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SRC Network global capabilities



SKA Regional Centre Capabilities Blueprint

Science Enabling Applications

Analysis Tools, Notebooks, Workflows execution Machine Learning, etc

Data Discovery

Discovery of SKA data from the SRCNet, local or remote, transparently to the user

Support to Science Community

Support community on SKA data use, SRC services use, Training, Project Impact Dissemination

Distributed Data Processing

Computing capabilities provided by the SRCNet to allow data processing

Visualization

Advanced visualizers for SKA data and data from other observatories

Interoperability

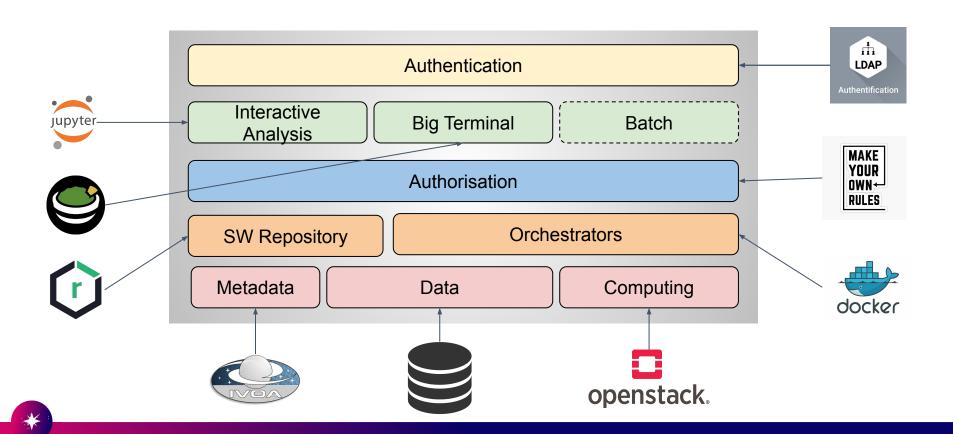
Heterogeneous SKA data from different SRCs and other observatories

Data Management

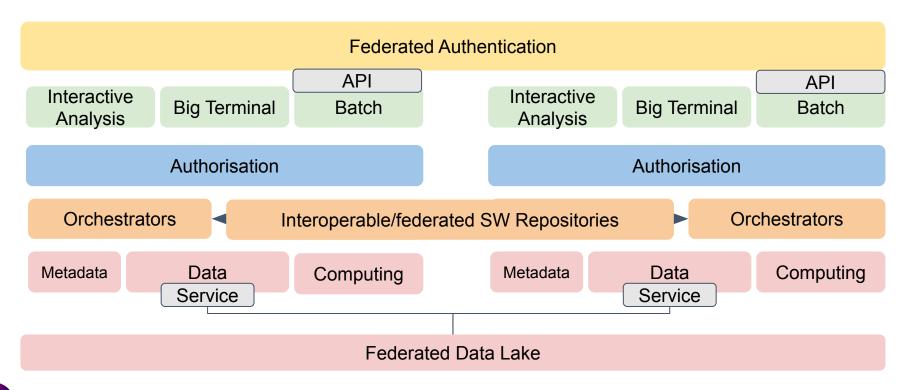
Dissemination of Data to SRCs and Distributed Data Storage



