

# *Etis*

THE COMMUNITY  
FOR TELECOM  
PROFESSIONALS



# The ET-ISAC Telco Security Landscape 2024

**Rolv R. Hauge**

BCM Manager, Telenor Norway

Chairman, ETIS Information Security WG



## ● ABOUT ETIS

Founded 1991

30 telco Partners and 17 supporting parties,  
from 21 European countries,  
collaborating in 18 working groups

## ● MISSION

to provide our community with a highly  
trusted collaboration platform within the  
European telecommunication industry



# OUR ACTIVITIES

**100+**

**Yearly Online  
Activities**

Webinars  
Workshops  
Roundtables

**30+**

**Yearly Physical  
Activities**

ETIS Annual  
Gathering  
Working Group  
meetings

**TANGIBLE**

**Outcomes**

Surveys  
Benchmarks  
Position papers

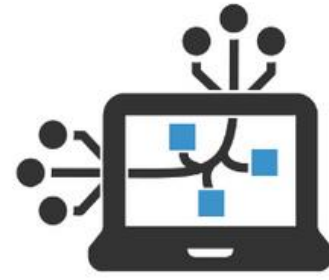
# OUR WORKING GROUPS AND TASK FORCES



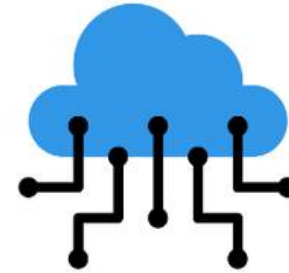
DIGITAL TELCO STRATEGY FORUM



ENERGY REDUCTION TASK FORCE



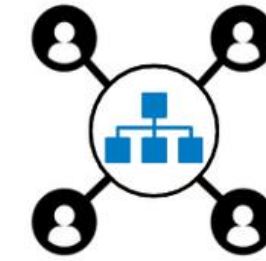
NETWORK + IT TRANSFORMATION WG



CLOUD WG



BUSINESS CONTINUITY TASK FORCE



ENTERPRISE ARCHITECTURE TASK FORCE



TV CONTENT TASK FORCE



INFORMATION SECURITY WG



SECURITY AWARENESS TASK FORCE



CERT-SOC TELCO NETWORK



ANTI-ABUSE TELCO NETWORK



DATA PRIVACY TASK FORCE



DIGITAL SALES + CUSTOMER EXPERIENCE WG



DIRECT CARRIER BILLING WG



SMART CHARGING + PAYMENTS WG



SUSTAINABILITY WG



CSRD COMPLIANCE TF

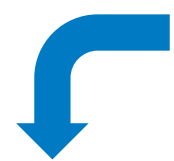
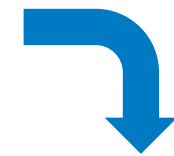


PROCUREMENT + SUPPLY CHAIN MANAGEMENT WG

# 2022: The ET-ISAC is formed



Empowering EU-ISACs



**Etis** | THE COMMUNITY FOR TELECOM PROFESSIONALS



INFORMATION SECURITY WG

+



CERT-SOC TELCO NETWORK

=

**ET-ISAC**

<https://www.etis.org/european-telecommunications-isac>  
[isac@etis.org](mailto:isac@etis.org)

## European Telecommunications ISAC

### ETIS IS NOW A EUROPEAN TELCO ISAC

ETIS Information Security Working Group a CERT-SOC Working Group (Telco-only) has adopted the title of a European Telco Information Sharing and Analysis Center (ISAC), joining network of already existing ISACs in other industries around Europe, which are connected through ENISA.



