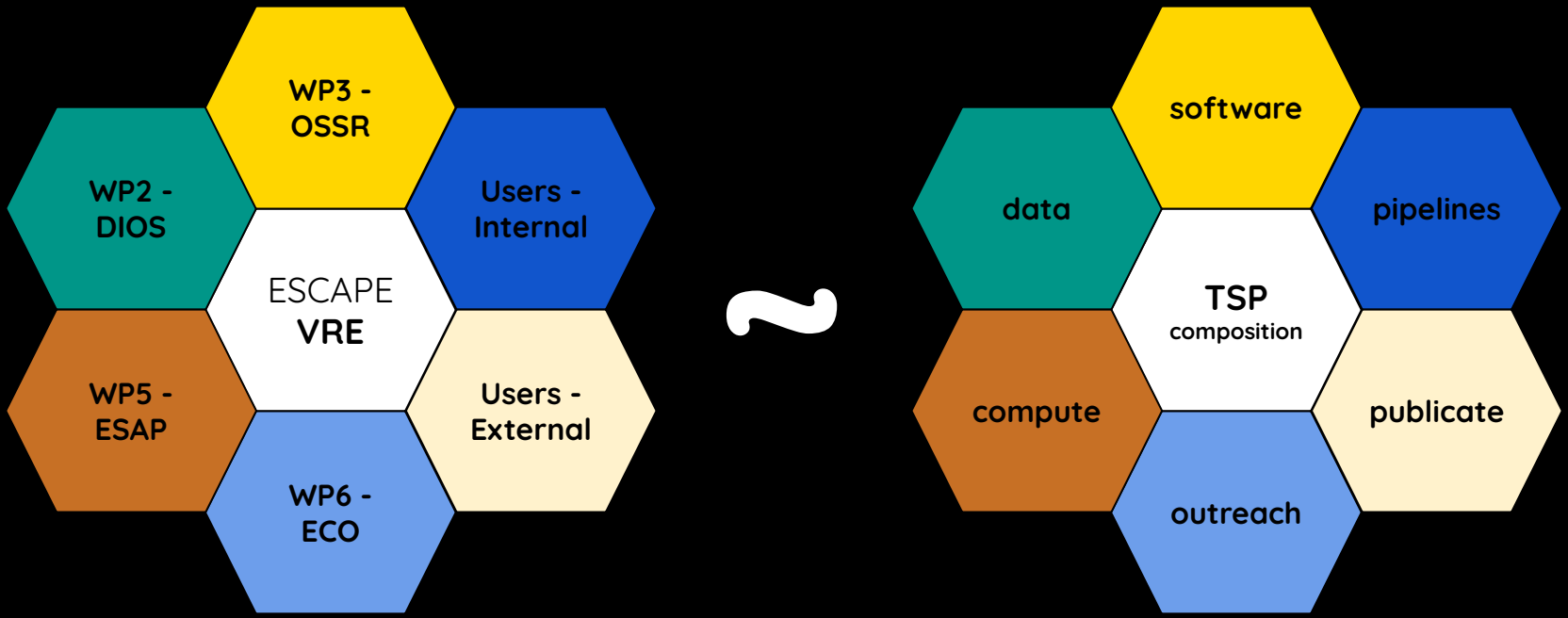
Proto-VRE for TSPs

more in Sep presentation

Arturo Sánchez Pineda

October 20, 2021

ESCAPE - The European Science Cluster of Astronomy & Particle Physics ESFRI Research Infrastructures has received funding from the European Union's Horizon 2020 research and innovation programme under the Grant Agreement n° 824064.


WP3 - OSSR
WP2 - DIOS
Users - Internal
ESCAPE VRE
WP5 - ESAP
Users - External
WP6 - ECO
~
software
data
pipelines
TSP composition
compute
publicate
outreach

ESCAPE
VRE

An exercise to imagine how current resources can be aggregated so as to be reachable and use from a single entry point (e.g. a single portal). Unifying UI / UX as much as possible, that IMO is the crucial point of any future VRE: a *nice* User Interface

