CONCORDIA

Cyber security cOmpeteNCe fOr Research anD InnovAtion

Prof. Dr. Gabi Dreo

Executive Director of the Research Institute CODE

Coordinator of CONCORDIA

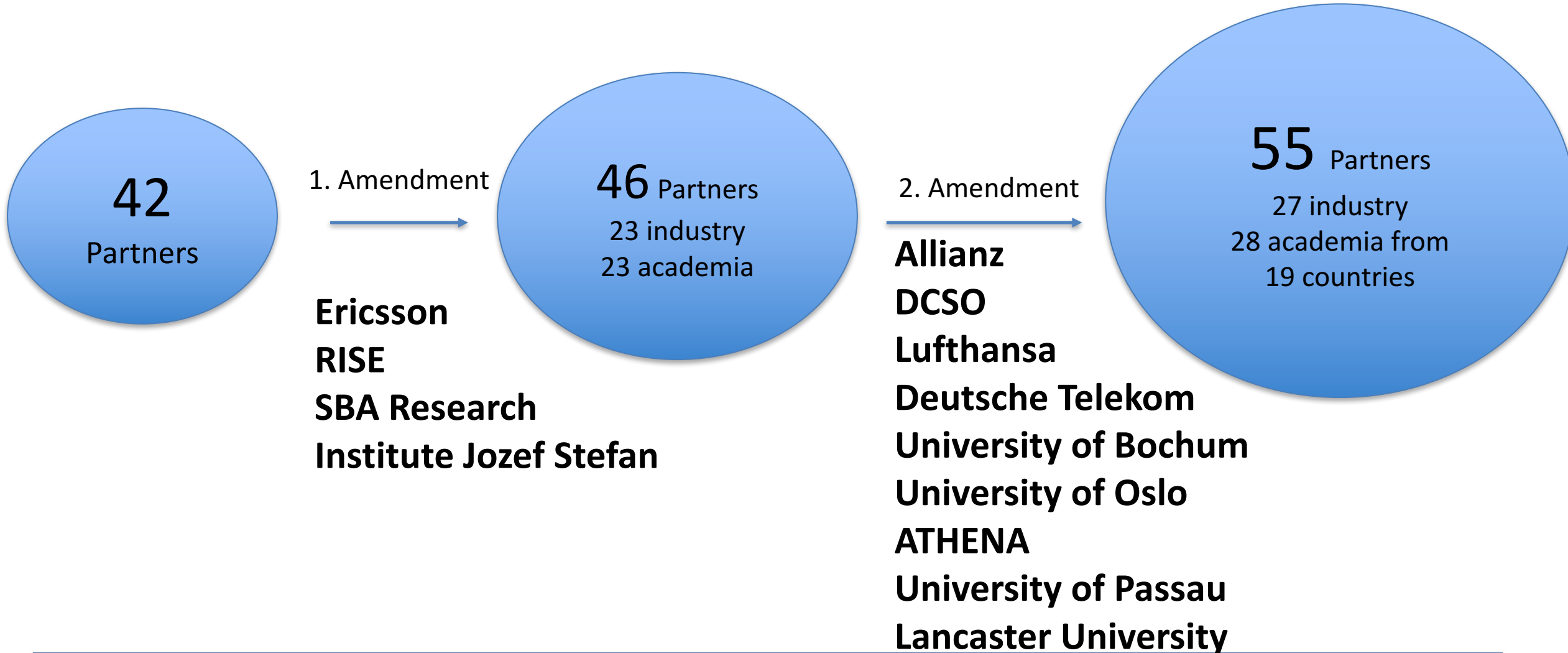# Vision: EU Leadership + Competitiveness + Growth

Technological, Business, Societal and Policy Innovation
Agile, Integrative & Inclusive Community Building

- Partners: 46 + (9)
  23 academia, 23 industry

- Countries: 19, 4 years

- Funding:
  16M from EU & 7M+ additionally from
  national authorities and industry

