INNOVATION AT NTT DATA: HORIZON EUROPE

O NTT DaTa

NTT DATA- From global to EMEAL

Deep industry expertise • Broad portfolio of capabilities • Global scale

$30B+
Annual revenue

50+
Regions and countries worldwide

20
Countries NTT DATA is rated as a top employer

6th
Most valuable IT services brand

3rd
Largest data center provider in the world
(100 data centers in 30 cities)

5th
Global IT Services Provider

5th
largest IP backbone worldwide

NTT DATA EUROPE & LATAM

+50,160
professionals
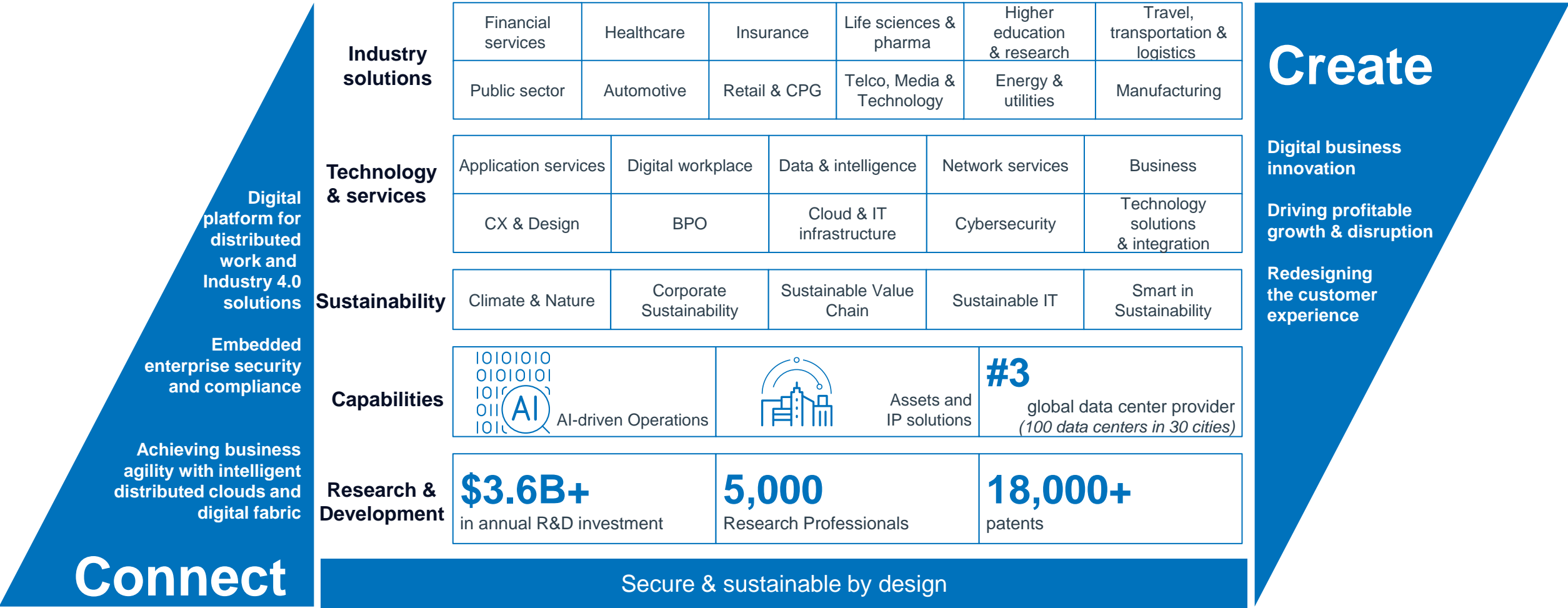
25
countries where we operate

3,5
billion (€) turnover*

15
high-performance centers

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Unrivaled capabilities to support client outcomes

Connect

Digital platform for distributed work and Industry 4.0 solutions

Embedded enterprise security and compliance

Achieving business agility with intelligent distributed clouds and digital fabric

Create

Digital business innovation

Driving profitable growth & disruption

Redesigning the customer experience

Industry solutions

Financial services	Healthcare	Insurance	Life sciences & pharma	Higher education & research	Travel, transportation & logistics
Public sector	Automotive	Retail & CPG	Telco, Media & Technology	Energy & utilities	Manufacturing