Empowering EU-ISACs

ISACs we have worked with



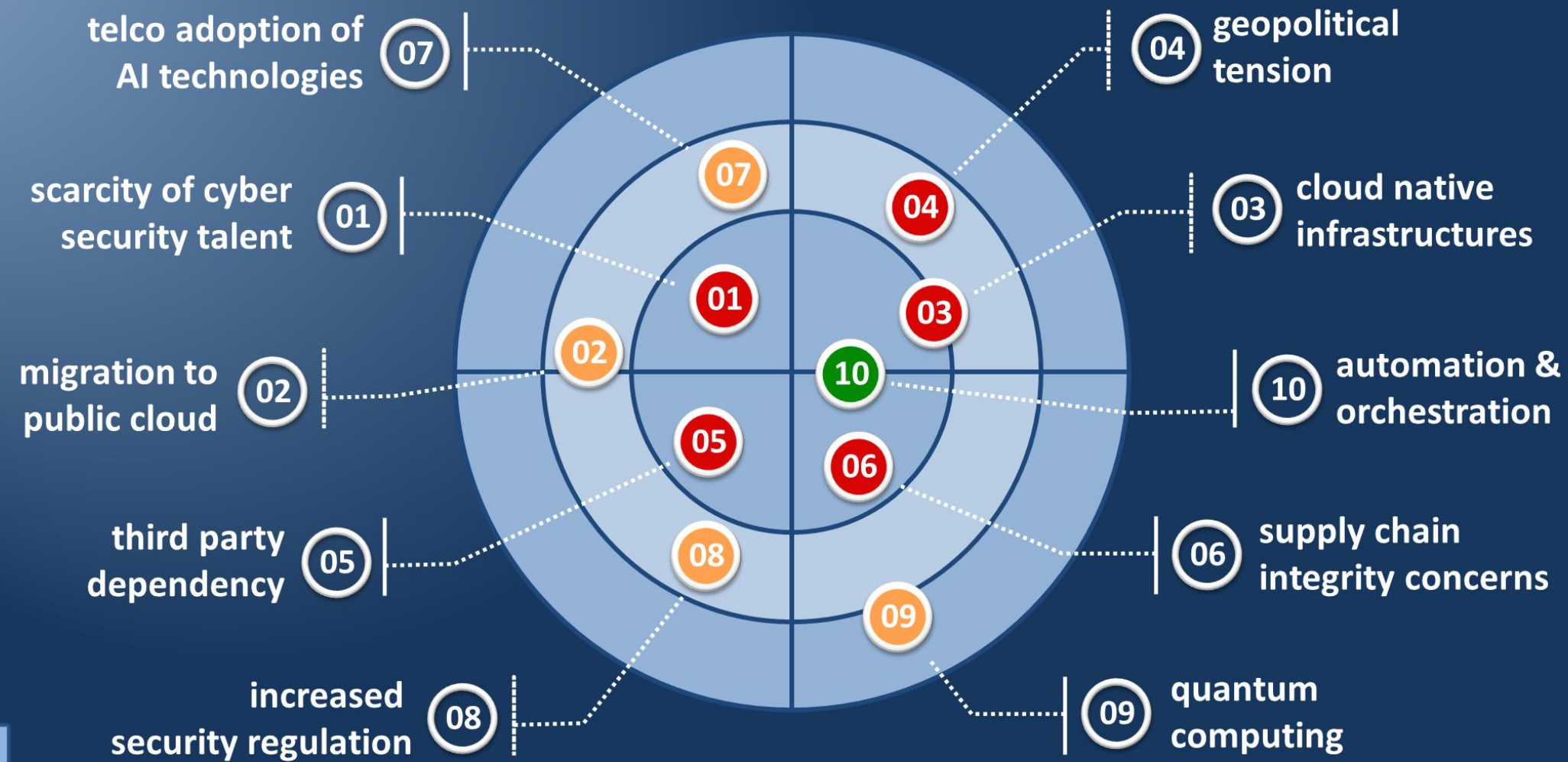
European Telecommunications ISAC

# Telco Security Landscape 2024

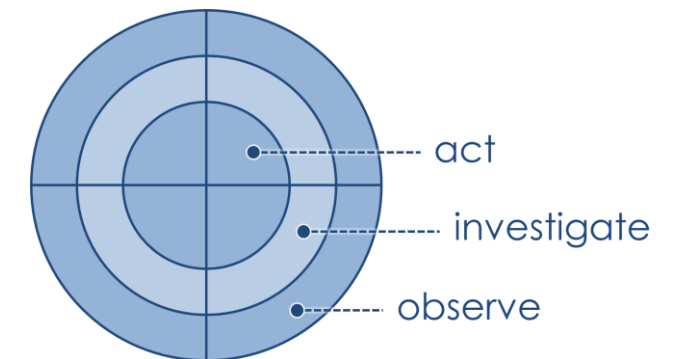
# Updated landscape for 2024



etis TNO innovation for life



- = threat
- = opportunity
- = both



TELCO SECURITY LANDSCAPE 24



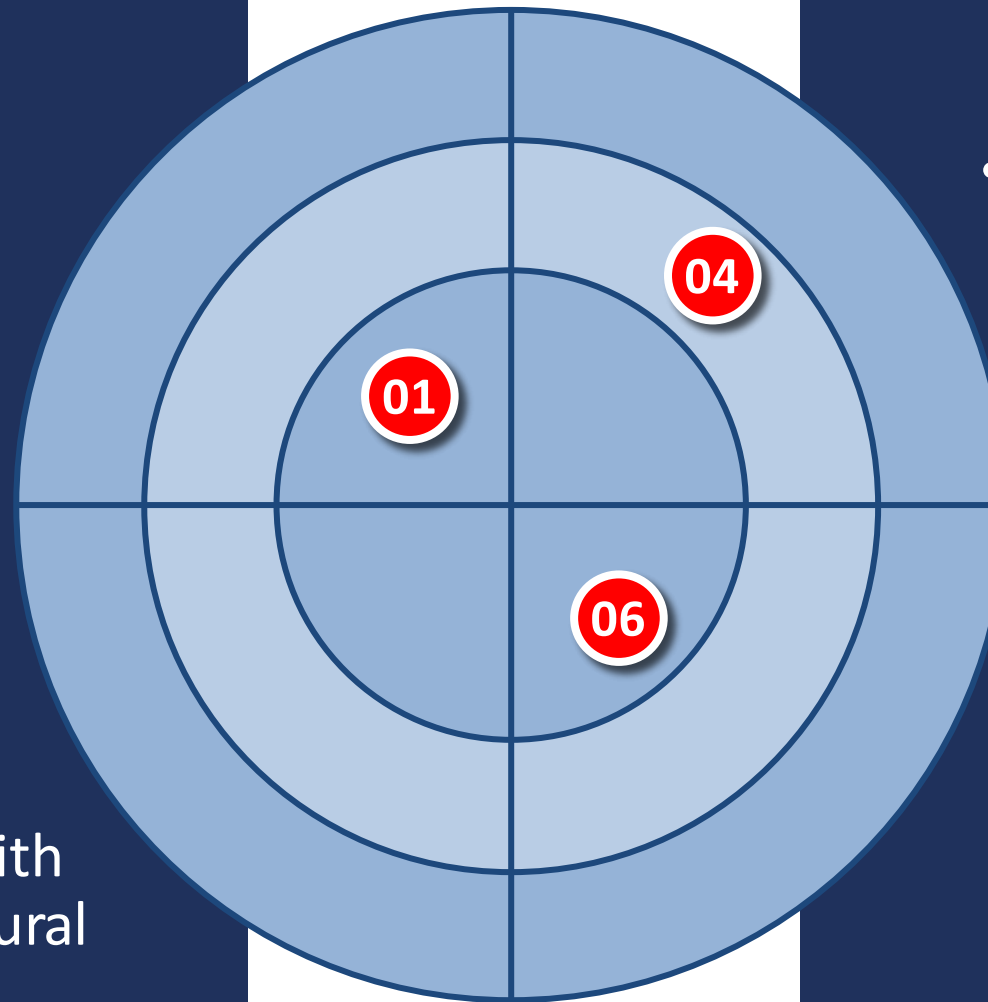
# Kept in place from 2024

## 01 scarcity of cybersecurity talent

- Structural shortage of skilled cyber security workforce
- Need to invest in recruitment and optimise conditions to retain staff for a career in cyber security

## 06 supply chain integrity concerns

- HW/SW supply chains come with systemic risks that need structural attention
- Initiatives like GSMA's NESAS address the issue to some extent, but do not cover all associated risks (nor all relevant equipment)



