





Addressing heat and water stress through data-driven adaptation in the Occitanie Region (France)

The Challenge

Occitanie faces increasing climate pressures across both urban and rural areas:

-  Intensifying heatwaves and urban heat island effects
-  Growing drought and water scarcity
-  Impacts on agriculture and crop productivity
-  Rising health risks in densely populated urban areas



Location of the Occitanie Region, France

Local authorities needed integrated insights to manage both urban heat and agricultural water stress.

The VALORADA approach

With VALORADA, Occitanie:

- ✓ Identified key risks through Climate Impact Chains (heat & drought impacts)
- ✓ Co-designed indicators with regional and local stakeholders
- ✓ Integrated climate, EO and local datasets
- ✓ Developed dashboards for urban and agricultural decision-making

The focus: from complex, multi-sector data → to actionable adaptation insights

What Changed?

Two main areas are now monitored through VALORADA tools:



Agriculture & water management

- Crop water needs (current and future scenarios)
- Irrigation rates and agricultural land use
- Impact of climate variability on productivity



Urban heat & population vulnerability

- Exposure to heatwaves
- Access to cooling areas and green spaces
- Urban vegetation and wellbeing indicators



All integrated into dashboards, enabling:

- 🔍 Better understanding of climate impacts across territories
- 📊 Anticipation of future water and heat risks
- 🎯 More targeted adaptation strategies



Why it matters ?

Occitanie shows how:

- Climate risks can be tackled across multiple sectors simultaneously
- Data integration supports both rural and urban adaptation
- Dashboards turn complex information into operational planning tools

This approach strengthens resilience while supporting evidence-based regional policies.

Want the full story ?

[Discover how Occitanie is using VALORADA to address climate risks.](#)

➡ [LINK TO THE FULL CHAMPION STORY HERE](#) ⬅

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 <https://www.valorada-project.eu>

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