Technology & services

Application services	Digital workplace	Data & intelligence	Network services	Business
CX & Design	BPO	Cloud & IT infrastructure	Cybersecurity	Technology solutions & integration

Sustainability

Climate & Nature	Corporate Sustainability	Sustainable Value Chain	Sustainable IT	Smart in Sustainability

Capabilities

AI-driven Operations	Assets and IP solutions	#3 global data center provider *(100 data centers in 30 cities)*

Research & Development

$3.6B+ in annual R&D investment	**5,000** Research Professionals	**18,000+** patents

Secure & sustainable by design

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We are part of the European innovation ecosystem

NTT DATA participates in several European organizations focused on specific digital technologies. These fora include the most relevant organizations on the field in Europe.

- Leading TF on Data Technologies and Architectures

- Co-leading Green for Digital Working Group

SOME OF OUR
CAPABILITIES

We generate change with our strategic vision and our advanced technology

Industries

- Banking
- Energy & Utilities
- Healthcare
- Infrastructure, Services & Real Estate
- Insurance
- Consumer Goods
- Manufacturing & Automotive
- Public Sector
- Retail
- Telecom & Media
- Travel, Transportation & Logistic
- Green Deal & Sustainable Engineering

How we realize our digitalization

Technologies

- Cloud & Infrastructure
- Cybersecurity
- Digital Workplace
- Automation
- Customer Experience & Design
- Emerging Technologies: Metaverse, Virtual Reality, 5G, IA, IoT, Low Code, Blockchain
- Data & Intelligence

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Our participation in innovation projects

NTT DATA participates in different funding programmes as levers for implementing innovation activities with a focus on reinforcing the portfolio. NTT DATA contributes to innovation projects with its knowledge and technological capabilities, implementing use cases and focusing on the market uptake.

NTT DATA has a large experience in innovation projects and can perform the following roles:

Technological partner

Exploitation & Communication/Dissemination

Project Coordinator

Key technologies we work in:

The Universe of NTT DATA products

Why working together with us?

➢ We want to create and strengthen products and services by participating in innovation projects

➢ Our aim is to increase our capacities in areas in which we work and to reach the market

➢ We generate impact thanks to our technological solutions and capabilities

Some of our main assets:

eva — Enterprise Conversational AI by NTT DATA	Dedalow	AIRUS SUITE	**SEKKURA**	**Dabelia**
knowler — Smart Knowledge Management by NTT DATA	IoTrace — 360 Solution by everis	Datalaia — The data & AI platform for public sector by NTT DATA	**Magentta**	**Swalert**
Umbiombu — CSR Tracking Platform by NTT DATA	KayTrust — Digital Ecosystem Platform by NTT DATA	Habität — The cost-effective workspace optimization by NTT DATA	**Valu-es**	**SmartSite**
NAKA — Immersive experiences at scale by NTT DATA	mover7ck	**Knowledge Factory**	**NXT Mobility Charge**	**Origami**

Highlighted projects

Some of our funded projects stand out because of their innovations and results. Currently, we are running 20 projects covering different technologies and industries: Blockchain, AI, IoT, Data Management, Smart Manufacturing, among others.

CYCLOPS

COORDINATORS

(HORIZON-CL4-2023-DATA-01-02)

2024-2026

AI-PRISM

COORDINATORS

(HORIZON-CL4-2021-TWIN TRANSITION-01-01)

2022-2025

SECANT

COORDINATORS

(H2020-SU-DS-2018-2019-2020)

2021-2024

DEEPHEALTH

COORDINATORS

(ICT-11-2018-2019)

2019-2022

TANGO

(HORIZON-CL4-2021-DATA-01-01)

2022-2025

THEROS

(HORIZON-CL6-2022-FARM2FORK-01-04)

2023-2025

PERKS

HORIZON-CL4-2022-DIGITAL-EMERGING-02-05)

2023-2026

MLSysOps

(HORIZON-CL4-2022-DATA-01-02)

2023-2026

deployEMDS

DIGITAL-2022-CLOUD-AI-03-DS-MOBILITY

2023-2026

SEISMEC

(HORIZON-CL4-2023-HUMAN-01-51)

2024-2027

intelcomp

(H2020-SC6-GOVERNANCE-2018-2019-2020)

2021-2023

ADLIFE

*(H2020-SC1-DTH-2018-2020)