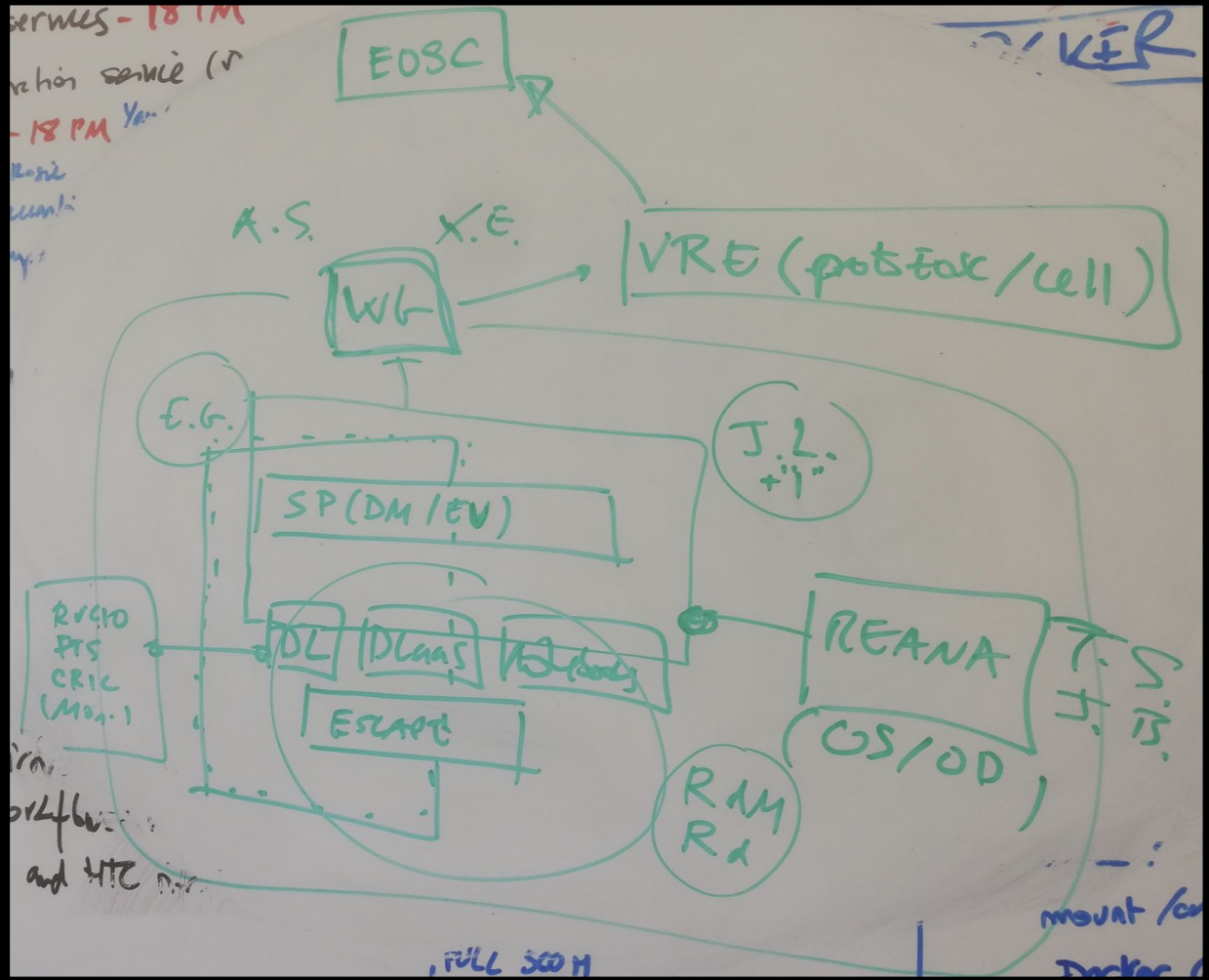
Today's highlights

- **Knowing the new group**
  - **19th October → first organisational meeting @CERN**
  - **Alba, Arturo, Elena, Jared, Xavier (thanks!)**
- **Discussion regarding the current resources and how to start**
  - **Current status and what is coming into the next two (2) months**
  - **https://escape2020.pages.in2p3.fr/virtual-environment/home/**
  - **We plan to have a weekly meeting → feedback and activities**
  - **Connection with the DAC21 in November**
    - **This is a simulation of a TSP development**
- **Next steps**
  - **Including the interaction with external consultants**

Human Resources

(in my initial mission)

- Elena
- Jared
- Pooja (soon)
- Alba
- LAPP member(s) *(under discussion)*
- “External”
  - REANA Team @CERN
  - RUCIO (DLaaS) @CERN
  - Trust- IT



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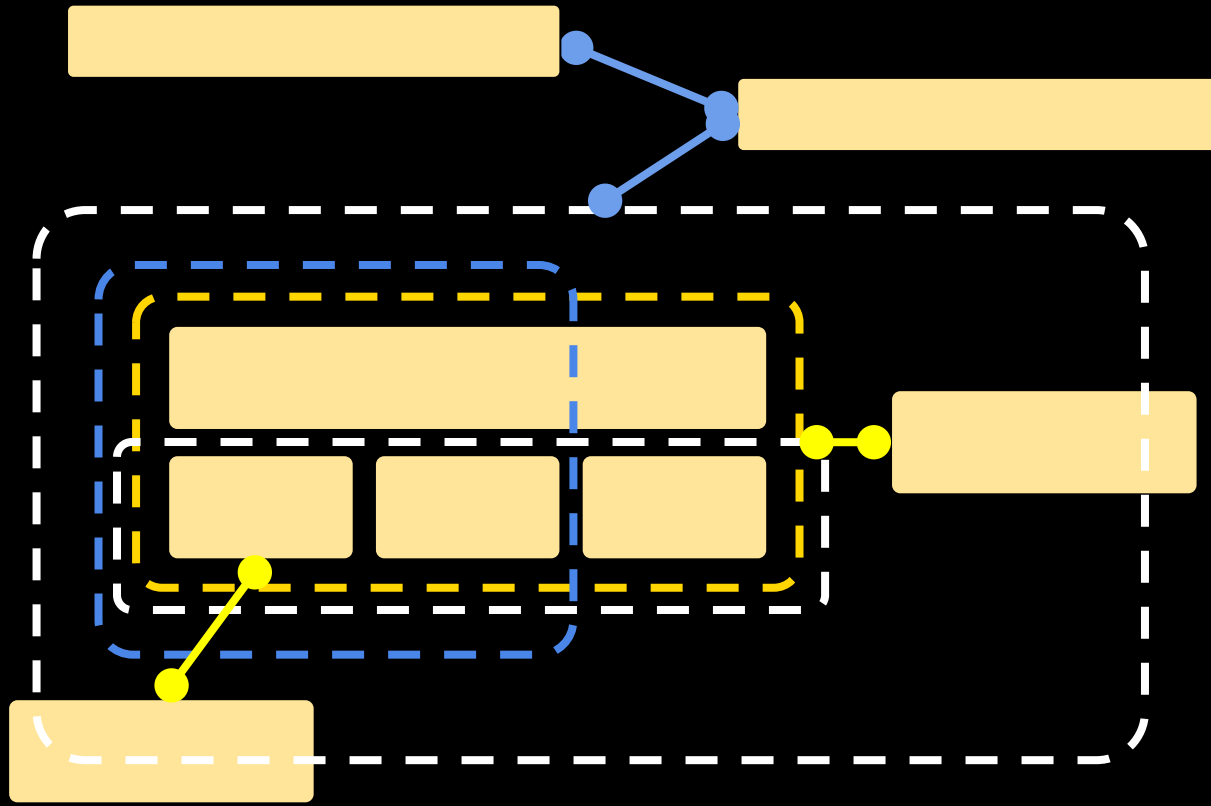


