

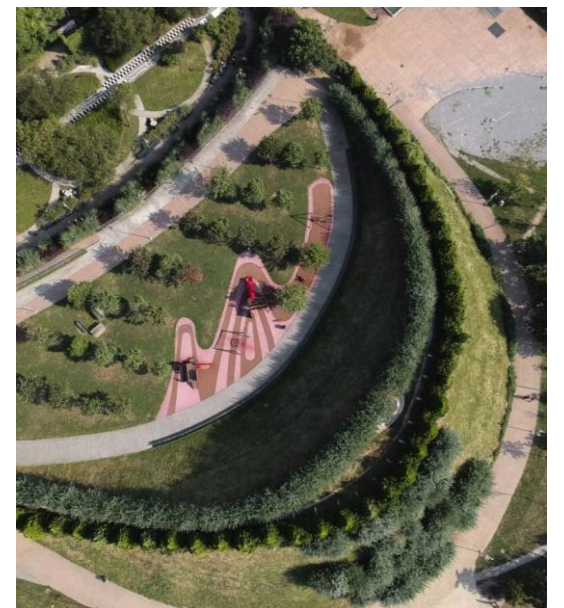
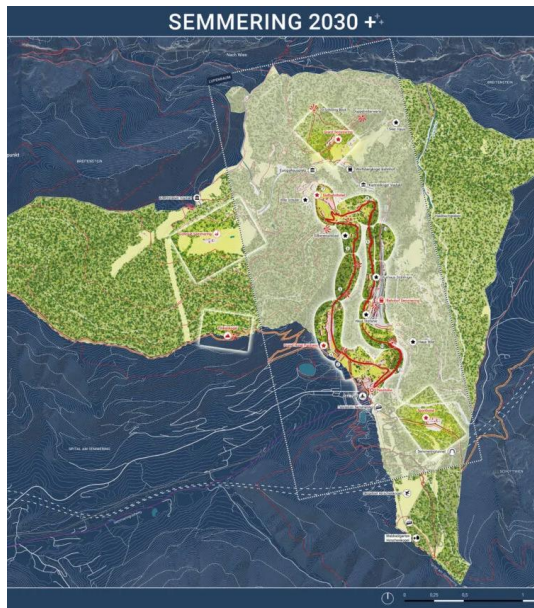
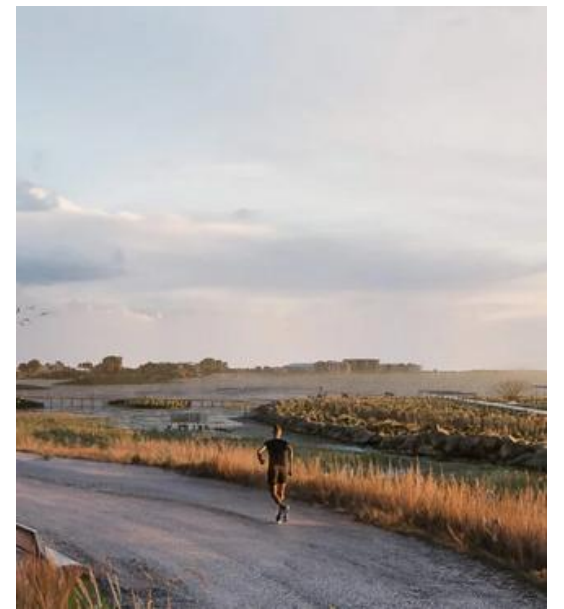
LAND

