



ESCAPE

European Science Cluster of Astronomy &
Particle physics ESFRI research Infrastructures

Science Platforms & Interoperability

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@ Science Platforms: towards Data Science –



BoF 8

Groningen, 9 October 2019



Disclaimers

- Some content may be DAL biased or resource curation based
 - a lot of our work is data/resource driven
- We are NOT the IVOA
 - We were asked to give a VO/interoperability view
- We have a lot of **QUESTIONS** in here
 - We don't know the solutions yet

All of this has an attachment to our ESCAPE/EOSC involvement



Interoperability among Platforms

GOALS

- enable direct re-use of data/service/code/workflow resources among standalone platforms
- continue working on the ecosystem idea sitting behind the IVOA vision

“ecosystem is better than monoculture”



VO within Science Platforms

PROS

- not reinvent the wheel
- **interoperable** data/service resources
- **metadata richness** to enable science portal operations
- long term **sustainability** of the effort to build a Science Platform

CONS

- implementation may take more effort
- cost of contributing to a standards community



Interoperability among Platforms

HURDLES

- interoperable data resources
- interoperable code resources
- **moving** them around in a realistic and reasonable way



Interoperability among Platforms

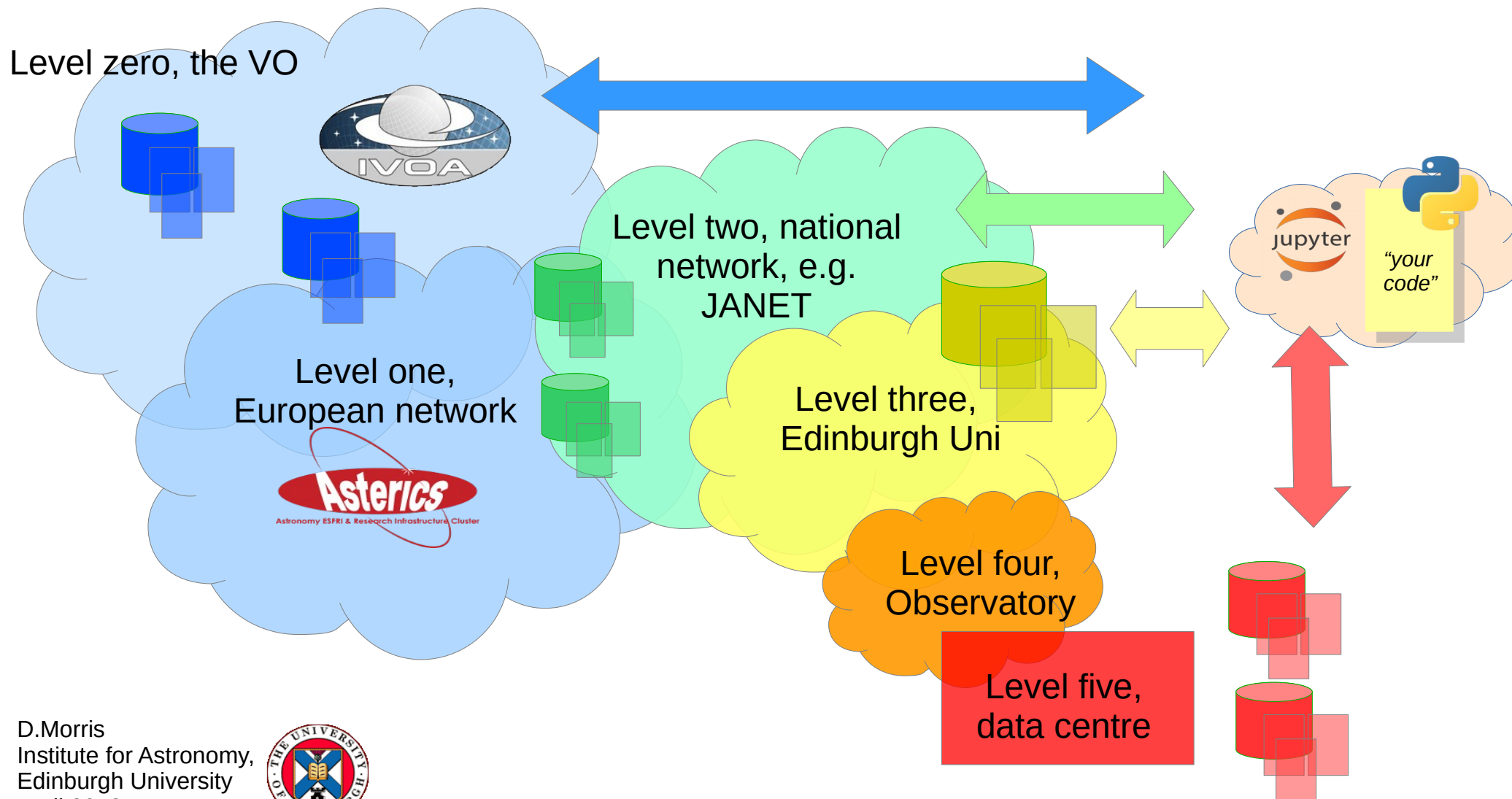
STATUS & NEEDS

- **data** discovery and access, open **VO** standards
- interoperable **AAI** solutions (IVOA GWS working on it ...)
- metadata to characterize **network proximity**
- IVOA **metadata EXIST** for describing **data**, **NEED** to have them for **code**
 - there probably already are some standards for this
 - we should **find/evaluate and adopt them** rather than invent new ones





Can we model this as membership of 'zones' ?



A word on FAIRness

Findable, Accessible, Interoperable & Re-usable

return of Science Platforms is potentially great, but Science Platforms need to be designed properly to allow it (don't stay closed in your own realm).

See reproducibility talk: Bertocco @ IVOA Interop DCP session
(Friday @ 15:30 – Student Hotel splinter room)



Thank you!

