

The ASTERICs project

Shaping the context of the
DADI VO school
within the ASTERICs project

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ASTERICS

What to learn from me?

- ASTERICS
- ESFRI

Why ASTERICS ?

Astronomy ESFRI & Research Infrastructure Cluster

EC Horizon 2020 funding for

“Developing new world-class research infrastructures”

Call: INFRADEV-4-2014-2015 - Implementation and operation of cross-cutting services and solutions for clusters of ESFRI and other relevant research infrastructure initiatives

Project: M€15 for 4 years with 23 partners in 6 countries

New astro(particle)physics RIs

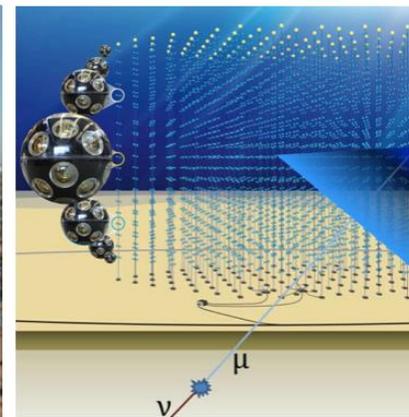
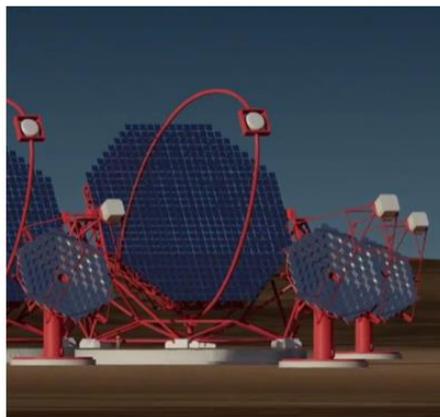
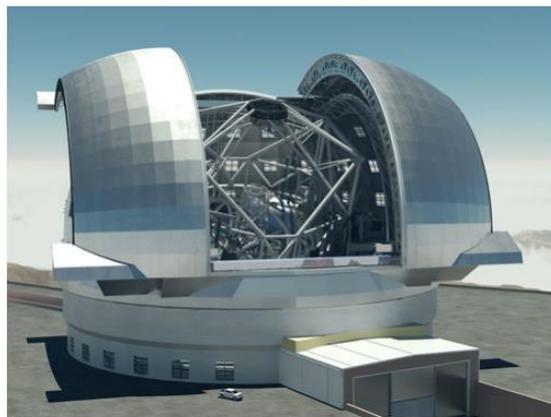
4 major future telescopes

