



ik Digital Labs
ADVANCED

jp.ik

inspiring knowledge

ABOUT US

With more than **30 years** of experience, jp.ik is a Portuguese Company and the business unit for Education of **jp.group**.

From Portugal to the world, **jp.ik** launched in 2008 the world's first national Edtech initiative, in Portugal, democratizing social inclusion and access to education.



+17M
Students



+110K
Equipped
Schools



+320K
Capacitated
Teachers

intel

Microsoft



Angola	Gabon	Nigeria
Argentina	Gambia	Norway
Armenia	Georgia	Oman
Austria	Germany	Palestine
Azerbaijan	Ghana	Panama
Bangladesh	Guatemala	Paraguay
Belgium	Guinea Bissau	Pakistan
Benin	Honduras	Peru
Bolivia	Hungary	Philippines
Bosnia and Herzegovina	India	Poland
Botswana	Indonesia	Portugal
Brazil	Iraq	Puerto Rico
British Virgin Islands	Ireland	Romania
Bulgaria	Israel	Russia
Burkina Faso	Italy	Rwanda
Cape Verde	Ivory Coast	Sao Tome and Principe
Chile	Jamaica	Saudi Arabia
China	Jordan	Senegal
Colombia	Kazakhstan	Seychelles
Comoros	Kenya	South Africa
Costa Rica	Kuwait	South Sudan
Cote d'Ivoire	Latvia	Spain
Curaçao	Lebanon	Sri Lanka
Cyprus	Lesotho	Sweden
Czech Republic	Lithuania	Switzerland
Denmark	Macao	Taiwan
Djibouti	Malawi	Tanzania
Dominica	Malaysia	Thailand
Dominican Republic	Malta	Trinidad and Tobago
East Timor	Mauritius	Tunisia
Ecuador	Mexico	Turkey
Egypt	Mongolia	Uganda
El Salvador	Morocco	Ukraine
Equatorial Guinea	Mozambique	United Arab Emirates
Finland	Namibia	United Kingdom
France	Netherlands	Uruguay
		USA
		Uzbekistan
		Venezuela
		Zambia
		Zimbabwe

WORLDWIDE EDUCATION PROJECTS



+100
countries

ik DIGITAL LABS

This initiative was born from the **close collaboration** between teachers, students, pedagogues and EdTech Specialists to pave the way for Governments and Public institutions, as well as every single stakeholder to develop digital skills of school-age citizens or working population.

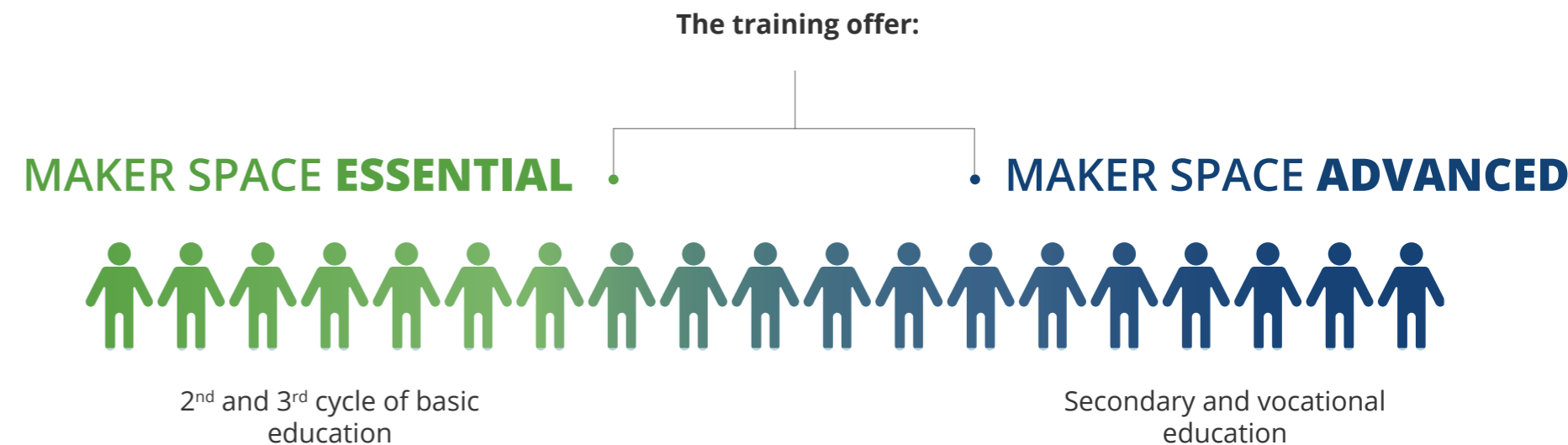
Digital skills are important for **working, studying**, accessing services and buying products, or keeping in touch with friends and **family**.

What are ik DIGITAL LABS?

Learning Spaces designed to **stimulate interaction** between students and **make them the protagonists of the process**. It has tools such as computers, a 3D printer, a laser cutter, drill and robotics kits.

Students are stimulated to test hypotheses presented in class and to **develop projects** with the aim of proving them - whether it's understanding the process of an electric current, or creating a robot, from **paper to prototypes**, towards the development of digital skills.