datalake

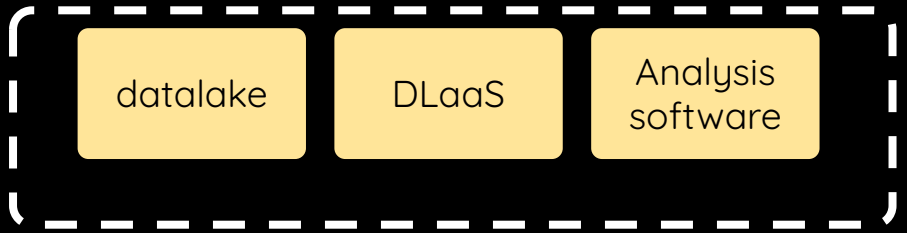
datalake

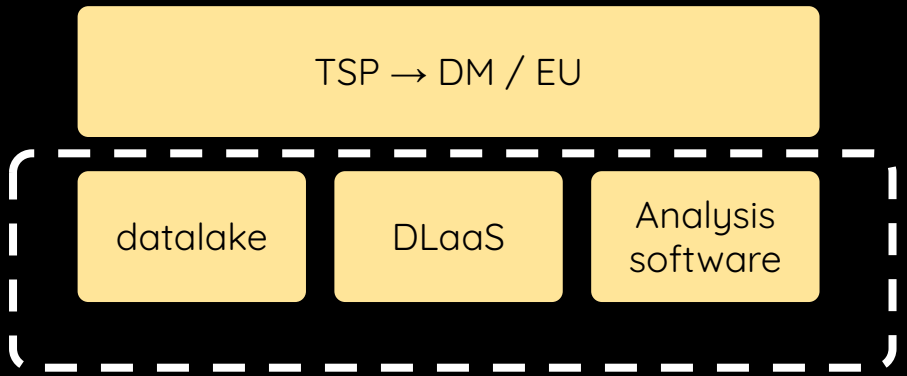
DLaaS

datalake

DLaaS

Analysis software


datalake
DLaaS
Analysis software


TSP → DM / EU
datalake
