VISIONARY ANALYTICS

External expertise for project „Accelerating Sustainability in Telecoms“

Final Conference
2025 06 04

Overview

- Preface on the twin transition
- The study Report and infographics
- Overview of disruptive technologies
- Q&A

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The twin transition – sustainable telcos

- Green + digital transitions: towards digitalisation and sustainability
- **Reinforcing** relationship (e.g., IoT in manufacturing plants)
- **Clashing** relationship (electricity use, electronic waste, resource-intense technologies).
- *Need for a managed transition*

The twin transition in the telecom sector:

- Renewable energy
- Energy efficiency – new technologies
- Enabling sustainable transformation of society

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The twin transition and the new labour market

- **Reshuffling of skills required in the sector**
  - Upskilling / reskilling
  - Automation
- **Impact of technologies on work organisation**
  - ‘Work from home revolution’
  - Technology streamlines tasks
- **Impact of technologies on health and safety**
  - Privacy of workers
  - Technology for safety in the workplace

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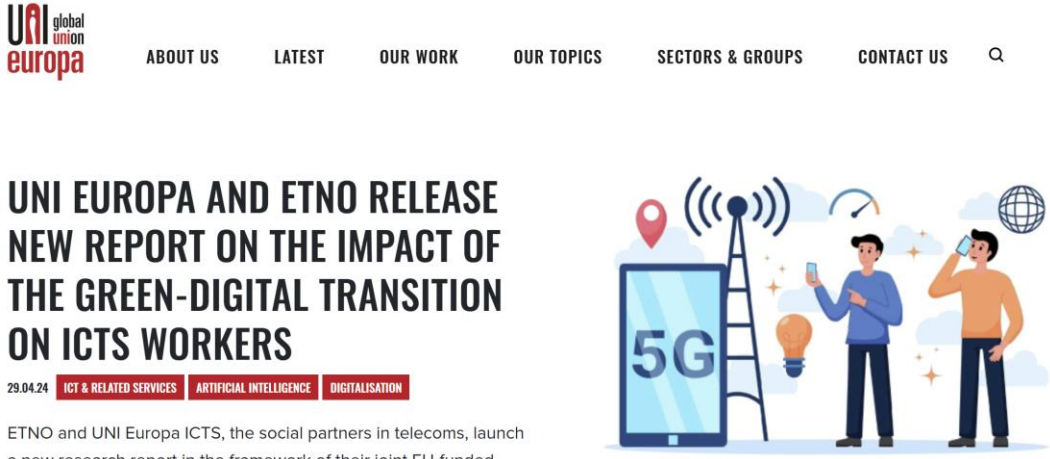
Study Report and infographics

“Accelerating sustainability in telcos” – Report and infographics now available on Connect Europe and UNI Europa channels

- **11 Disruptive technologies** key to the twin transition in telcos;
  - Use cases in European Telcos, case studies and applications
  - their impacts on the labour market
  - implications for sustainability



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11 Disruptive technologies

- **Artificial intelligence**
  - for network roll-out and operation, back office, front office
  - Automation and transparency challenges and opportunities

- **Big data and analytics**
  - Backbone of AI and other technologies
  - Demand for dedicated skills, privacy increasingly important

- **Internet of Things**
  - IoT as a service for ‘smart’ application;
  - employee monitoring – safety vs. privacy

- **5G and 6G, optical fibre**
  - More sustainable than predecessors, enable key technologies
  - Promotion of the digital society

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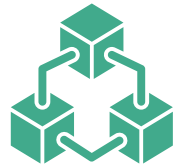
11 Disruptive technologies

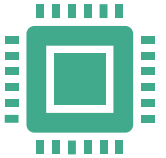
- **Cloud and edge computing**
  - Revolutionise how data is stored, enable automation of tasks

- **Blockchain and cybersecurity**
  - Helps prevent cyberthreats tied to new technologies
  - Improves transparency of sustainability efforts

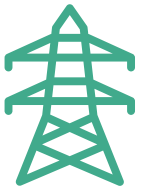


- **Extended reality and digital twins**
  - Remote applications, virtual maintenance
  - New employee training tools

- **Quantum technologies**
  - New skills in demand – quantum engineering
  - Potential for more (cyber)security and sustainability



- **xRAN**
  - Increased agility, software-based RAN solutions



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Thank you!

Contact us

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