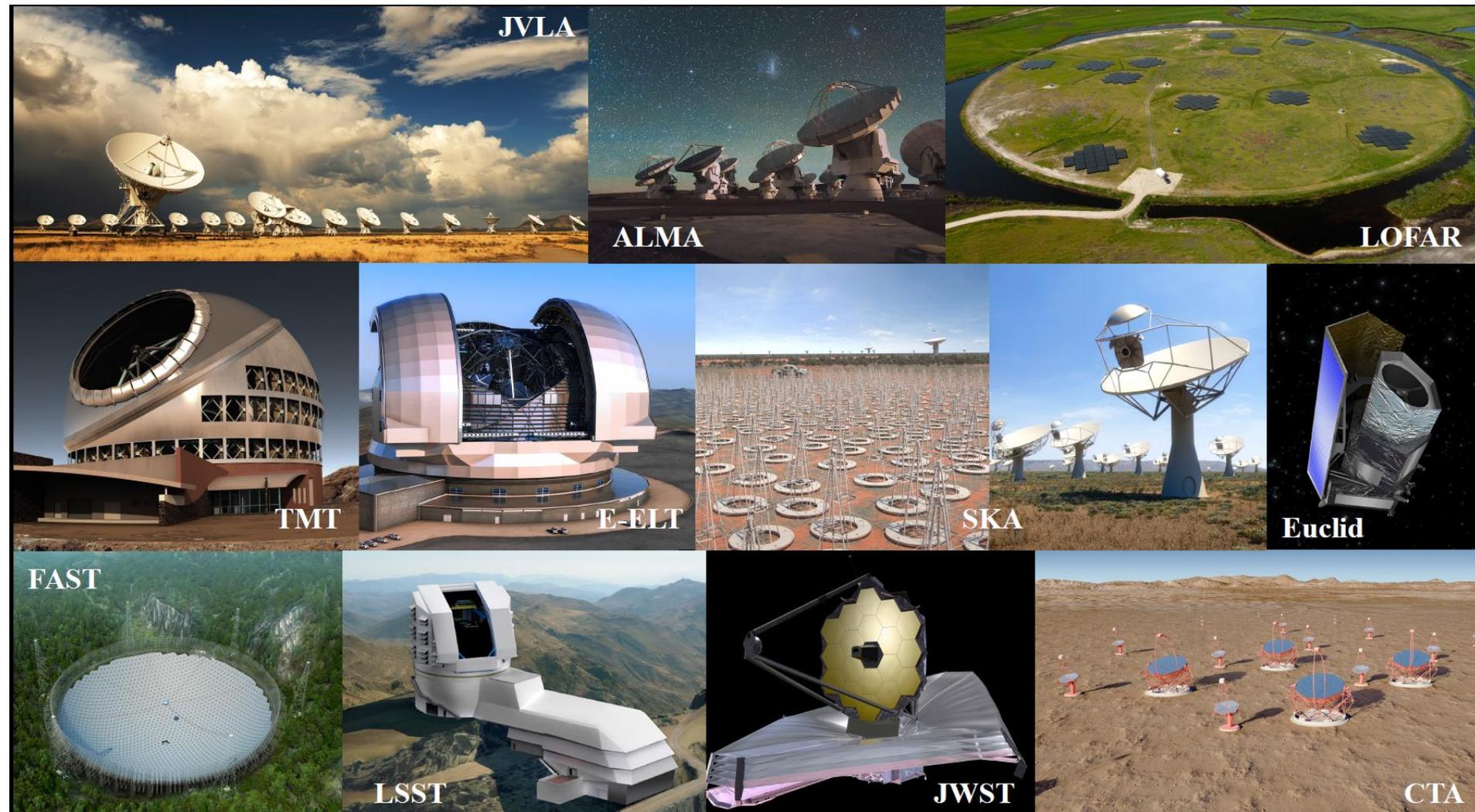
Optical
E-ELT

γ
CTA

Radio
SKA

ν
KM3NeT





ESFRI

www.esfri.eu

European Strategy Forum on Research Infrastructures

[kind of quality certificate for RIs]

main scope of ESFRI

to support a coherent and strategy-led approach to policy-making on Research Infrastructures in Europe and to facilitate multilateral initiatives leading to the better use and development of RIs.

The ESFRI vision seeks to extend capability of Research Infrastructures to all research fields, driving innovation. It envisions all EU Member States working coherently and jointly together on RIs, to overcome existing limits. This vision for 2020 is ESFRI's contribution to building the European Research and Innovation Area.

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Collaboration where possible

Analysing together	Virtual Observatory (VO) Sharing Data Analysis tools (re-)use data in new ways Citizen Science	DADI DECS
Observing together	Scheduling Timing	CLEOPATRA
Developing together	Data extraction/movement Data storage/retrieval Data analysis	OBELICS

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Collaboration where possible

Learning \Leftrightarrow developing

DADI

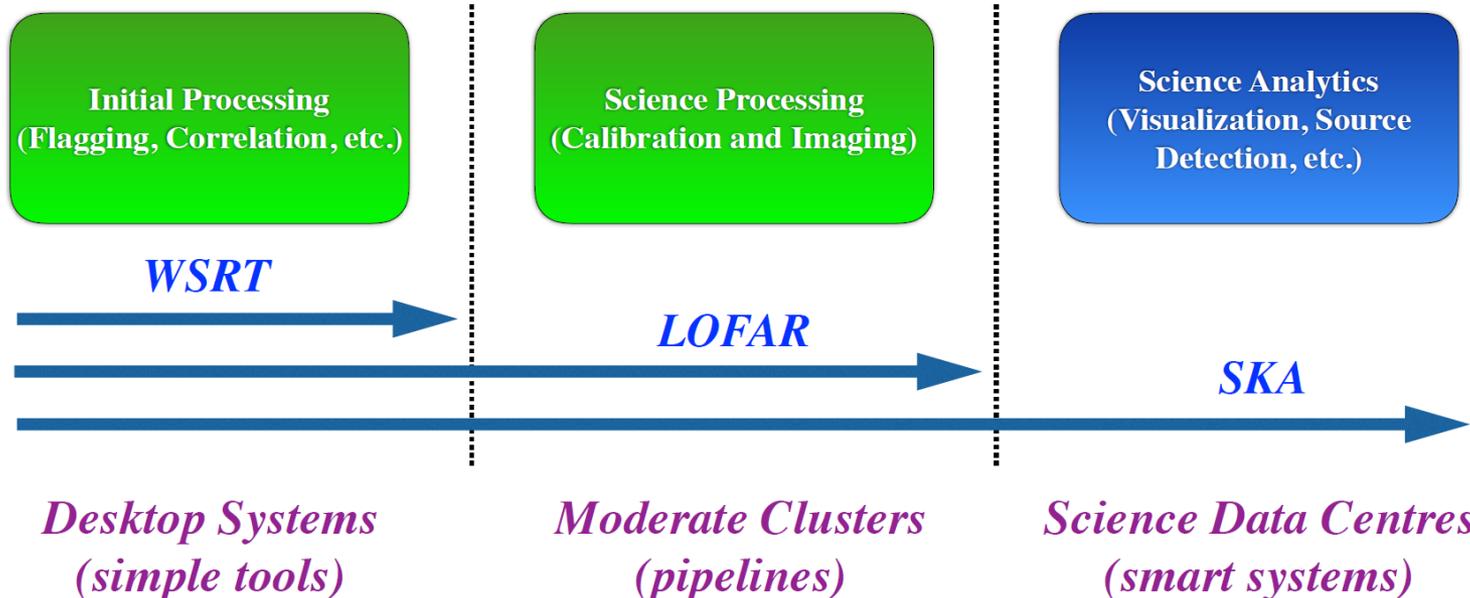
- School
- Technical Forum
- Data providers Forum