LANDSCAPE ARCHITECTURE NATURE DEVELOPMENT

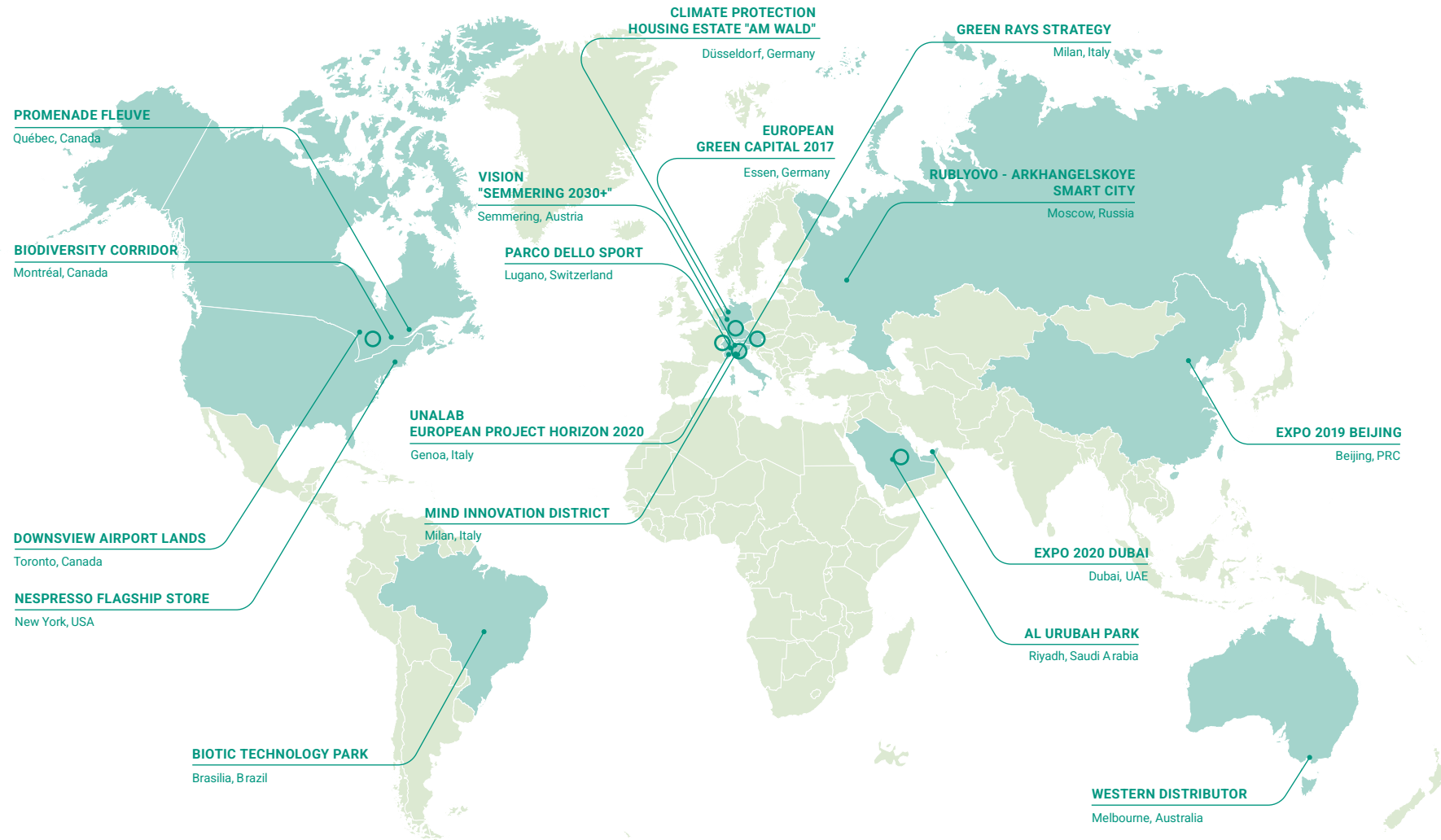
nAltire landscape modelling

LAND Top-player for Business Meets Innovation

October 21st 2025, Turin



Creating liveable places all around us



OFFICES

- Düsseldorf (DE)
- Lugano (CH)
- Milan (IT)
- Riyadh (KSA)
- Toronto (CA)
- Vienna (AT)

