



WP6
Kick Off
resume

Alessia Tricomi
Francesco Visconti



Outline

What happened yesterday

Task 1 Software optimization and porting to hybrid architecture

Task 2 Space economy: mirror Copernicus evolution related issues

External use case Arpa Emilia Romagna: air quality forecasts

External use case ISPRA: water forecasts



Use case Uni Catania: remote sensing image analysis



MACRO TASKS

Software optimization

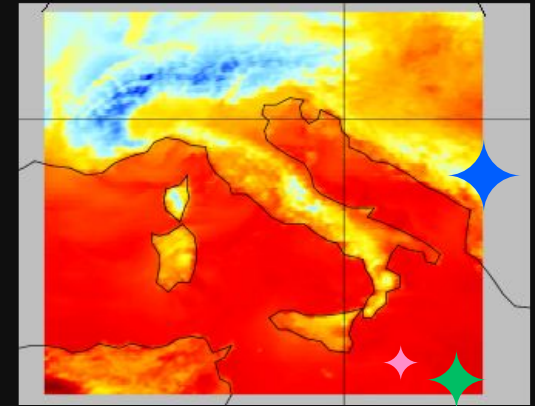
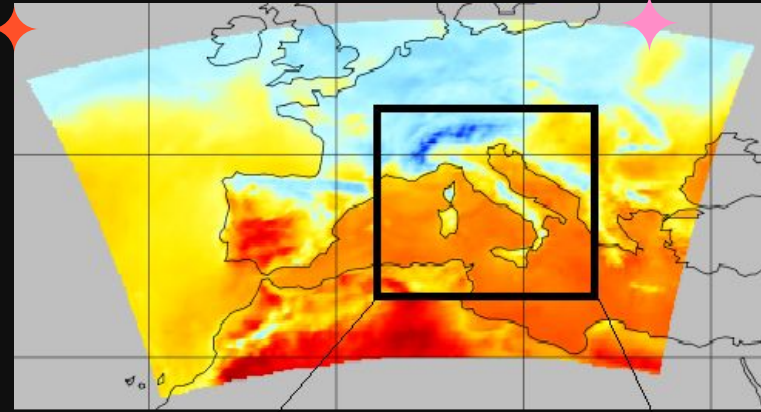
- Use case driven
- Cross domain software
- Specific domain software
- CPU vs Memory bound software

Space economy

- SaaS paradigm
- Interactive dashboards
- Exchange market in ask/bid fashion

Arpa EM

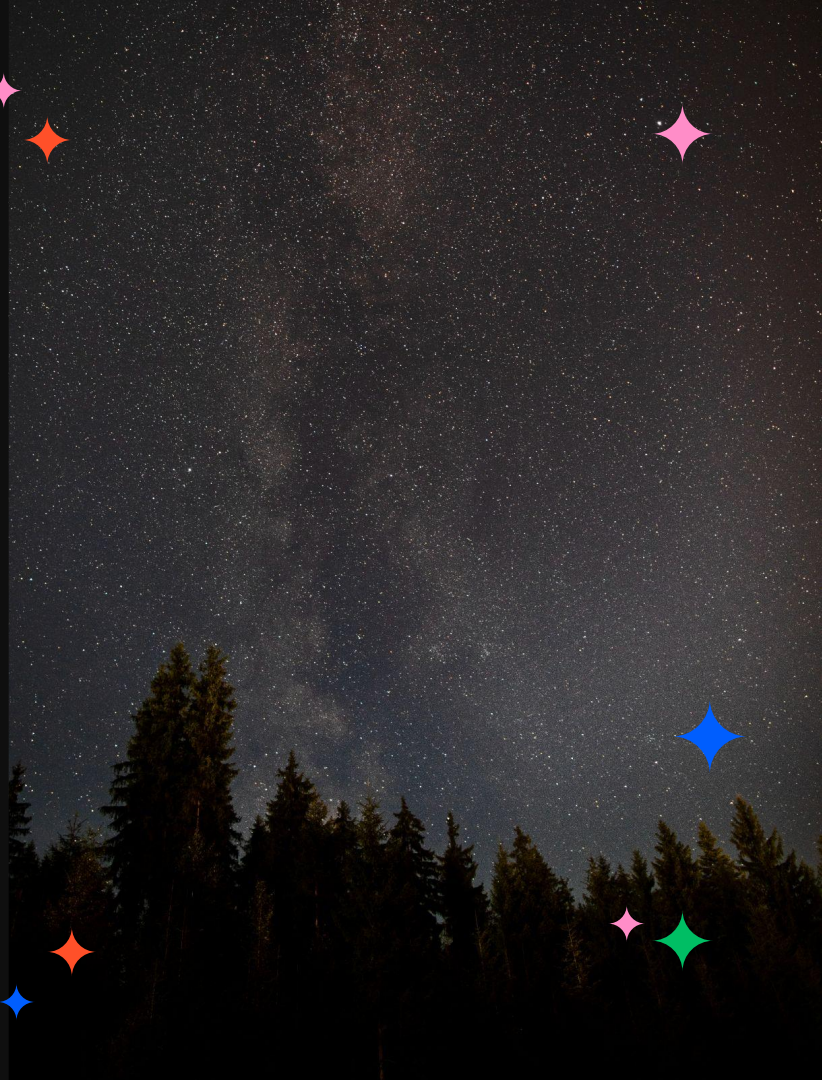
- Air quality models. Main need: computing and storage improvements. Refine simulation grid, enlarge simulation area
- Containerization for portability
- Reliability of services: h24, performances, monitoring
- Web portal for data download: dashboard and real time data elaboration





ISPRA

- Precipitation forecast models. Main need: computing and storage improvements. Refine simulation grid, enlarge simulation area
- Reliability of services: h24, performances, monitoring
- Porting to hybrid architectures and containerization





We need to:

- Map competences
- Select methods for software porting (frameworks, architectures)
- Select flagship use cases