



JUNON

A tailored solution of environmental digital twins to better understand natural resources and the impact of human activities in Centre-Val de Loire



WHAT IS A DIGITAL TWIN?

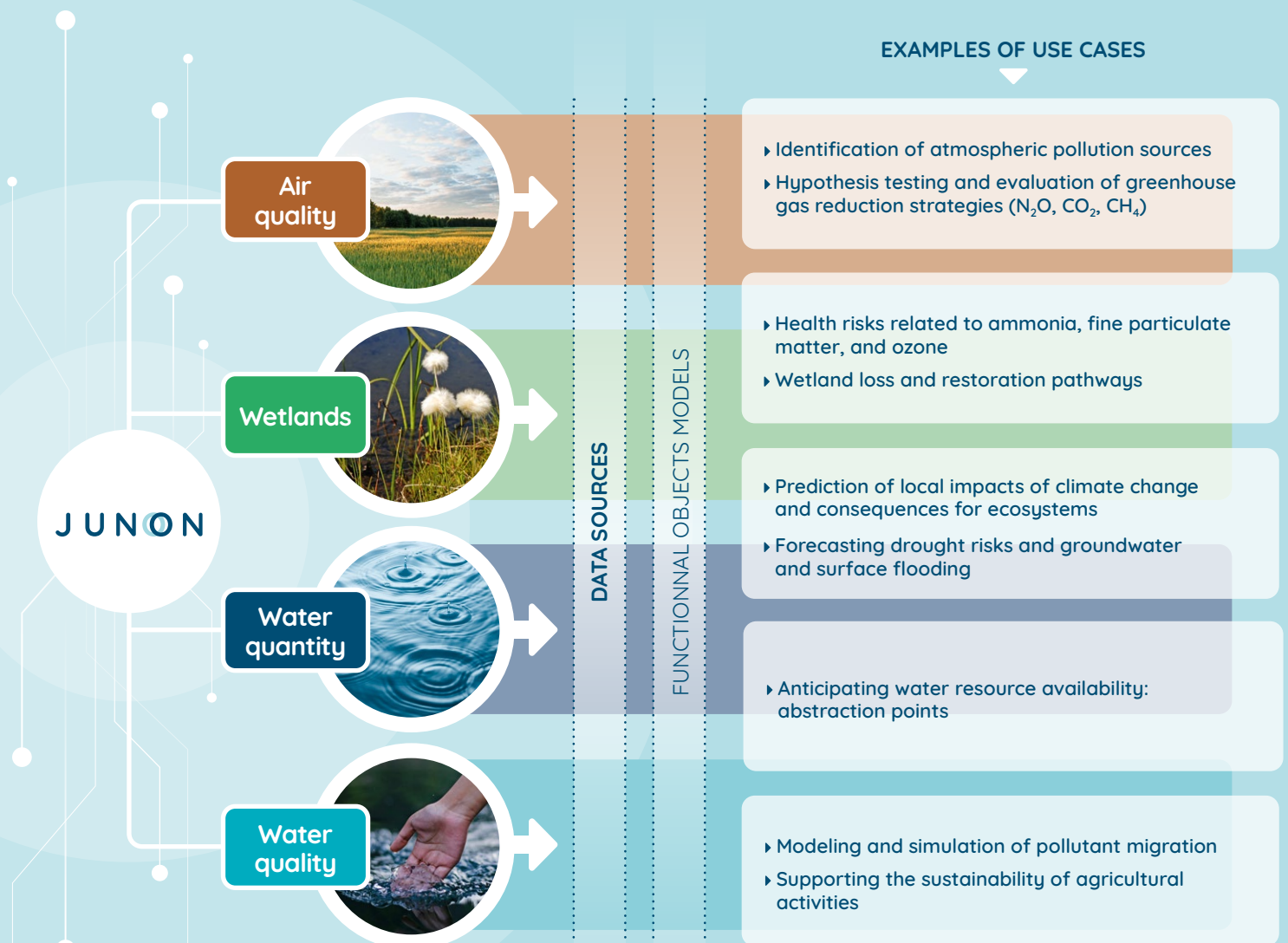
- ▶ Virtual representations of the region powered by real-time data
- ▶ Use of domain-specific, neural (AI), or hybrid models
- ▶ Monitoring and anticipating environmental changes: water, soil, air