• SELECTED PROJECTS

LANDSCAPE
We work at every scale

NATURE
We cultivate resilience

LAND

ARCHITECTURE
We create space for people

DEVELOPMENT
We strive for a sustainable development

Sustainability is an opportunity
for Business & Innovation

Business&Innovation dependency on Nature

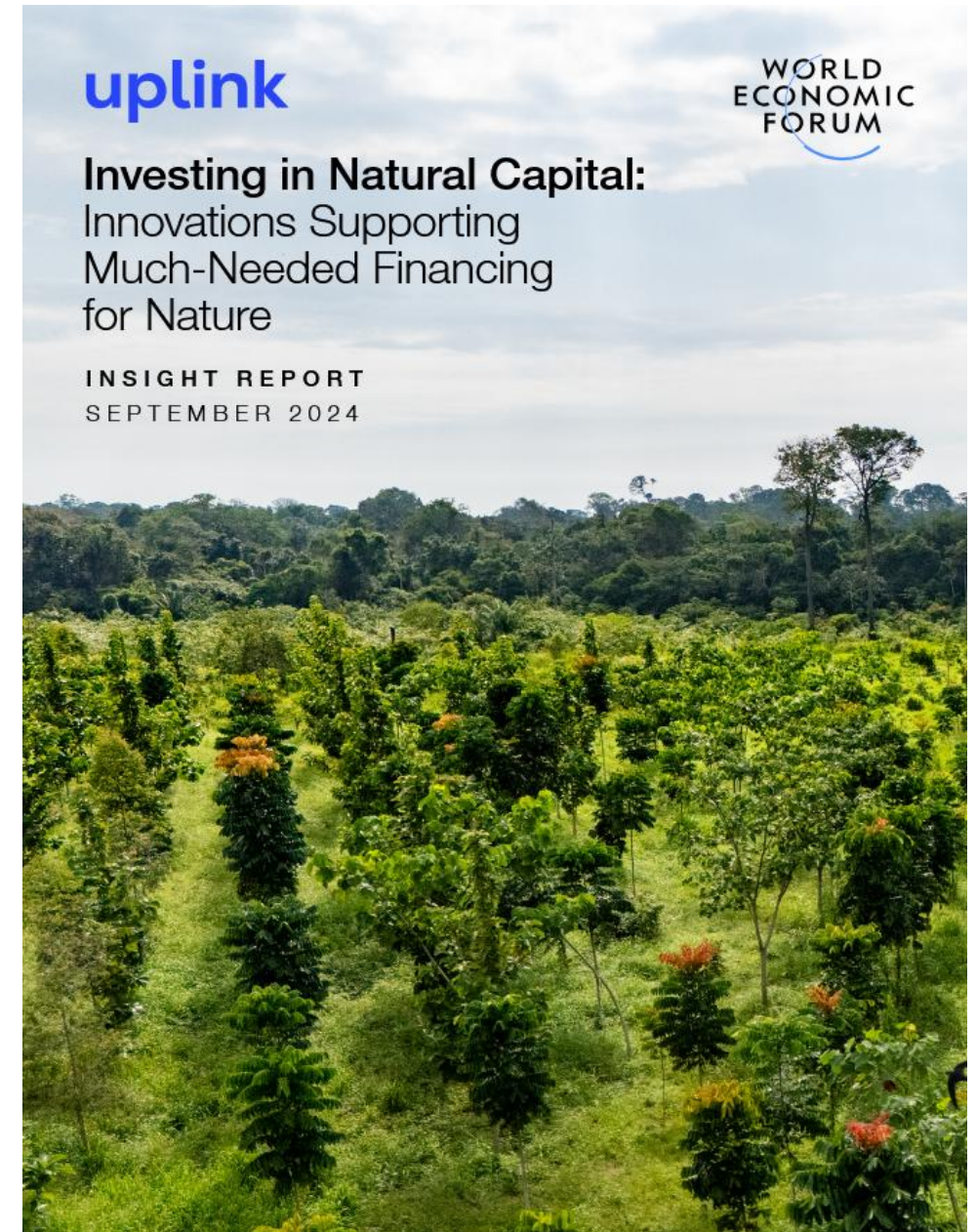
JRC 140003



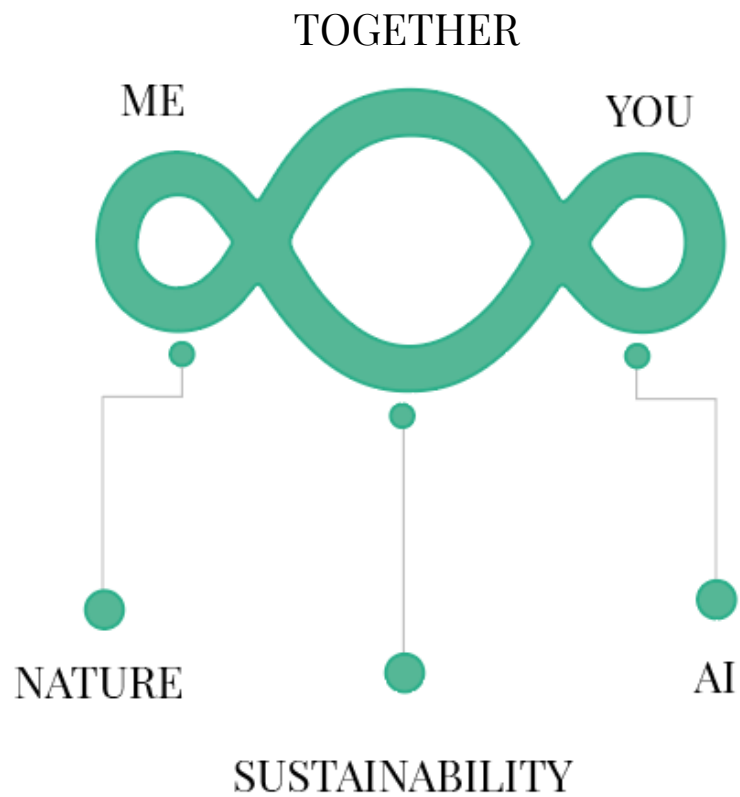
The EU economy's dependency on nature

[Science Policy brief JRC 2024](#)

