CLUST-ER

INNOVATE

PEOPLE, SKILLS & TECHNOLOGIES LEVERAGING DIGITAL TRANSFORMATION

Emilia-Romagna Service Innovation Clust-ER

CLUST-ER INNOVATE INNOVAZIONE NEI SERVIZI

innovate.clust-er.it

Working Group

The Working Group is an environment for:

- Knowledge exchange and cross-contamination.
- Meeting and discussion to create consortiums for local, national, and international tenders.
- Organizing conferences and training events, as well as participation in national and international exhibitions.
- Drafting white papers and best practices.
- Maintaining ongoing dialogue with innovation ecosystem stakeholders and policymakers, starting with ART-ER and the Region.
- Facilitating innovation with implications for business models and research collaborations among members.

Working Group activities:

- Matching, white papers
- National and international calls
- Best practices exchange
- Missions
- National and international fairs
- Idea generation for the ecosystem policies

Working Group - Digital Talents & Digital Skills

We focus on talent attraction and retention, strategic skills to support digital transformation

Projects from our working groups

- ITS LIME (high level education) Learning Information Modeling Environment
- Ongoing project on aerospace (high level education local school)

Projects to be started

Agreement between Clust-ER INS and ART-ER pilot on best practices exchange: how ICT companies creates the best environment in order to attract and retain talents in EU

Collaboration with ART-ER

- Supporting regional projects IT-ER (International Talents Emilia Romagna)
- Supporting Interreg DEBUTING on gender equality and diversity
- Supporting Erasmus+ PENELOPE (cluster-based approach to foster gender equality strategies in EU SMEs)
- Supporting Skills Intelligence tool development (to analyze SMEs' talent needs and job offers)

Working Group Aerospace Downstream

We work on Earth observation and the application of enabling technologies for satellite data utilization with a focus on: Agrifood, Crisis management (floods, landslides, earthquakes), Migration flows, and Defense.

Projects from our working groups

Our members collaborate with Copernicus, ASI, ESA,CIRI, ART-ER, RER and Regional Aerospace Strategic Forum.
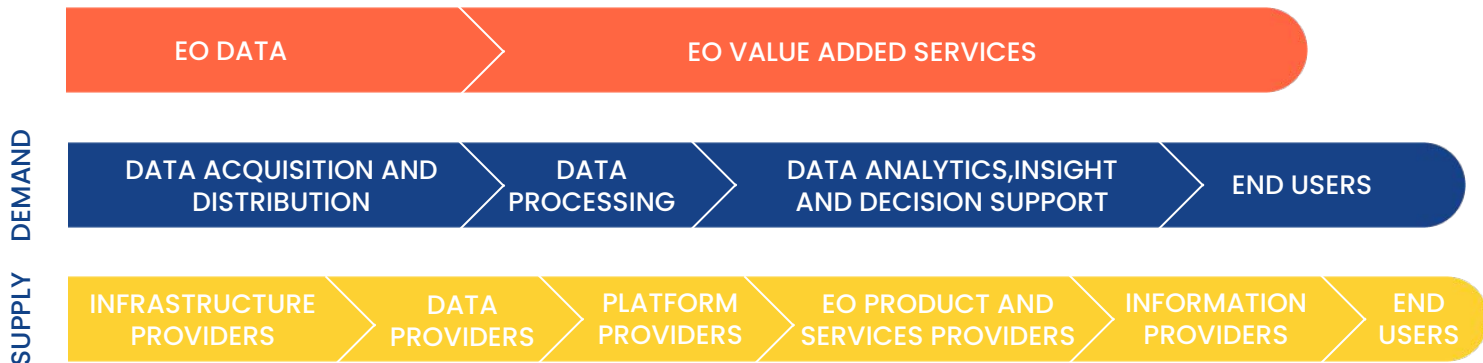- Events (e.g. with ESA BUSINESS PARTNER Fondazione Amaldi)
- Missions (Netherlands, Houston, Canada)
- White paper on skills for Aerospace "SPACE PERSONAS"

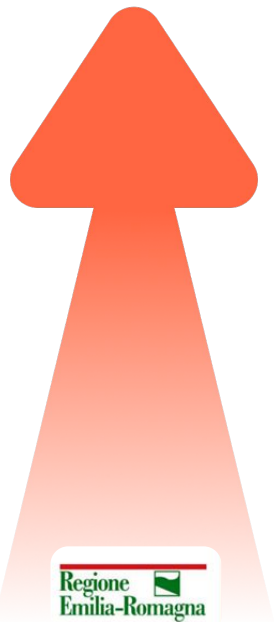## Share know-how and create new opportunities

- SpaceNED and Space Campus
- Canadian forum on Aerospace
- Matera Event
- New Space Economy Expoforum (NSE) Fair
- Sponsor @ Cassini Hackathon 2023

Working Group Aerospace Downstream

Earth Observation

We work on Earth observation and the application of enabling technologies for satellite data utilization with a focus on: Agrifood, Crisis management (floods, landslides, earthquakes), Migration flows, and Defense.