2020-2024

The European Commission has highlighted innovations of this Project.
Have a look at all the innovations here

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MAIN INTERESTS AND CAPABALITIES PER HE CLUSTER

Cluster 1: Health

NTT DATA capabilities in the healthcare domain

Health Data Spaces

- Data architectures
- Sovereignty, privacy and security capabilities

Related assets with this technology:

Cluster Research Environment

Silver economy, integrated care and social services

- Silver economy
- Social services (children in the scope too)
- Telecare services and citizens' health management

Related assets with this technology:

ehCOS
by NTT DATA

Clinical research

- Clinical trials management platform
- Tools to support diagnosis of cancer and chronic diseases through traditional and Generative AI

Cluster 2: Culture, Creativity and Inclusive Society
NTT DATA added value

Democracy and Public Services Transformation

- o Digital solutions for citizen empowerment in Public Services
- o Technological solution to facilitate decision making based on public and private unstructured data analysis; e.g.: IntelComp project
- o Digital tools for the integration of vulnerable people into society; e.g Welcome project

Cultural Heritage

- o Institutional Chair on Digital Cultural Heritage
- o Collaborative Cloud for cultural heritage: management tools
  - o Cultural heritage digitalisation: 3D, Digital Twins
  - o Green heritage building; eg: Evelyxia project
- o Habitat asset: interest in expanding capabilities, energy monitoring and control of heritage facilities

Strengthening Human Skills

- o Naka: upgrading skills through XR
- o Human Resources: technologies for empowering workers
- o Adaptation and boost ethical and trustworthy technologies based on Generative AI.
  - o Digital transformation of education
- o Promoting the development of digital skills
  - Related asset with this technology:

NAKA
Immersive experiences at scale
by NTT DATA

Cultural and Creative Industries

- o Statistical framework for CCI: Measuring CCS project
  - o Digital solution for content verification
  - o Digital Technologies for Media sector

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Cluster 3: Security

NTT DATA capabilities in the security subsector

Borders Management and Homeland Security

- Application of Biometrics solutions
- Intelligence and Analytics on cross-border surveillance (Data driven Police)
- Autonomous border surveillance solutions
- Interoperability between EU information systems in the field of visa and police cooperation
- Travel Intelligence and Digital identity

Related assets with this technology:

KayTrust
Digital Identity Management
by NTT DATA

Infrastructures and Disaster Resilient Society

- Autonomous security in critical infrastructures
- Habitat asset: interest in expanding capabilities, control of infrastructures.
- Patient triage in emergency scenarios

Related assets with this technology:

Habität
The cost-effective workspace optimization
by NTT DATA

ehCOS
by NTT DATA

Security Data

- Designing low-level architecture of Data Space for Security.
- Interoperability
- Data management & data governance

Related assets with this technology:

Knowledge Factory

Cybersecurity

- Vulnerabilities pentesting and security auditing
- Security architectures
- Forensic investigation and malware/artifacts analysis
- Enhanced IoT security.

Fight Crime Terrorism (FCT)

- Advanced management system for situational awareness
- Fast and distributed drug detection system

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Cluster 4: Digital Tech

NTT DATA capabilities in the Digital Tech subsector

Immersive technologies

- o   AR, XR, Metaverse
- o   Virtual environments to collaborate with customers, human resources management and trainings

Related assets with this technology:

AI application

- o   LLMs
- o   Generative AI
- o   Intelligent agents
- o   NLP/NLU
- o   Conversational agents

Related assets with this technology:

Magentta

Data Management and Data Spaces

- o   Semantics, Interoperability, Data Discovery, Data architectures, and Data Federation
- o   Core dataspace services, sector application, and data monetization

Related assets with this technology:

Knowledge Factory

Traceability

Traceability and circularity approach

Related assets with this technology:

Quantum application

'Combinatorial optimization' to solve problems for clients.