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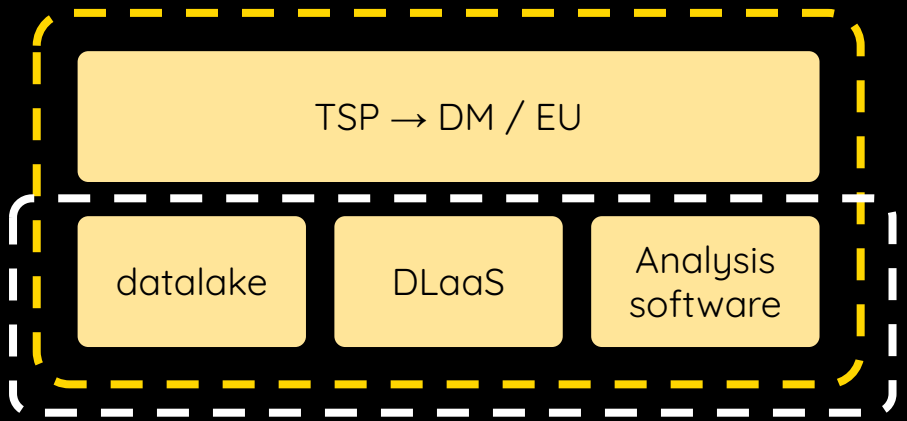
Analysis software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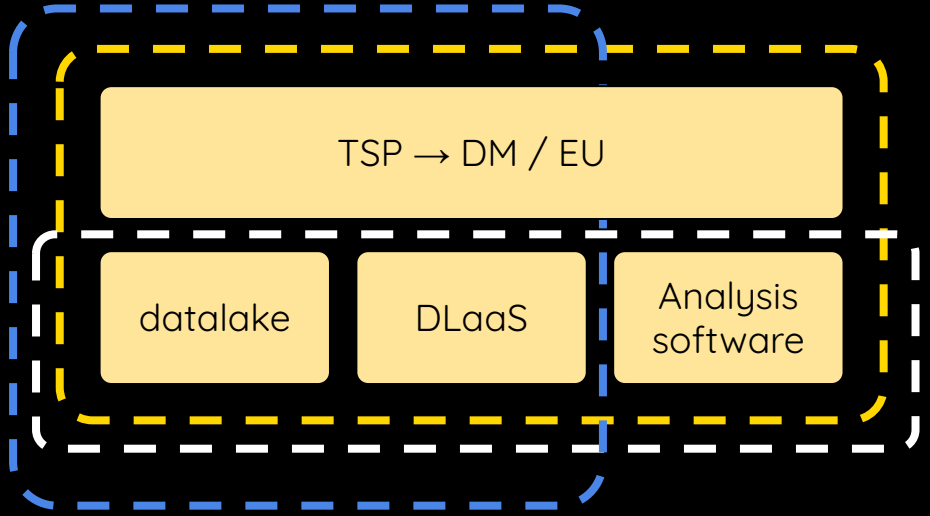
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