



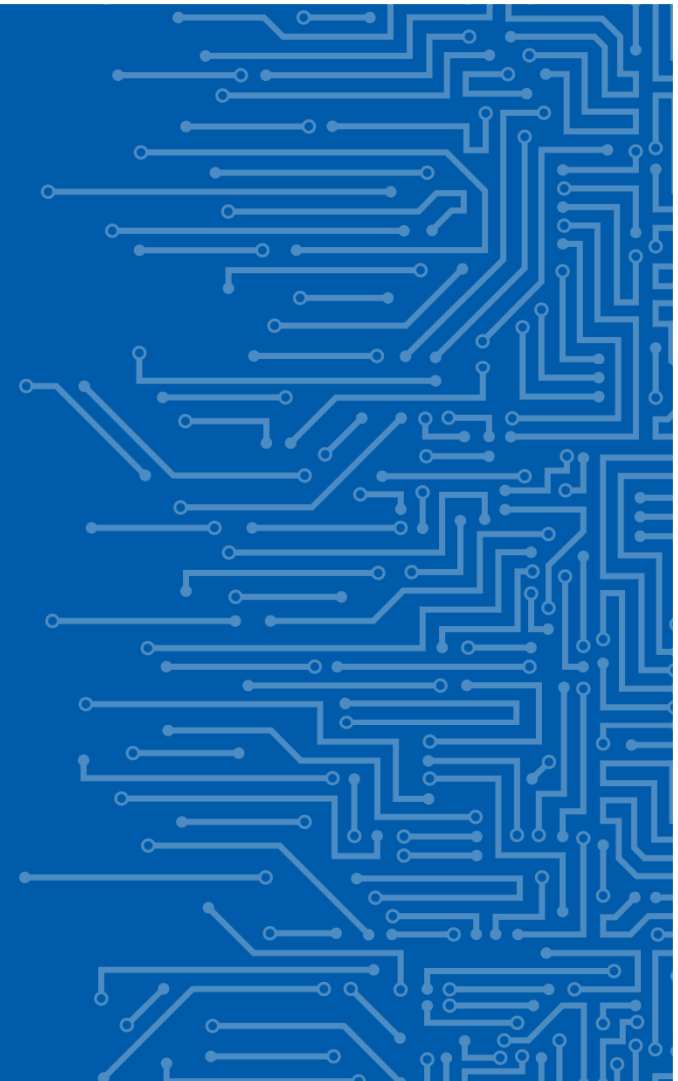
THE EU CYBERSECURITY AGENCY

CYBERSECURITY CHALLENGES TO EUROPE: RESEARCH, POLICY AND STANDARDIZATION EFFORT

Fabio Di Franco, Ph.D.