CONCORDIA is Growing

42 Partners

1. Amendment

46 Partners
23 industry
23 academia

**Ericsson
RISE
SBA Research
Institute Jozef Stefan**

2. Amendment

55 Partners
27 industry
28 academia from
19 countries

**Allianz
DCSO
Lufthansa
Deutsche Telekom
University of Bochum
University of Oslo
ATHENA
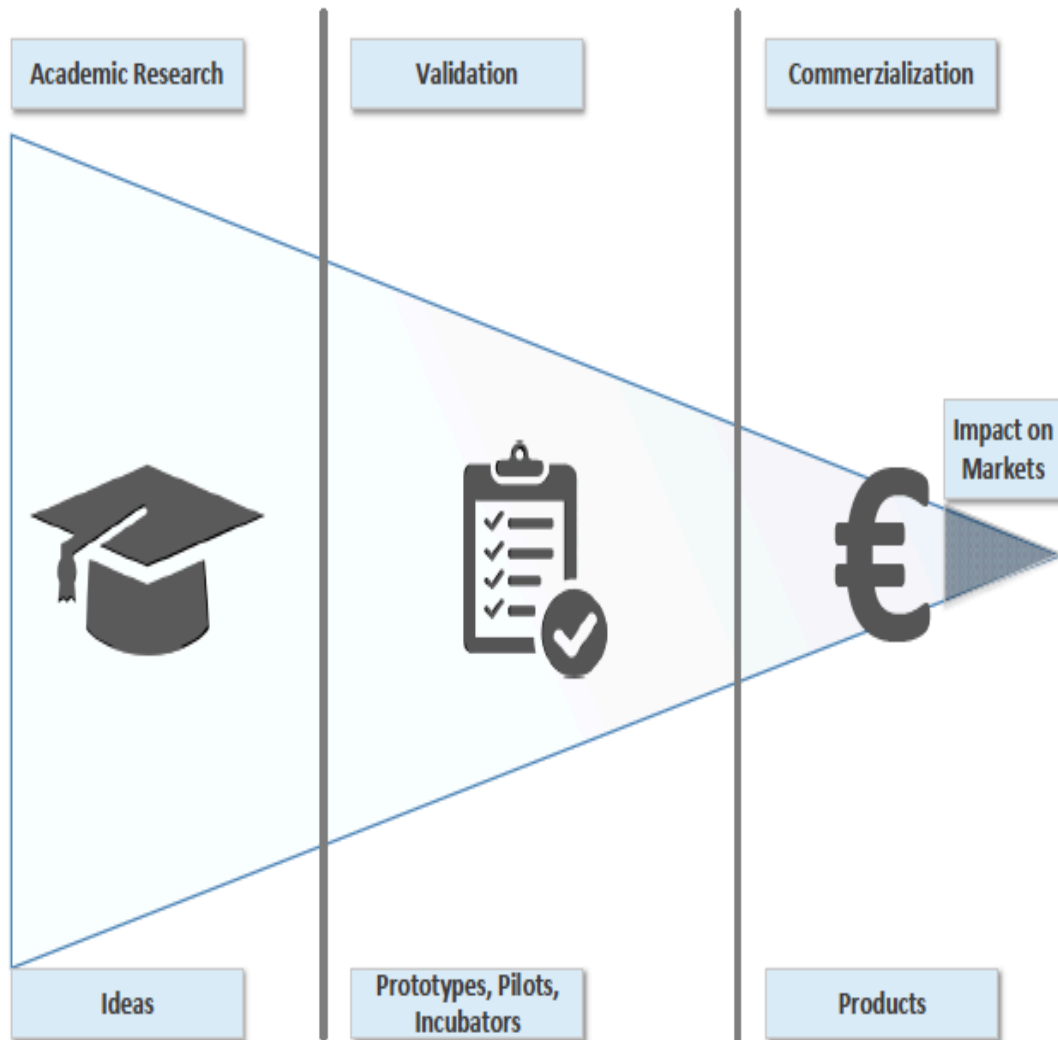University of Passau
Lancaster University**

Objectives (1)

- O1: Position the **CONCORDIA ecosystem,** a Cybersecurity Competence Network with leading research, technology, industrial and public competences to build the **European Secure, Resilient and Trusted Ecosystem**, with the CODE research center as coordinator and hub, and ENISA as secretary.

