ENGINEERING
INFOGRAPHICS

How the digital revolution is empowering Climate Action

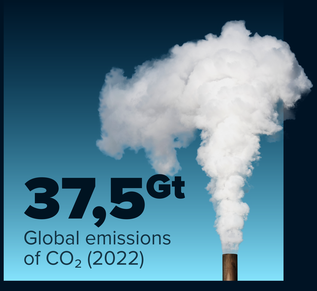
Technology Helps People and Territories Build a More Sustainable Future

Climate change is a global risk with significant impacts on our lives and the environment around us.

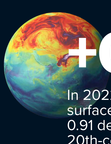
Digital transformation, **driven by NRRP funds** as well, plays a key role in mitigating its effects, **supporting adaptation processes**, and **promoting sustainable models** of **production and consumption**.

RESPONSIBLE PRODUCTIVITY
CIRCULAR ECOSYSTEM
COMPOSABLE BUSINESS MODELS
AI DRIVEN VALUE • HUMAN HEALTH

FACTS



37,5Gt
Global emissions of CO_2 (2022)



+0,91°C
In 2022 the global land and ocean surface temperature anomaly was 0.91 degrees Celsius above the 20th-century average

450 Bln Dollars
New investment in renewable energy worldwide (2022)

DATA SOURCE STATISTA

Revolutionize our lifestyle and work
IT'S**WITHIN**REACH!

04
SMART AGRICULTURE
A new production balance
The analysis of Big Data, the use of satellite imagery and sensors are revolutionizing the field of Precision Agriculture, streamlining processes and ensuring the right balance between productivity and environmental protection.

03
WATER MANAGEMENT
Stopping Waste
Cutting-edge technologies support the decision-making of businesses, organizations, and institutions. They enable real-time data acquisition and sharing, optimize water-related activities, generate maps of potential leaks or issues, allowing for timely interventions to prevent waste.

05
INTELLIGENT MOBILITY
To reduce pollution
Integrated solutions, based on Cloud technologies, RFID, and IoT for Smart Mobility projects. Smart Parking, City Logistics, MaaS integrator, and bike sharing: enable the reduction of traffic, and consequently, greenhouse gas emissions, air, and noise pollution.

02
DIGITAL WASTE
Reduce, Reuse, Recycle
IoT technologies for waste collection, transportation, and disposal management enable the development of predictive models, improve environmental standards, enhance the livability of the area, optimize overall waste management, promote reuse, and reduce costs.

04
IOT & ADVANCED ANALYTICS
Tech innovations for monitoring and safeguarding the environment
IoT & Advanced Analytics technologies – Earth Observation - enable timely monitoring and management of potential changes in the environment (deforestation, coastal erosion, urbanization, soil sealing, desertification), extreme weather and environmental events, and water resource management.

06
SMART BUILDINGS
Reducing CO_2 emissions
Algorithms powered by historical data and weather information allow for predictions on building energy needs and temperature regulation. Utility service management platforms enable the acquisition of heating and hot water demands or the management of pre-heating and pre-shutdown of systems based on temperature variations. This results in a reduction of CO2 emissions.

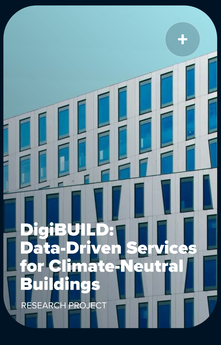
Discover More

Climate Change: Technology Serving Territories
PODCAST

Green Revolution: Where Are We Now?
PODCAST

Cities Enhanced Between Sustainability and the Future
PODCAST

We monitor environmental phenomena with Advanced Analytics and IoT
CASE STUDY



DigiBUILD: Data-Driven Services for Climate-Neutral Buildings
RESEARCH PROJECT

The Intelligent Management Platform for Water Losses
USE CASE

OUR Ecosystems

- Wellbeing
- Wealth & Commerce
- Digital Citizenship
- Energy Resources & Sustainability
- Mobility

OUR ToolBox

- PODCAST
- PAPER
- CASE STUDIES
- RESEARCH PROJECTS
- USE CASES

DISCOVER MORE
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SUSTAINABLE DEVELOPMENT GOALS