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→ The Company

Lepida is an in-house company with total and exclusive public capital instrumental to the more than 450 Board members and its majority shareholder, the Emilia-Romagna Region. Lepida employs over 600 people.

Lepida acts across all the territories of its Members, guaranteeing the availability of networks, data centers and digital services.

The Company operates in accordance with the in-house providing model, acting as an aggregator to support the development plans of the Information & Communication Technology in terms of design, research, development, experimentation and management of ICT services and products, as well as production, maintenance, activation and infrastructure exercise, devel-

opment and management of services for access and benefits for citizens, businesses and Public Administrations activities, with a highly specialized line in the sectors of health, social assistance, local authority services for the person and for social-healthcare matters.

Lepida actively collaborates with national and interregional levels, guaranteeing the necessary evolutions and integrations of services, enhancing territorial experiences and advantaging the whole Public Administration.

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Networks

Lepida holds ministerial authorization for the interconnection of public networks and for the operation of wireless networks including WiFi networks. It also has authorization to use one 26GHz frequency channel on the entire Emilia-Romagna territory.



→ Networks

Lepida Network is result of the integration of different technologies with the precise scope to reach, with the best possible performance, every Public Administration of the territory (Partners and connected Bodies) and the headquarters of Healthcare agencies.

Lepida nowadays is a NGN, with 2Gbps guaranteed in the optical fiber spots thanks to a pooling strategy that allows to guarantee high Internet performance, maximizing the number of direct peerings and allowing local TLC operators to grow and access exchange points of excellence and counteract the Digital Divide, especially in areas where the market is failing.

The ERretre Network is a private network with dedicated resources, natively based on IP, distributed and integrated with the

Lepida Network and the Dorsale Sud Radio and designed to give radio connectivity to Provincial Police, Municipal Police, Civil Protection and Health Emergency.

Lepida connects the school buildings in the Emilia-Romagna region via fiber optics starting from the access points to the Lepida Network, allowing school staff and students to browse the Internet at up to 1Gbps, in safe and privacy-friendly ways, with the final aim to innovate teaching and the overall school experience.

Emilia-Romagna Region, in collaboration with Lepida, has created EmiliaRomagnaWiFi, an access point to the Network with an Ultra Wide Band WiFi (each node is connected with fiber).

#NGN

#LEPIDANETWORK

#DIGITALDIVIDE

#OPERATORTLC

#MUNICIPALITIES

#SCHOOLS

#EMILIAROMAGNAWIFI

#ERRETRE

#DORSALESUDRADIO

#POOLING

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Datacenter & Cloud

Lepida develops a model of regional data centers distributed and federated in 4 PA sites, which were entrusted to it by its Members in the Emilia-Romagna area. Lepida registers Internet domains for its members all over the World, in particular in Italy and in Europe. Lepida is qualified as an IaaS supplier on the AgID Cloud Marketplace.



→ Datacenter & Cloud

Lepida Datacenters are integrated nodes in the Lepida Network and they extend its functions. They are complementary to the Ultra-Wide Band network that Lepida has already implemented and is spreading on the regional territory; they answer to the needs of efficient telematic infrastructures, they are cheap, highly reliable and available for the Public Administration in order to help it to provide services to citizens and businesses.

Many of the data centers owned by individual local authorities and healthcare companies converge at the Lepida Datacenters with a view to efficiency in terms of security, use of economic resources and energy saving.

Lepida realized and currently manages 4 regional Datacenter in Parma (DUC2), Ferrara (Ex Macello), Modena (Area Nord), Ravenna (Bassette).

- | | |
|-------------|--------------------|
| #DATACENTER | #DATABASE |
| #CLOUD | #FIREWALL |
| #HOSTING | #CONFERENCE |
| #HOUSING | #VIDEOSURVEILLANCE |
| #STORAGE | #DOMAINS |
| #BACKUP | |

Software & Platforms

Lepida is accredited by AgID as a SPID digital identity manager with the LepidaID identifier. Lepida is a technological intermediary for Emilia-Romagna in relation to PagoPA and SPID and is competent in the field of ICT, e-Health, standards and interoperability systems in healthcare.



