



ONE WATER  
VISION

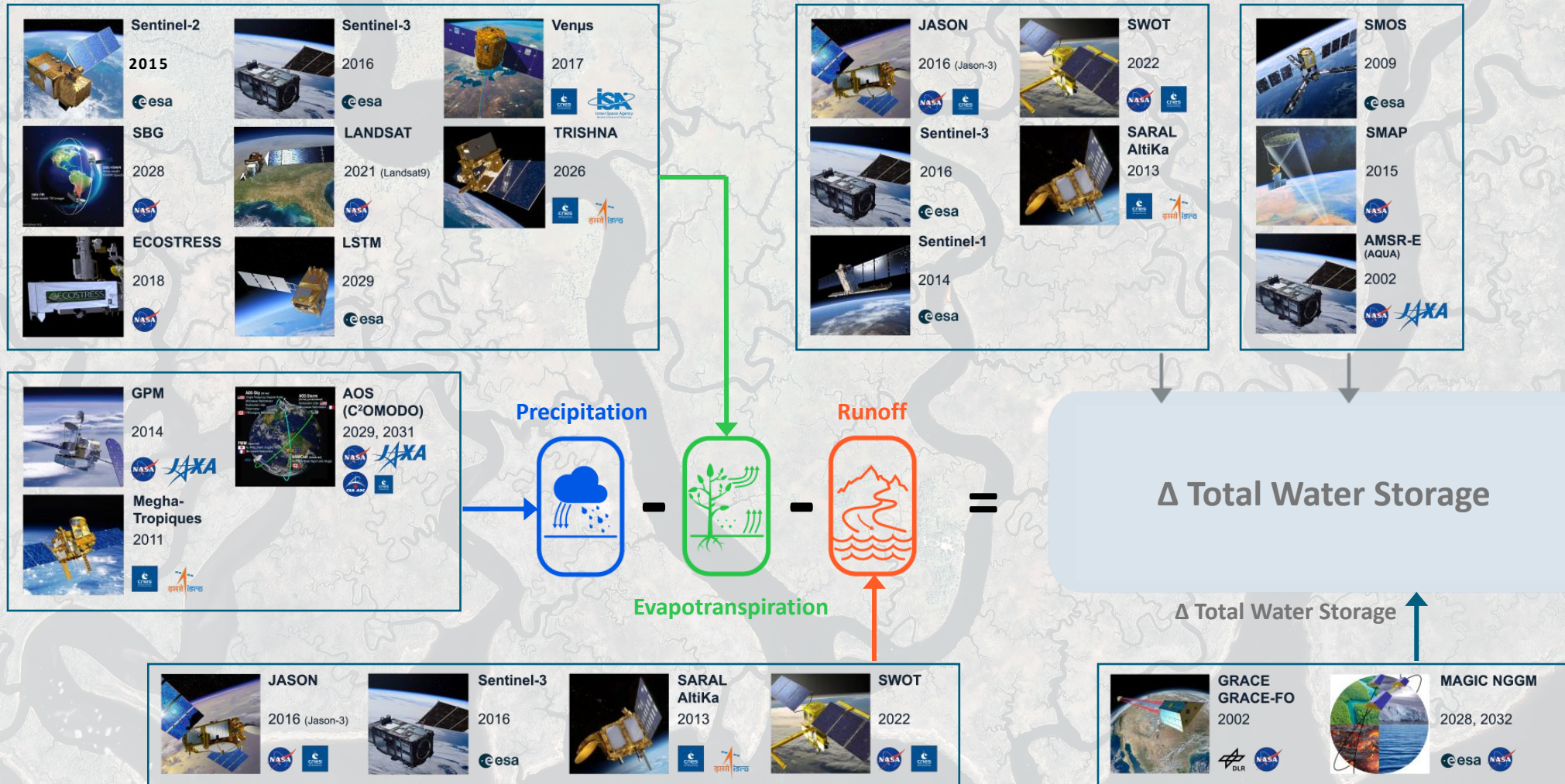


MINISTÈRE  
DE L'ENSEIGNEMENT SUPÉRIEUR  
ET DE LA RECHERCHE

# One Water Vision



# HYDROLOGY FROM SPACE







- Born from the **One Water Summit** (December 2024)

The One Water Summit was held in December 2024 in Riyadh, alongside the 16th session of the UN Convention to Combat Desertification (COP16).

- **Initiated by 6 French organizations**, including INRAE (Secretariat) and CNES (as national coordinator), supported by **partners** (INBO and WMO), and an **international scientific research consortium** (~20 organizations): space agencies, research institutes, universities...