ETSI Cyber Security: Landscape

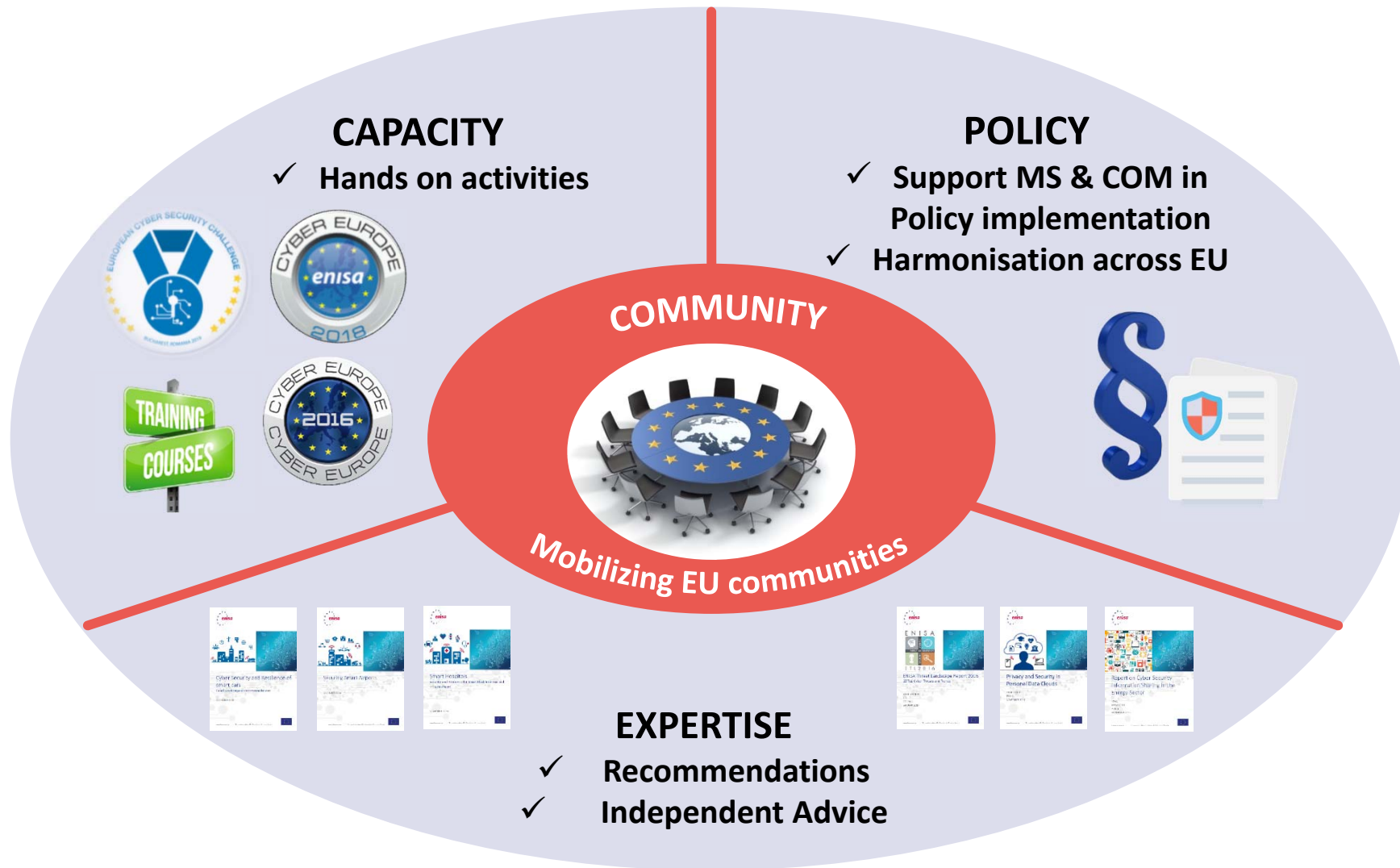