→ Software & Platforms

Lepida protects the analyses, design, development, evolution and maintenance of software solutions and platforms used to deliver its services to its Partners. The logic behind the definition of Lepida’s services is a centralized management of solutions, according to common technical and organizational specifications, facilitating the spread of solutions in different territorial contexts, their integration into the management systems of the Bodies and the optimization of management. Even smaller Bodies, which have access to fewer economic and human resources, can then offer better online resources to their citizens and business, overcoming territorial disparities.

Lepida supports the Emilia-Romagna Region and its Partners with the definition, predisposition and realization of activities that

guarantee the development, homogeneity and standardization of healthcare systems, assisting and encouraging organizational changes to provide more efficient services both for citizens and healthcare professionals. Furthermore, Lepida develops regional enabling platforms for healthcare integration, such as the regional registry of assisted persons, the regional vaccination registry, the SOLE network and the Electronic Health Record (FSE); it improves its healthcare service booking platforms and manages the interoperability of regional systems towards national reference platforms and databases.

- | | |
|---------------|---------------|
| #SOFTWARE | #HEALTHACCES |
| #PLATFORMS | #GDPR |
| #HEALTHRECORD | #MULTIPLER |
| #SOLE | #WEBCMS |
| #LEPIDAID | #ARA |
| #SPID | #AVR |
| #PAYER | #CUPWEB |
| #PAGOPA | #WAITINGLISTS |





Welfare & Digital Integration

Lepida favors and supports the Digital Transformation process, advantaging its Partner Bodies identifying digital technologies that improve access, efficiency, security and economics between every other local, regional and national Body, giving a central role to citizens, businesses and patients.



→ Welfare & Digital Integration

Lepida supports its Partners in the process of creating digital administrations, according to a model already shared within the Thematic Communities, as a strategic action for the implementation of Digital Transformation and the Three-Year Plan for IT, also through the development of Digital Local Agendas.

Lepida is committed to spread the digitalisation of documents – starting from the experience in the healthcare sector of the Minerbio Center – and the dematerialisation of processes, also in the field of Smart Working and Digital Justice, with the aim of facilitating access, interoperability and simplification of processes and flows for Local Authorities.

Lepida supports the development of inclusion and cohesion projects for the weakest sections of the population with the e-Care Network, also through the use of IoT technology, and acts in order to overcome the digital divide, in synergy with the PNRR project “Easy Digital in Emilia-Romagna”.

Lepida is engaged in the design, implementation and management of the information system platforms of the regional, social, and healthcare sector.

Lepida also seeks funding opportunities in European and national programs in order to create partnerships, experiments and innovation for the benefit of its Partner organizations.

#DIGITALLocalAGENDAS
#THREEYEARSPLANFORIT
#DIGITALTRANSFORMATION
#DIGITALJUSTICE
#COMTEM
#RESEARCH
#DIGITALIZATION
#DEMATERIALIZATION
#SMARTWORKING
#ECARE
#IOT
#DIGITALFACILITATION
#SOCIALHEALTHINTEGRATION



Access

Lepida has experience on advanced CUP application infrastructures: collection network, front office simplification, management and functional integration of unique district sportello, booking and collection systems for freelance activity, systems for company contacts for the specialist offering.