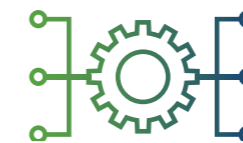
At the same time, ik Digital Labs enhances soft skills such as collaboration, cognitive empathy, and team work.



both are **interlinked** and **interconnected** although **independent**



a **human-centered** and inclusive digital environment



more **secure, accessible** and **sustainable** digital infrastructures



increased use of **digital skills**



online **public services** for everyone



strengthened **collective** resilience

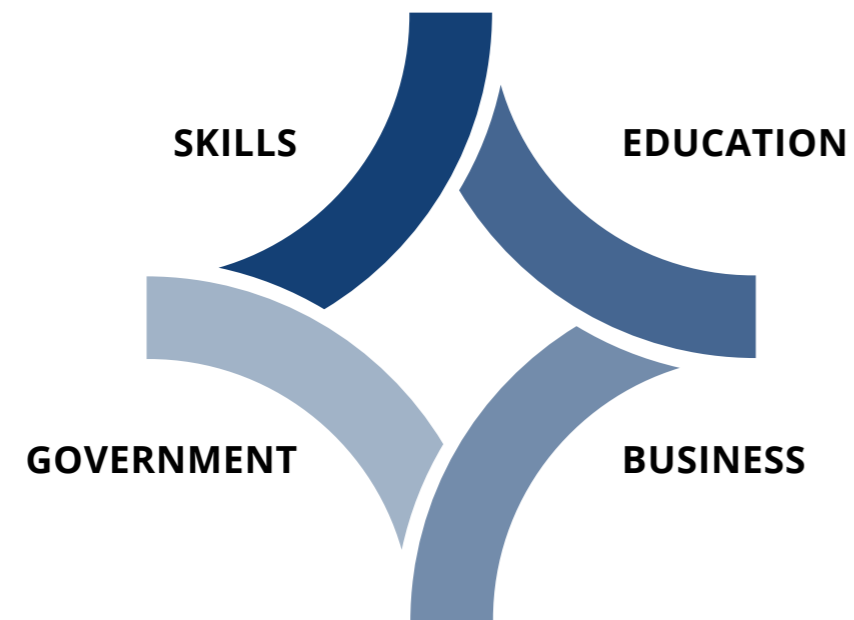
MAKER SPACE ADVANCED

STRATEGIC GOAL

Increase the responsiveness of the education and training system to combat social and gender inequalities.
Increase the resilience of employment, especially for young people and adults with low qualifications.

SCOPE

Modernization of the educational and vocational training establishments.

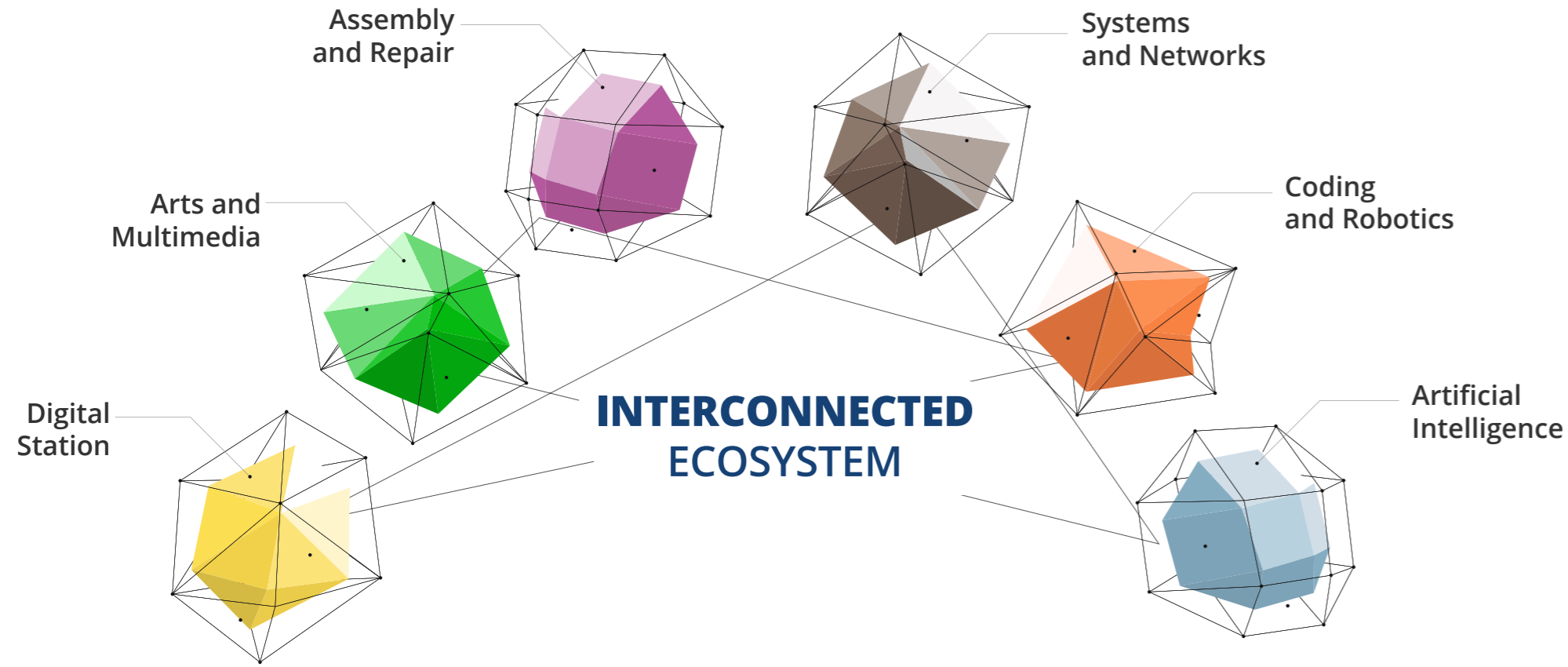


Being the main goal to **empower countries** by addressing the challenges and changes that emerge from a global digital transition, becoming more resilient through:

- Re-equipping and renovate the technological infrastructure of educational establishments, by **installing or modernising spaces and equipment**;
- Expanding the installed capacity of public and private educational establishments offering vocational courses;
- **Strengthen the attractiveness of secondary level** dual certification training in areas of specialisation that require highly qualified labour. It is part of a process of technological change accelerated by the challenges of climate transition and digital transition;
- **Modernising the training offer** in line with the evolution of the productive fabric, by creating specialised centres in technological areas with great potential for creating added value;
- **Increasing the number of young people graduating** from dual certification programmes at secondary and post-secondary level, especially in emerging areas;
- Investing in the development of qualifications/skills for **innovation and industrial renewal**;
- Improving vertical articulation between the various levels of education and vocational training, contributing to **lifelong learning**.