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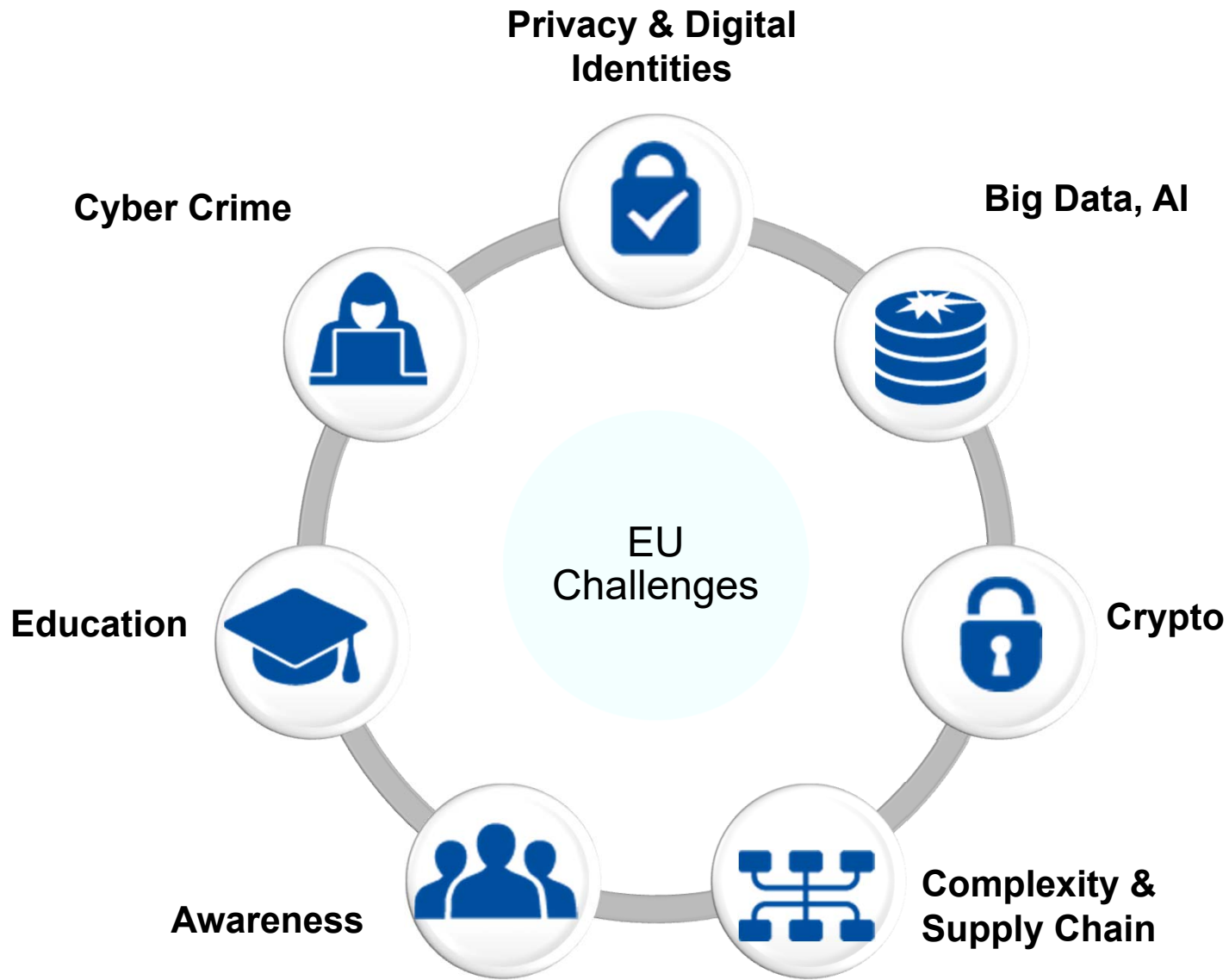