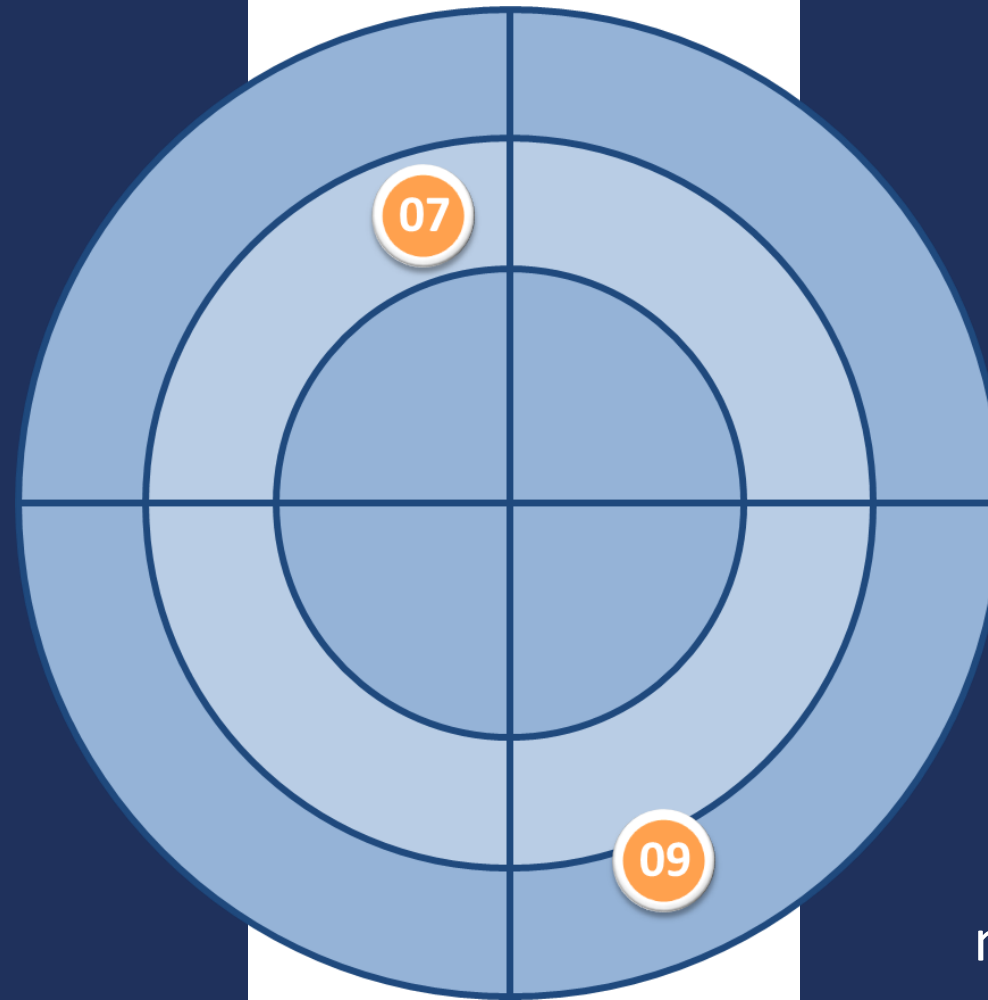
## geopolitical tension 04

- Geopolitics can affect availability of specific equipment and (spare) parts or make the energy supply less stable, potentially impacting telco service continuity
  - Some governments may impose restrictions on working with specific vendors or providers due to national security concerns

# New entries

## 07 telco adoption of AI technologies

- AI will become prominent in telco network management and 6G. Telcos will need to protect the underlying technology/ algorithms to ensure reliability.
- On a more generic level there is a need to safeguard sensitive data whenever telco employees use publicly available LLMs.
- On the positive side, AI will likely drive fundamental enhancements in cyber defense.