MAKER SPACE ADVANCED

In this spirit of technological vanguard, Maker Space ADVANCED framework proposes 6 stations, which are **modern, functional, flexible, and interoperable.**



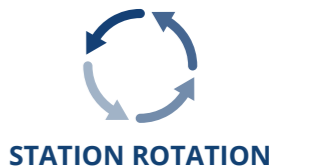
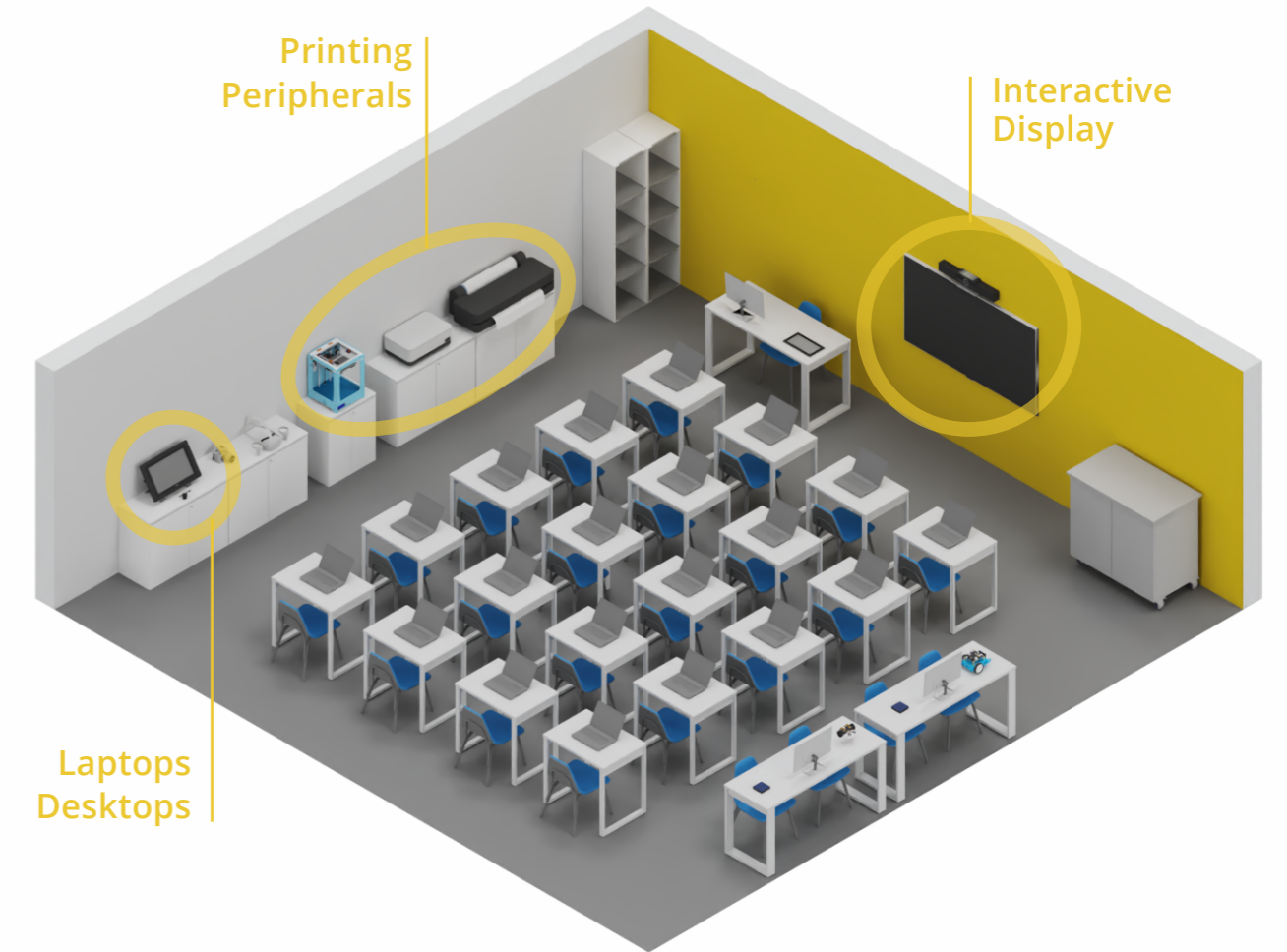
DIGITAL STATION

Developed Skills:

Social & Cultural Skills
Scientific Skills
Extracurricular Activities

Key Equipment:

Tablets
NUCs
Video Conferencing System
Classroom Collaboration Software
Productivity Suite
MDM & Security
Virtual Labs
Academic Software Ecosystem



