

MECCATRON1CA
distretto produttivo sicilia



Company profile

English version, updated in May 2023

CREMETE is a new and ambitious initiative, born from the integration of the efforts of different professionals, borrowed from the sectors of industry, research, healthcare, strategic consultancy , with a passion and a shared goal

**MAKE YOUR CONTRIBUTION TO THE DIGITAL
TRANSFORMATION AND BUSINESS INNOVATION OF OUR
COUNTRY**

Areas of activity of Cremete



The arrival of new decentralized therapeutic pathways through the use of devices and ICT technologies represents a real epochal turning point for healthcare systems. The traditional paths of prevention, diagnosis and treatment of a patient are profoundly changing and the very concept of health is changing. We are able to design and implement innovative models of planning, organization and management of services and services that generate value for the citizen and the system.



Environment

Cremete is a reliable partner for providing environmental consultancy services:

- preparation and evaluation of plans and projects for rehabilitation environmental, for territorial development, for protected natural areas
- preparation and certification of environmental impact studies; strategic planning, design and economic or environmental assessment (SEA and via) of interventions and development plans of the territory
- territorial or corporate environmental reporting



Industry 4.0

The concept of Industry 4.0 aims to support technological and digital innovation within industrial processes and in particular aims to encourage private investments in Research, Development and technological innovation projects. In this context, Cremete is able, thanks to the experience and expertise of its collaborators, to support companies in order to define their real needs in the digital transformation process.





Our values

Vocation for innovation	Value creation	Focus on the customer
We computerize company processes, guaranteeing their streamlining and the improvement of the quality of life of those who use them. We support client companies by following them throughout the process: identifying the specific needs of the context in which they operate, developing innovative solutions and finally, supporting staff in using the new system.	Giving value to the customer means operating with an open and proactive attitude, putting one's know-how into circulation how and their skills to generate value within their own company and share it with customers, partners and stakeholders. For us, this means creating value and developing a participatory culture in which everyone feels like an active protagonist.	Our goal is to support customers in their growth path, improving performance and innovating business processes. We work with serenity and optimism, with a profound sense of responsibility in individual and team behaviour, translating our skills into concrete actions to meet the performance standards required by each project.
Resource quality	Proven reliability	Timeliness of intervention
The skills of each resource of our company, of our external collaborators and of our Partners, represent a heritage shared with all the other members of the work team. Furthermore, our company is committed to encouraging and enhancing the growth of all resources on a daily basis through training courses and participation in events.	Our customers, after various not always positive experiences, have found in us a reliable, present, punctual supplier and also an interlocutor able to understand and satisfy all needs, in terms of speed in providing services, versatility of the proposed solutions and availability in customer care.	We are constantly committed to ensuring that any critical issues on projects or with customers are resolved as soon as possible and definitively. For this reason, our team is prepared to take immediate action on any type of event involving one of our customers.

Our Partners



Services provided 1-2

			
Management consultancy	Strategic	Digital transformation	ICT Assessment & Plan
<p>We address Clients, in particular in the Public Sector, Private Sector or Partners (on behalf of their Clients) who are faced with organizational changes , personnel, accounting and internal controls, procurement and the consequent impacts on their operating procedures and information technology.</p>	<p>We support clients in a systematic process of formulating company objectives, identifying and managing resources, defining policies, and assessing risks and opportunities. The activity is expressed in medium/long-term plans characterized by multi-year budgets.</p>	<p>Digital transformation represents the profound change of organizational activities and processes, skills and business models, aimed at fully exploiting, in a strategic and priority way, the opportunities that digital technologies are able to guarantee to companies.</p>	<p>ICT Assessment has the objective of analyzing the technological and application infrastructure, the human resources and the services provided by the information system, with respect to the company's business requirements. Subsequently, the ICT Planning phase involves the definition of a general master plan to implement the identified improvements.</p>

Services Provided 2-2



Innovation in ICT

The company has designed and is implementing several innovative ICT projects in the health sector concerning: Architecture and interoperability of information systems: Clinical Data Repository (CDR) ICT systems to support the internal process of providing digital services to citizens: ICT systems to support of continuity of care:



Project management

We operate in such a way as to ensure that the success of a project is not a random fact, but something that must be built by seeking excellence throughout its life cycle, starting from the very early stages, when it will be necessary to evaluate the level of convenience of expected returns and that the estimated risk profile is in line with the propensity to accept it.



Reengineering – processes

In our understanding, process reengineering is not limited to identifying critical points of inefficiency or ineffectiveness, but rather a radical rethinking and questioning of the way services are provided by introducing new IT tools that allow services to be provided in a totally different.



