

THE TELECOM SECTOR'S CONTRIBUTION TO SECURITY AND RESILIENCE IN EUROPE

STUDY BY COPENHAGEN ECONOMICS FOR CONNECT EUROPE

Telecom networks provide critical infrastructure. This study explores security and resilience in European telecom networks - a topic of increasing importance to society and end-users - based on desk research and interviews with operators and vendors.

SECURE AND RESILIENT TELECOM NETWORKS BENEFIT END-USERS AND SOCIETY

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SEAMLESS ACCESS TO DOWNSTREAM SERVICES
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PROTECTION OF PERSONAL AND SENSITIVE INFORMATION
- 

ENABLING CRITICAL SECTORS
- 

SUPPORT ECONOMIC GROWTH AND WIDER SOCIETAL BENEFITS

DELIVERING SECURE AND RESILIENT NETWORKS REQUIRES NAVIGATING A COMPLEX RISK LANDSCAPE

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SYSTEM FAILURES
- 

THIRD-PARTY FAILURES
- 

HUMAN ERRORS
- 

MALICIOUS ACTIONS
- 

NATURAL PHENOMENA

HOW DO TELECOM OPERATORS ENSURE SECURE AND RESILIENT NETWORKS?

"**SECURITY IS IN OUR DNA.** IT CANNOT BE IMPLEMENTED AS AN AFTERTHOUGHT - BUT MUST BE INTEGRATED IN ALL SYSTEMS AND PROCESSES FROM THE START."

- Security expert at a major European telecom operator.



TELECOM OPERATORS ENGAGE IN A COMPREHENSIVE SET OF SECURITY AND RESILIENCE MEASURES

SECURITY

Measures to avoid and prevent attacks, breaches, or other forms of interruptions

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Personnel training
- 

Physical protection
- 

Threat detection
- 

Vulnerability assessment
- 

Access management
- 

Secure hardware and software

RESILIENCE

Measures that avoid or minimise any impact for end-user when an incident occurs

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Business continuity
- 

Disaster recovery
- 

Incident management
- 

Continuous learning

POLICY OPPORTUNITIES TO SUPPORT CONTINUED SECURITY AND RESILIENCE



SUPPORT INVESTMENT IN SECURITY AND RESILIENCE



STREAMLINE REGULATION



ADDRESS SKILL SHORTAGES