- O2: Using an **open, agile and adaptive governance model** and processes

- O3: Devise a **cybersecurity roadmap** to identify powerful research paradigms, to do hands-on experimental validation, prototype and solution development in an agile way to quickly identify successful but also unsuccessful potential product development

- O4: Develop next-generation cybersecurity solutions by taking a **holistic end-to-end data-driven approach**

- O5: Scale up existing research and innovation with **CONCORDIA's virtual lab and services**
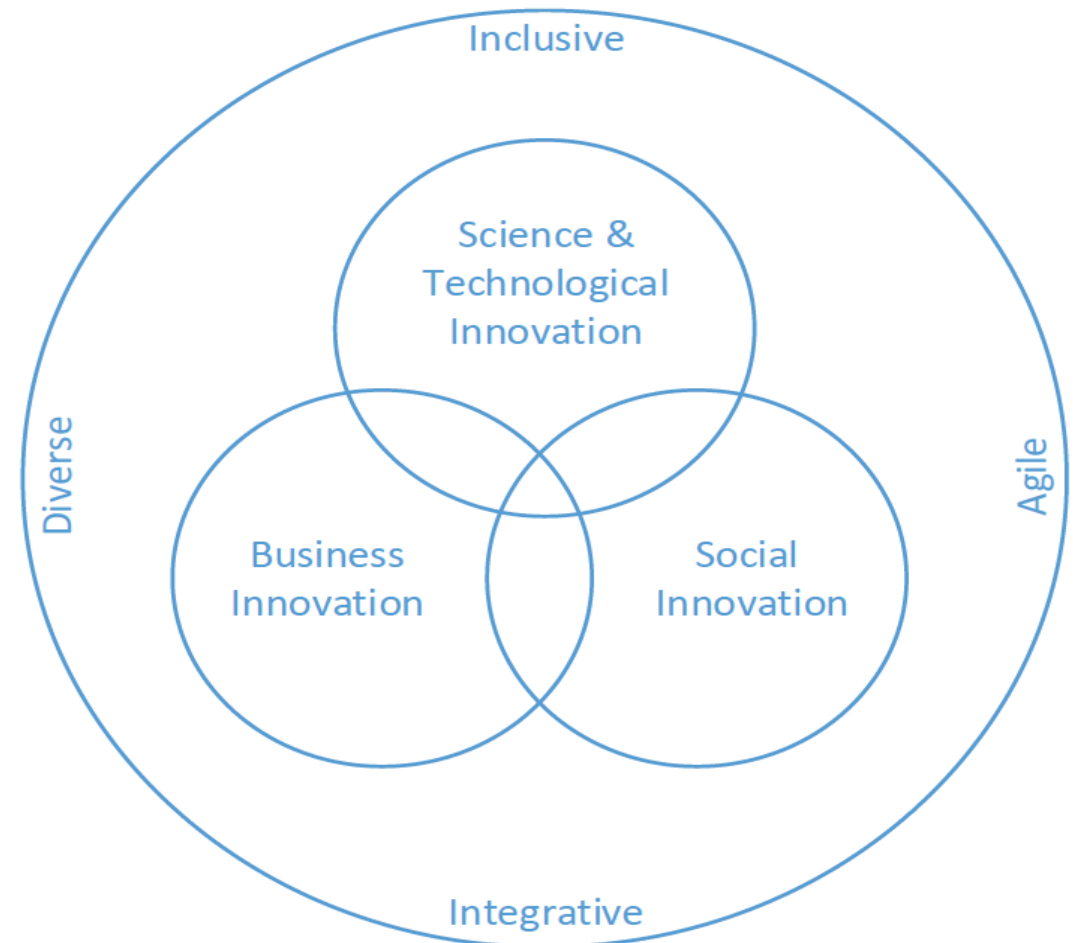
Objectives (2)