SECURING EUROPE'S INFORMATION SOCIETY



POSITIONING ENISA ACTIVITIES







Education
Capacity
Building

Cybersecurity
in computing

Multidisciplinary
Approach

Simulation and
visualization

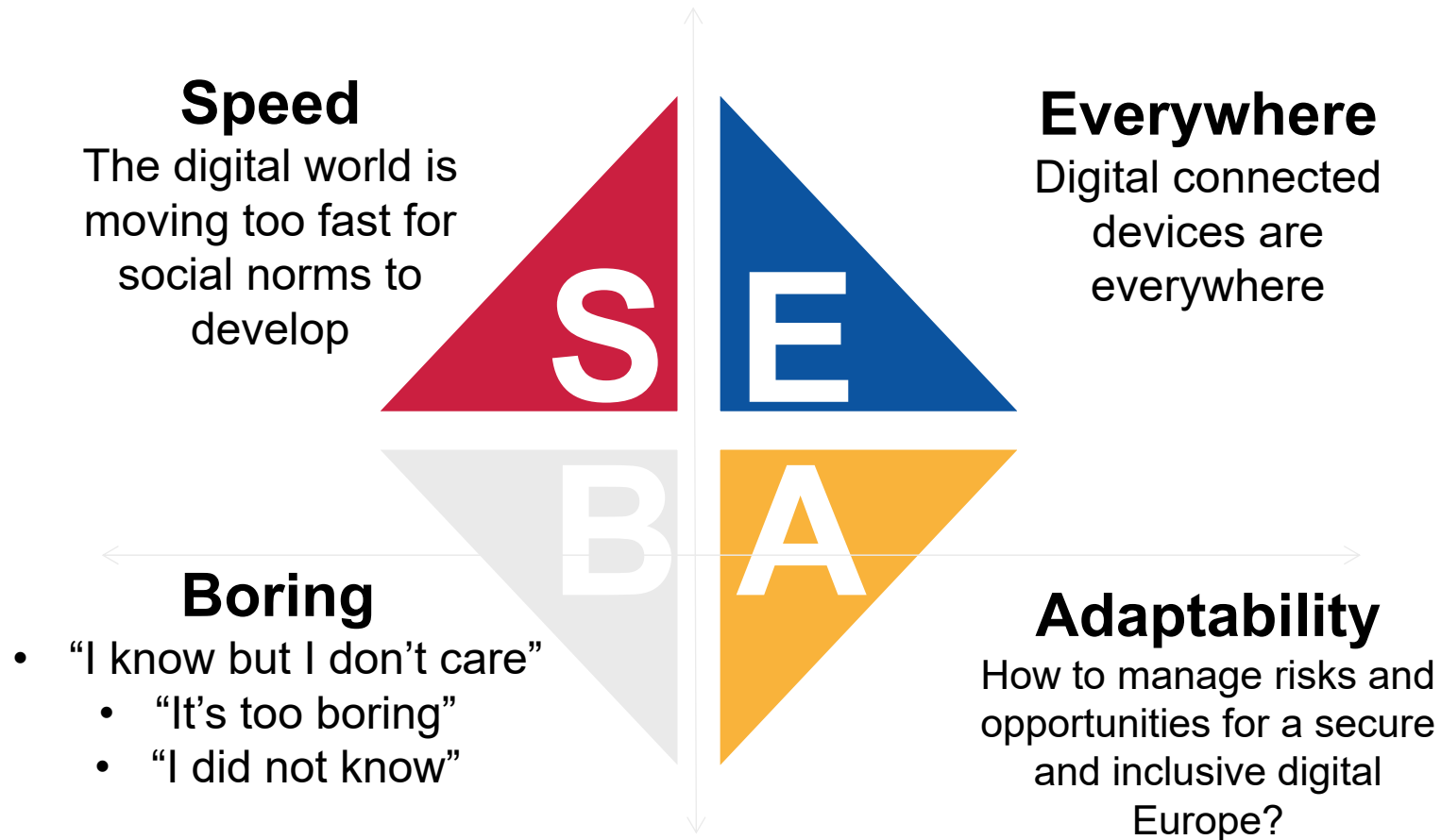
- Software security is not included in the standard educational programs
- Security and privacy by design are often taught only in specialized courses

