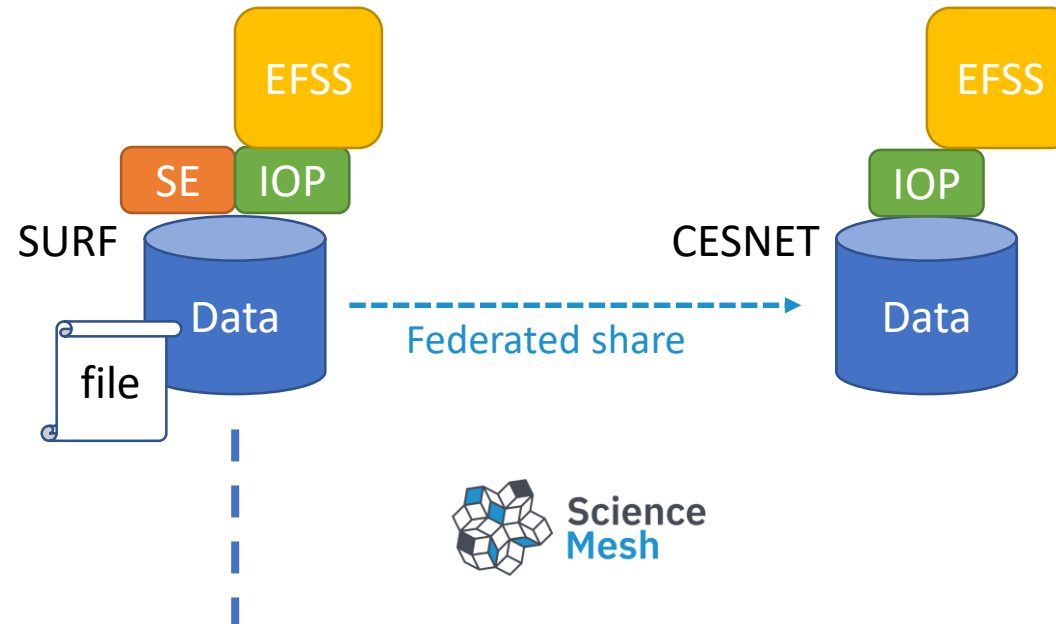
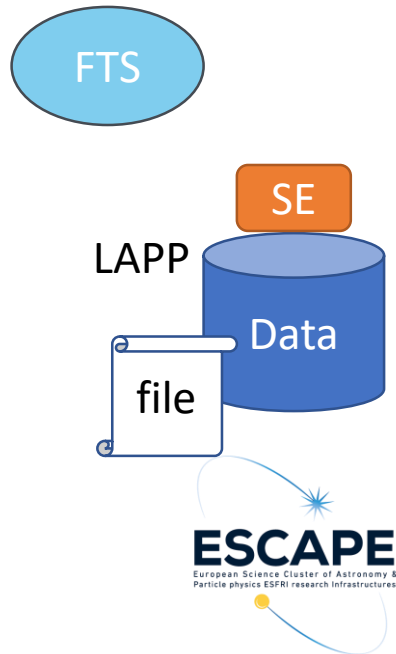


 Stella (data manager)

 Yan (PI)

 Mirek

FTS client



## Data Transfers

Connecting the  **ESCAPE** datalake  
European Science Cluster of Astronomy & Particle physics ESFRI research infrastructures

with the  **Science Mesh**

[https://www.youtube.com/watch\\_popup?v=Nhv-btV8TUI](https://www.youtube.com/watch_popup?v=Nhv-btV8TUI)



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**Thank you!**  
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