EO DATA	EO VALUE ADDED SERVICES

DEMAND

DATA ACQUISITION AND DISTRIBUTION	DATA PROCESSING	DATA ANALYTICS, INSIGHT AND DECISION SUPPORT	END USERS

SUPPLY

INFRASTRUCTURE PROVIDERS	DATA PROVIDERS	PLATFORM PROVIDERS	EO PRODUCT AND SERVICES PROVIDERS	INFORMATION PROVIDERS	END USERS

Regional Value Flow for Aerospace

CLUST-ER INNOVATE — Open Innovation Ecosystem Aerospace Downstream

CLUST-ER MECH — MECCATRONICA E MOTORISTICA — Open Innovation Ecosystem Aerospace Downstream

R&D PRODUCTION

CIRI AEROSPACE — ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA

ISTITUTO TECNICO AERONAUTICO "F. BARACCA" FORLÌ

RETE ALTA TECNOLOGIA EMILIA-ROMAGNA HIGH TECHNOLOGY NETWORK — TECNOPOLO FORLÌ-CESENA

SKILLS & TALENT

TECNOPOLO MANIFATTURA DATA VALLEY HUB

Data Valley Hub
70% Italian - 20% EU computing capacity
Top Three World HPC

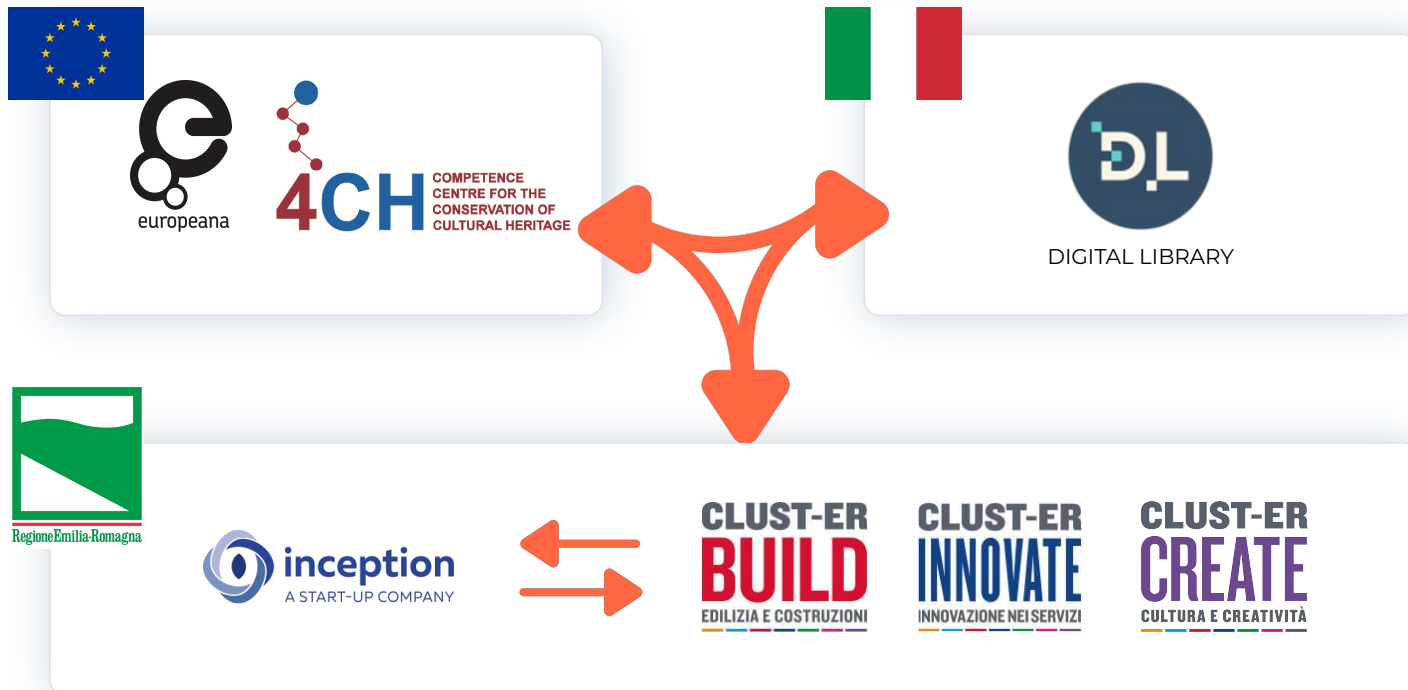**HPC**

Regione Emilia-Romagna

Forum Strategico Aerospaziale
SYSTEM BOOSTER

Working Group - Digital Heritage

We work on Digital Heritage on EU Scale , mapping the value flow and connecting our stakeholder with international entities

Working Group - Critical Infrastructures

Focusing on Green and Resilient Data Centers for Critical Infrastructures
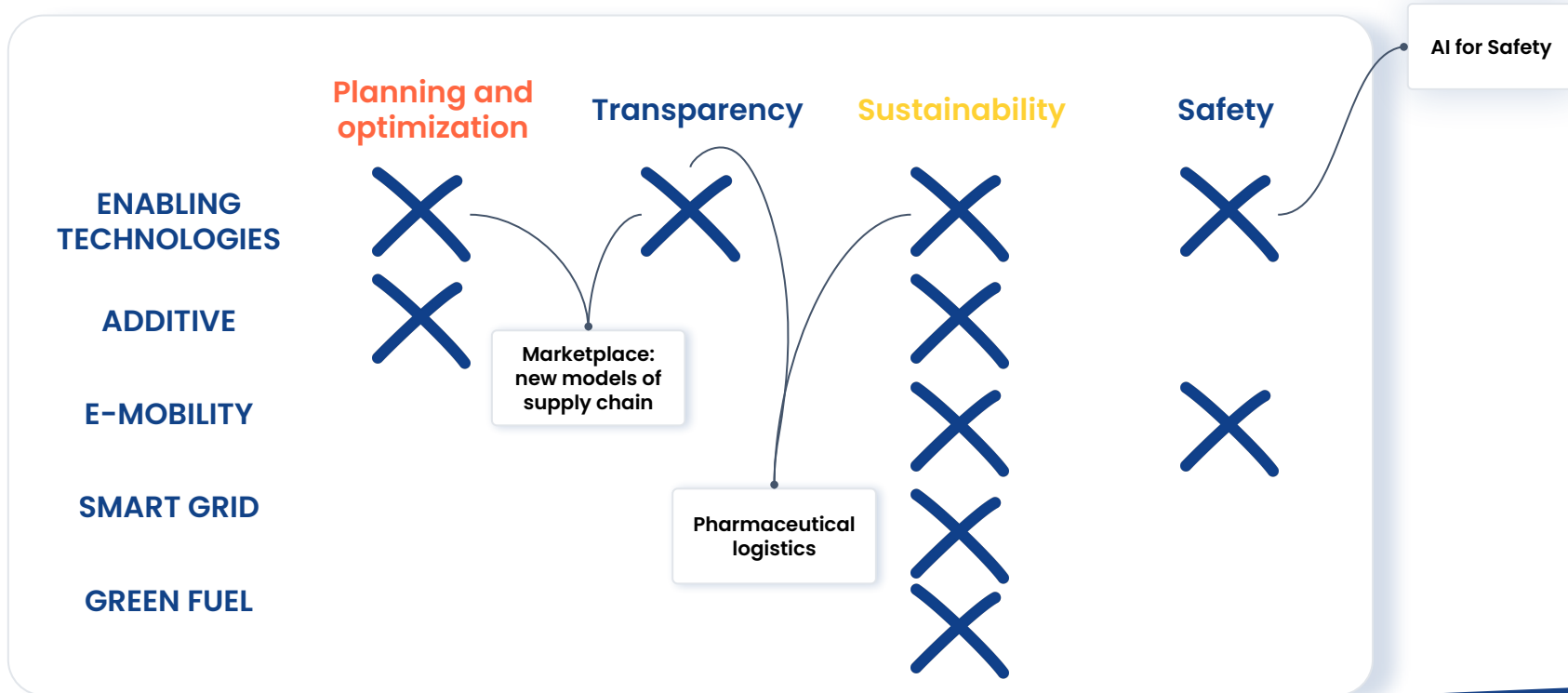
Projects from our working groups

