

Karabo Pipeline

The SKA Digital Twin

Swiss SKA Days 2022

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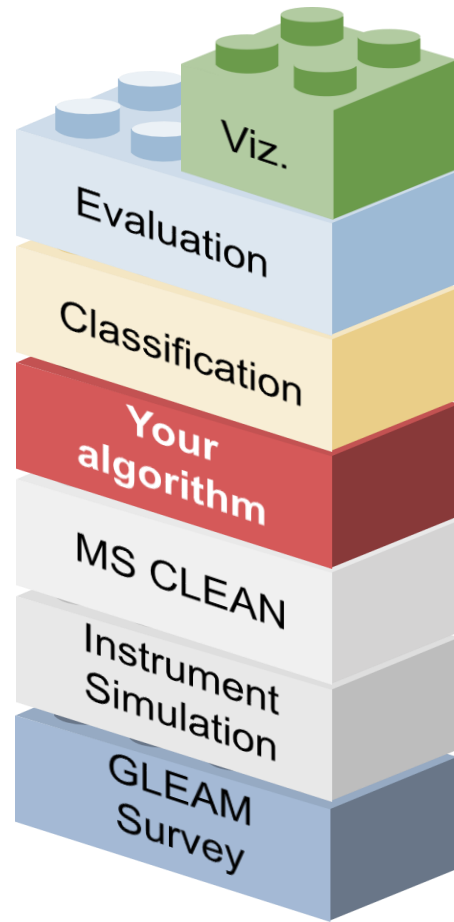
University of Applied Sciences and Arts Northwestern Switzerland
School of Engineering



SKA Original
First Light ~2027



SKA Digital Twin
Simulation of Sky, Instruments &
Analysis

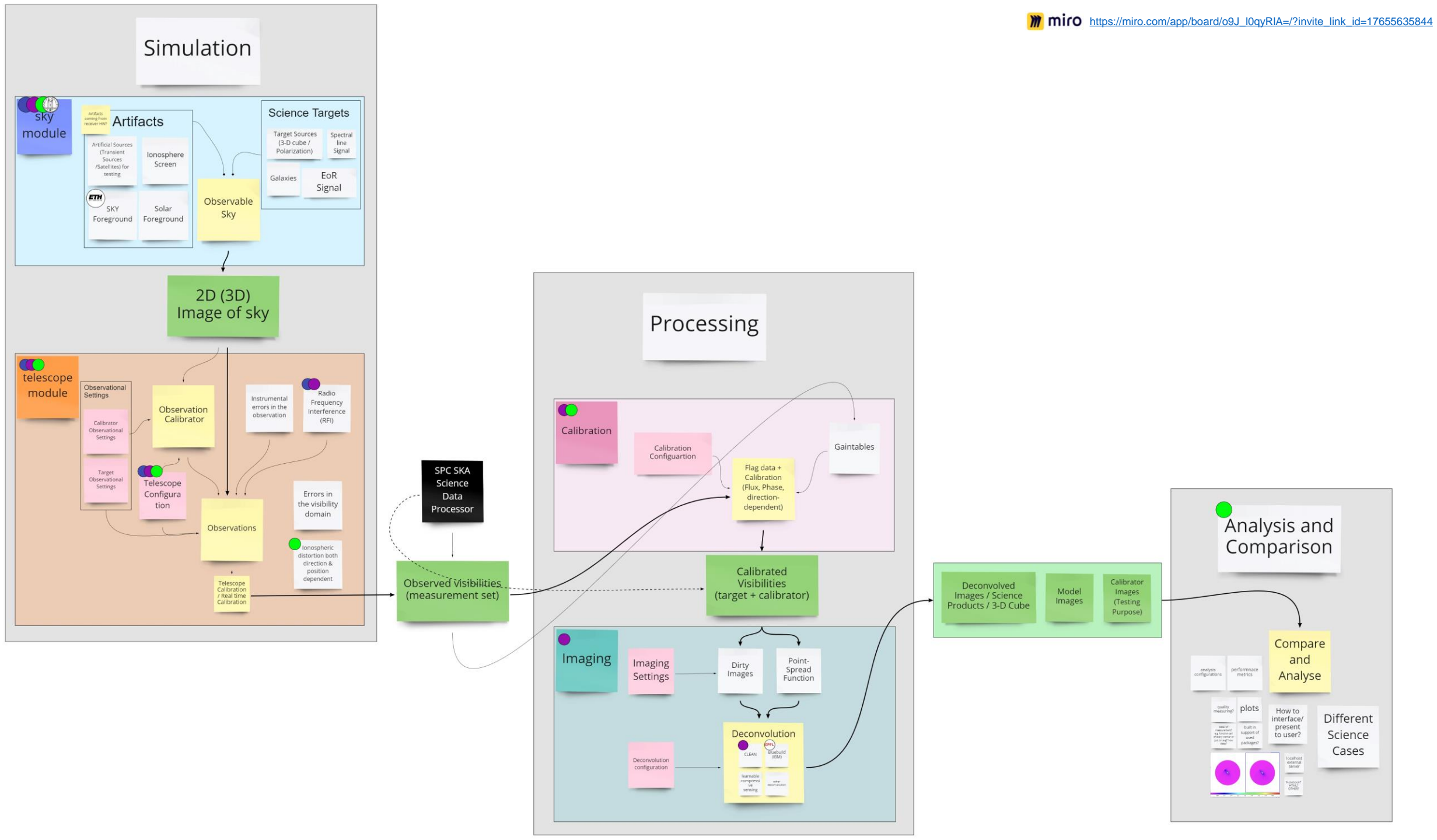


Fast and easy ramp-up.

Build **custom** pipelines with our building blocks.

Add your own blocks.





Runtime Environments



Locally
Jupyter Notebooks
...

Containers

HPC Environments

Roadmap

2022

- Reliable Installation and Operation
- Source Detection Workflows

2023

- More Workloads
- More Algorithms (“Bluebild”, “Innovative Imaging Algorithms”, ...)
- More Data Sets

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Installation

Local

```
conda install -c i4ds -c conda-  
forge karabo-pipeline
```

Docker Jupyter

```
docker pull ghcr.io/i4ds/karabo-  
pipeline:jupyter  
docker run -p 8888:8888 -v  
ska_pipeline_code:/home/jovyan/wo  
rk/persistent  
ghcr.io/i4ds/karabo-  
pipeline:jupyter
```

```
# run this at the top of your nb  
from karabo.util.jupyter import  
set_rascil_data_directory_env  
set_rascil_data_directory_env()
```

Docker CLI

```
docker pull ghcr.io/i4ds/karabo-  
pipeline:cli  
docker run -it  
ghcr.io/i4ds/karabo-pipeline:cli
```



<http://github.com/i4ds/>

[Karabo-Pipeline](#)

Code & Tech Doc.



<https://swiss-ska.fhnw.ch/index.php/s/bJWAfTYyoJg3AGx>

Files & Documentation



<https://swisska.slack.com/>

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