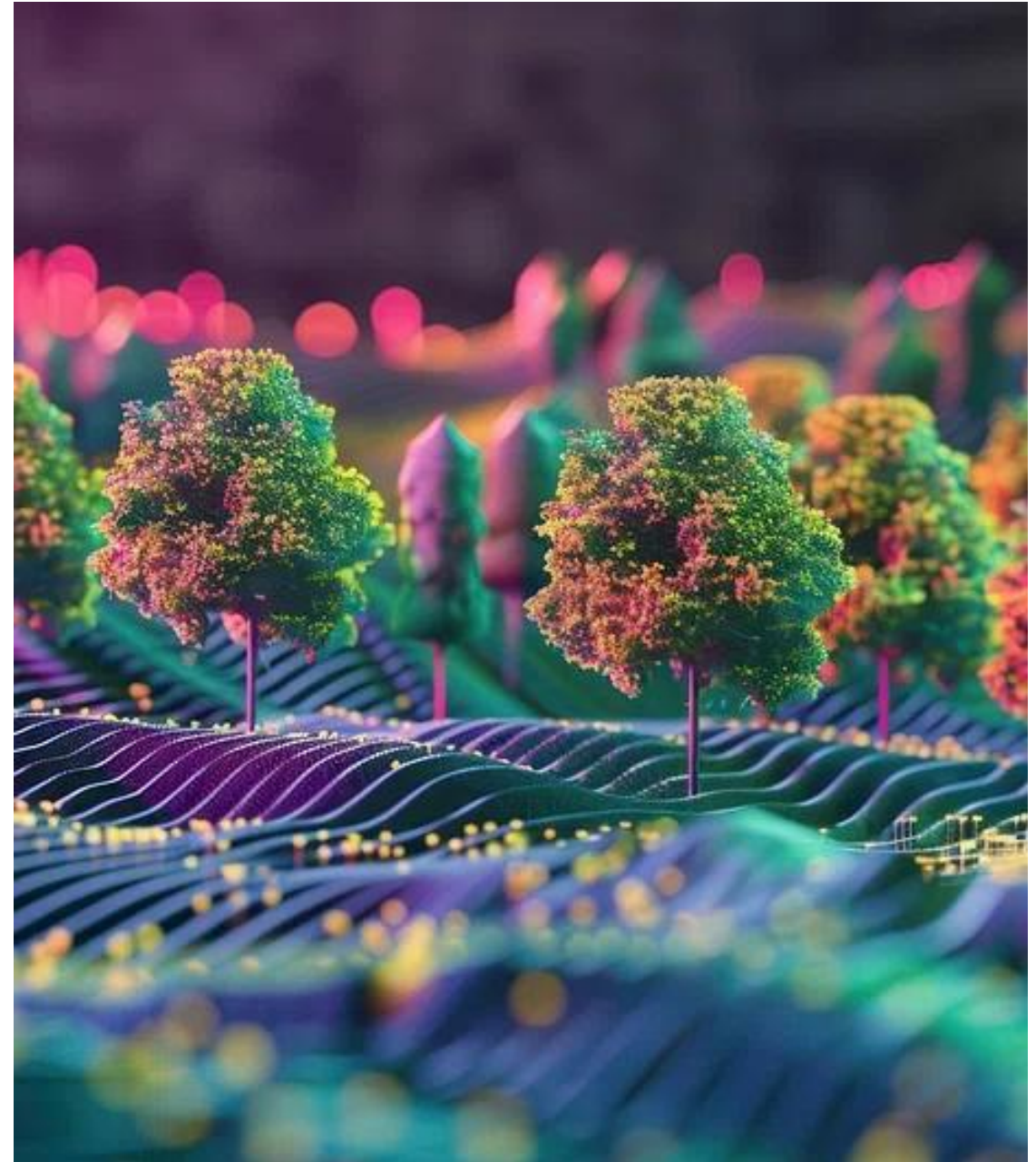
[WEF Investing in Natural Capital 2024](#)