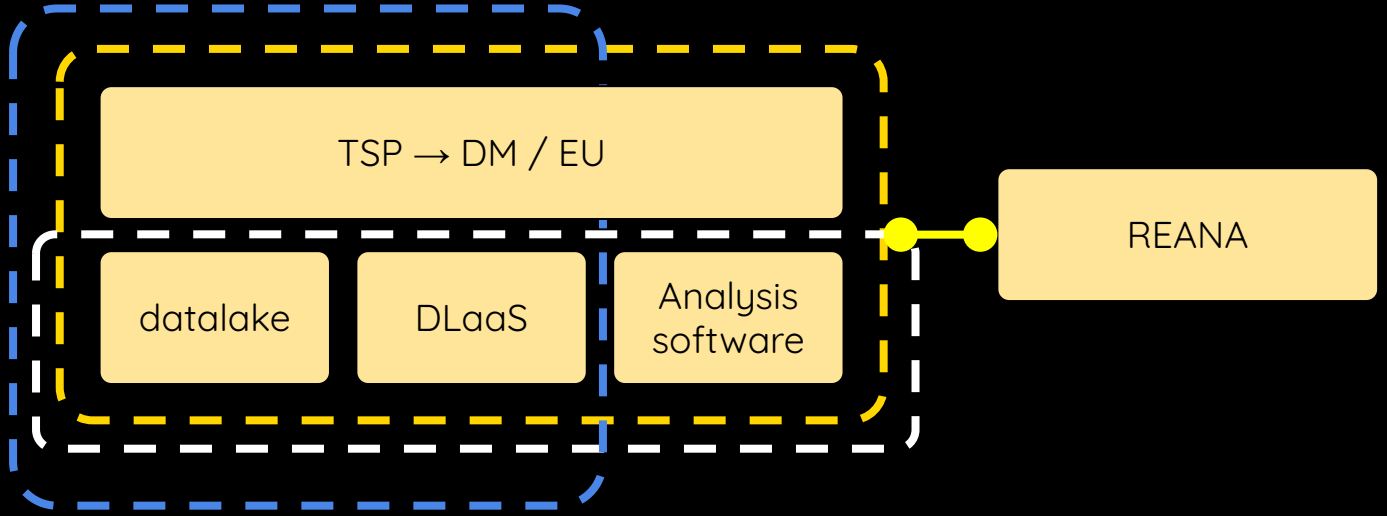
TSP → DM / EU
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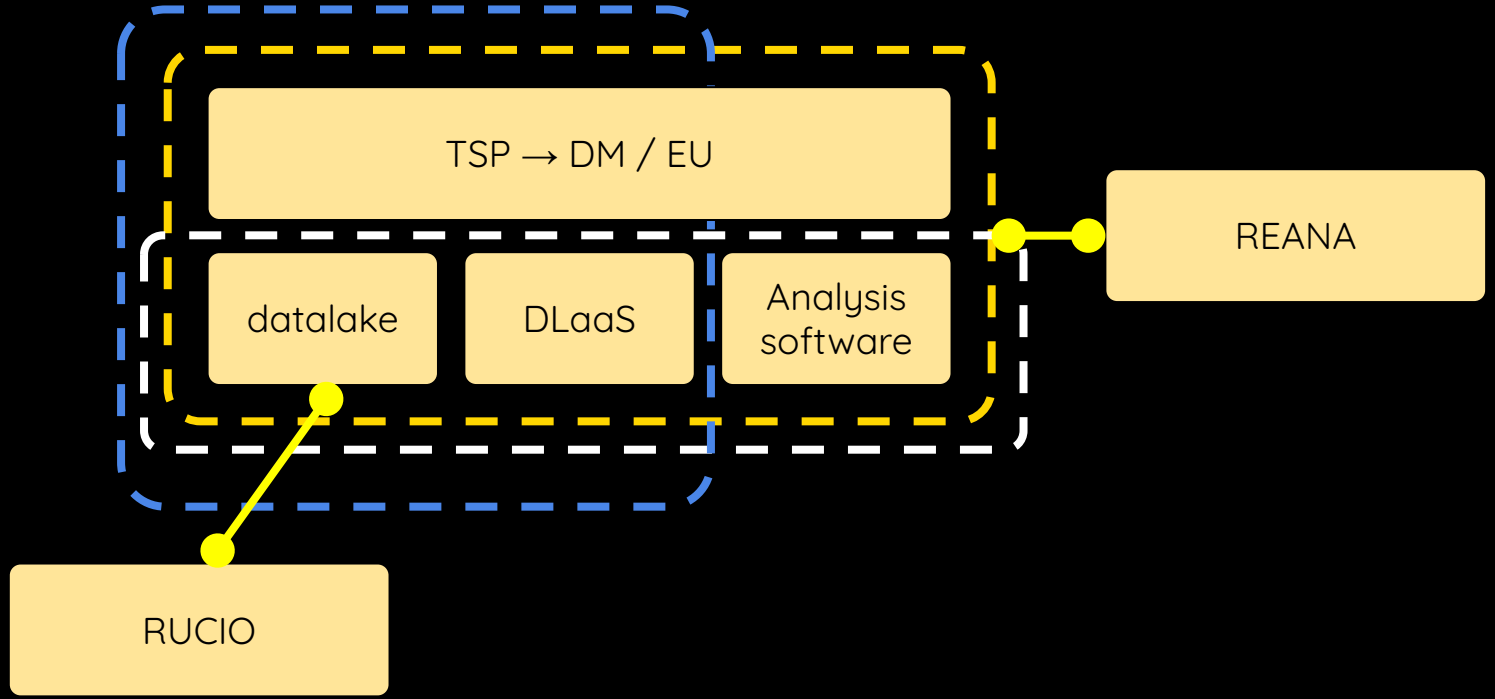
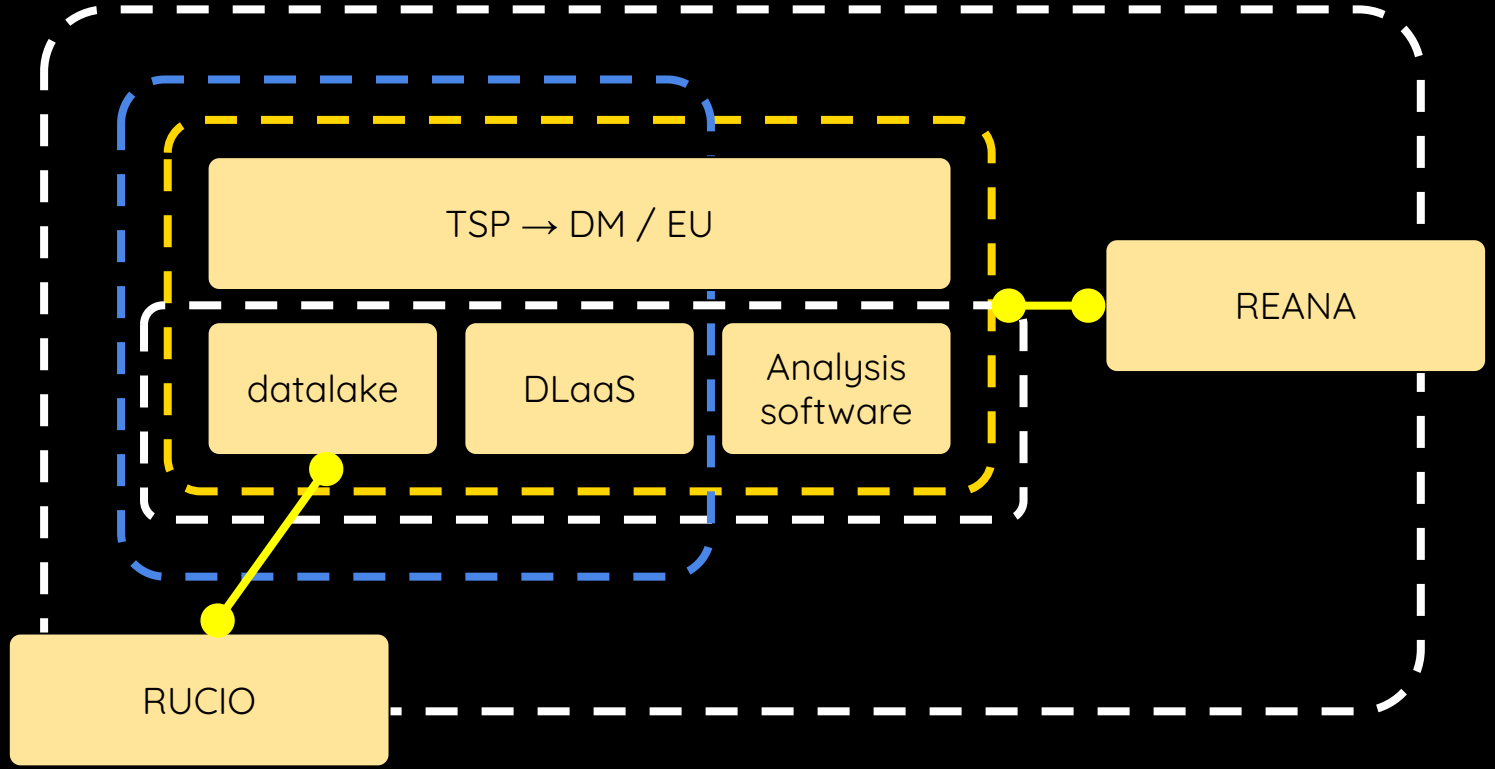
Analysis software
REANA


