

FOR INDUSTRIAL CUSTOMERS

Intelligent IoT & Private 5G/6G from Hands-on Learning to Deployment

IICT GmbH provides the technology infrastructure and expertise that help industrial organizations build practical engineering skills, reduce technology adoption risk and accelerate the adoption of IoT, Embedded AI, Private 5G and next-generation 6G connectivity on one integrated Learn → Test → Deploy path.

IoT & IIoT

LPWAN

Open RAN

Private 5G

Embedded AI

6G-ready

The challenge industry faces



Skills gap

Teams lack hands-on experience with Private 5G, AIoT and Edge AI.



Adoption risk

Large investments are made before feasibility is validated under real conditions.



Vendor lock-in

Unclear interoperability across vendors, protocols and network generations.



Stalled pilots

Proofs of concept that never make it from the lab into production.

Our Solution: one integrated Learn → Test → Deploy Systems

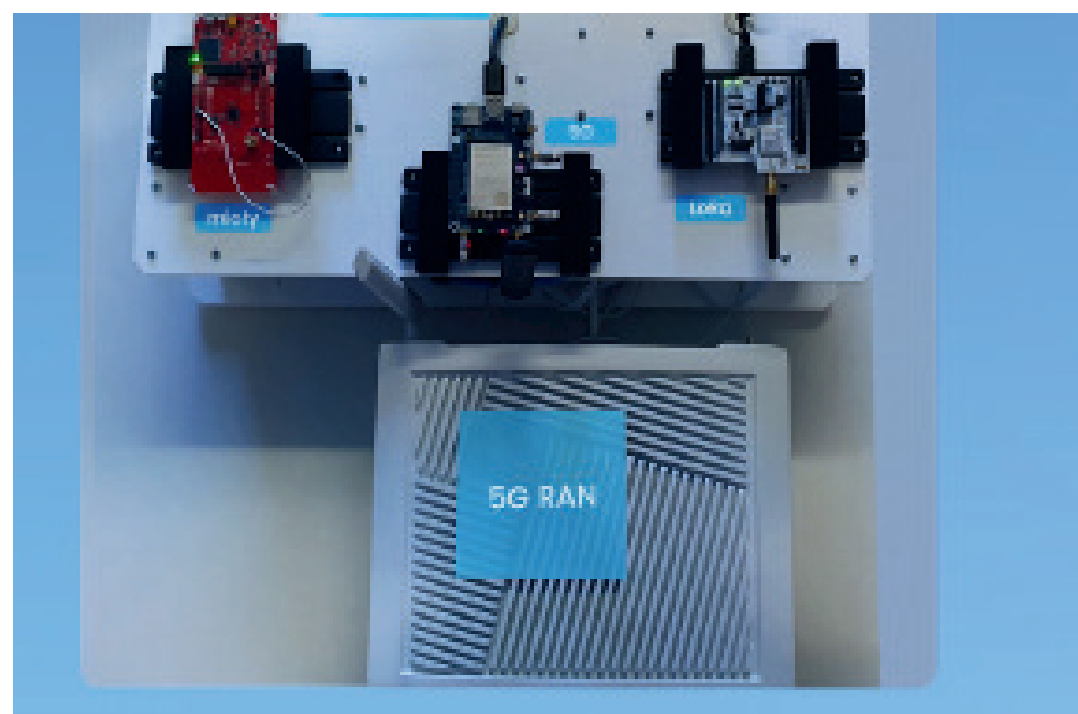
Hands-on learning, industrial-grade testbeds and deployment-ready solutions vendor-neutral and under one roof.



1 LEARN

Build team capability

- Corporate engineering upskilling & bootcamps
- Custom technical L&D for corporate academies
- Virtual labs & Lab-as-a-Service
- Training systems & lab kits for in-house teams



2 TEST

Validate before you invest

- Multi-technology testbeds: IoT, Private 5G, Open RAN, 6G
- Testbed-as-a-Service, remote or on-site
- Product validation & KPI benchmarking
- Interoperability testing across vendors



3 DEPLOY

Go to production

- Private 5G campus networks (SA n78, O-RAN 7.2)
- Multi-IoT protocol stacks & gateway integration
- Embedded AI / Edge AI on connected assets
- Integration, deployment & lifecycle operations

What you gain



Faster onboarding

Reduce ramp-up time for engineering teams



Lower adoption risk

Validate feasibility before investing



Measurable impact

Assessments, KPI reports & learning analytics



Ready to implement

From concept to PoC and next steps

Industry Transformation Programs & Joint Projects

Sector-specific programs that take proven IoT, Private 5G and Embedded AI building blocks from assessment and pilot to full deployment in industrial environments.



Smart Manufacturing

INDUSTRY 4.0 / 5.0

Predictive maintenance, Edge-AI quality inspection and AGV/robotics connectivity over Private 5G.

Private 5G SA · Edge AI · OPC-UA / MQTT



Raw & Advanced Materials

MINING & MATERIALS PROCESSING

Harsh-environment sensor networks for remote sites, AI anomaly detection and sustainability monitoring.

LPWAN · Private 5G · Edge AI



Process Industry

CHEMICAL & INDUSTRIAL PLANTS

Safety-critical monitoring, real-time process KPIs and AI-assisted anomaly detection over secure private wireless.

Private 5G · OPC-UA · Cyber-secure OT



Energy & Utilities

INTELLIGENT ENERGY SYSTEMS

Smart-grid IoT, renewable asset monitoring, substation Private 5G and predictive maintenance for turbines.

Smart-grid IoT · Predictive AI · Private 5G



Logistics & Ports

5G-ENABLED SMART LOGISTICS

AGV and autonomous fleet connectivity, real-time asset tracking and 5G device integration for ports and warehouses.

Private 5G · Asset tracking · Edge AI



Public Infrastructure

CITIES, CAMPUSES & UTILITIES

City sensing platforms, utility networks and public-safety connectivity delivered as end-to-end programs.

LoRaWAN / mioty · Private 5G · Edge AI

Expert services



Engineering Consulting

Architecture & feasibility studies, PoC scoping, interoperability and KPI validation.



Testbeds as a Service & Research

Remote or on-site testbed access, product validation, benchmarking and joint applied R&D.



Training & Upskilling

Instructor-led and blended bootcamps for industry engineering teams.



Custom Technical L&D

SME-authored courseware, labs and capstones for corporate academies.

Typical entry points

1

Technology & requirements workshop

2

Feasibility & architecture study

3

PoC on the IICT GmbH testbed

4

Pilot, rollout & operations

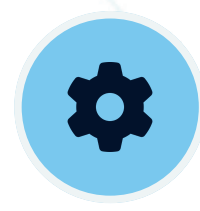
Why IICT GmbH



Vendor-neutral



Hands-on



Engineered in Germany



Research-backed

- **Vendor-neutral and modular** – Built on a German/European technology stack, vendor-neutral and modular with solutions can be adapted to existing infrastructure and expanded over time.
- **Technology + application perspective** – we connect advanced connectivity with practical operational use cases.
- **Flexible cooperation models** – from workshops and pilots to laboratories, testbeds and long-term partnerships.
- **German research and engineering foundation** – with a strong focus on hands-on experimentation and technology transfer.

Ready to validate technology and deploy with confidence?

Let's identify your entry point on the Learn → Test → Deploy path.

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