- O6: **Identify marketable solutions and grow pioneering techniques** towards fully developing their transformative potential
- O7: **Develop sector-specific (vertical) and cross-sector (horizontal) industrial pilots with building incubators**
- O8: Launch **Open Calls** to allow entrepreneurs and individuals to stress their solutions with the development
- O9: Set up an Advisory Board
- O10: Mediate between multiple communities
- O11: Establish an **European Education Ecosystem for Cybersecurity**
- O12: Provide **expertise to European policy makers and industry**

Strengthening the competitiveness and growth
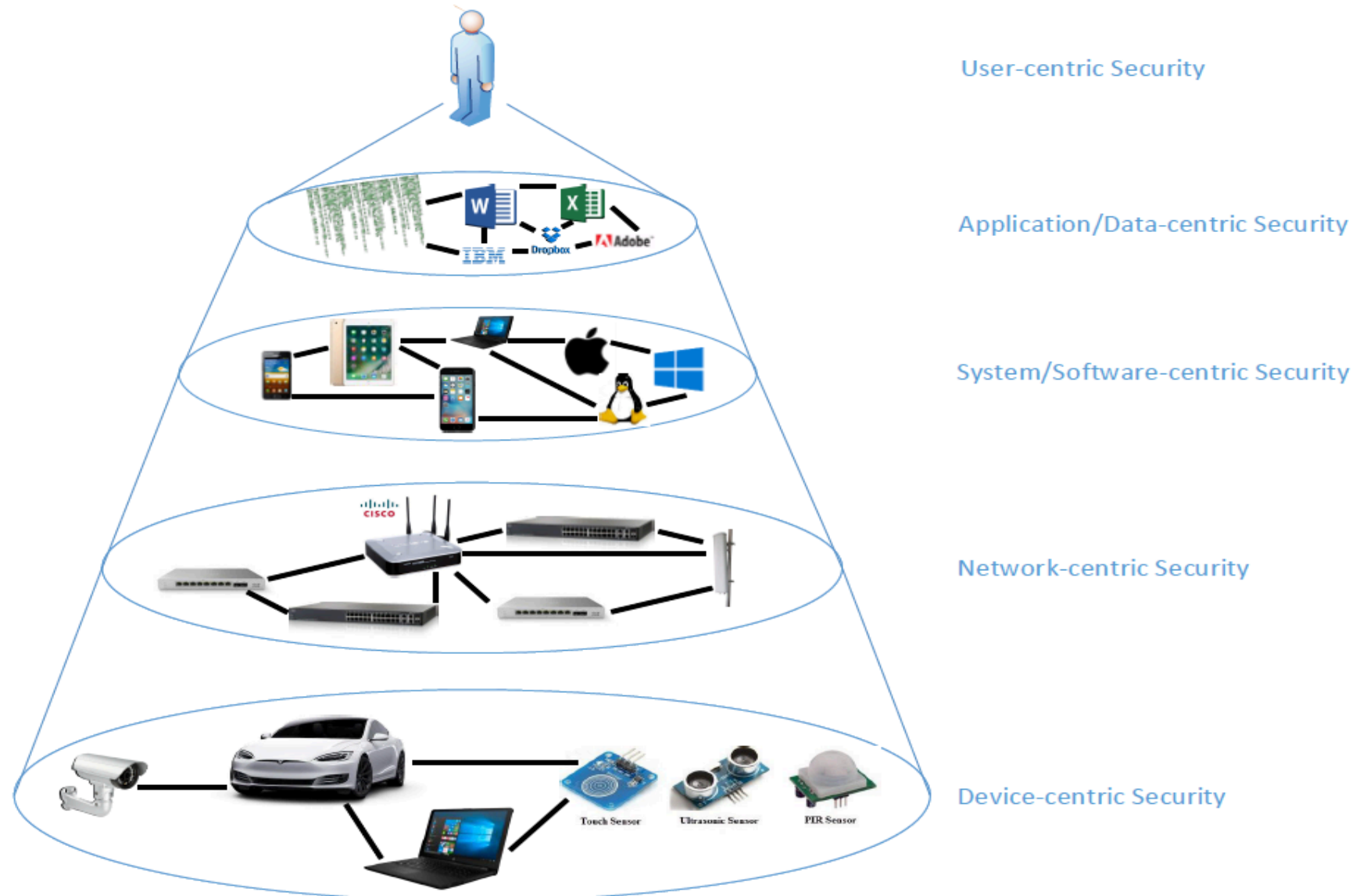

Innovation as key of success

What CONCORDIA stands for?

