



PANGAEA R&D®
TECHNOLOGY RESEARCH & DEVELOPMENT SERVICES

PANGAEA R&D® PC · THESSALY, GREECE

Promoting Multi-Domain Innovation.

Where innovation meets sustainable development. We bridge the gap between scientific knowledge and commercial application in Agri-Food, Industry and Informatics.



ABOUT US

A dynamic startup for technology research & development

PANGAEA R&D® PC is a startup based in Larisa, Greece, with a core focus on Technology Research & Development Services. We specialise in Agri-Food, Industry and Informatics, building innovative technological solutions to modern global challenges.

Together with businesses, universities and research bodies, we develop, standardise and evaluate new methods that lead to specialised services and cutting-edge products.

IoT & 5G

Precision agriculture

Cloud & data

Drones



OUR DOMAINS

Seven specialised domains, each with its own website



earth.pan-gaea.gr

Earth — Smart Farming

The AgroNIT IoT platform, an electronic olive-fly trap, wizCube smart irrigation and xWeather field-level frost & heatwave forecasting.



ocean.pan-gaea.gr

Maritime Simulators

DNV-certified simulators: ship's bridge, engine room, GMDSS, liquid cargo handling, plus a welding trainer lab.



civil.pan-gaea.gr

Civil Protection

The C4 crisis-management platform, an autonomous transportable operations centre, drones and tethered drones, IoT sensors.



tectrans.pan-gaea.gr

Technology Transfer

Technology brokerage, work with Greece's Technology Transfer Office network and EKT, valorisation of research results.



rnd.pan-gaea.gr

Research & Development

FLEXPRESS, FRAMS, PAROC, DS2 data spaces and Fed4Fire PAWL, with patents and publications.



apps.pan-gaea.gr

Applications of R&D Products

Twelve smart-city applications: schools, air and water quality, lighting, parking, fleet management, Big Data.



restpark.pan-gaea.gr

REST-PARK — Renewable Energy Sources Thematic Park

A 21.4 ha model park above Volos: a bioclimatic building with eight energy systems (solar, wind, micro-hydro, geothermal, biomass), microclimate monitoring and an eEnergy School open to schools and the public.



PRECISION AGRICULTURE IN PRACTICE

Digital solutions in real fields

We apply precision agriculture with olive-growers' cooperatives in Laconia, extend weather-station networks in Macedonia and Thessaly, and take part in Measure 16 "Cooperation" operational groups such as OEZIZ (WeedBot) for precision weeding with robotic systems.

1,800 ha

olive groves, Agioi Apostoloi
(Vatika, Laconia)

400 ha

olive groves, Palaiopanagia
(Sparta, Laconia)

2 × 11

xWeather weather stations in
Pella and Larisa

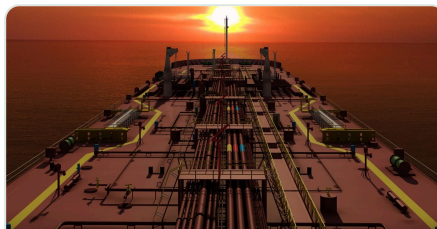
3 days

frost & heatwave forecasts at
microclimate level



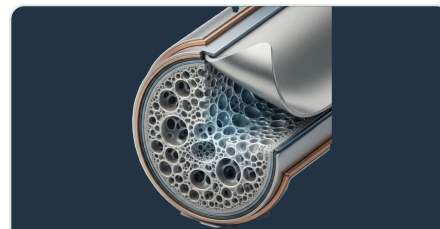
C4 for the Region of Thessaly

A cloud platform for Command – Control – Coordination – Communication, with GIS maps, live aerial imagery from drones and a mobile operations centre in the field.



Simulation training

Highly realistic, high-intensity training for shipping and industry: trainees learn from their mistakes in a safe, controlled environment.



FLEXPRESS – Materials as a Service

An innovative mechanism that absorbs the thermal expansion of fluids, from materials science to digital transformation; presented at SUSTENG 2026.

RESEARCH & DEVELOPMENT

Driven by R&D, we create

- **DS2** — data spaces for precision agriculture.
- **Fed4Fire PAWL** — field research on precision agriculture with LoRa, on NITLab's NITOS testbed.
- **PAROC** — parametric optimisation and advanced process control, with granted patents.
- **FRAMS and Design for Reliability** — flexibility, reliability and safety of complex systems.
- **Criticality analysis** of process systems with Industrial IoT.
- **SUSTENG** conferences 2022–2026 and papers in Chemical Engineering Science, Computers & Chemical Engineering, IEEE Transactions on Reliability.

ISO 9001:2015

Quality Management System, Q-CERT, cert.
no. 291223–4

ISO 27001:2022

Information Security standards

PANGAEA R&D®

Registered trade mark, OBI, no. N283867

PARTNERS

Strong partnerships

ACADEMIC PARTNERS

NITLab (University of Thessaly) · DEPLab (Technical University of Crete) · MSS-NDE (University of Ioannina) · EKT & Innovation EKT

COMPANIES

GRIDNET · Solterra · EREDI · FTS · Polytech · 3D S.A. · 3D Drone Academy · GeoAnalysis · INTRATECH · PatentMind · Atlantis Research

Share your idea or query with us.

From idea to prototype and from prototype to market: contact us about partnerships, R&D projects or the valorisation of research results.

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