

OSCARS

Open Science Clusters' Action
for Research & Society

Funded Project

STARLIGHT

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Implemented by



IN2P3



ACADA
COLLABORATION



Funded by
the European Union

Analysis is currently performed in **monoscopic** mode.

Gamma ray

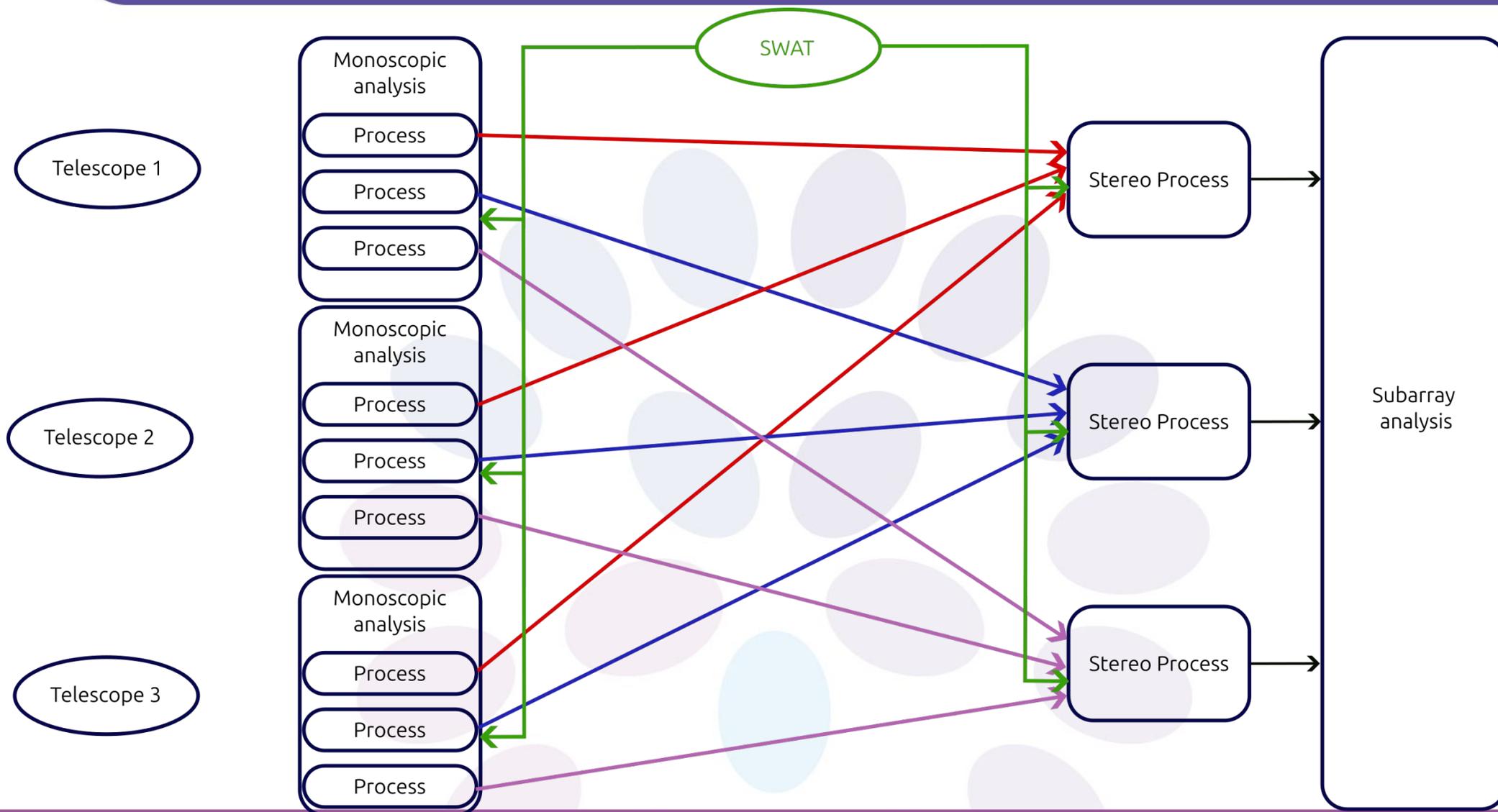
Current performances for **ONE** telescope:

- Input data : **~3 GB/s**
- Output data : **~20 kB/s**
- Current speed : **~0.75 GB/s/CPU**
- DL3 available in : **~50 secs**

Now, the analysis must be extended to **up to 60 telescopes**.

Key questions:

- What design should be adopted to maintain current **performance** with up to 60 telescopes?
 - How should we **aggregate** the data?
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What are the key results achieved to date and how have you made them available to the broader community?

- Mock design used to speed-up testing
- C++ socket management using ZMQ
- C++ daemons management
- StereoData daemon that aggregates events from multiple mocked telescopes

How will make your results sustainable over time - How will the scientific community/-ies further exploit them?

- Fully reproducible environments using Pixi
 - CI/CD best practices (Tests / Documentation / Releases)
 - Projects published on Zenodo
 - Specific backend technology choice abstracted
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