Technical, Human, Organizational and Regulatory have different incentives, views, knowledge bases, languages

More exercises and cyber range for testing operational and technical skills

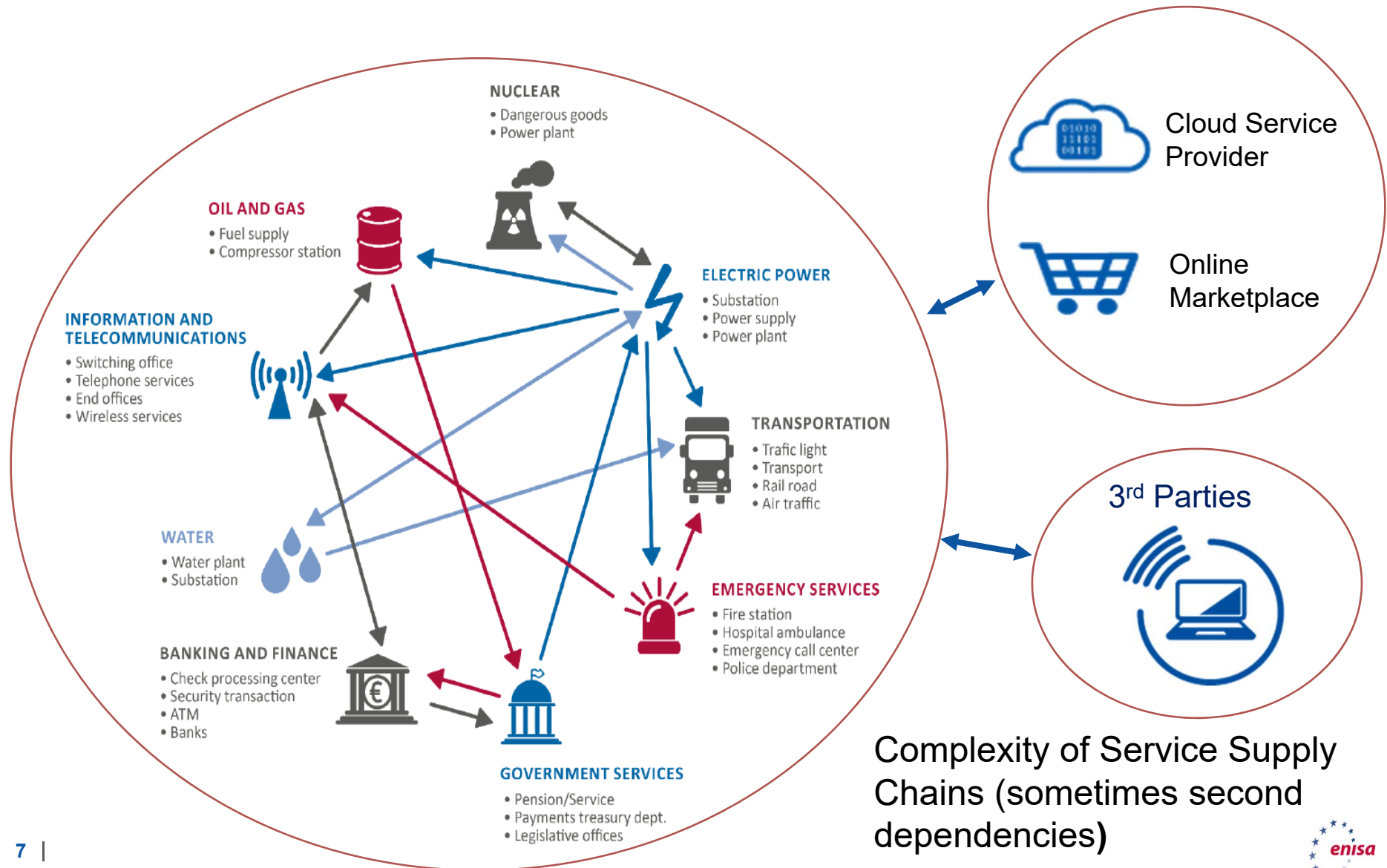


Awareness Building -Digital Transformation

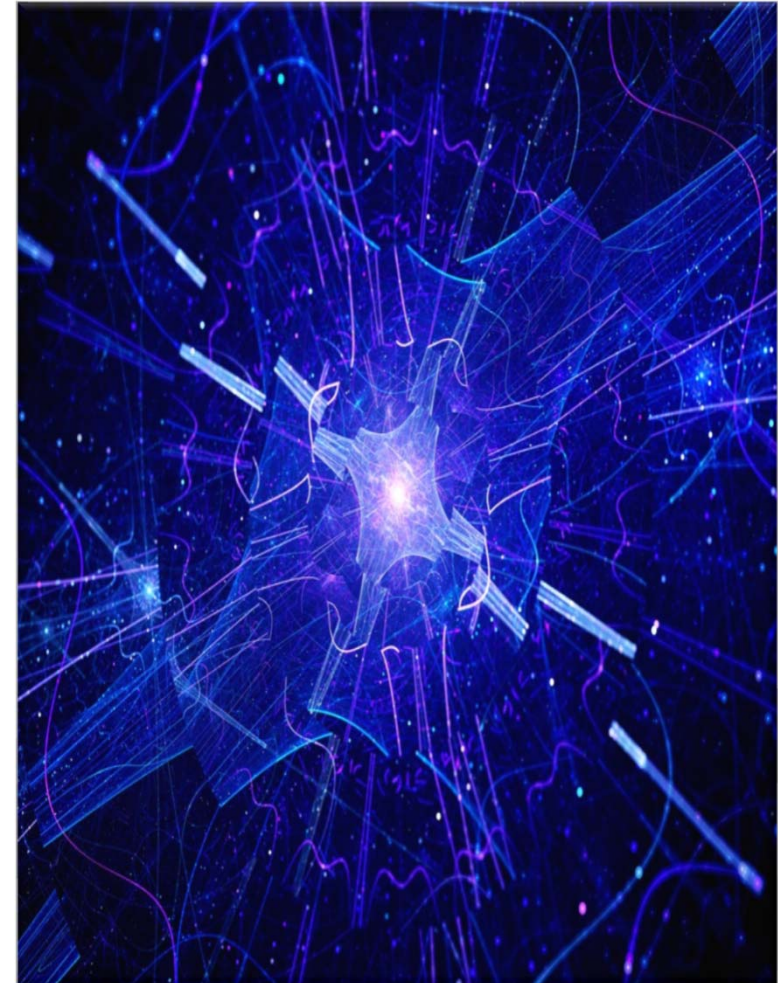
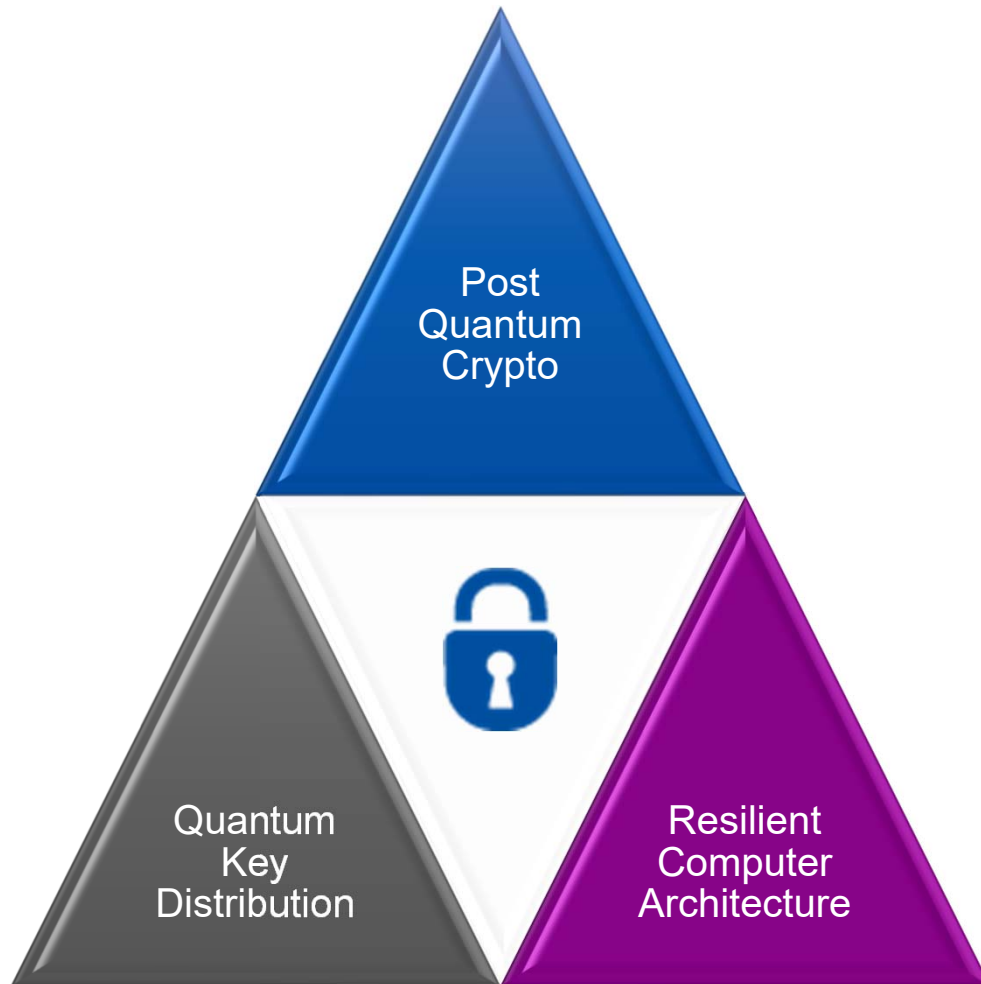