→ Access

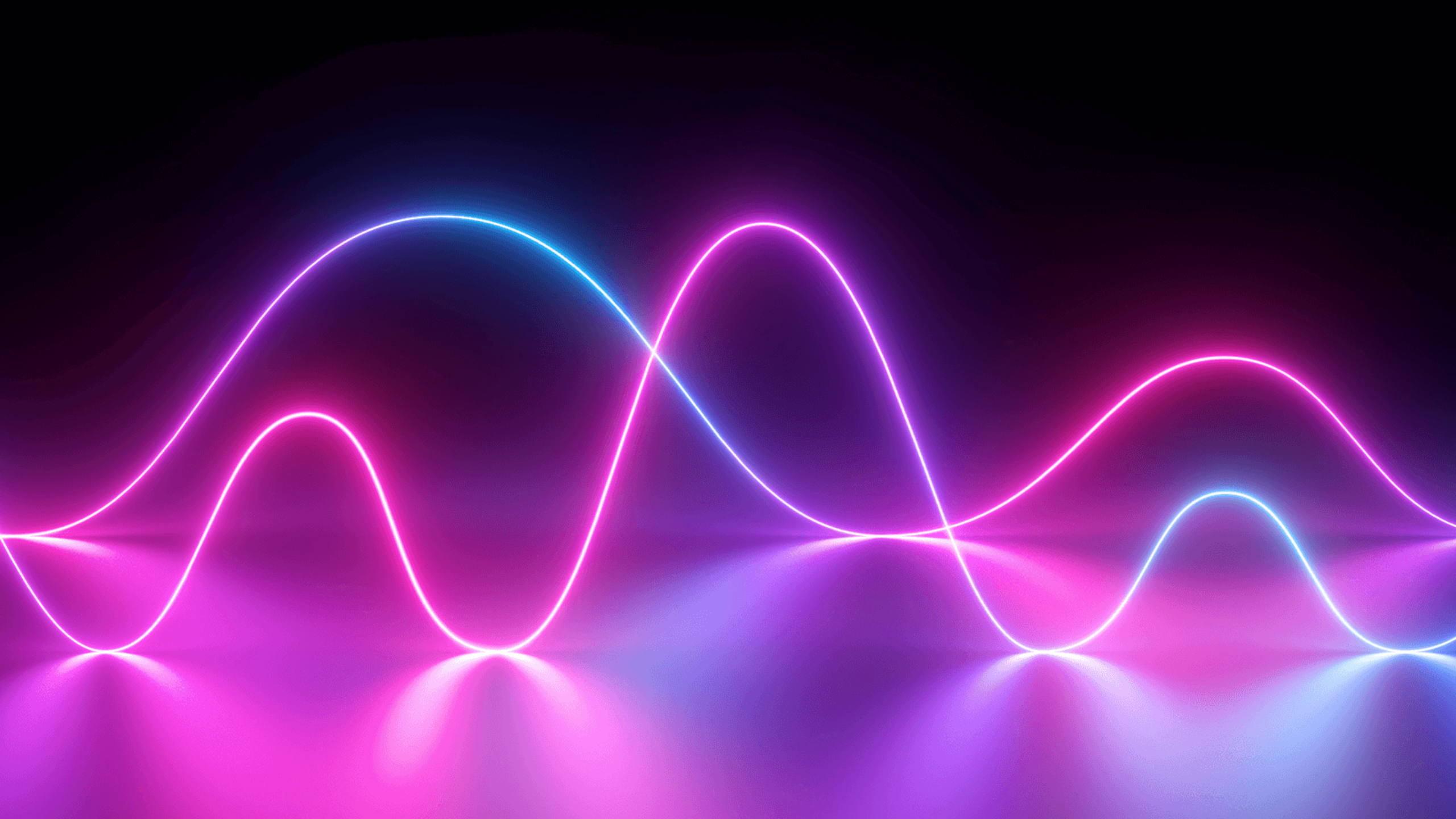
Lepida is a competence center nationally recognized for the design, realization, management, activation and administration of CUP systems, with the review of the CUP platform’s application modules.

Lepida ensures all actions aimed at providing support services for access to the Regional Health Service in direct or indirect contact with citizens, through: front office actions with direct contacts; contact center actions with indirect contacts with progressive concentration on the activity of booking services in the SSN; actions to facilitate access through information and use of online healthcare services; support actions for corporate access networks at CUP branches, contact centers, pharma-

cies; maintenance actions of the healthcare offer, to support the planning and monitoring functions of the waiting times of the healthcare companies.

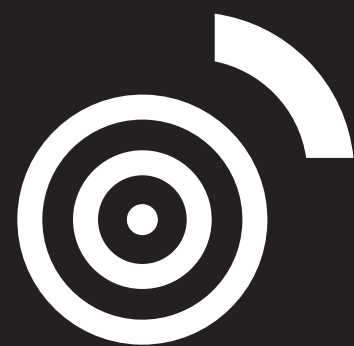
Starting from the integrated management and the reorganization of access points, the company contributes to the digital transition and therefor to the progressive decline of the traditional direct contacts; at the same time, it standardizes the access process and the procedures for social and health services, focusing on the cultural, technological and organisational shifting requested by the GDPR.