## quantum computing 09

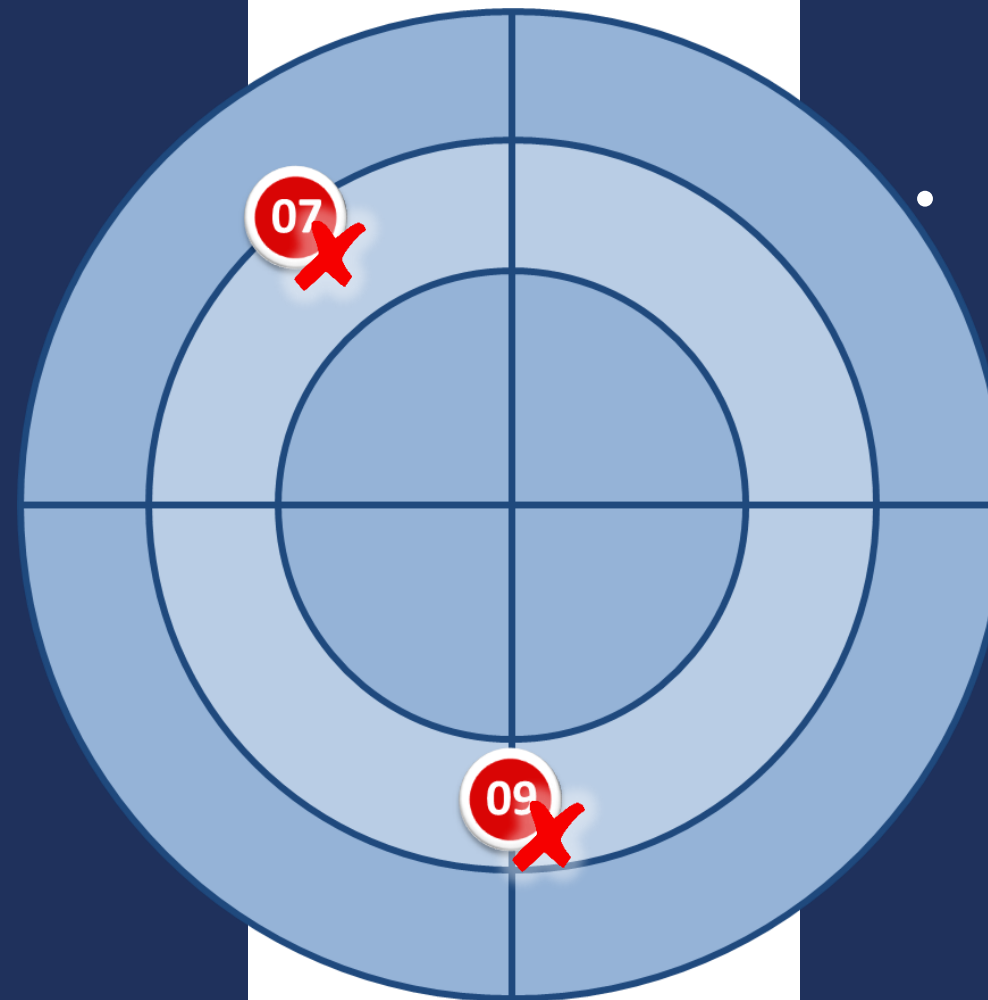
- Much of the crypto that telcos presently rely on is vulnerable to cryptanalysis by quantum computers. Growing sense of urgency to plan for migration to PQC, a.o. in view of “harvest now, decrypt later” threat.
  - At the same time quantum computing may offer telcos new opportunities for securing their networks and supplying more secure connectivity services.

# Unlucky dropouts

## widening of telco eco-system

- Security implications of expanding telco ecosystem, both in technologies (e.g. cloud, OpenRAN) and market players

updated insight:  
things have been changing for a few years and it has not become a problem