Complexity and Supply chain



Crypto System in Era of Quantum Computing

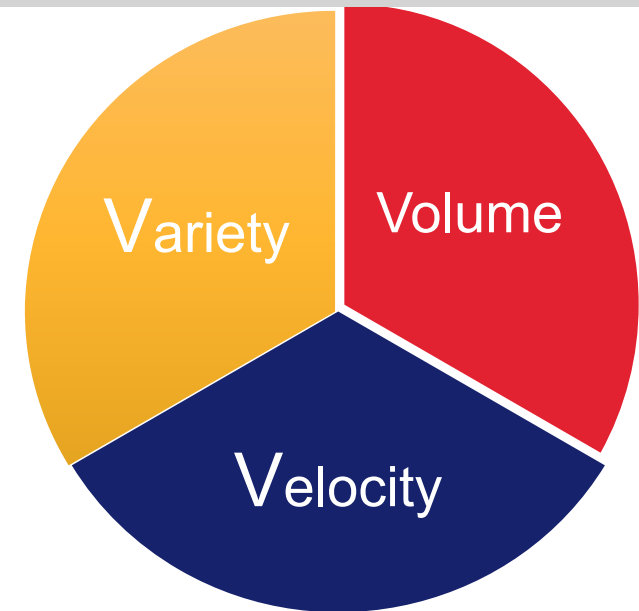




Privacy in Big Data & Digital Identities

BIG DATA Characteristics

RISK : electronic surveillance, profiling and disclosure of private data



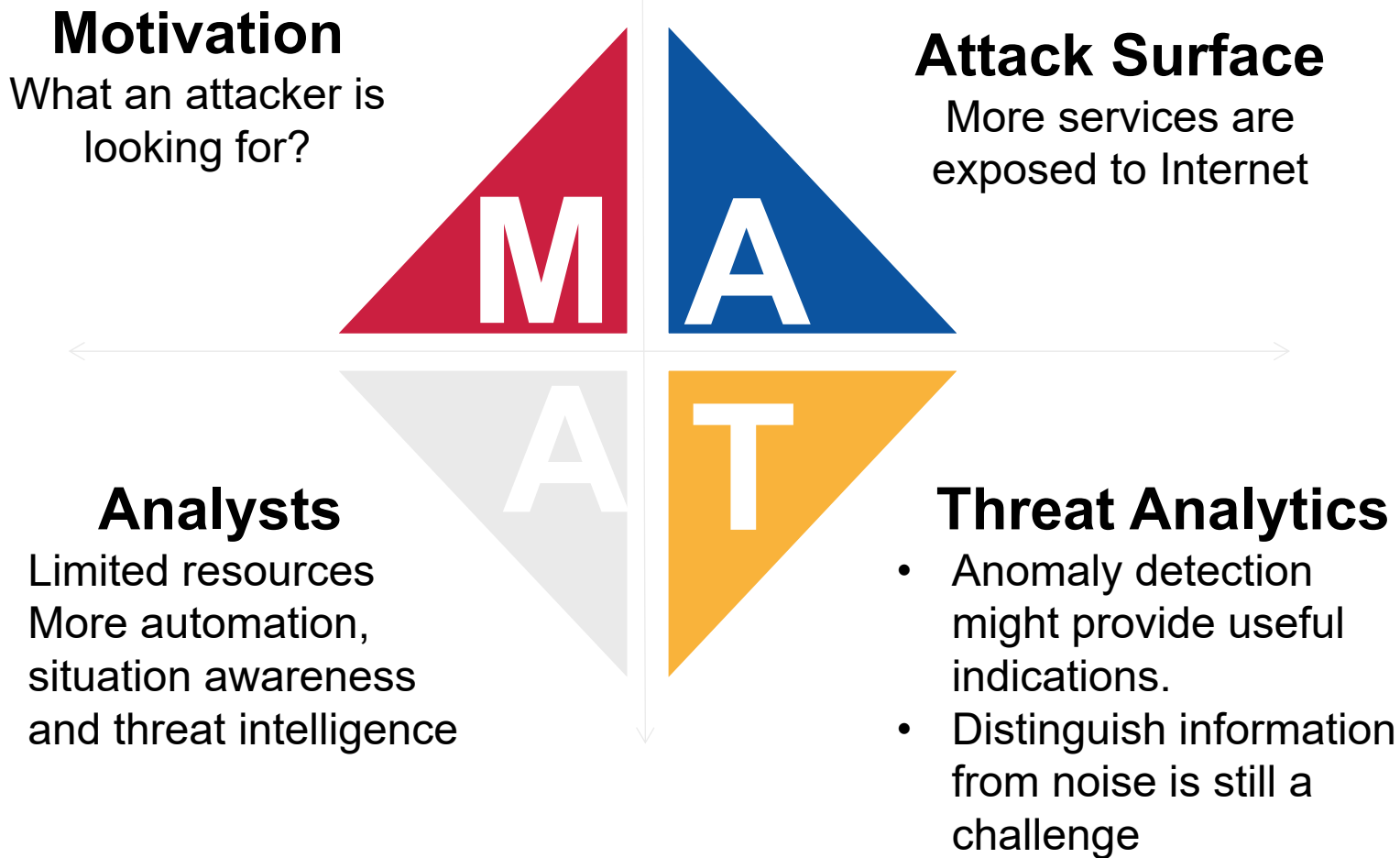
Privacy-By-Design challenges:

- Efficient Privacy-Preserving Analytics (better if decentralized)
- Support and automation of policy enforcement
- PET in big data





Detection, Mitigation against Cyber Attacks





AI capabilities & maturity level

AI Capabilities



SENSE



COMPREHEND



ACT



LEARN

Automated intelligence:

Automation of manual/cognitive and routine/non-routine tasks.



Assisted intelligence:

Helping people to perform tasks faster and better.



Augmented intelligence:

Helping people to make better decisions.



Autonomous intelligence:

Automating decision making processes without human intervention

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THANK YOU FOR YOUR ATTENTION

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