IoT application

Automation of information capture at the edge and AI models application

Related assets with this technology:

SmartSite

IT Automation

- o   Software Development Automation
- o   Automated Software Testing

Related assets with this technology:

Space technologies

Copernicus-based technologies to evaluate the natural capital applied to land management

Cluster 4: Smart Manufacturing
NTT DATA capabilities in the industry 4.0 and the industrial domain

Hyper automation

Actioning information for humans to act as orchestrators/high-level decision-makers. More autonomous and resilient systems

Related assets with this technology:

Magentta

Augmented intelligence

o   Digital Twin for predictive maintenance, predictive quality, process efficiency

  o   Augmented employee

  o   Virtual training for workers

  o   Intelligent safety for workers

Related assets with this technology:

Magentta

eva
Enterprise Conversational AI
by NTT DATA

NAKA
Immersive experiences at scale
by NTT DATA

SA KE

Data & Intelligence

o   Data Spaces for Manufacturing

  o   Supply Chain Management

o   Simulations and modelling software

  o   Processes optimisation

Related assets with this technology:

Knowledge Factory

Sustainability

o   Digital Product Passport

o   Sustainable Product Design

o   Green IT

o   Carbon Footprint reduction

o   Digital tools for Circular Economy

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Cluster 5: Mobility
NTT DATA capabilities in the mobility domain

Logistics

- Sensorised IoT monitoring and Blockchain traceability

Related assets with this technology:

IoTrace 360 Solution by everis

ZOOMLO TRACKER

Smart Shipments

Mobility as a Service (MaaS)

- Public transport digitalization and private integration services
- Mobility data analytics - new ways for citizen mobility in cities.

Related assets with this technology:

moverick

dōcō

Cooperative, Connected and Automated Mobility (CCAM)

- Automated valet parking
- Driver sentiment monitoring
- Security validation for scenario-based safety assurance of AI-based CCAM functions
- Remote access delegation- fleet management, vehicle diagnostics, vehicle rental, and data sharing market
- Simulation-based Advanced Driver Assistance Systems (ADAS/AD) validation software

Related assets with this technology:

MyPassport

Simuloop

Other technologies

- Platform to develop successful business models in the e-mobility market
- Smart grids and flexibility
- New business models for prosumers
- Energy efficiency new business models for buildings

Related assets with this technology:

Kronos

Utilitaria

NXT (EV Charging)

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Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment
NTT DATA capabilities

Natural Capital

o Environmental, water and plastic assets creation and reporting platform

    o Financial aspects of natural capital

Related assets with this technology:

Ambit

Digital solutions for environment

    o ESG monitoring

  o Process efficiency for waste reduction

Related assets with this technology:

Umbiombu
CSR Tracking Platform
by everis

Zero pollution

    o Water quality monitoring

o Decarbonisation pathways platform to construction value chain

    o Minimising climate impact on aquaculture

    o Preventing and reducing food waste

o Calculation of emissions, certification of processes for their reduction, and the generation of tokens for the development of internal markets. Available factors: carbon, greenhouse gas, plastic, water, biodiversity, and energy efficiency.

Related assets with this technology:

swAlert

Meetzero
Technology for Certified Emissions Reductions
by everis

Circular Economy

    o Life cycle analysis (LCA)

  o Asset traceability through blockchain

    o Digital Product Passport

    o Preventing food fraud

o Waste traceability in the textile sector (based on IoTrace)

o Waste management expertise in urban areas, and the furniture industry.

Related assets with this technology:

IoTrace
360 Solution
by everis

KEY TOPICS OF INTEREST

HORIZON EUROPE – Topics of interest 2024

Cluster 1 - Health

➢ Destination – Staying healthy in a rapidly changing society

➢ Destination – Living and working in a health-promoting environment

➢ Destination – Tackling diseases and reducing disease burden

➢ Destination – Ensuring access to innovative, sustainable and high-quality health care

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HORIZON EUROPE – Topics of interest 2024

Cluster 3 - Security

➢ Destination – Resilient Infrastructure

- HORIZON-CL3-2024-INFRA-01-03: Advanced real-time data analysis used for infrastructure resilience

➢ Destination – Effective management of EU external borders

- HORIZON-CL3-2024-BM-01-03: Advanced user-friendly, compatible, secure identity and travel document management
- HORIZON-CL3-2024-BM-01-05: Detection and tracking of illegal and trafficked goods
- HORIZON-CL3-2024-BM-01-04: Integrated risk-based border control that mitigates public security risk, reduces false positives and strengthens privacy
- HORIZON-CL3-2024-BM-01-02: Interoperability for border and maritime surveillance and situational awareness

➢ Destination – Increased Cybersecurity

- HORIZON-CL3-2024-CS-01-01: Approaches and tools for security in software and hardware development and assessment