Developing Competences, Tech Transfer, Tools, Solutions, Services, Repositories, Education, Policies ➡️ *Community Building and Roadmap*
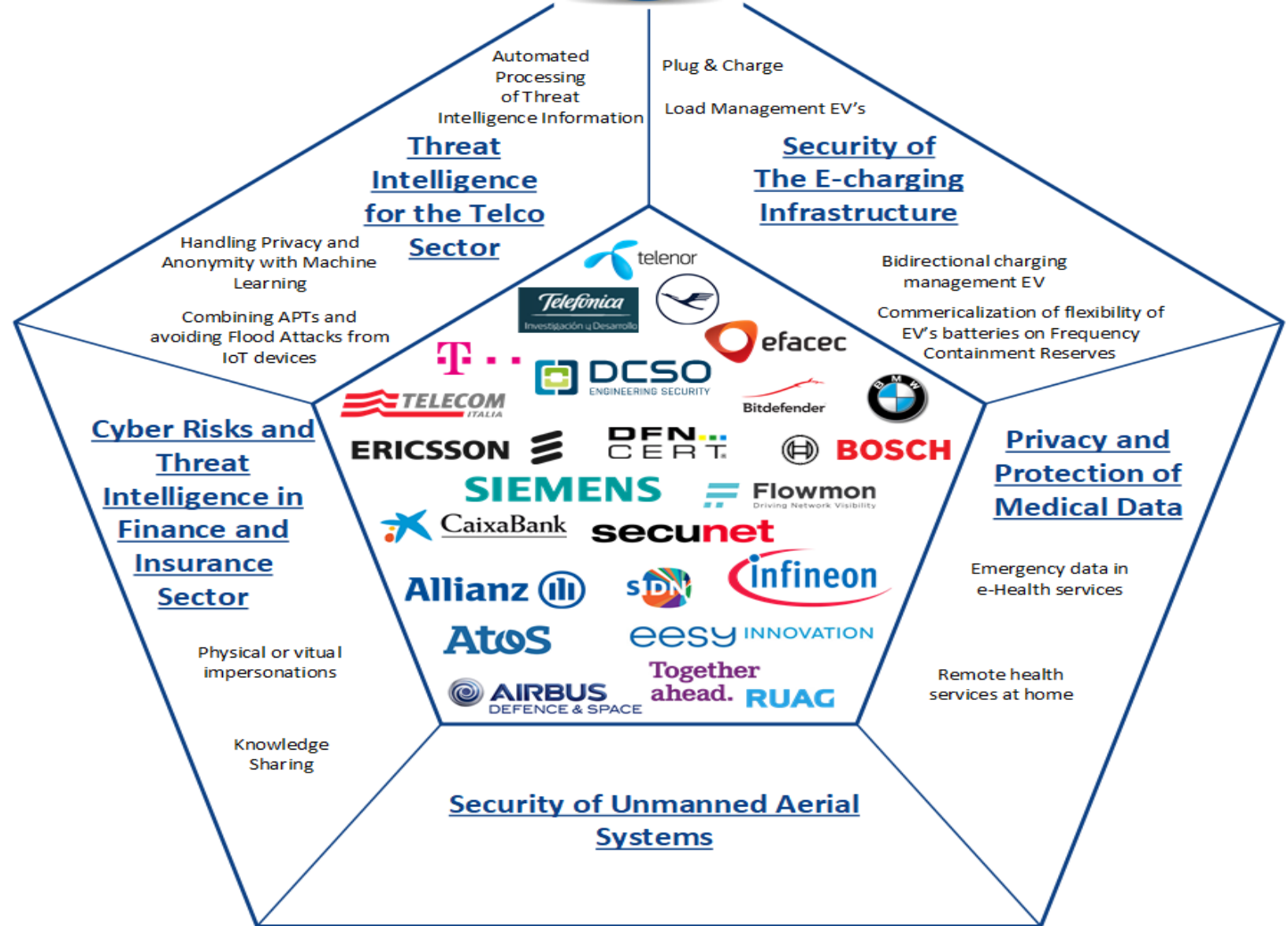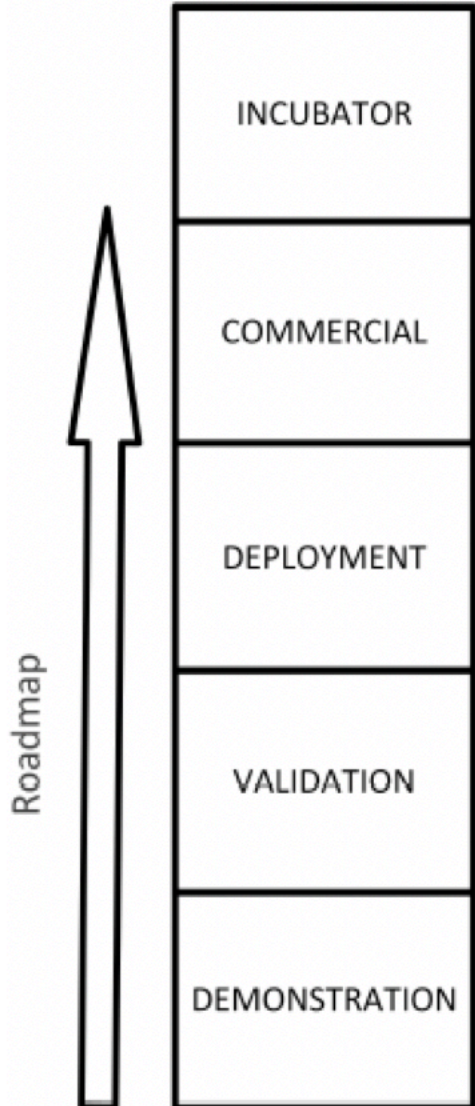
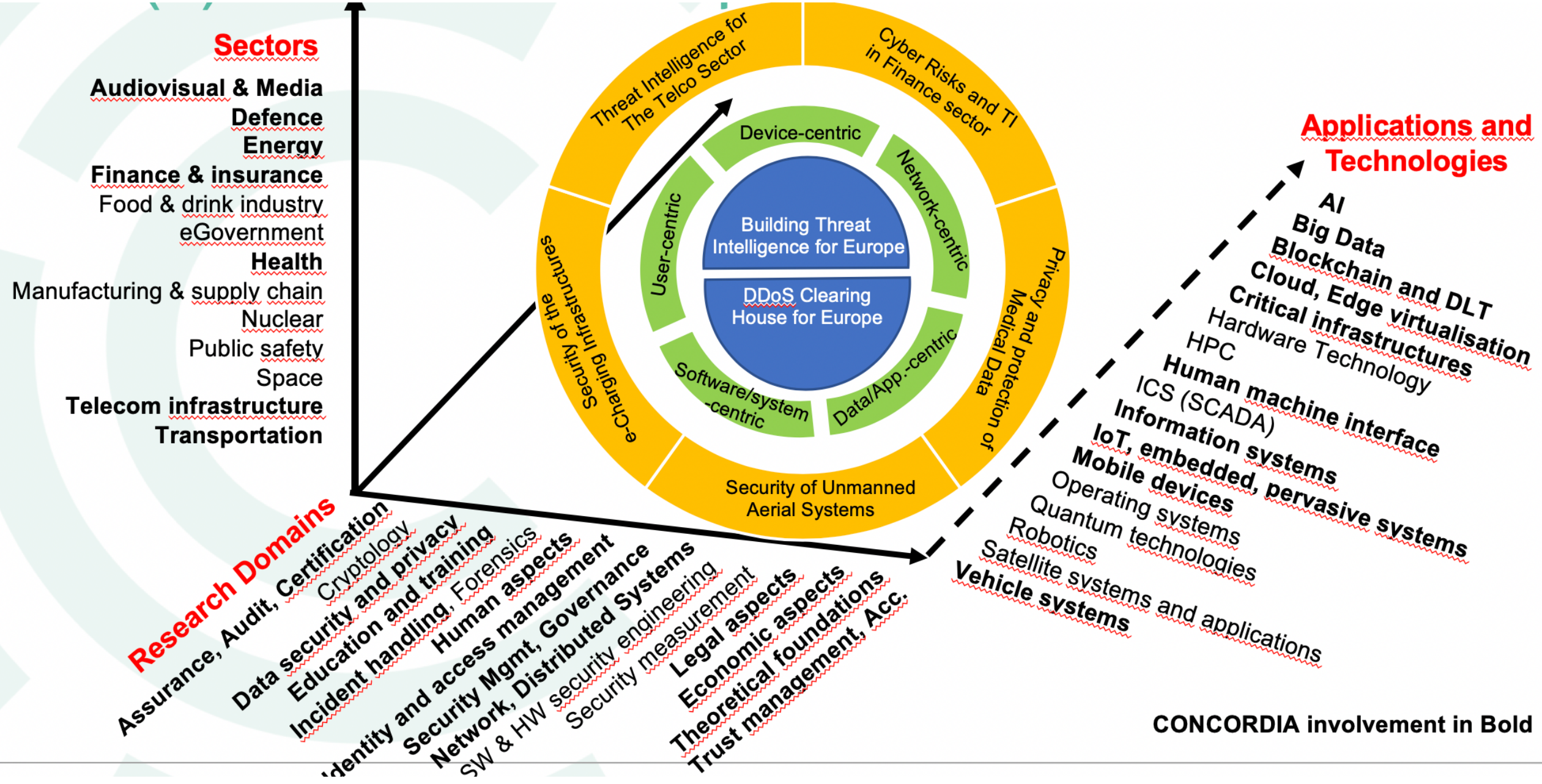# Research – Holistic Data-Centric Approach