- | | |
|-----------|--------------------|
| #ACCESS | #SSR |
| #CUPWEB | #CONTACTCENTER |
| #ERHEALTH | #FARMACIES |
| #FSE | #FRONTOFFICE |
| #EASYCUP | #HEALTHCAREAGENCIE |
| #CUP | #SPORTELLI |
| #TDAER | #CALLCENTER |
| #TICKET | #HOTLINE |
| #SSN | |



Strategic & Special Actions

Lepida operates in the IoT sector with specific Ministerial Authorizations. Lepida creates Big Data solutions and architectures, giving value to the data and to the calculation infrastructures on the territory, supporting national strategies that involve Big Data.



→ Strategic & Special Actions

Lepida is the entity appointed by the Emilia-Romagna Region for the construction of the BUL backbones, which are the connection between a point of the Lepida Network and the area not yet reached by fiber optics. The infrastructures are created by maximizing the use of existing public infrastructures. The interventions follow the time plan defined in the BUL National Plan, in synergy with the interventions carried out by the Concessionaire.

Lepida acts, following the art.15 of the LR 14/2014, in order to deliver the BUL services within the areas that still cannot exploit it; it analyzes the available infrastructural complex maximizing the use of the existing assets and capitalizing on economies of

scale; it projects and directs the interventions, supervises construction sites, coordinates civil and optical testing; it anticipates, whenever is necessary, national schedules when asked by its Partners.

Lepida studies Big Data Analytics and Open Data solutions and architectures, and it has started the IoT Network project for the Public Administration, which is available both for PA and private citizens, associations and businesses in order to collect data from thousands of new sensors located in points of interest, which can then be used by the sensor's owners and by every articulation of the Public Administration for institutional and public interests.

#BULPLAN
#BACKBONES
#INDUSTRIALAREAS
#BIGDATA
#OPENDATA
#IOTPANETWORKS



Security Environment & Emergency

Lepida is the operative subject of the Emilia Romagna Region Computer Security Incident Response Team, supports the Regional Agency for Territorial Security and the Civil Protection for what regards telecommunication, conducts its own activities with ISO certified management systems.



→ Security Environment & Emergency

Lepida manages, on behalf of the Emilia-Romagna Region, the operative conduction and delivery of services of the Regional Computer Security Incident Response Team (CSIRT), aiming to support territorial Bodies on the prevention, recognition and response to informatic security accidents and to strengthen their security posture.

Lepida provides the Regional Agency for Territorial Security and Civil Protection with telecommunications networks and digital and specialized services for planning and management of risks and emergencies related to the regional territory.

Lepida supports the Regional Agency for Territorial Security and Civil Protection for the implementation of actions finalized to strengthen the territorial monitoring and emergency action planning capabilities.

Lepida conducts its operations strongly focusing on quality (ISO 9001 certification), information security (ISO 27001, 27017 and 27018 certifications), health and safety at work (ISO 45001 certification), corruption prevention (ISO 37001 certification), environment (ISO 14001 certification), sustainability.

#CYBERSECURITY
#EMERGENCIES
#ENVIRONMENT #CSIRT-
RER #CIVILPROTECTION
#SOUSTAINABILITY
#CERTIFICATIONS

Single Regional CUP

Lepida projects and realizes a single booking system that gives access in an intuitive and direct way to healthcare provisions on the basis of homogeneous agendas and with undifferentiated availability between the various channels.



→ Single Regional CUP

The main objective of this project is to build a regional system that allows citizens to access in an intuitive and fast way to the health and social care services and that gives to the decision makers the most efficient tools to control the available offer.

Lepida deals with improvements towards users through: implementation of a single system without territorial differences; single system sizing for the entire population; high standard of accessibility; design based on usability and safety; usability with any existing multi-channel mechanism; equal ontologies throughout the territory.