TSP → DM / EU
datalake
DLaaS
Analysis software
REANA
RUCIO


TSP → DM / EU
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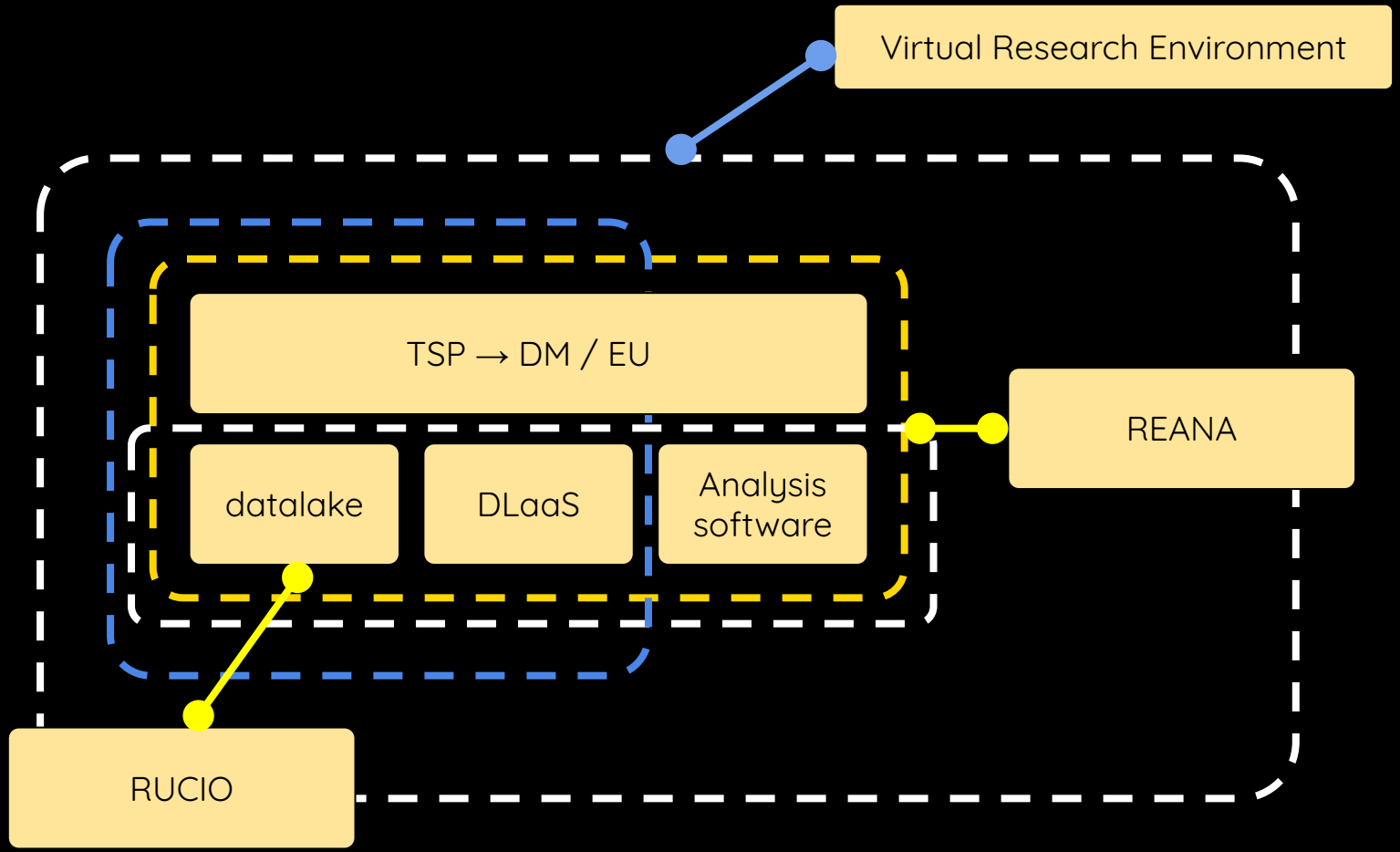
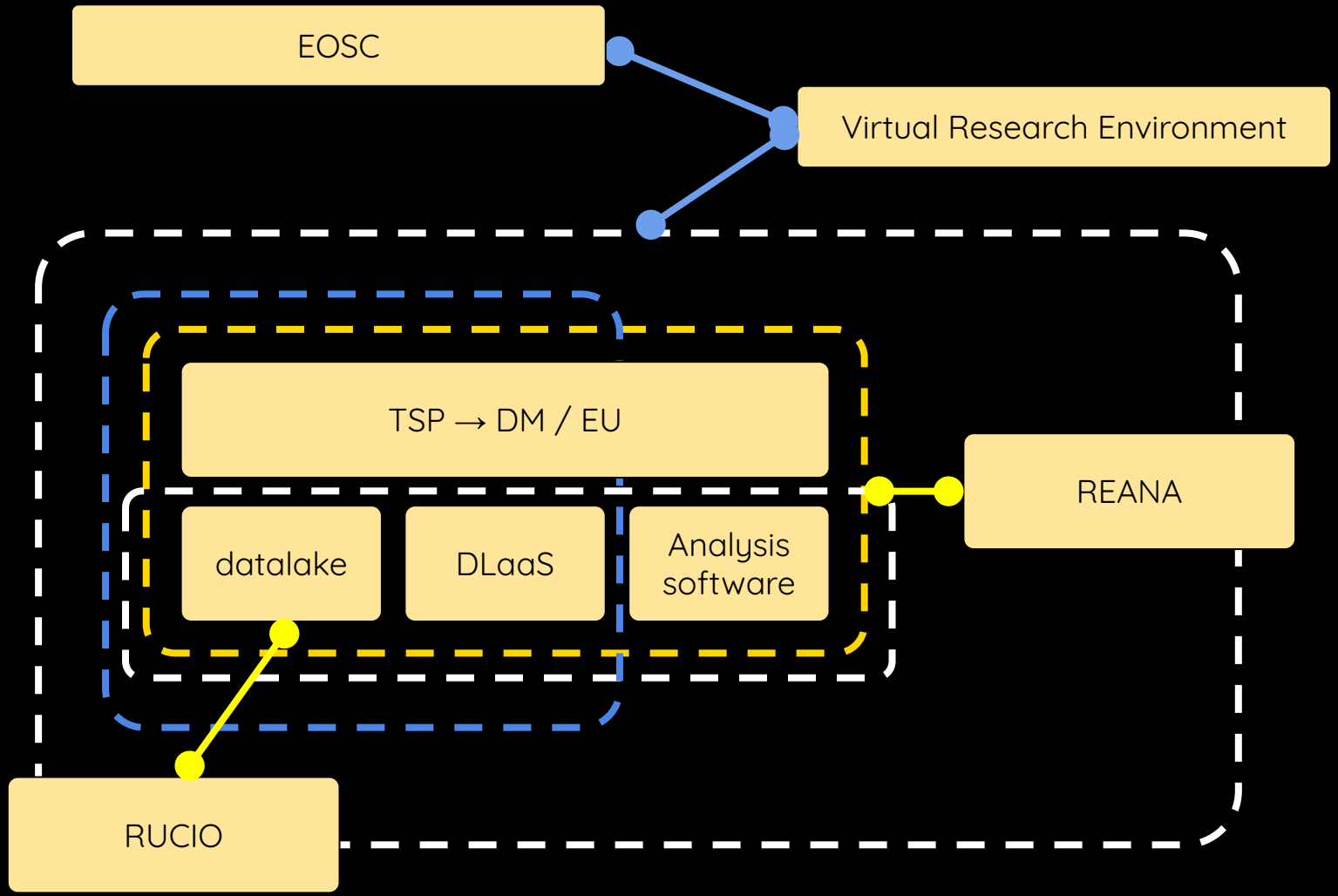