\Leftrightarrow IVOA: International Virtual
Observatory Alliance

RDA: Research Data Alliance

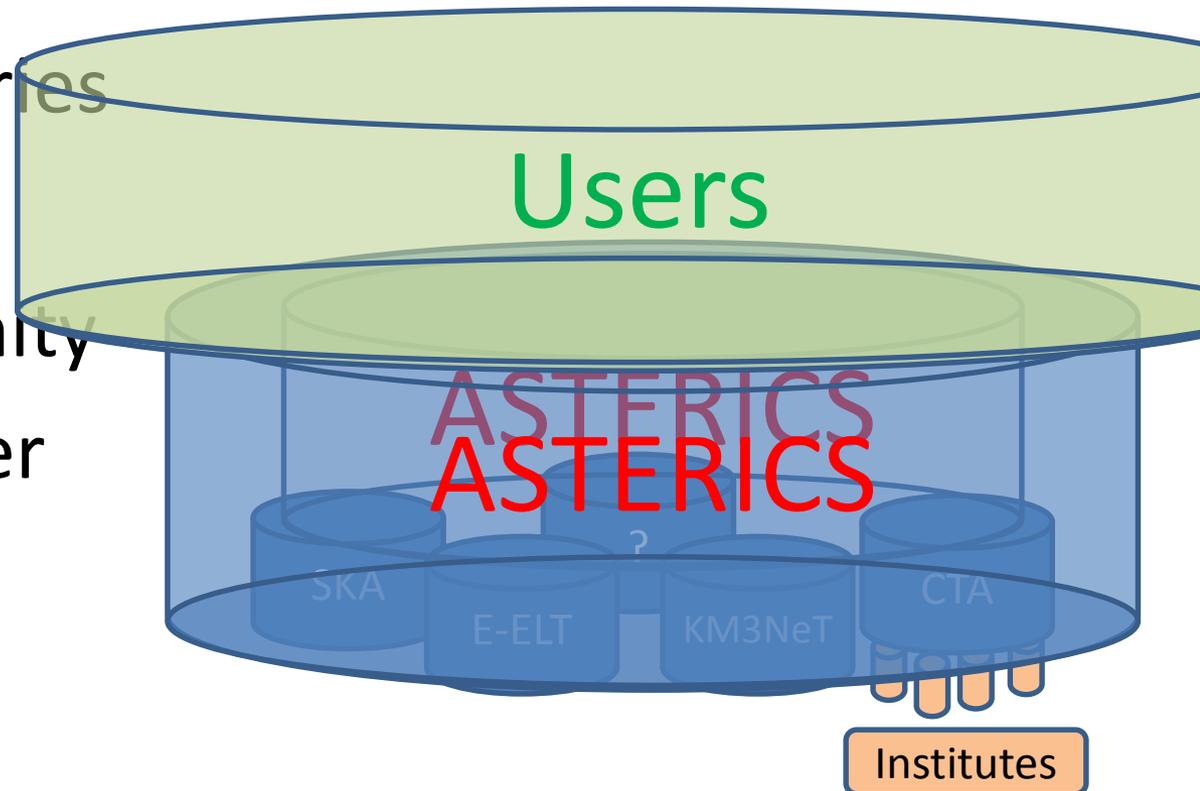
Scaling

NWO Full Cost of Science Extraction ASTRON



Why ASTERICs?

- Flatten boundaries
- Find synergies
- Create community
- Multi-messenger



Thank you

Stay connected and informed

www.asterics2020.eu

Have a nice school !

ASTERICS

Astronomy ESFRI & Research Infrastructure Cluster

- Address cross-cutting **synergies** and **common challenges**
- **SKA, CTA, KM3Net, E-ELT** & precursors and pathfinders
- Brings together the astronomy, astrophysics and particle astrophysics communities
- support and accelerate the implementation of the ESFRI telescopes
- cross-facility synchronicity for distributed and interoperable multi-messenger astronomy.

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Astronomy ESFRI & Research Infrastructure Cluster

- Develop: management, processing and scientific exploitation of huge datasets
- **Virtual Observatory** framework to increase the scientific impact of the telescopes, and greatly encourage use (and re-use) of the data in new and novel ways, typically not foreseen in the original proposals.
- develop **citizen scientist** mass participation experiments
- Ambition to be a flagship for the scientific, industrial and societal impact ESFRI projects can deliver.