Nature & AI for Sustainability



Il terzo paradiso – Michelangelo Pistoletto



Nature is an evolving system

BEFORE



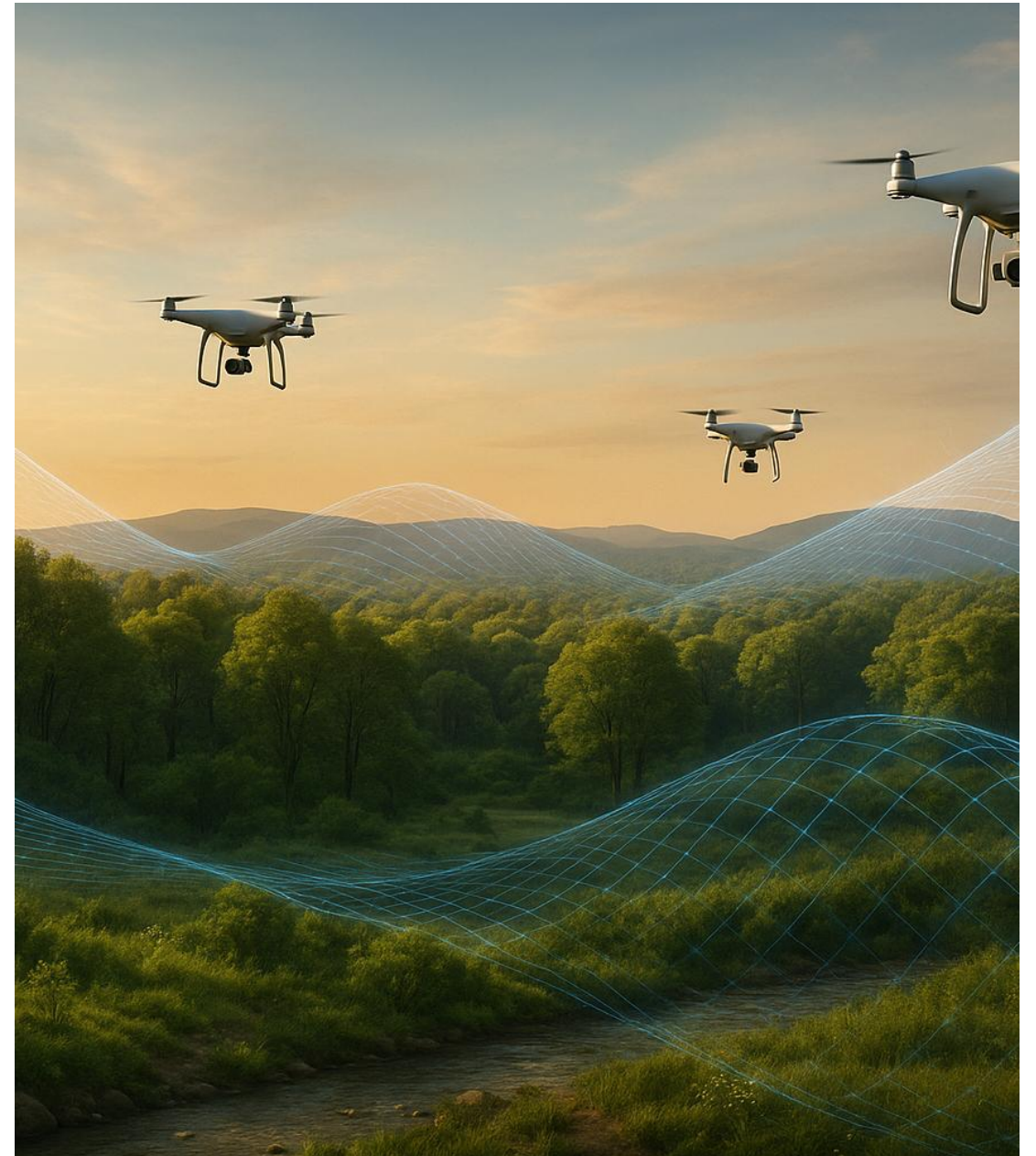
AFTER



LAND CHALLENGE

NAltire landscape modelling

- Improve LAND's Natural Capital quantification model by transforming it into an advanced digital model that integrates **AI and real-time remote-sensing environmental monitoring**.
- **Analysing tree performance** (using remote sensing data) to monitor: water stress, health status, attractiveness to pollinators of trees with **KPIs**



LAND CHALLENGE in details

Input Data

- **3D model** of Landscape project in BIM
- **Tree count** and classification in vegetation species
- **Environmental KPIs** according to tree growth (0-15-30 years) in CSV

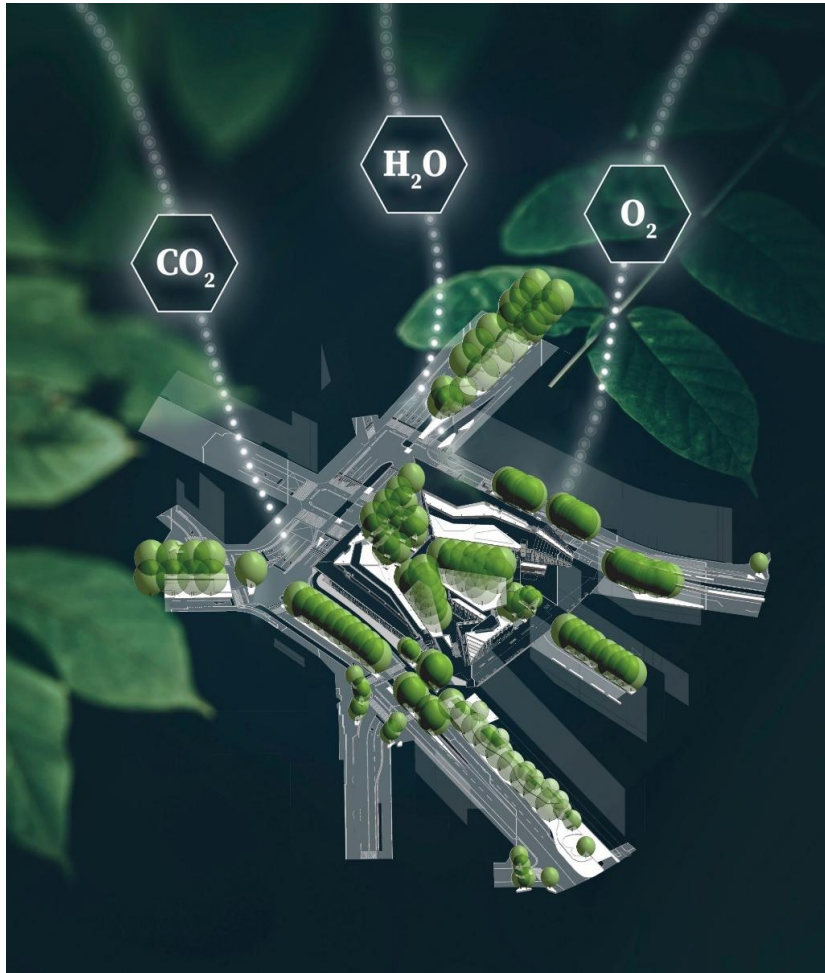
New Input Data

- **Thermal and water stress** resistance of the tree by growth stages (0-15-30 years)
- **Tree health** based on canopy analysis
- **Attractiveness to pollinators** by growth stages (0-15-30 years)

Forecast output

- Expansion of **tree patterns KPIs**
- Landscape 3D models integrated with **Dashboards**
- NAltire landscape modeling assistance in **landscape design phases**