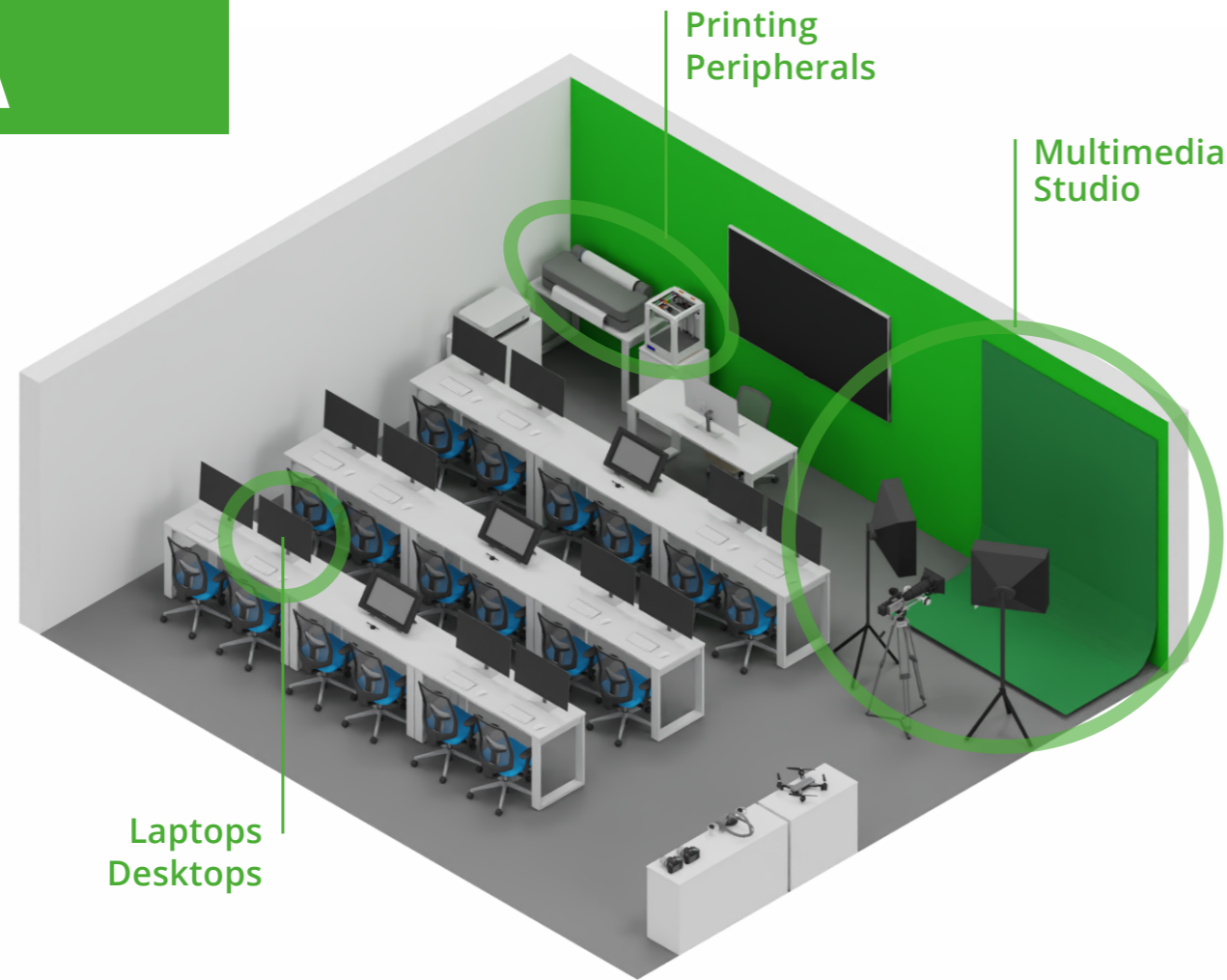
ARTS & MULTIMEDIA

Developed Skills:

Web and Graphical Design
Content Creation, 2D/3D Animation
xR (AR/VR/MR)

Key Equipment:

Drones
Interactive Pen Display
Large Format Printing
3D Modeling and Printing
Laser Cutter/Engraver
High-performance Computers



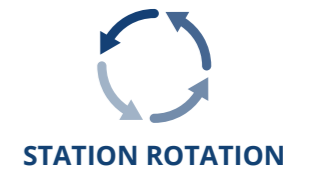
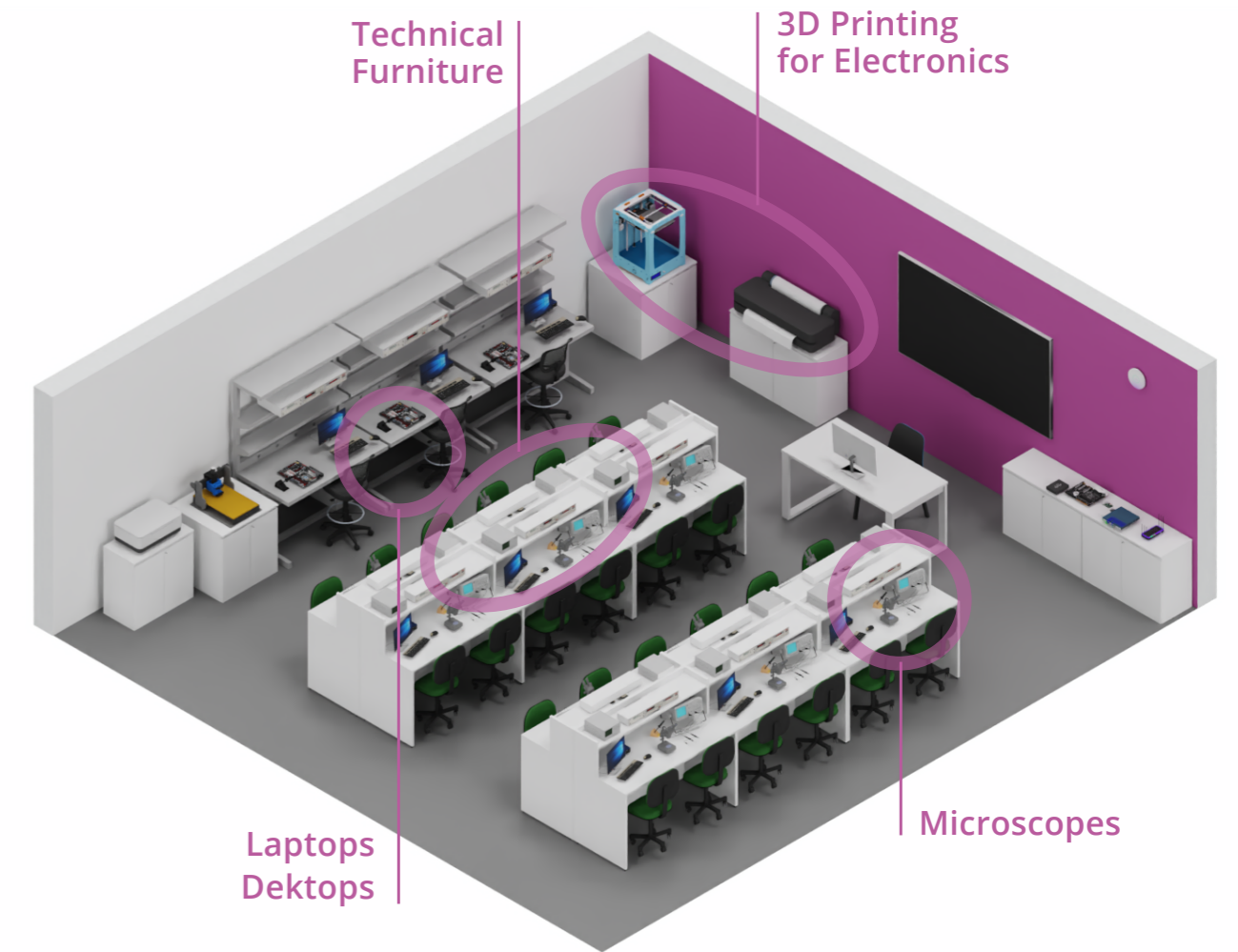
ASSEMBLY & REPAIR