User-centric Security

Application/Data-centric Security

System/Software-centric Security

Network-centric Security

Device-centric Security

Pilots

Building Threat Intelligence for Europe **Piloting a DDOS Clearing House for Europe**

Roadmap

INCUBATOR
COMMERCIAL
DEPLOYMENT
VALIDATION
DEMONSTRATION

Automated Processing of Threat Intelligence Information

Plug & Charge

Load Management EV's

Threat Intelligence for the Telco Sector

Security of The E-charging Infrastructure

Handling Privacy and Anonymity with Machine Learning

Combining APTs and avoiding Flood Attacks from IoT devices

Bidirectional charging management EV

Commericalization of flexibility of EV's batteries on Frequency Containment Reserves

telenor

Telefónica Investigación y Desarrollo

efacec

Cyber Risks and Threat Intelligence in Finance and Insurance Sector

DCSO ENGINEERING SECURITY

Bitdefender

BMW

TELECOM ITALIA

ERICSSON

DFN CERT

BOSCH

SIEMENS

Flowmon Driving Network Visibility

Privacy and Protection of Medical Data

CaixaBank

secunet

Allianz

sIDN

infineon

Emergency data in e-Health services

Atos

eesy INNOVATION

Physical or vitual impersonations

AIRBUS DEFENCE & SPACE

Together ahead. RUAG

Remote health services at home

Knowledge Sharing

Security of Unmanned Aerial Systems

Sectors

Audiovisual & Media
Defence
Energy
Finance & insurance
Food & drink industry
eGovernment
Health
Manufacturing & supply chain
Nuclear
Public safety
Space
Telecom infrastructure
Transportation

Applications and Technologies

AI
Big Data
Blockchain and DLT
Cloud, Edge virtualisation
Critical infrastructures
Hardware Technology
HPC
ICS (SCADA)
Human machine interface
Information systems
IoT, embedded, pervasive systems
Mobile devices
Operating systems
Quantum technologies
Robotics
Satellite systems and applications
Vehicle systems

Research Domains

Assurance, Audit, Certification
Cryptology
Data security and privacy
Education and training
Incident handling, Forensics
Human aspects
Identity and access management
Security Mgmt, Governance
Network, Distributed Systems
SW & HW security engineering
Security measurement
Legal aspects
Economic aspects
Theoretical foundations
Trust management, Acc.