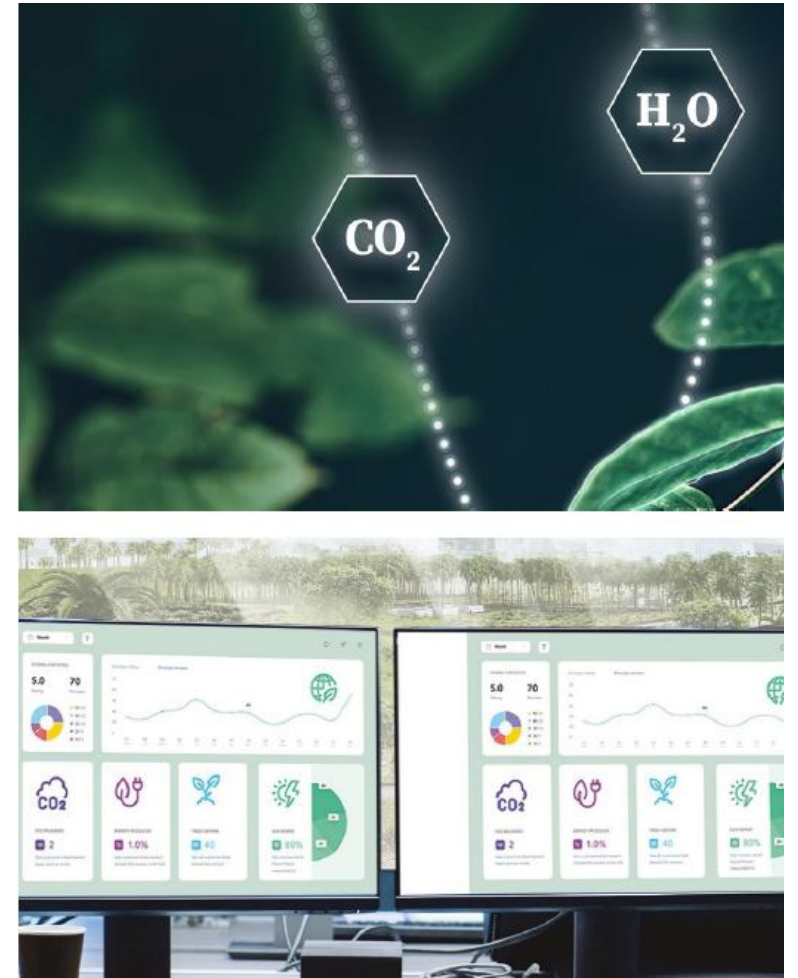
FROM LIM MODEL



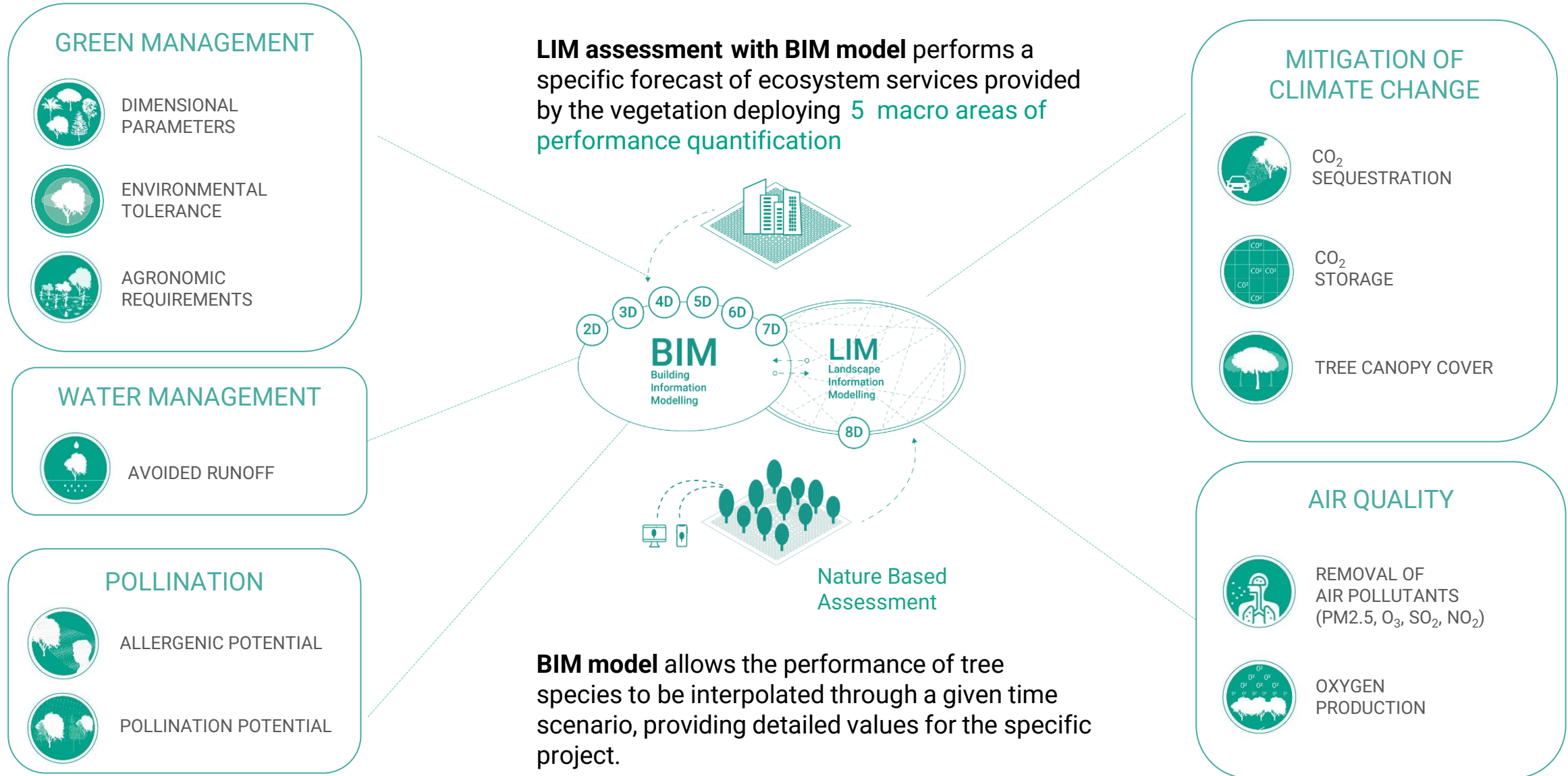
TO OBJECT DETECTION and KPIs WITH AI

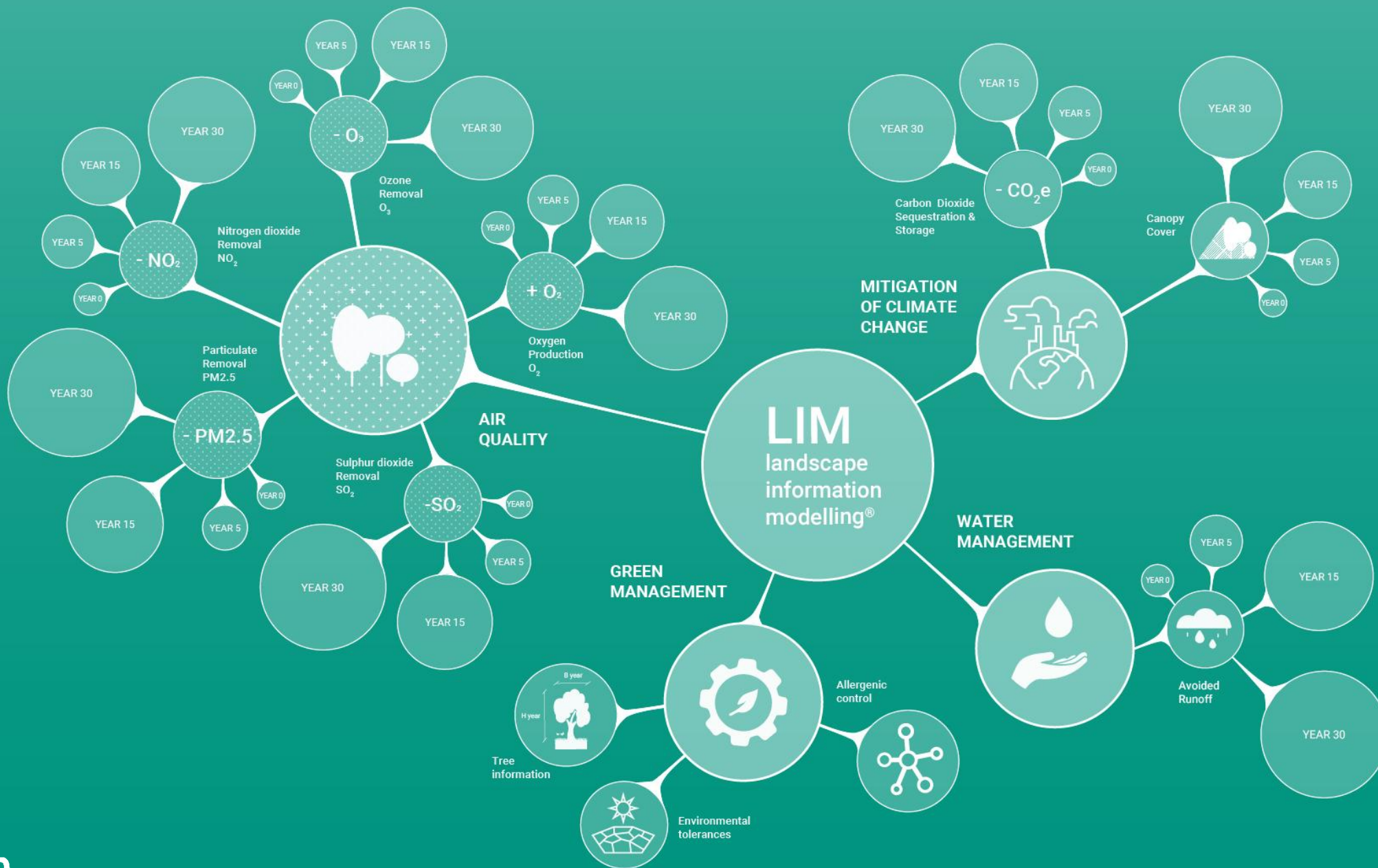


TOWARDS NAltitude landscape modelling PROTOTYPE



LAND Starting point

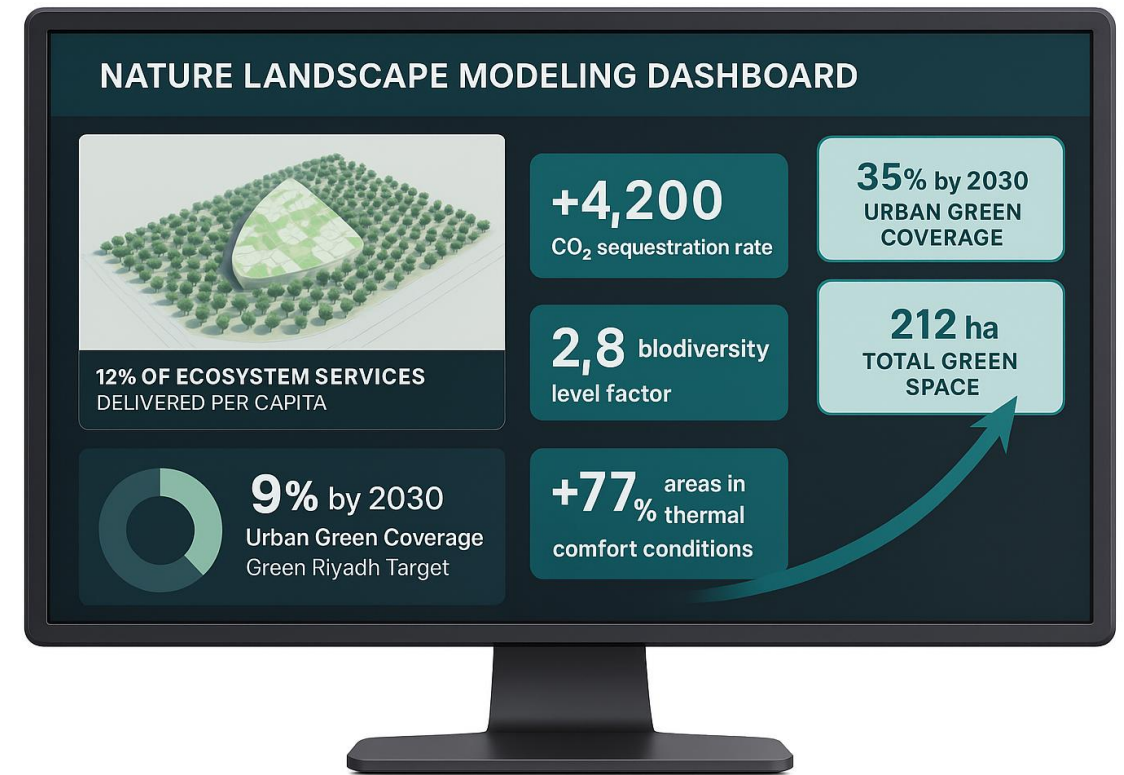




Why accept our challenge?

HELP LAND R&D TEAM FOR

- **Smoothing modelling processes** among GIS, BIM and LIM excel files
- **Updating tree KPIs** with new indicators based on changing climatic and environmental conditions with Deep and machine learning
- **Setting User-friendly interface** Dashboards for use by LAND designers
- **Gaming model** for external users/project users



From **LIM** to predictive Ecosystem dashboard with AI

Innovating with us makes the difference

MUNICIPALITIES

Supporting municipal technicians in monitoring their green assets for maintenance and expense assessment

PRIVATE SECTOR

Tracking sustainability accounting and regulatory compliance with Nature KPIs

Corporate reputation and attractiveness with landscape project based on Nature's value

PUBBLICO-PRIVATO PARTNERSHIP

NBS business* implementation that generate long-term impact and unlock new market opportunities and business chain

**NBS business estimates over \$300 billion/year by 2030, World Economic Forum, 2022*



Benefits of matchmaking with LAND