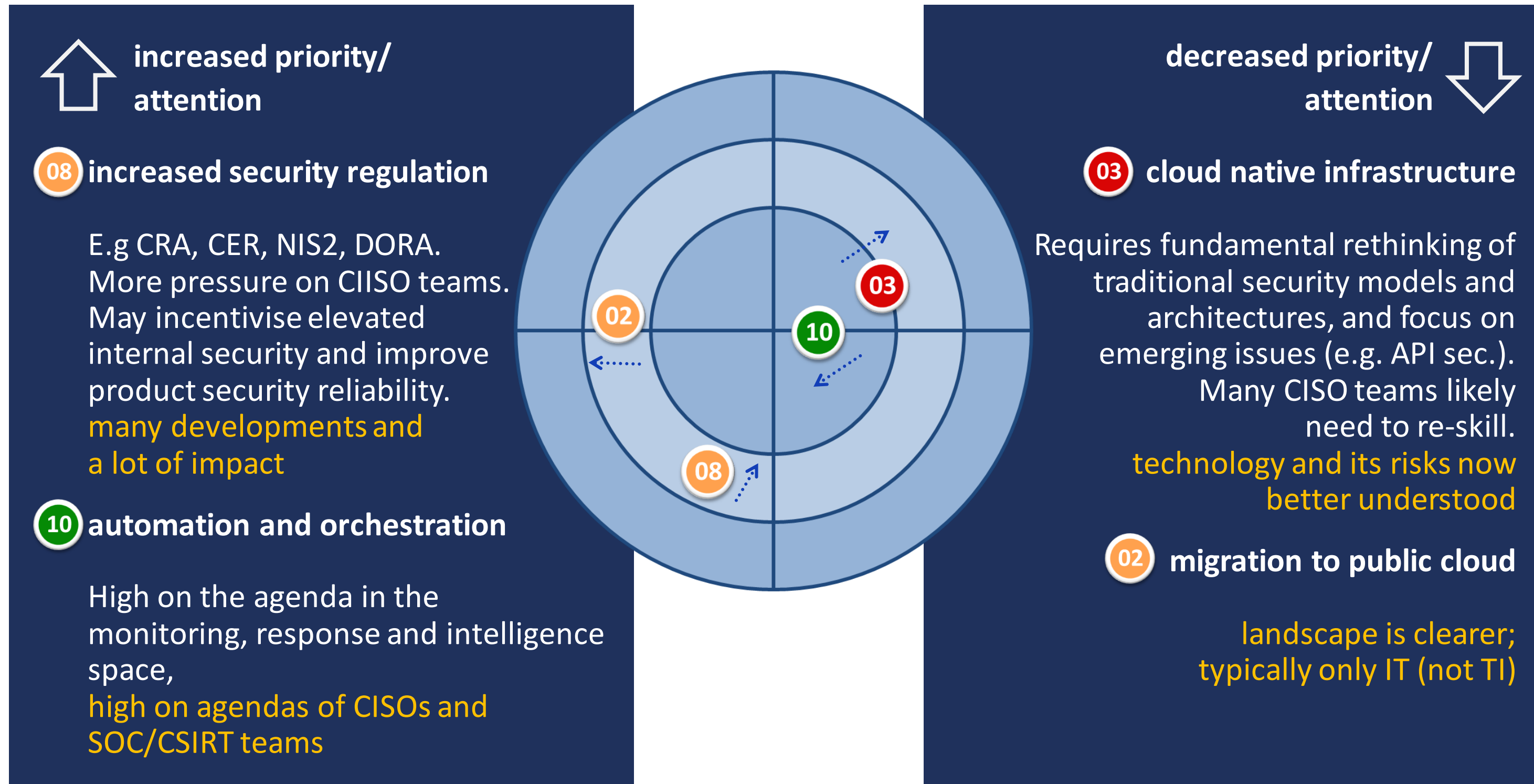


## limitations of legacy equipment

- Legacy alongside newer tech results in complex environment that is hard to protect. Seen as urgent because migration to cloud increases exposure.

updated insight:  
problem is diminishing and will likely resolve itself over time

