

Making Czech cities more resilient to heat, drought and flooding

The Challenge

Přerov and Mladá Boleslav face growing urban climate risks:

- 🔥 Increasing heatwaves and urban heat island effects
- 🌧️ More intense rainfall and flash floods
- 💧 Drought affecting urban ecosystems and surrounding areas
- 🌳 Pressure on green spaces and ecosystem services

Cities needed better tools to understand and manage climate risks in complex urban environments.



Location of the statutory cities of Mladá Boleslav & Přerov, Czech Republic

The VALORADA approach

With VALORADA, both cities:

- ✓ Identified key risks through Climate Impact Chains (heat, drought, floods)
- ✓ Co-designed urban climate indicators with local stakeholders
- ✓ Integrated climate, EO and municipal data
- ✓ Developed dashboards to support urban planning and adaptation

The focus: from fragmented urban data → to decision-ready insights

What Changed?

Cities now monitor key indicators across three main areas:

Urban heat & health

Heatwaves, tropical nights, surface temperature hotspots
Cooling capacity (green spaces, shading)

Urban ecosystems

Vegetation health (NDVI), tree cover, drought stress
Green space accessibility and functionality

Flood & rainfall risks

Extreme precipitation and runoff potential
Exposure of people, infrastructure and transport

All combined into VALORADA dashboards, enabling:

- 🔍 Identification of vulnerable areas
- 🌱 Prioritisation of nature-based solutions
- 🚧 Better planning of infrastructure and public spaces



Why it matters ?

These cities show how:

- Urban climate risks can be clearly mapped and monitored
- EO + local data supports practical city planning
- Shared indicators improve coordination across departments

The approach helps cities move from analysis to concrete adaptation actions – especially for heat mitigation and flood risk management.

Want the full story ?

[Discover how Czech cities are using VALORADA to plan climate-resilient urban environments.](#)

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

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

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