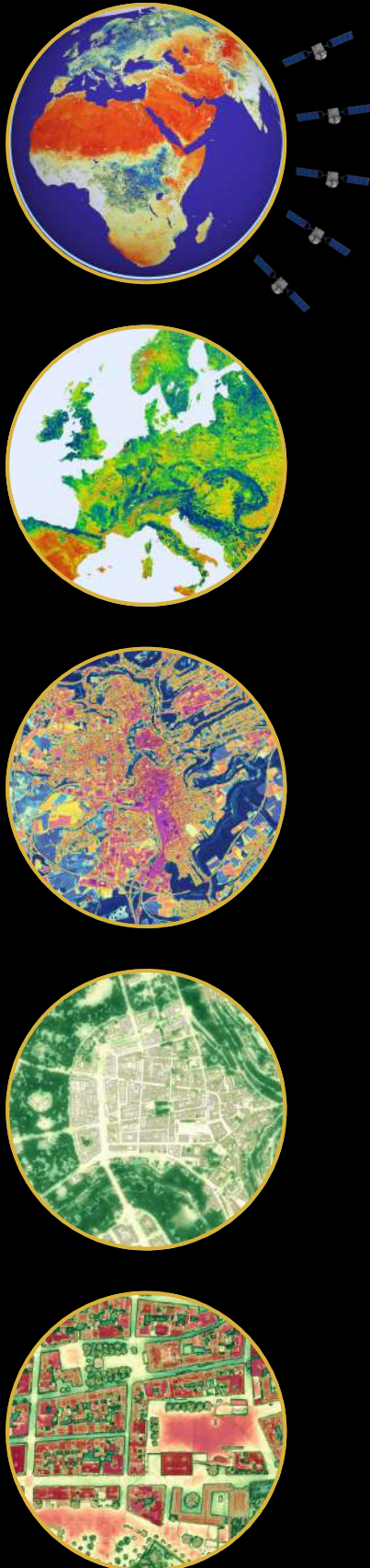


TERRA ATMOS

From Static Observation to Dynamic Understanding

Continuous & Scalable Monitoring



Resolution
0.5 m

Terra Atmos is a deep-tech company developing a digital twin of the land surface that captures the complex interactions between soil, surface, and atmosphere. Using a scientific model that combines satellite and weather data, we create a precise and dynamic representation of current land-atmosphere processes, including their drivers, feedbacks and impacts, from global to urban scales, with a spatial resolution of up to 0.5 metres.

Satellite Data Software Solution Weather Data



Our mission is to deliver continuous, scalable, and high-resolution climate and environmental monitoring, empowering data-driven and scenario-based decisions that drive sustainable development and global resilience.




We provide continuous monitoring and standardised, actionable insights into climate and environmental-relevant indicators, including:

- > Vegetation cover and urban greenery
- > Surface sealing and surface runoff-effective areas
- > Energy fluxes - latent, sensible, and substrate heat flux
- > Surface thermal characteristics and dynamics
- > Surface induced cooling and warming effects
- > Land surface temperature
- > Evapotranspiration
- > Human thermal stress - Universal Thermal Climate Index (UTCI)
- > Drought and vegetation stress
- > Urban overheating

By leveraging space-based technologies and scientific modelling, we aim to deepen humanity's understanding of our planet's dynamic systems and foster a future where space innovation serves life on Earth and beyond.

Contact Us



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In Cooperation



Terra Atmos is a deep-tech spin-off from the University of Innsbruck.