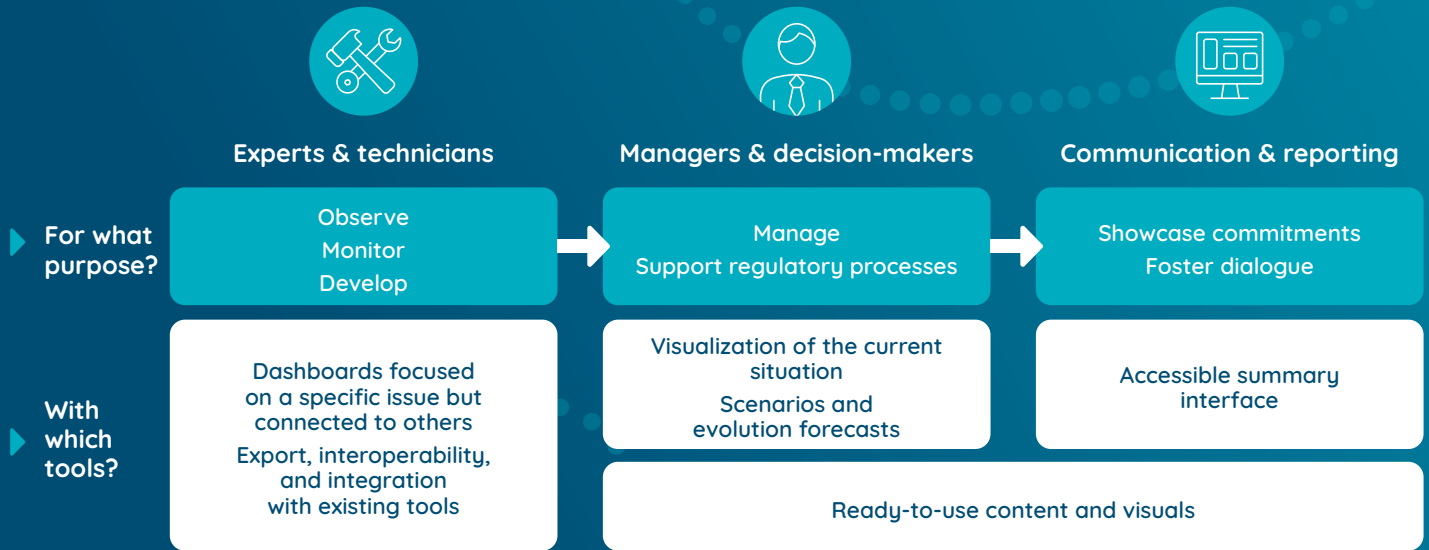
FOR YOU TOMORROW, A TAILORED SUPPORT

Provided by specialists in natural environments and digital technologies, to:

- ▶ build new environmental digital twins in other regions
- ▶ develop specific applications
- ▶ integrate JUNON into existing professional tools



Who is JUNON for?



How is JUNON deployed?

- 1 Initial contact**
 - ▶ **Identification of challenges:**
 - Management of agricultural activities
 - Protection of people and property
 - Regional planning
 - etc.
 - ▶ **Clarification of objectives:**
 - planning & investments, regulatory compliance, communication, etc.
- 2 Definition of needs and use cases**
 - ▶ **Selection** of environmental parameters to monitor;
 - ▶ **Definition** of indicators, scenarios, and expected outputs.
- 3 Platform configuration and calibration**
 - ▶ **Model setup and data flow configuration** (public and/or private);
 - ▶ **Integration** with existing tools;
 - ▶ **Creation** of dashboards tailored to user profiles.
- 4 Delivery, training, and follow-up**
 - ▶ **Deployment** of the tool;
 - ▶ **User training** adapted to specific applications;
 - ▶ **Scientific monitoring** and model updates over time.

the added value of JUNON

Scientific credibility:
cutting-edge research
(BRGM, CNRS, INRAE, universities, etc.)

Operational focus:
expert companies
& professional use cases

Integrated vision:
air, soil & water interactions

Frugal AI:
high-performance
& responsible



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