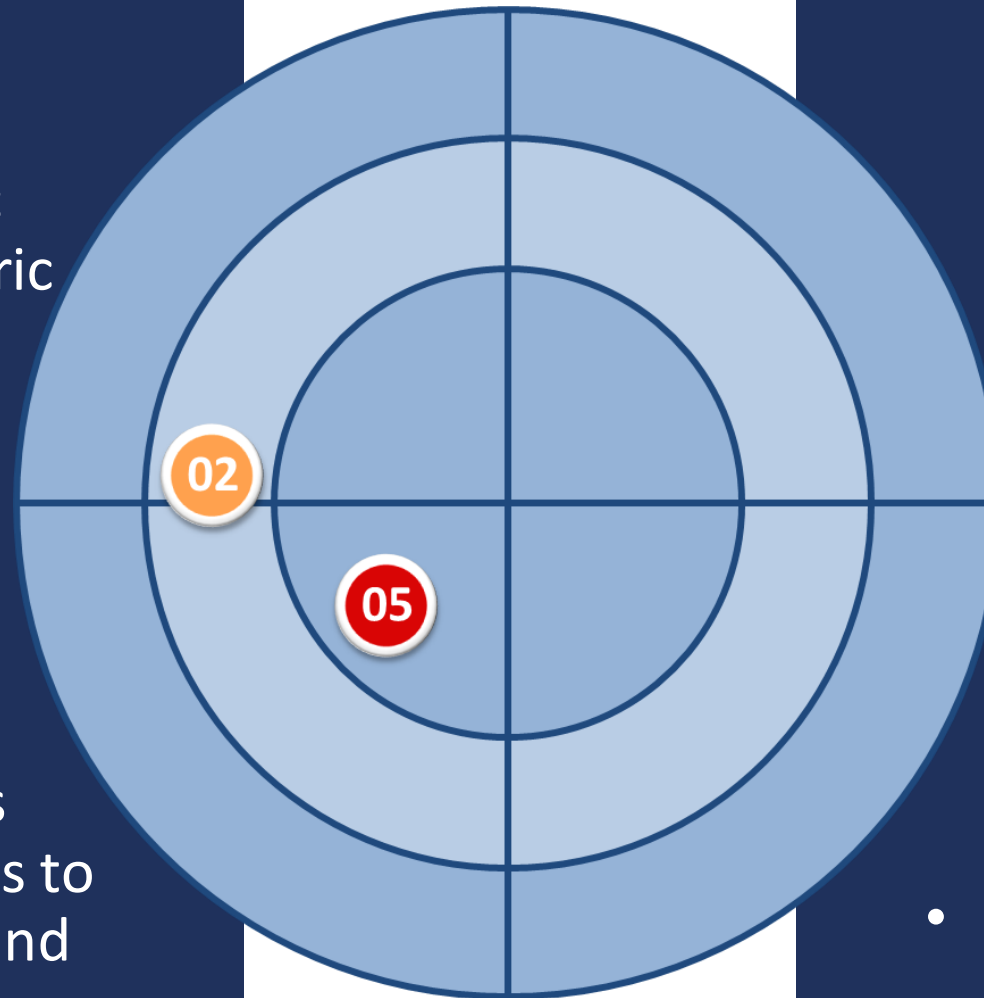
# Ascenders and descenders



# Descriptive refinements

## 02 migration to public cloud

- Moving telco systems to public cloud implies reliance on generic certifications (e.g. ISO/IEC 27001 or 27017). Need to assess more closely under which circumstances this will suffice.
- Allocation of security relevant responsibilities between telcos and their cloud providers needs to be understood in more detail and appropriately acted upon.
- add: also a source of shadow IT – business known to acquire SaaS outside of regular procurement



## third party dependency 05

- Security in core telco ops. often relies heavily on capability of vendors to which particular (maint.) duties are outsourced.
- Governance can be challenging. Will likely become more complex as telcos increasingly integrate native SW dev. pipelines with those of their suppliers
- add: managing (remote) third party access to telco owned infrastructure is challenging, processes put in place to this end are often flawed