Virtual Research Environment
TSP → DM / EU
REANA
datalake
DLaaS
Analysis software
RUCIO


EOSC
Virtual Research Environment
TSP → DM / EU
datalake
DLaaS
Analysis software
REANA
RUCIO

proto - TSP

Searches as examples

ESCAPE site | Let's Start! | Meetings | OwnCloud | RedMine | Rocket.Chat

CERN mattermost | ESCAPE Wiki | Software and Services | Software DevOps | ESCAPE community | Analysis Platform

DLaaS - JupyterHub | Datalake - RSEs | Datalake - Monitoring | Rucio Docs | VO - Market | Documentation

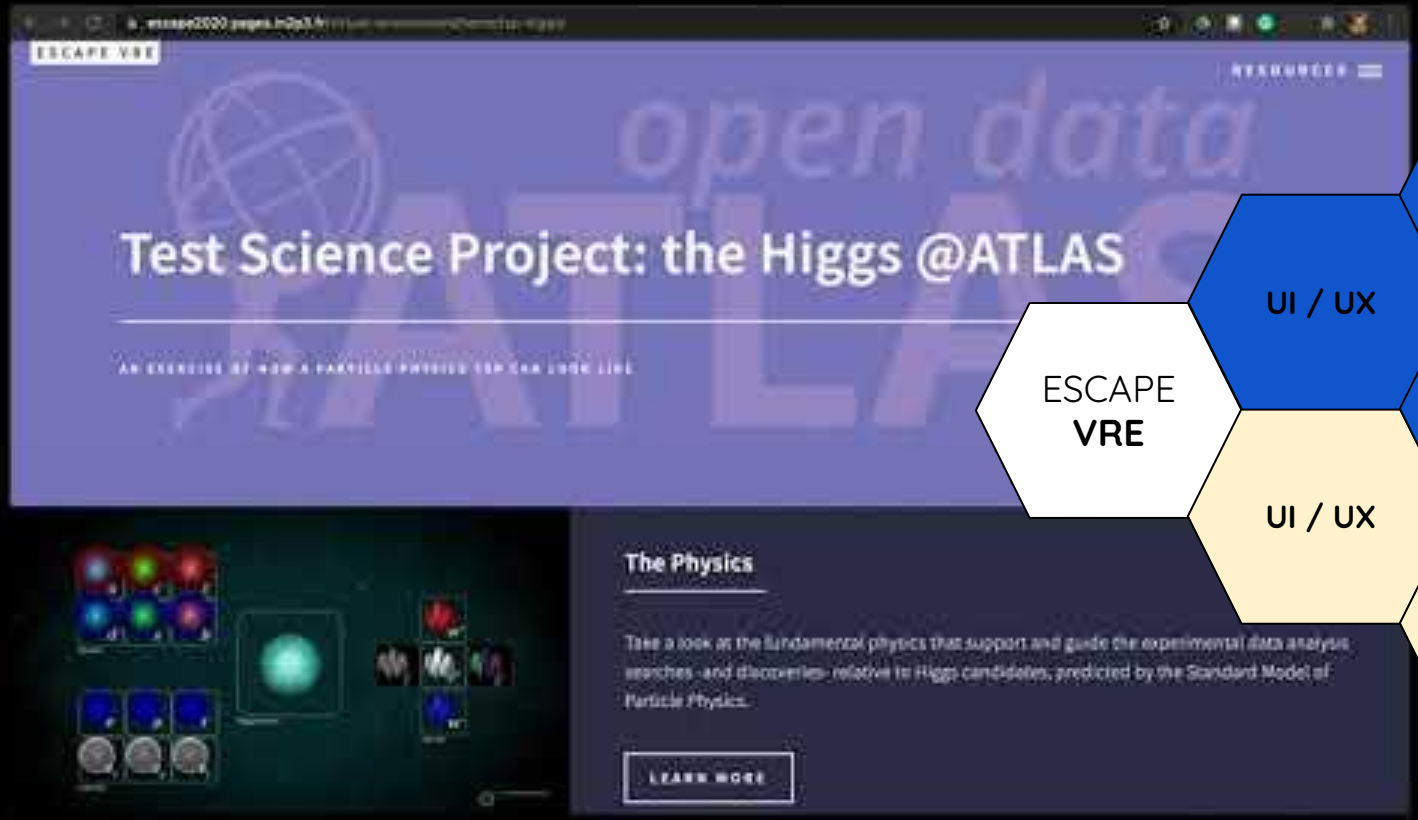
Get/Use Docker | Rucio CLI client | ESCAPE School - site | Seminars / Tutorials | Reset your password | Citizen Science