Moreover, Lepida is committed to improve its services to the PA offering: a single implementation for each new function; configuration on defined and unique parameters for the peculiarities of the individual company; homogeneous and native views of critical privacy aspects with an immediate implementation of new features; single adjustment for each new regulation and decision; containment of waiting times according to regional and national plans.

#SINGLEREGIONCUP

#CUP

#BOOKING

#AGENDAS

#HEALTHCARE

#HEALTHCARENATIONALSYSTEM

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Big Data HPC MarghERita

Lepida projects and implements “MarghERita”, a Big Data Platform with high computational power financed by the Emilia-Romagna Region to work on four priority but not-exclusive fields of intervention for which the computational power of MarghERita can make the difference: environmental risk management, epidemiological surveillance, prevention of road accidents, reduction of pollution.



→ Big Data HPC MarghERita

The main objective of the Big Data Platform project is to share with every PA Body in the Emilia-Romagna Region this HPC (High Performance Computing), which will allow these Bodies to work together and then to integrate and to manage a big amount of data originated by different sources, to elaborate them and to extract useful pieces of information regarding the monitoring, planification and evaluation of public policies.

This HPC has been named “MarghERita” and was financed by the resources of the Fondo per lo Sviluppo e la Coesione (FSC) with a total amount of 3.5 Mln€.

MarghERita is composed by 75 computational nodes which are all composed by 2 Intel Xeon Gold 6336Y processors 2.4 GHz 24 core, a 512GB RAM with a Nvidia Tesla

T4 GPU and a Data Lake composed by a 230 TB flash and 700TB of storage (equally distributed between the Emilia-Romagna datacenter of Bologna and the Lepida Datacenter in Ferrara) and an SW platform for the integration and elaboration of a big amount of data.

The Emilia-Romagna Region, inside the Big Data Platform Project, has identified four priority but not-exclusive fields of intervention for which the computational power of MarghERita can make the difference: environmental risk management, epidemiological surveillance, prevention of road accidents, reduction of pollution. There are also many oncoming regional projects that are going to exploit marghERita.

#MARGHERITA
#BIGDATA
#FSC
#HIGHPERFORMANCECOMPUTING
#TERRITORY
#INNOVATION
#DATA



Digital Innovation Hub Emilia-Romagna

Lepida designs and produces a digital innovation coordination network by identifying shared spaces and common laboratories in order to support the development of Digital Innovation in Emilia-Romagna.



→ Digital Innovation Hub Emilia-Romagna

The Digital Innovation Hub Emilia-Romagna Project (DIHER) has as its main objective to design and create a coordination network to support the development of digital innovation in Emilia-Romagna, focusing mainly on 4 areas: Health, Business and territorial system, Public Administration and Agriculture.

The main focus of DIHER is on activities linked to the Digital Innovation Hub of the Emilia-Romagna Region, ER2Digit. ER2DIGIT is a distributed location of digital innovation regarding the development of a data society and economy through advanced digital technologies

In the ER2Digit project, Lepida develops AI, Cybersecurity and Internet Of Things (IoT), some of the advanced technologies included in the “Digital Europe” EU program.

ER2DIGIT will act as an orchestrator of a set of services, advice and skills at a territorial level made available by the regional ecosystem of innovation and digital.

DIHER also follows the projects on which to start investigations and feasibility: Digital Twin (DT) of the air, DT of transport, DT of tourist flows.

#DIHER

#DIGITALTWIN

#ER2DIGIT

#HEALTHCARE

#BUSINESSES

#TERRITORY

#PA

#AGRICULTURE

#INNOVATION

#IOT

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Certifications

→ISO 9001

System of Quality Management

→ISO 14001

System of Environmental Management

→ISO 37001

Prevention Management
System of Corruption

→ISO 45001

Health Management System
and Safety in the Workplace

→ISO/IEC 27001

Safety Management System
of the Information

→ISO/IEC 27017

Standards for Cloud Services
and Service Providing

→ISO/IEC 27018

Standard Personal Data Protection
in Public Cloud System