# Feature article: BT's journey in third party security

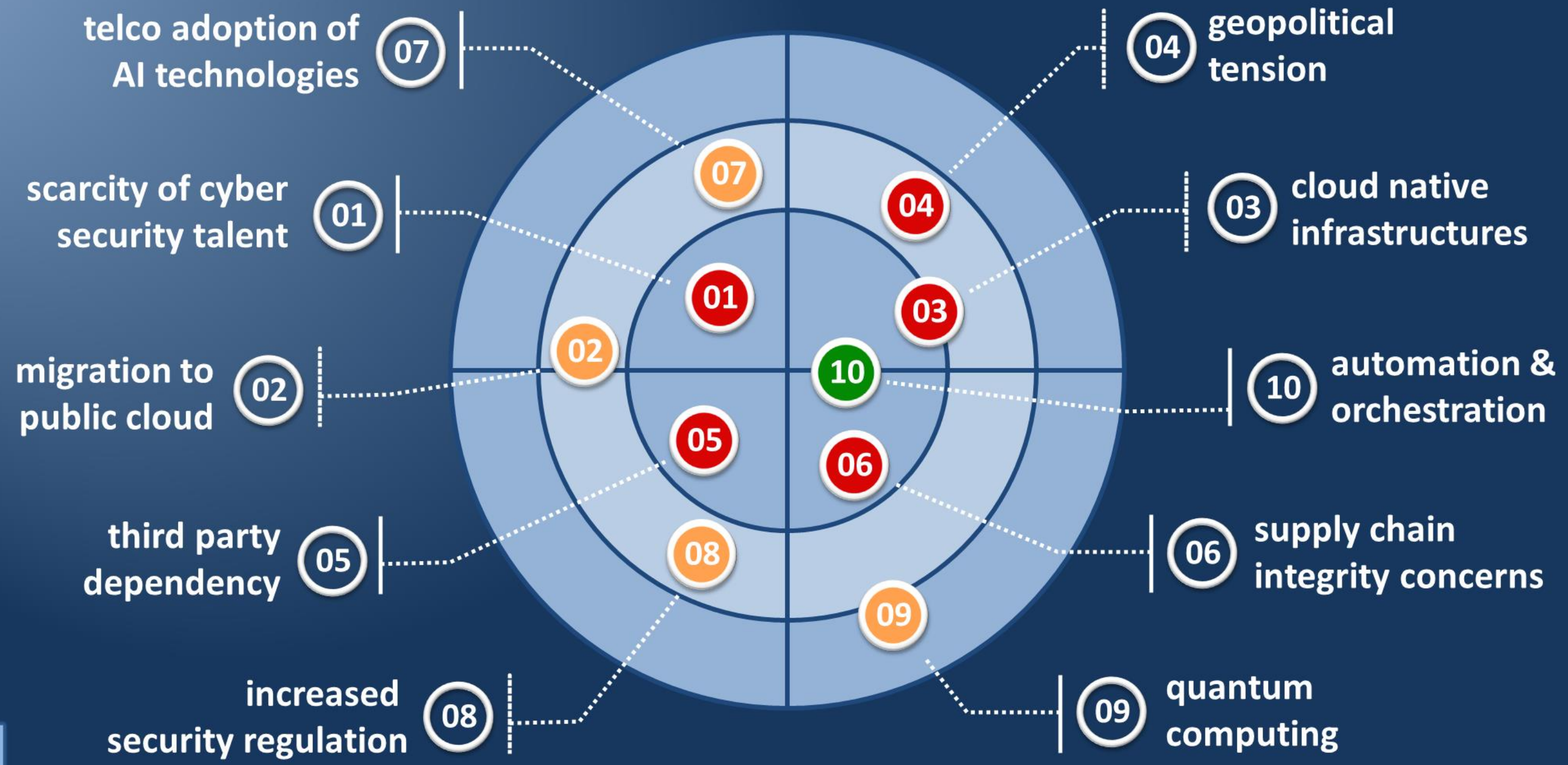


**Dominic Wood**  
Security Governance and  
Assurance Director  
at British Telecom

“Third party dependency and Supply chain integrity concerns rightly continue to be near-term risks which all telcos need to act upon.

In fact, the theme of supply chain security features to a greater or lesser extent in all 10 themes within this year's Telco Security Landscape.”

*- Dominic Wood, BT*



# Thank you for your attention



**Rolv R. Hauge**  
*BCM Manager,  
Telenor Norway*

+47 91138287  
rolv.hauge@telenor.no



The Telco Security Landscape 2024 (pub. ed.)  
<https://www.etis.org/papers>

The ET-ISAC  
[isac@etis.org](mailto:isac@etis.org)  
<https://www.etis.org/european-telecommunications-isac>

The Etis logo, consisting of the word "Etis" in a blue, italicized, serif font.