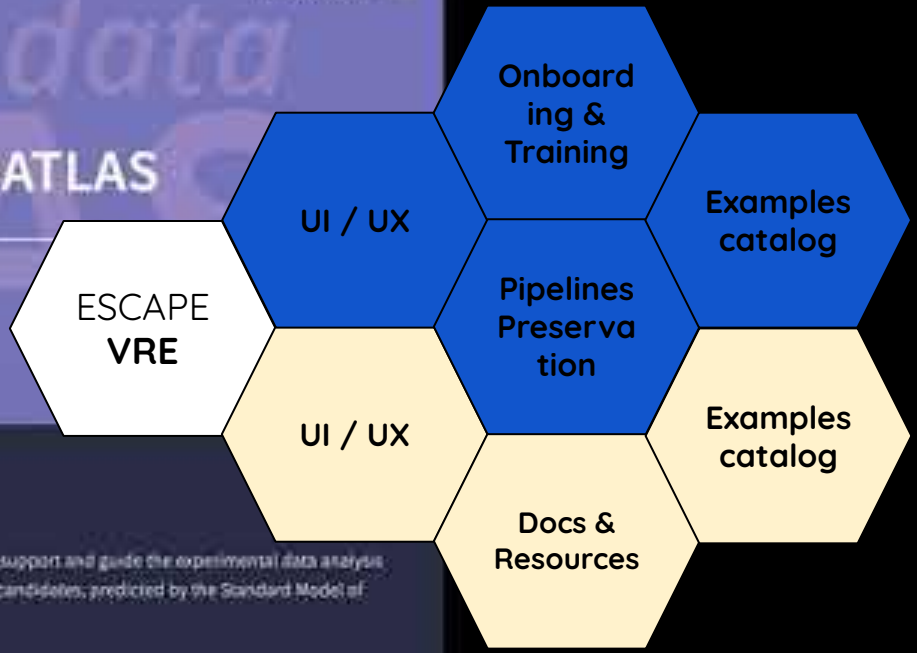
TSP - Higgs

TSP - Astro

Outreach - ATLAS | any other question?

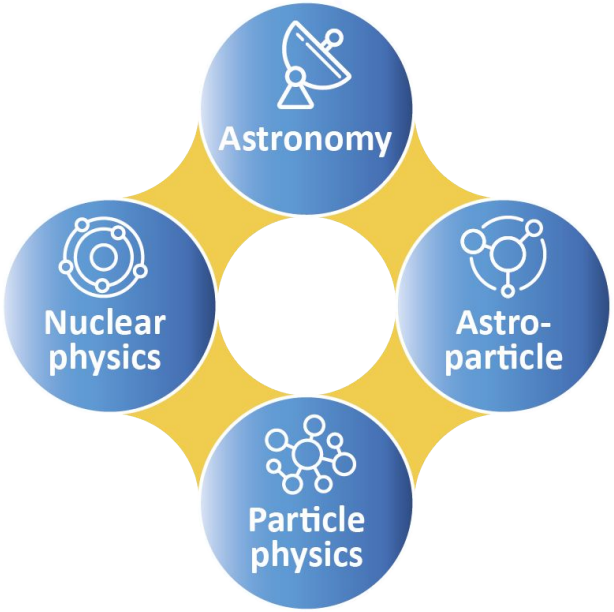
https://escape2020.pages.in2p3.fr/virtual-environment/home/member/researcher/


ESCAPE VRE
RESOURCES
Test Science Project: the Higgs @ATLAS
The Physics
Take a look at the fundamental physics that support and guide the experimental data analysis searches -and discoveries- relative to Higgs candidates, predicted by the Standard Model of Particle Physics.
LEARN MORE


ESCAPE
VRE
Onboarding & Training
UI / UX
Examples catalog
Pipelines Preservation
UI / UX
Examples catalog
Docs & Resources

ESCAPE
European Science Cluster of Astronomy & Particle physics ESFRI research infrastructures

SUMMARY



A concrete exercise regarding the development of a VRE as a demonstrator for tools, resources and TSP aggregation is ongoing
https://escape2020.pages.in2p3.fr/virtual-environment/home/

Warning: many links and pages yet under construction…

Feedback, ideas and help are very much welcome!

You are very much invited to be part of the current content and experience creation

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VRE

Principles

ESCAPE
VRE

An exercise to imagine how current resources can be aggregated so as to be reachable and use from a single entry point (e.g. a single portal). Unifying UI / UX as much as possible, that IMO is the crucial point of any future VRE: a *nice* User Interface

Development principles

- **An aggregation site**
- **Simple User Onboarding**
- **Good UI/UX as an essential component**
  - **No complex menus nor multiple tabs**
- **Scalability**
  - **Several developers must be able to interact with the site at the same time**
  - **Content can be created by ESCAPE members and be approved in a few hours (on working hours)**
  - **External users can eventually join to dedicated areas**
- **CI/CD by default**
  - **This is the standard way scientists works anyways**
- **Portability**
  - **Ability to move the site to other/multiple hostings**
- **Even when this is not another "*documentation site*", it follows developing philosophies like the one for**
  - http://opendata.cern.ch/
  - https://hepsoftwarefoundation.org
  - https://reanahub.io
  - https://escape2020.github.io/school2021/
  - http://opendata.atlas.cern/