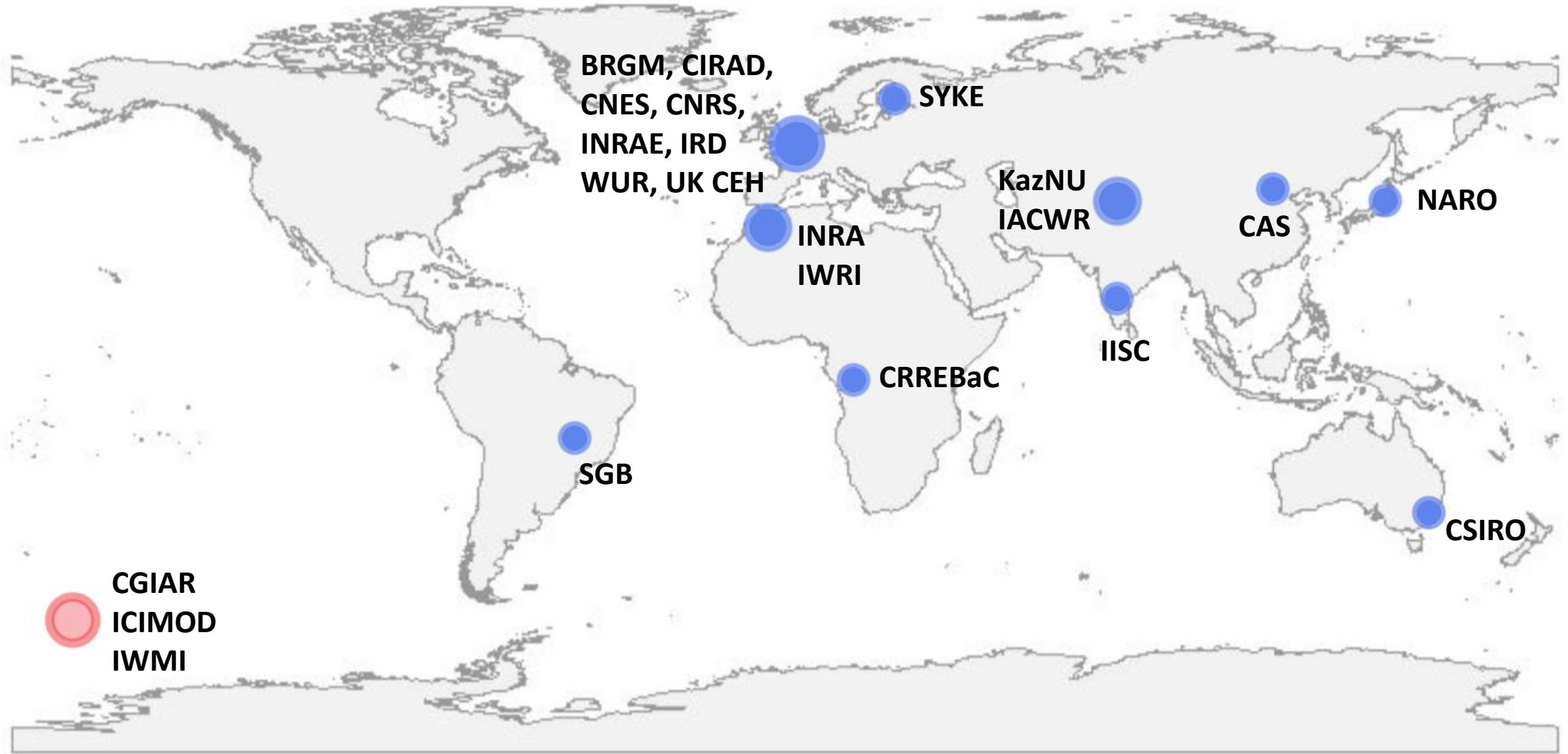
- Integrate satellite observation into water governance
- Complement in-situ data



- **Objective:**

- Using satellite data for integrated and resilient water management, combining space observations and in-situ measurements at all scales: from the local watershed to the global view of the water cycle.
- Develop services to address the water crisis and bring together scientific solutions leveraging satellite data to respond effectively

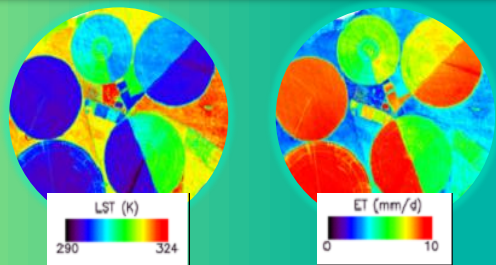
# One Water Vision - Organizations of the Scientific Consortium (IRC)



# BILATERAL PROGRAMS AND INNOVATION



Ground surface temperature  
and daily evapotranspiration



Launch scheduled in 2026-27

Bilateral programs  
devoted to water

Land, Coastal, Ocean  
Water

Satellite precursors  
LSTM, S3-NG TOPO  
Downstream Programs



First global survey of Earth's  
surface waters



Launched Dec 16, 2022

## INRAE: From Data to Decision

- Monitoring **soil moisture** and **canopy water content** using both satellite and in-situ observations.
- Improving **model calibration and validation** with ground data — enhancing the accuracy of missions like TRISHNA.
- Working across **data-rich and data-scarce basins**, from local catchments to large territories.
- Developing **digital twins** of river basins, combining field and satellite information to support decision-making
- Within **One Water Vision**, these methods are applied by partners worldwide to strengthen integrated and cooperative water management.

## Conclusion

### Contact:



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# INRAE



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