White paper 'Green & Resilient Data Centers for Critical Infrastructures' on best practices in the management and operation of data centers serving critical infrastructure. Prepared in collaboration with Clust-ER Greentech."Focus on our Members' real practices (CINECA, CRIF, ECMWF, INFN, Honeywell, Rekeep, EXE.IT, etc...)

| CRITICAL INFRASTRUCTURES | DESIGN & ENGINEERING | CONSTRUCTION | TESTING & COMMISSIONING | OPERATION MANAGEMENT | MAINTENANCE | DEMOLITION & RECYCLYNG |

Logistics 4.0

We work on the application of technologies in Logistics 4.0, with a focus on Freight Logistics: 3 projects (Marketplace – Pharma Logs – AI4Safety)

AI for Safety

Planning and optimization   Transparency   Sustainability   Safety

ENABLING TECHNOLOGIES

ADDITIVE

E-MOBILITY

SMART GRID

GREEN FUEL

Marketplace: new models of supply chain
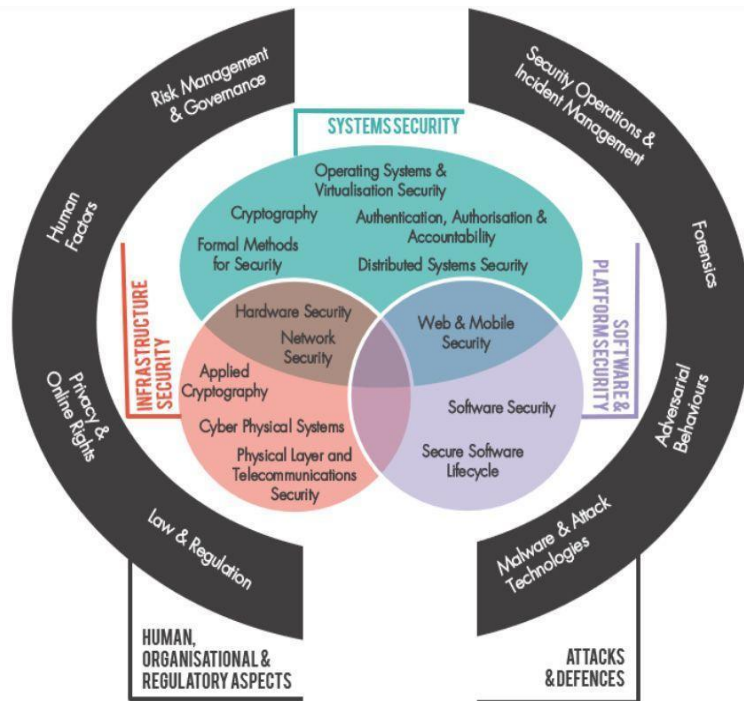
Pharmaceutical logistics

Working Group – Cyber Security

We work on practical applications of Cyber Security in the SME sector (IT and OT) and dissemination.

Projects from our working groups

We are mapping our local competencies on cybersecurity:

- Software Security 70%
- Secure Software Lifecycle 70%
- Attacker behavioral analysis 70%
- Security of cyber-physical systems and IOT 65%
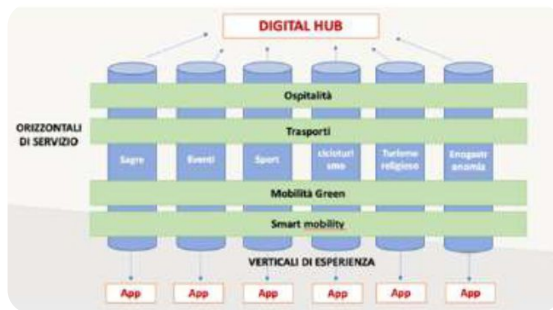- Privacy and online rights 65%
- Telecommunications security 50%

Working Group Tourism 4.0

DIGITAL ECOSYSTEM

Customer journey digital experience

DIGITAL REPOSITORY

DIGITAL HUB

ORIZZONTALI DI SERVIZIO

Ospitalità

Trasporti

Sagre | Eventi | Sport | Cicloturismo | Turismo religioso | Enogastronomia

Mobilità Green

Smart mobility

VERTICALI DI ESPERIENZA

App | App | App | App | App | App

Big data machine learning

PROCESS DIGITALIZATION FOR HOTELS

Assessment method to identify the digital and green level of innovation in hotels

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