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HORIZON EUROPE – Topics of interest 2024

Cluster 3 - Security

➢ Destination – Better protect the EU and its citizens against Crime and Terrorism

- HORIZON-CL3-2024-FCT-01-07: CBRN-E detection capacities in small architecture
- HORIZON-CL3-2024-FCT-01-01: Mitigating new threats and adapting investigation strategies in the era of Internet of Things

➢ Destination – Disaster-Resilient Society for Europe

- HORIZON-CL3-2024-DRS-01-02: Open Topic

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HORIZON EUROPE – Topics of interest 2024

Cluster 4 - Digital, Industry and Space

➢ Destination - Climate neutral, Circular and Digitised Production

➢ Destination - World-leading Data and Computing Technologies

➢ Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructures, Services, Applications and Data

➢ Destination - Digital & Emerging Technologies for Competitiveness and Fit for the Green Deal

➢ Destination - A human-centred and ethical development of digital and industrial technologies

- HORIZON-CL4-2024-HUMAN-03-01: Advancing Large AI Models: Integration of New Data Modalities and Expansion of Capabilities.
- HORIZON-CL4-2024- HUMAN-03-02: Explainable and Robust AI

HORIZON EUROPE – Topics of interest 2024

Cluster 5 - Climate, Energy and Mobility

➤ Destination – Clean and competitive solutions for all transport modes

➤ Destination – Sustainable, secure and competitive energy supply

➤ Destination – Safe, Resilient Transport and Smart Mobility services for passengers and goods

- CL5-2024-D6-01-01: Centralized, reliable, cyber-secure & upgradable in-vehicle electronic control architectures for CCAM connected to the cloud-edge continuum
- CL5-2024-D6-01-02: Scenario-based safety assurance of CCAM and related HMI in a dynamically evolving transport system
- CL5-2024-D6-01-03: Orchestration of heterogeneous actors in mixed traffic within the CCAM ecosystem
- CL5-2024-D6-01-04: AI for advanced and collective perception and decision making for CCAM applications
- CL5-2024-D6-01-06: Optimising multimodal network and traffic management, harnessing data from infrastructures, mobility of passengers and freight transport
- CL5-2024-D6-01-07: Scaling up logistics innovations supporting freight transport decarbonisation in an affordable way
- CL5-2024-D6-01-08: Improved transport infrastructure performance – Innovative digital tools and solutions to monitor and improve the management and operation of transport infrastructure
- CL5-2024-D6-01-10: Ensuring the safety, resilience and security of waterborne digital systems
- CL5-2024-D6-01-11: Effects of disruptive changes in transport: towards resilient, safe and energy efficient mobility
- CL5-2024-D6-01-12: A new framework to improve traffic safety in the EU, with reduced energy dependency of transport

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HORIZON EUROPE – Topics of interest 2024

Cluster 5 - Climate, Energy and Mobility

➢ Destination – Efficient, sustainable and inclusive energy use

- CL5-2024-D4-01-02: Smart grid-ready buildings

- CL5-2024-D4-02-01: Industrialisation of sustainable and circular deep renovation workflows (Built4People Partnership)

- CL5-2024-D4-02-02: Robotics and other automated solutions for assembly, renovation and maintenance in a sustainable built environment (Built4People Partnership)

- CL5-2024-D4-02-03: BIM-based processes and digital twins for facilitating and optimising circular energy renovation (Built4People Partnership)

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HORIZON EUROPE – Topics of interest 2024

Cluster 6 - Food, Bioeconomy, Natural Resources, Agriculture and Environment

➢ Destination – Fair, healthy and environment-friendly food systems from primary production to consumption

➢ Destination – Innovative governance, environmental observations and digital solutions in support of the Green Deal

➢ Destination – Circular economy and bioeconomy sectors

➢ Destination – Clean environment and zero pollution

➢ Destination – Land, ocean and water for climate action

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DIGITAL EUROPE PROGRAMME – Topics of interest 2024

European Digital Identity and Trust Ecosystem (Standards and Sample Implementation)

➢ DIGITAL-2024-BESTUSE-TECH-06-TRUST

- Accelerating the Best Use of Technologies (DIGITAL-2024-BESTUSE-TECH-06)

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Thank you

Contact us at:
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