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# *ICT LANDSCAPE*

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*Executive Summary*

*MoveToJoy*

*Luxembourg 2024*



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# ICT at the Core of Public and Private Economies

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Information and Communication Technologies (ICT) are fundamental to both public and private sectors across the globe. ICT is a major driver of economic growth and innovation. By investing in *key technologies* and *fostering a skilled workforce*, countries can position themselves for success in the digital age.

## Key ICT Sectors:

- Public: (air)space, defense, health, transport, ID services
- Private services: banking, insurance, software companies
- Private industry: design, manufacturing, logistics, e-health

## Global ICT Trends:

- AI/ML, IoT/Robotics, Cloud Computing, and Cybersecurity
- Smart Cities and Increased Connectivity

## Country-Specific ICT Strategies:

- **UK:** Focuses on a blend of service and industries, with strengths in (air)space and FinTech. London is a major financial center and a top choice for business scaling.
- **Singapore:** A leader in smart city initiatives and a hub for FinTech and AI. It boasts a highly connected population and is a regional leader in data centers.
- **Germany:** A strong industrial sector with a focus on digital environments, infrastructure, and education.
- **Finland:** A global leader in digitalization with a highly skilled workforce and a focus on 5G/6G and fiber optic networks.
- **France:** A large IT sector with strengths in banking, aviation, manufacturing, and healthcare.
- **Ireland:** A hub for data centers and cloud computing, with a strong ICT talent pool.
- **Luxembourg:** A growing ICT sector with a focus on FinTech, e-Health, and data security. It offers a favorable

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# Beyond the Challenges, Luxembourg seeks to establish as a Hub for ICT innovation in the EU

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## Challenges and Opportunities:

- **Cybersecurity:** A growing concern due to increased connectivity. Countries are investing in cybersecurity solutions and promoting operational resilience.
- **Skilled Labor Shortage:** A challenge for many countries in Europe
- **Data Center Efficiency:** Balancing energy demands with sustainability goals has become a priority.
- **Investment:** Government and private investments from large VCs are needed for ICT development.

## The European Union:

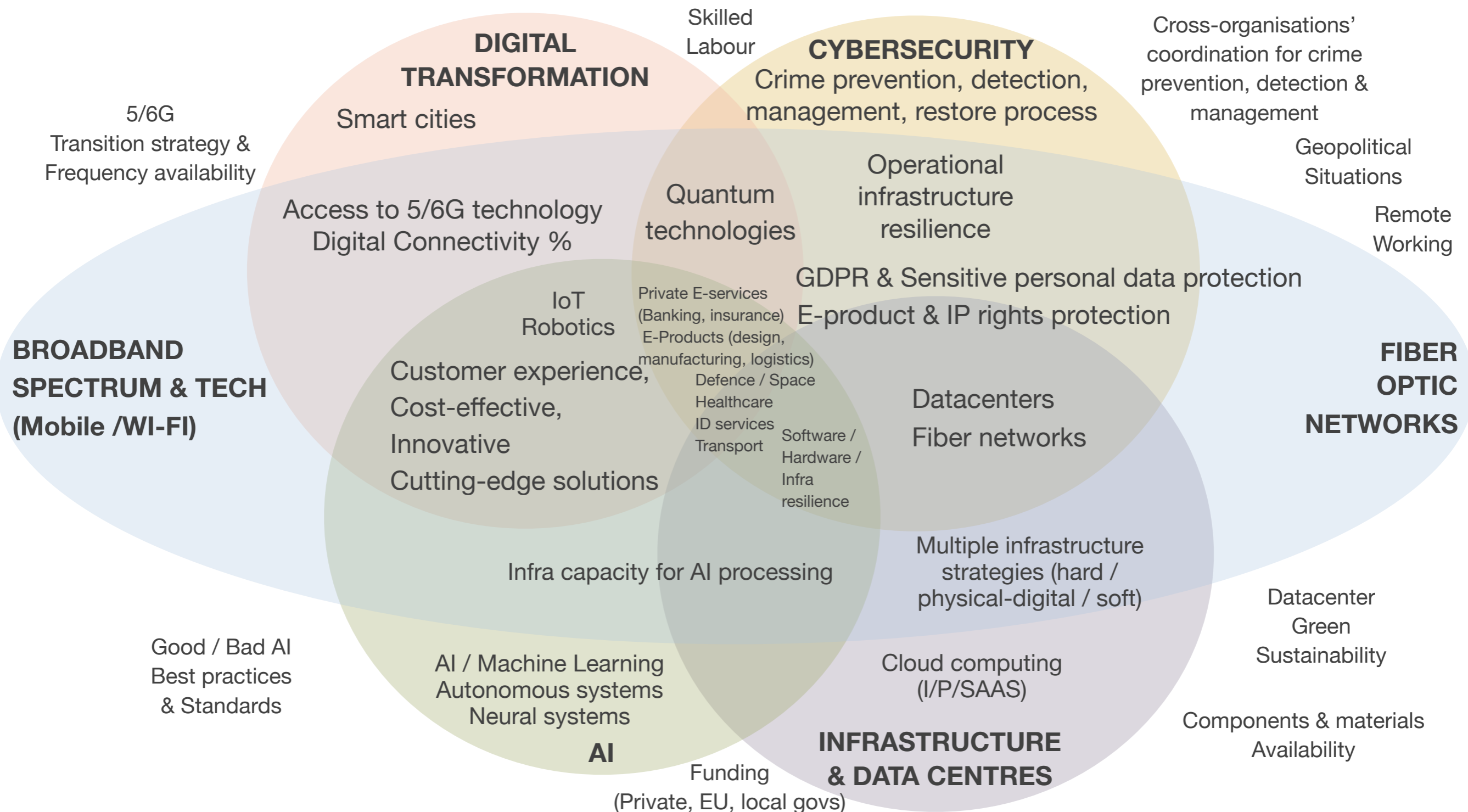
- Supports digital transformation through programs like Horizon Europe and Digital Europe Programme.
- Luxembourg is a prominent member with a strong ICT infrastructure and research institutions.

## Luxembourg: A Hub for ICT Innovation

Luxembourg is strategically positioned as a leading hub for ICT innovation.

- **Strong ICT Foundation:** The country boasts a highly skilled workforce, a robust digital infrastructure (including the highest density of Tier IV certified data centers worldwide), and a supportive ecosystem for startups and businesses.
- **Focus on Key Areas:** Luxembourg specializes in FinTech, e-Health, and data security.
- **Government Support:** The government actively promotes ICT development through initiatives such as the Luxembourg National Data Service, which facilitates data-driven research and innovation.
- **Research Excellence:** Research institutions like the SnT (Interdisciplinary Centre for Security, Reliability and Trust) contribute to cutting-edge research in cybersecurity and other critical ICT areas.
- **International Collaboration:** Luxembourg actively participates in European Union programs like Horizon Europe, fostering collaboration and driving innovation within the region.

# ICT strategy - interplay of factors



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