



**ERICSSON**

# SUPPLY CHAIN INTEGRITY AND SECURITY ASSURANCE FOR ICT

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# THE STARTING POINT



2 B INTERNET  
USERS



85% POPULATION  
COVERAGE



5+ B MOBILE  
SUBSCRIPTIONS



10 YEARS OF  
DAILY  
UPLOAD



E-BOOKS  
SURPASSING  
PRINT SALES



200.000  
SMS EACH  
SECOND

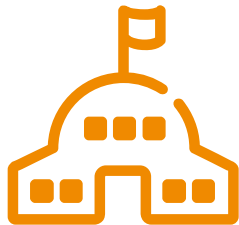
# CYBERSECURITY AND MOBILITY



# CYBER SECURITY PERSPECTIVES



REGULATIONS & STANDARDS



OPERATORS OF INFRASTRUCTURE



INFRASTRUCTURE VENDORS



THREATS & RISKS



# THREATS AND RISKS

- › User behavior
- › Malicious threats
- › Devices and applications
- › Mobile device, application and content management
- › Machine to Machine networks
- › Emerging areas:
  - Cloud, HetNets, Big Data



THREATS & RISKS



COMPLEX  
AND  
RAPIDLY  
EVOLVING  
ENVIRONMENT

# OPERATOR OF INFRASTRUCTURE

- › Business and Society is highly dependent of Mobile Networks
- › Secure resilience to cyber incidents
  - Harden infrastructure
  - Improve ability to defend
  - Recover quickly – business continuity

INFRASTRUCTURE  
OPERATORS



MANAGE  
CONDITIONS  
AND  
CONSEQUENCES  
OF  
CYBER RISKS

# VENDOR OF INFRASTRUCTURE

- › Product Security Properties
- › Security assurance in product development and supply chain
- › Security in Network Deployment and Operations
- › Pro-active industry Collaboration

INFRASTRUCTURE VENDORS



ENABLER  
FOR  
REDUCING RISKS  
AND IMPROVING  
RESILIENCE

# SECURITY TRENDS (I)



new devices

new communication  
patterns

new applications

new networks  
HetNet/SDN

mobile broadband

cloud  
and  
big data



# SECURITY TRENDS (II)



## NETWORK

**Network evolution to mobile broadband**  
**Network is critical infrastructure for consumers, business and public services**