Developed Skills:

Electronics & Digital Systems
Hardware Development and Maintenance
Embedded Systems Programming
PCB Design and Rapid Prototyping
Precision Repair (Computers, smartphones and wearables)

Key Equipment:

Bench Instrumentation (diagnostics, measurement, and optical)
IoT, Microcontrollers, and Sensors
PCB Printer
Tools (Prying & Opening, Soldering & Wiring, Organisation & Cleaning)



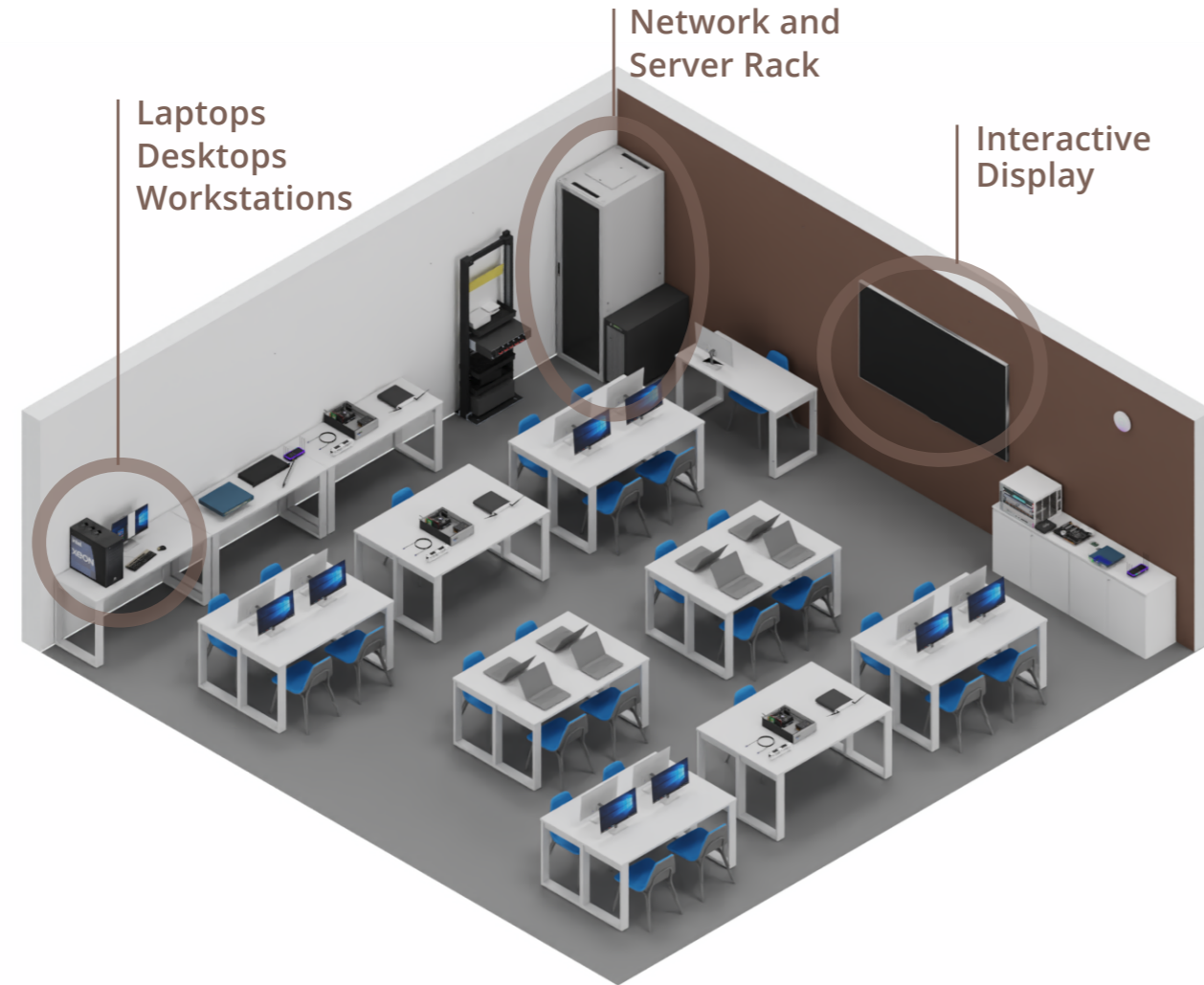
SYSTEMS & NETWORKS

Developed Skills:

Network Infrastructure Planning & Implementation
 IT Systems Administration & Management
 Cyber Security and Forensic Analysis

Key Equipment:

Redundancy Systems
 LAN Instrumentation & Tools
 Active & Passive Network Components
 Didactic Network
 Network Monitoring & BI Dashboards