Science platforms



Science Platforms Interoperability

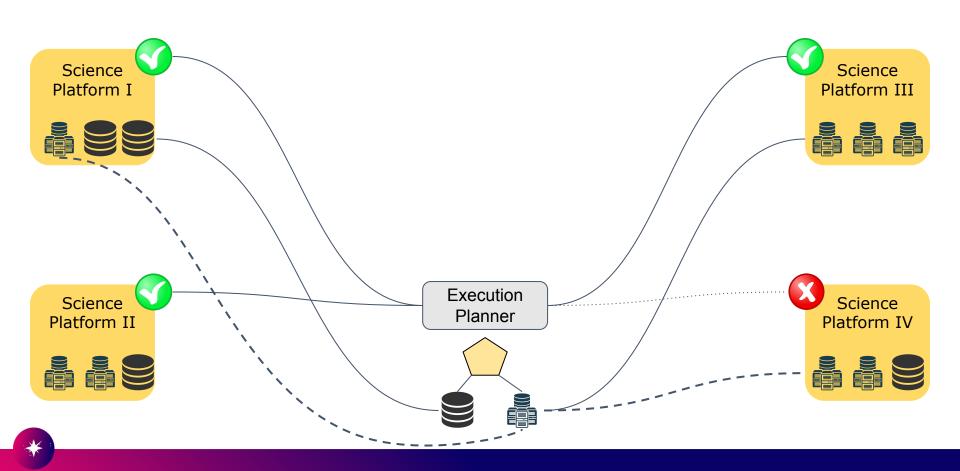


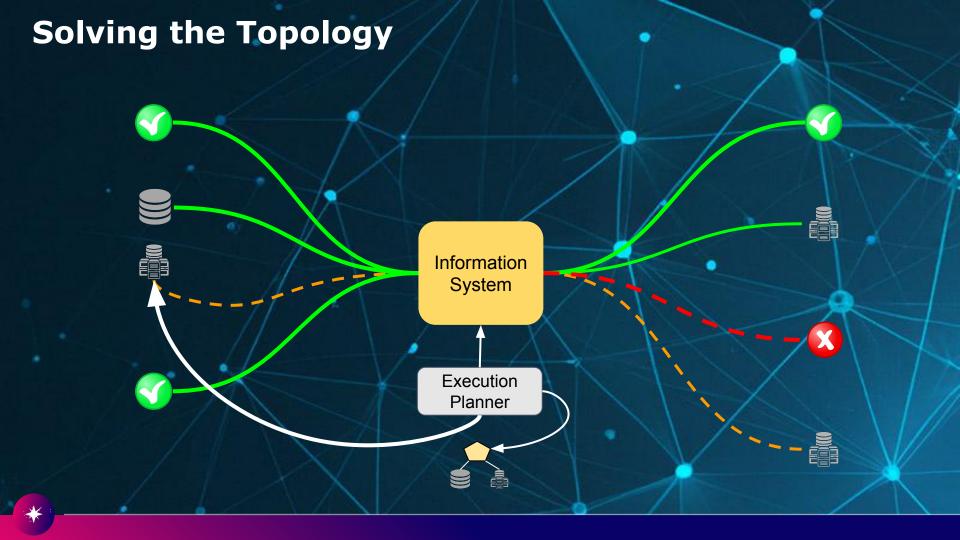


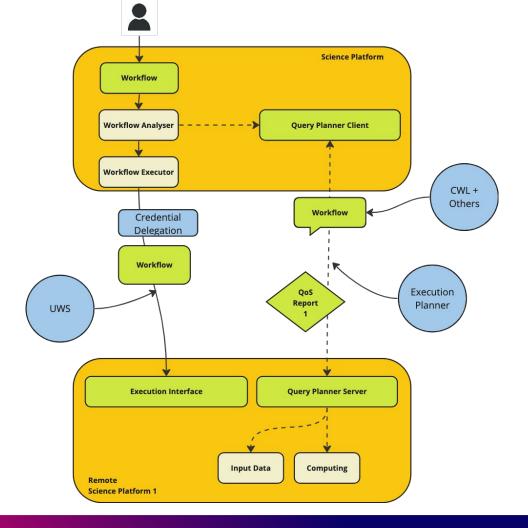
Some possible data mesh services

Data Type	Operation	Input	Output
Any Type	Get Stream	ID	Input Stream
Data Cube	Cut-out	ra, dec. size_resolution	Data Cube
Data Cube	(e Spe cira	a dec si le	spectr im
Data Cube	Get Time Series	ra, dec, size	Time Series
Data Cub Common	Get Tilce	w vine.ign	m 19
Image	Change Resolution	ra, dec, size, resolution	Image (FITS to Hill S)
Image	Source Extraction	ID, algorithm params	ource Catalogue
Spectrum native	Contects V	и IS AF	Spectum VO
Source Catalogue	Similar Source	Source ID	Source Catalogue

Execution Planner







ComputingServicesAPI

Summary

- Possible "interoperable science platform" new phase with:
 - Federated Authentication Protocols
 - Improved data access
 - Remote operations
 - (Simplified) federated execution
 - Execution planner
 - Topologies
 - Software characterisation
 - Workflows

PROMOTE/ENDORSE

NEW? NEEDED?

EXTEND?

NOTE TO STANDARD

DM INSIDE EXEC.PLAN.?

NEW? NEEDED?

- Today objectives
 - Agree on roadmap
 - Identification of interested parties



Thanks for your attention