## DEVICES

**Devices:**  
**Phones transforming into computers and entertainment**

## APPLICATIONS

**Applications:**  
**Mobile malware, e-payment attacks, botnets**

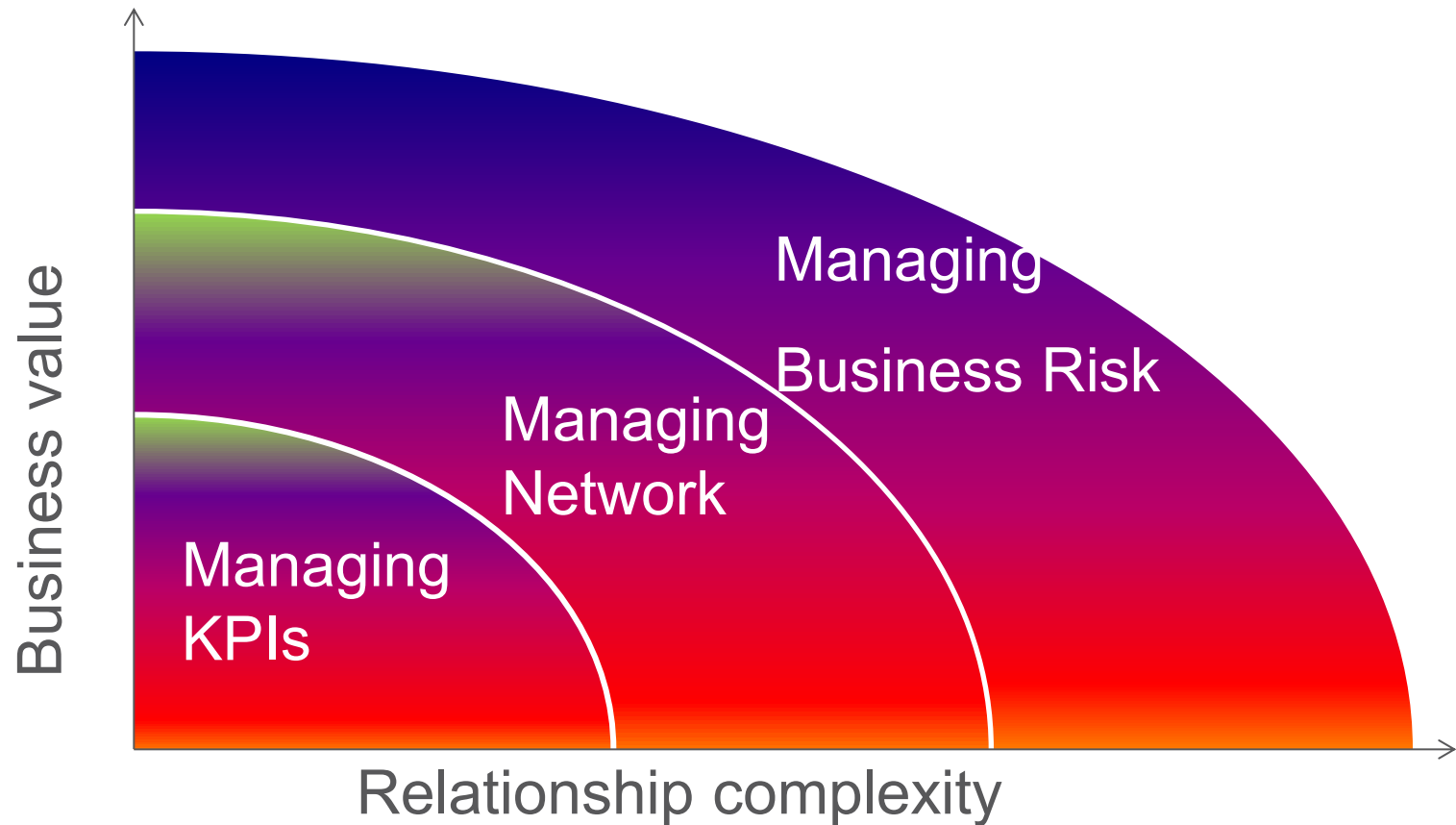
## CONTENT

**Content:**  
**Secure storage, transmission and sharing**

## TECHNOLOGY

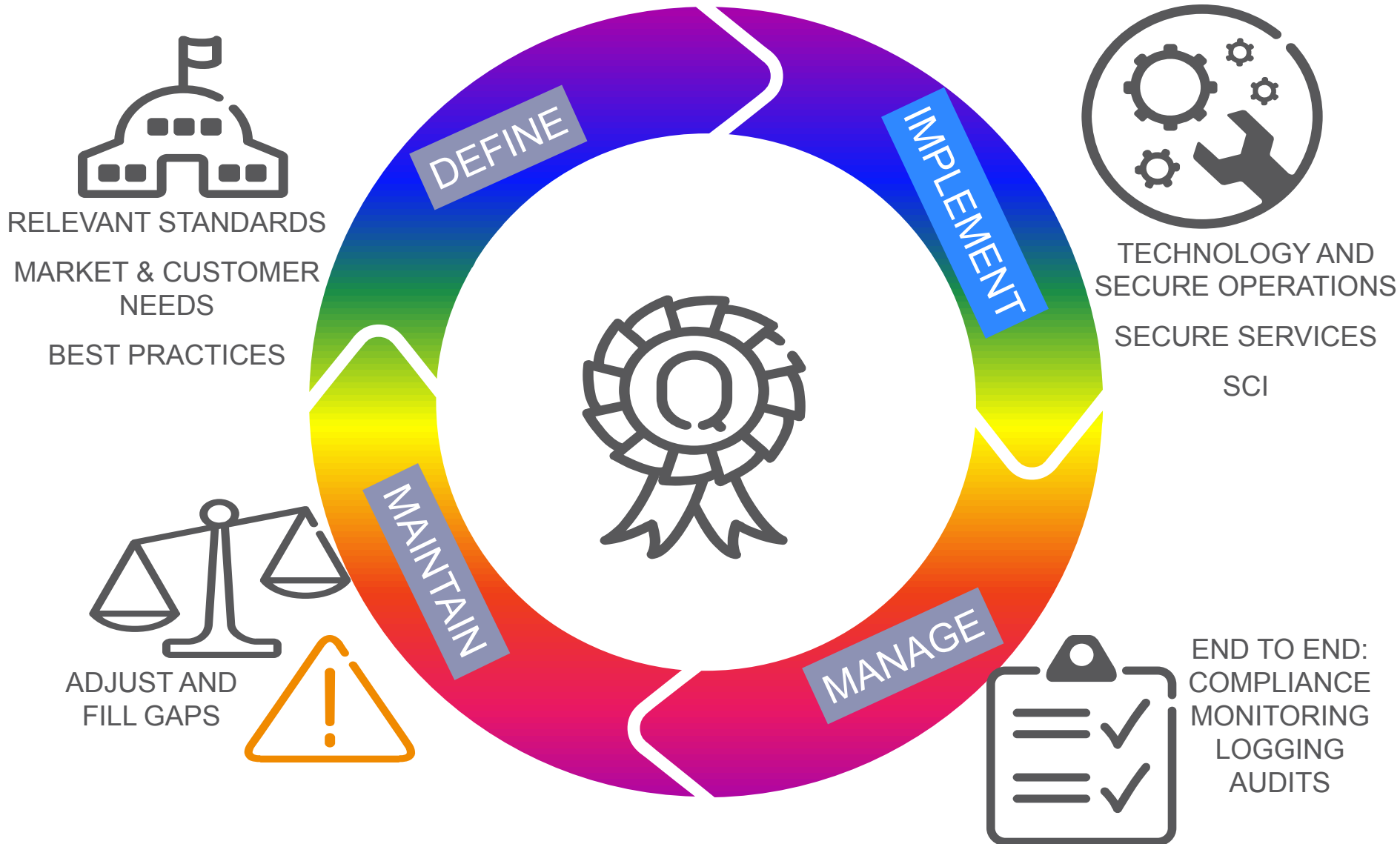
**Technology:**  
**Open source software**  
**Cloud and Big Data analytics**

# EVOLVING TO MEET CUSTOMER EXPECTATIONS



**Trust is gained by a systematic approach to threats across the whole environment, including SCI**

# ERICSSON APPROACH ON SECURITY



# OUR PERSPECTIVE



## IMPROVE RESILIENCE

- › Secure network infrastructure to be more resilient
- › Work with operators to maintain business optimal security in their networks
- › Industry guidance through standards and best practices
- › SCI part of risk assessment and mitigation through appropriate controls (similar to own R&D)

## REDUCE CYBER SECURITY RISK

- › Daily co-operation and collaboration via CERT community to improve ability to defend and recover

# FUTURE DIRECTIONS



## REDUCE CYBERSECURITY RISK

- Leadership in the industry ecosystem: networks, devices, applications
- Collaboration in regulations, standards and industry bodies

## IMPROVE NETWORK RESILIENCE

- Secure network infrastructure for resilience
- Work with operators to maintain security in their networks

## EDUCATION & COMMUNICATION

- Educate and communicate with users
- Anticipate threats and develop innovative solutions



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