COLLABORATION



STATION ROTATION

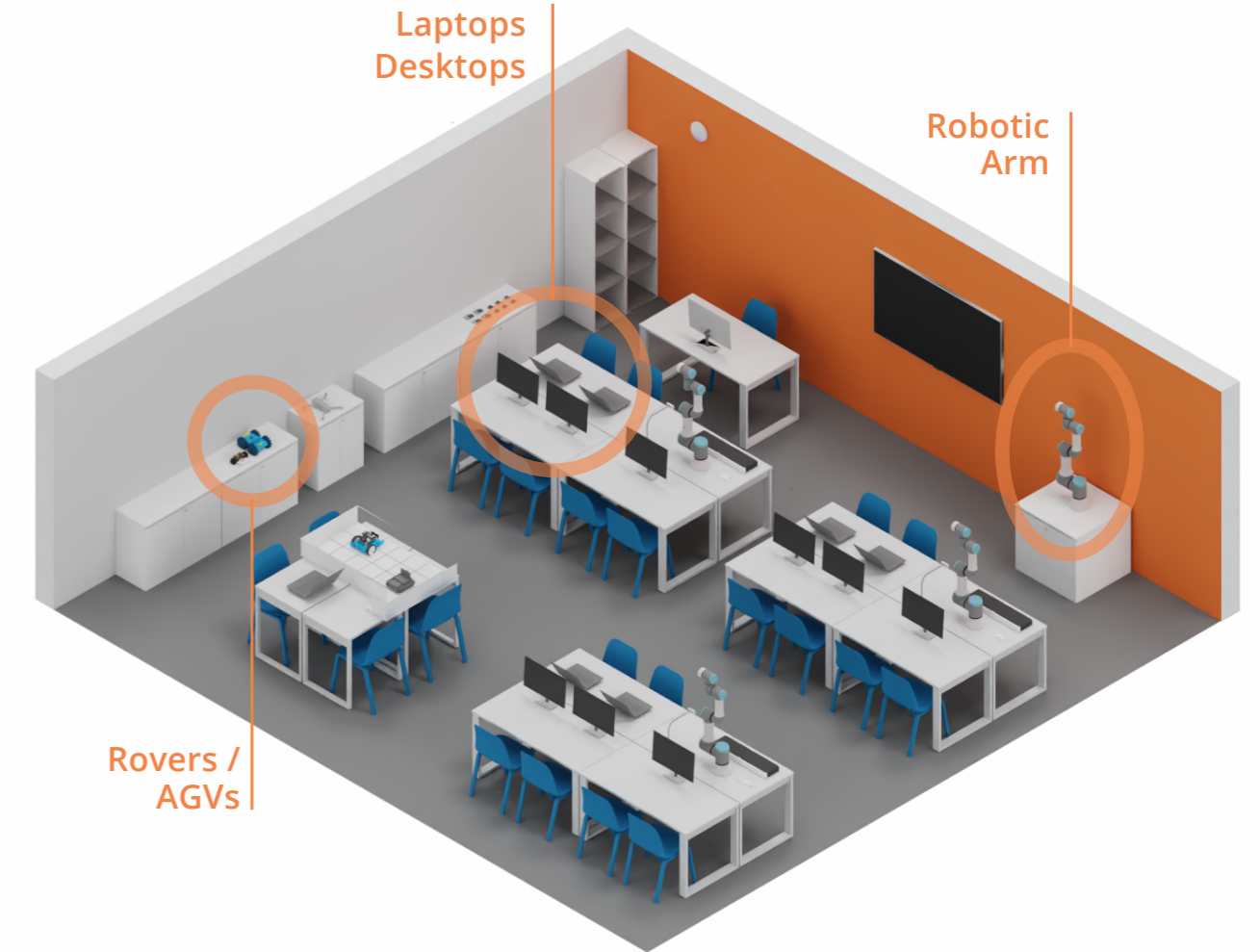
CODING & ROBOTICS

Developed Skills:

Industry 4.0 (Control & Automation Systems)
 Collaborative Robotics (pick & place, dispensing, and palletizing)
 Industrial IoT (IIoT) Skills & PLC Programming
 Autonomous Guided Vehicles (AGV)
 Moving Forward to Industry 5.0

Key Equipment:

Cobots
 Conveyor Belt
 Computer Vision
 AGV
 Drones



COLLABORATION



STATION ROTATION

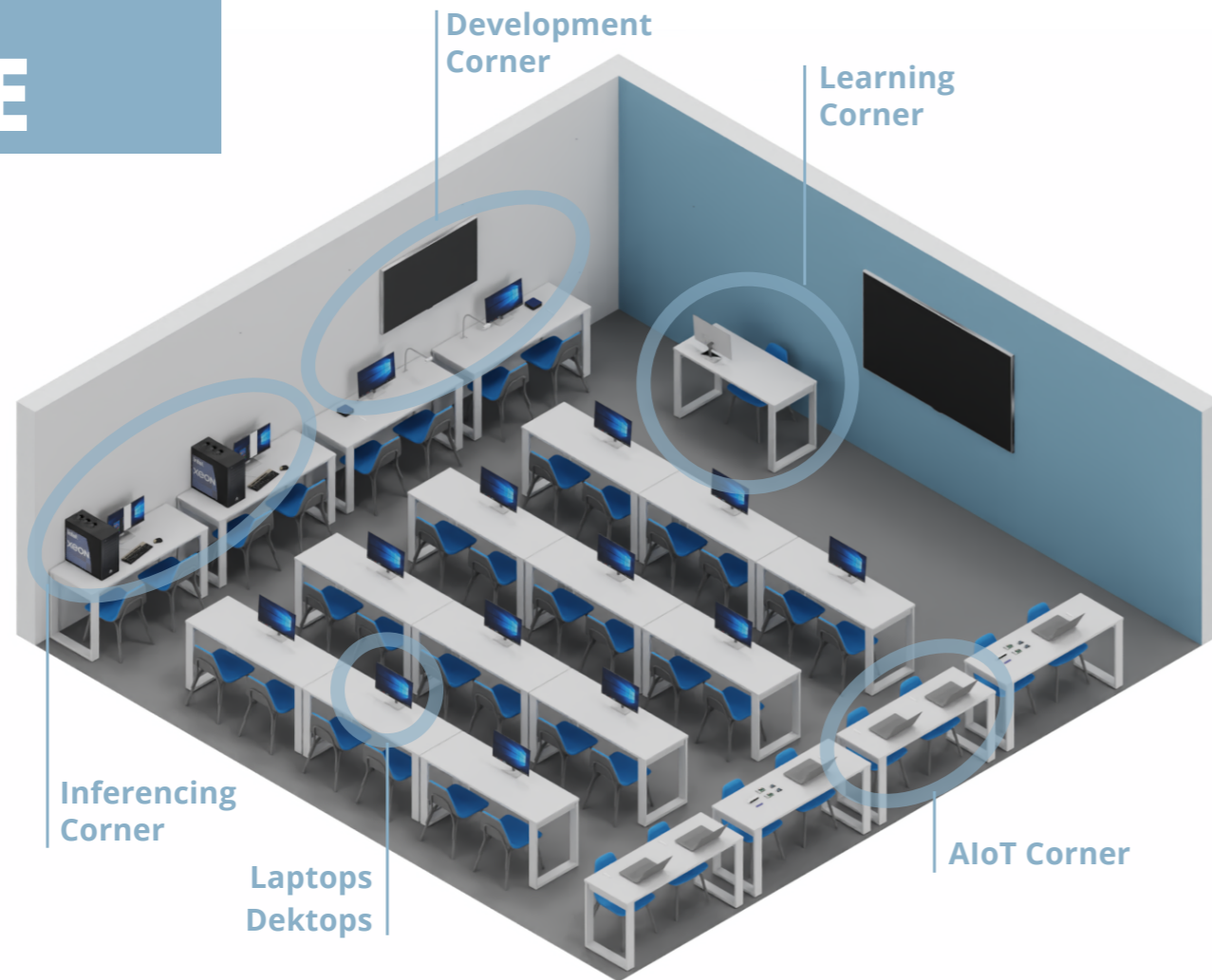
ARTIFICIAL INTELLIGENCE

Developed Skills:

AI Understanding and Solutions
 AI Curriculum & Practical Projects
 ML/DL (Supervised, Unsupervised, and Reinforcement Learning)
 Fusion Skills
 Industrial Use of AI

Key Equipment:

Deep Learning Training Server, Statistical Data
 Natural Language Processing
 Training AI Model
 Computer Vision
 Intel® AI Academy
 ML accelerator



MAKER SPACE ADVANCED

IN ACTION

In 2022, under the Recuperation and Resilience Plan, the Portuguese government launched a programme lasting until 2025 to modernise the education and vocational training establishments.

Today there are around 1300 public education establishments offering vocational courses and vocational schools, both public and private, that have digital laboratories.

Maker Space Advanced is now at the service of several public and private educational institutions, laying the foundations for the development of Digital and technical skills towards up and reskilling.



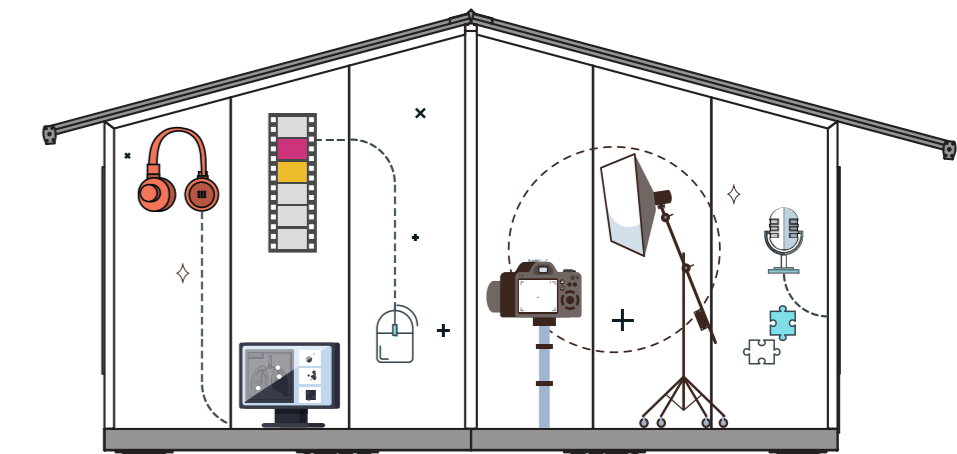
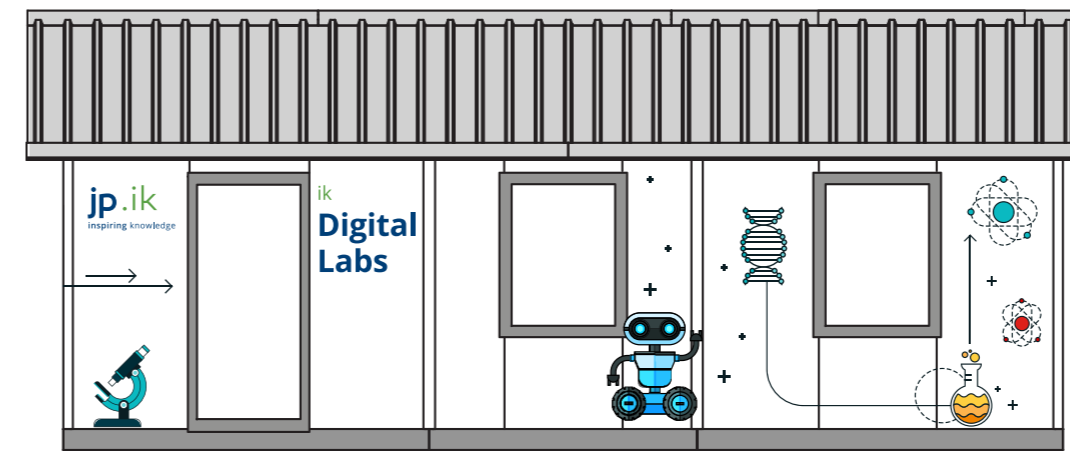
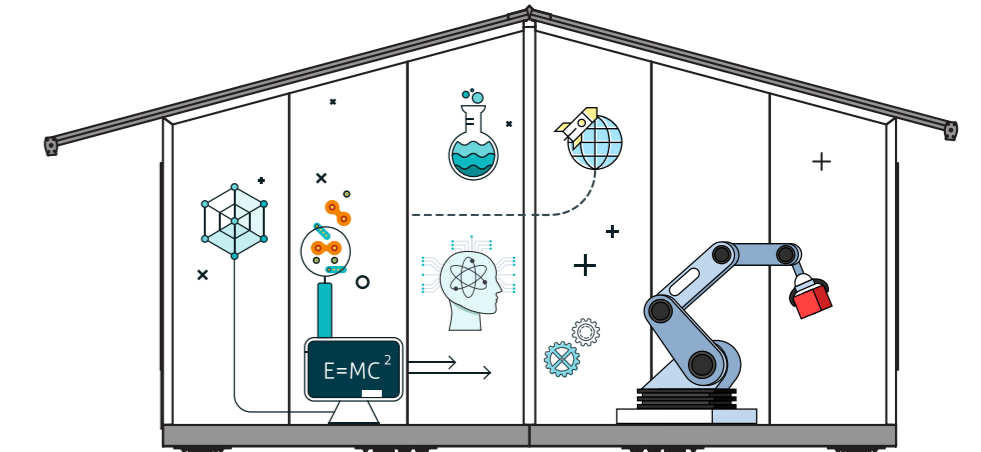
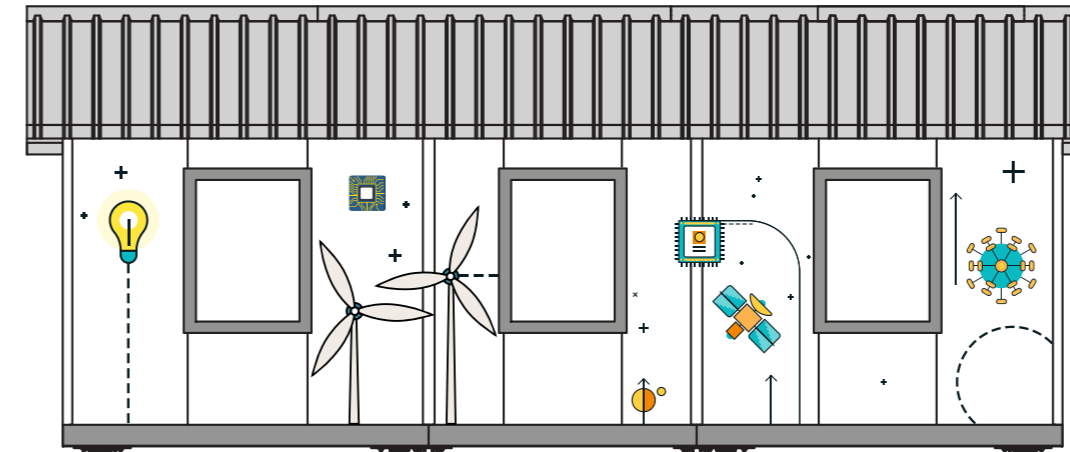
MAKER SPACE ADVANCED