Threat Intelligence for The Telco Sector
Cyber Risks and TI in Finance sector
Device-centric
Network-centric
User-centric
Building Threat Intelligence for Europe
DDoS Clearing House for Europe
Software/system -centric
Data/App.-centric
Security of the e-Charging Infrastructures
Privacy and protection of Medical Data
Security of Unmanned Aerial Systems
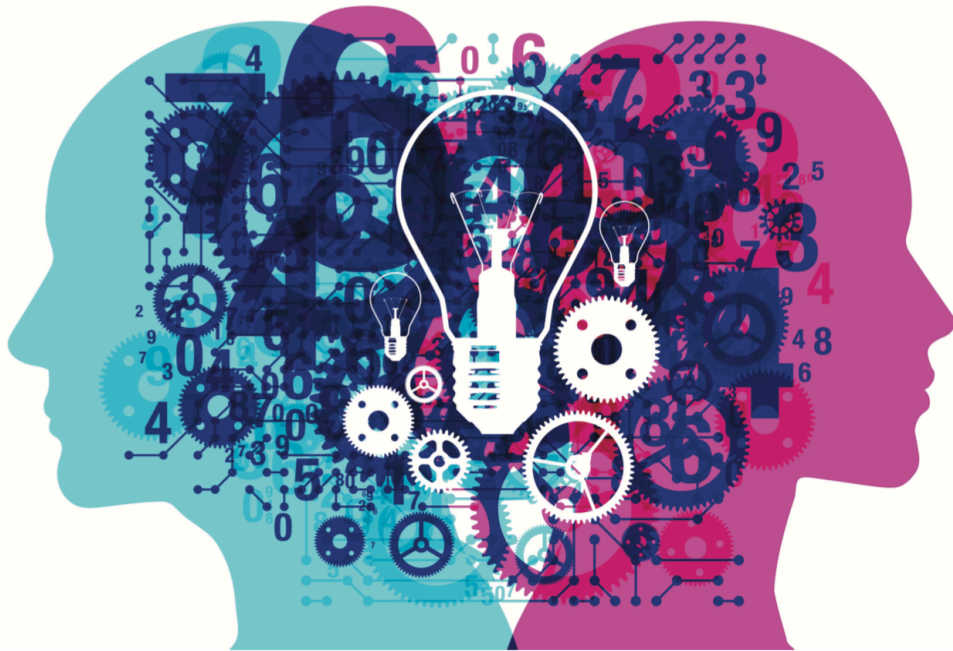
CONCORDIA involvement in Bold

Skills: Virtual Labs, Services, Training, Education

Women in Cyber

WOMEN IN CYBER
A MANIFESTO FOR TODAY

CONCORDIA's Service Catalogue

**HOW TO MAKE A CONCORDIAN OUT OF YOU
(a path of services to boost Cybersecurity competences)**

● individual   ● small or medium organization   ● large organization

**NOTITIA
(be aware of the EU cybersecurity landscape)**

Cybersecurity Updates	Cybersecurity Research	Cybersecurity Improvements
Subscribe and receive references to the latest facts on international research, EU laws, economic aspects, funding opportunities.	Check out our scientific publications on user-, application-, network-, and device-centric security	Give a look to our deliverables and follow the improvements CONCORDIA is providing to the EU cybersecurity world
● ● ●	● ● ●	● ● ●

... Much more ....

Concordian Media   **Courses Map**   **Women Manifesto**   **Cybersecurity Tools**

CONCORDIA is Boosting the Future of Cybersecurity in the EU!

Be Part of It!

www.concordia-h2020.eu