- **Technological acceleration** in Landscape ed Ecological Planning
- **Outreach of new business models** to be scaled in green finance (es. KPIs for Carbon Credits and Biodiversity credits)
- **Cultural and Scientific Impacts** generating reliable data to support investments and foundings
- **Replicability and scalability** of models in European Co-funded project with European Co-funded tenders



An aerial photograph of a city at dusk, featuring a large, modern building with a distinctive, elongated, and segmented roof structure. The city is illuminated by streetlights and building lights, with a colorful sunset sky in the background. A complex, glowing blue digital network of lines and nodes is overlaid on the image, particularly concentrated on the right side and extending across the foreground. The text "NAIture landscape modelling" is centered in the middle of the image in a white, sans-serif font.

NAIture landscape modelling

What's Next?

LANDscape is life.

Creating liveable places all around us.

We live LANDscape in an all-encompassing way. As pioneers of sustainable transformation, we design productive living environments. Our holistic consulting approach is based on the dialectic between nature and culture, enabling us to develop landscape as a capital for future generations. Combining our expertise and lively lightness, we resolutely defy previous paradigms and boldly break new ground. We cultivate a spirit of innovation and diversity as the source of our strength. Throughout our dynamic LAND community, we promote collective learning as a central element of our growth. We share a deep enthusiasm for liveable LANDscapes, which drives us to find new solutions to global challenges.

Reconnecting People with Nature

Our projects always start with a story

Exploring

Curiosity drives us to uncover new possibilities, open new perspectives, and explore novel approaches. We embrace the unforeseen, turning it into opportunities for our clients and partners.

Collaborating

People are the core of our business. We share their passion for sustainable landscapes, empower them to thrive in our projects, and build bridges to new markets.

Cultivating

The LAND community stands for ethical and sustainable values. Living, working and learning together gives us the power to grow and to act with urgency for a better future and a measurable impact.

Landscape

We work at every scale

Architecture

We create space for people

Nature

We cultivate resilience

Development

We strive for sustainable development

LAND

Stay (re)connected

landsrl.com



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