WRAPPING UP

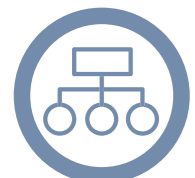
1. Leverage transferable digital skills towards career transformation
2. Bring the vital skills for the future of work
3. Adopt new technologies influence in job creation



POP-UP DIGITAL LABS



IMPLEMENTATION ROADMAP



1st Stage

Assessment

~ 2 weeks



2nd Stage

Infrastructure and Logistics

~ 4-6 weeks



3rd Stage

Setup and Implementation

~ 2 weeks



4th Stage

Training Knowledge Transfer

~ 2-3 weeks

A GLANCE INTO THE FUTURE



SKILLS

ICT Specialists
Basic Digital Skills



DIGITAL TRANSFORMATION OF BUSINESS

Tech up-take: companies using Cloud, AI, or Big Data
Innovators: grow scale-ups & finance
Late adopters: SMEs reach at least a basic level of digital intensity



SECURE AND SUSTAINABLE DIGITAL INFRASTRUCTURES

Connectivity: Gigabit for everyone
Cutting edge Semiconductors: in global production
Data - Edge & Cloud nodes
Computing: computer with quantum acceleration



DIGITALISATION OF PUBLIC SERVICES

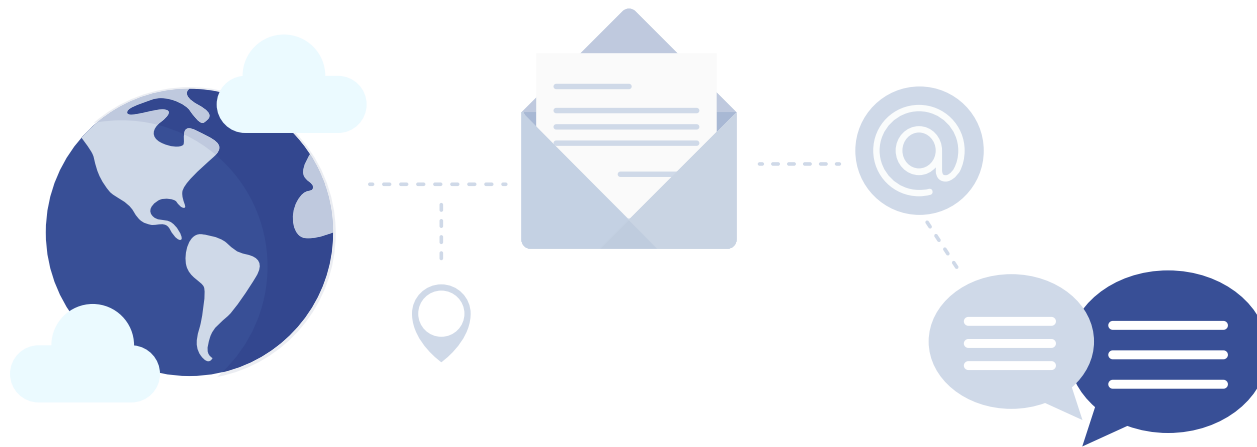
Key Public Services: 100% online
e-Health: 100% of citizens have access to medical records online
Digital Identity: 100% of citizens have access to digital ID

WANT TO KNOW MORE?

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