Management control

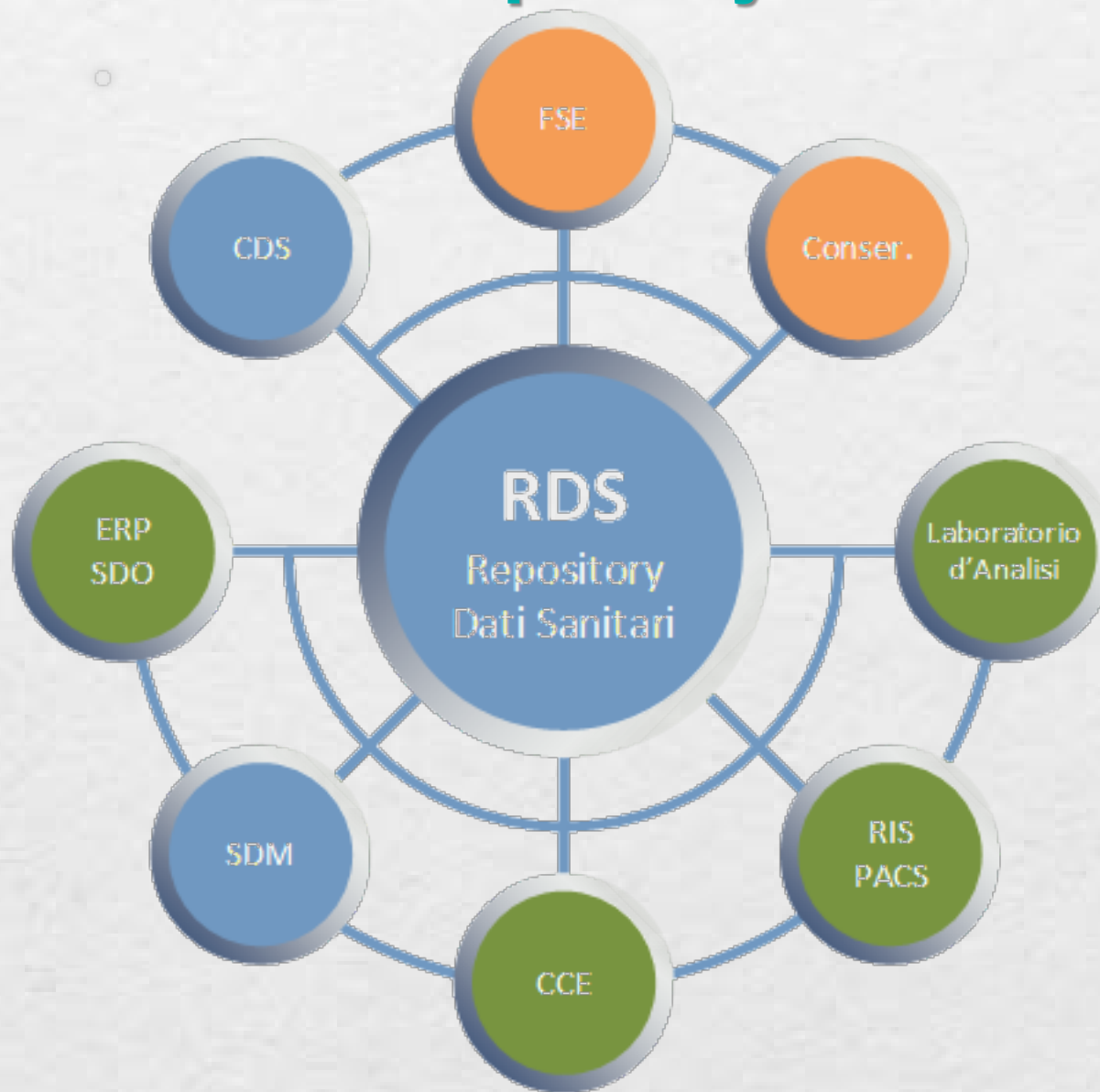
In this context , the primary objective of a hospital is to provide the best service at the lowest possible cost. Reason why the Healthcare Companies need to rationalize their production processes in order to seek the best production combination in terms of effectiveness, efficiency and cost-effectiveness.



Virtual Clinics 2-2

- ❖ The Virtual Outpatient Clinics represent the first piece of the mosaic of digitalized services of Connected **Care type patient care**
- ❖ The platform involves a **complex process supported by several applications that are interoperable with each other through a common ESB**
- ❖ The patient can interact with the doctor in a similar way to what happens in a specialist visit in the presence
- ❖ The clinical information collected, structured and unstructured, is made common property of the company through a centralized CDR
- ❖ The platform includes various digitized care services such as:
 - **Remote televisitation** integrated in the company CCE
 - **Remote telemonitoring** that integrates home detection devices
 - Specialist or multidisciplinary **teleconsultation**
 - Long-term **care programs (Cardiology, Oncology, Rehabilitation)**

Clinical Data Repository 1-2

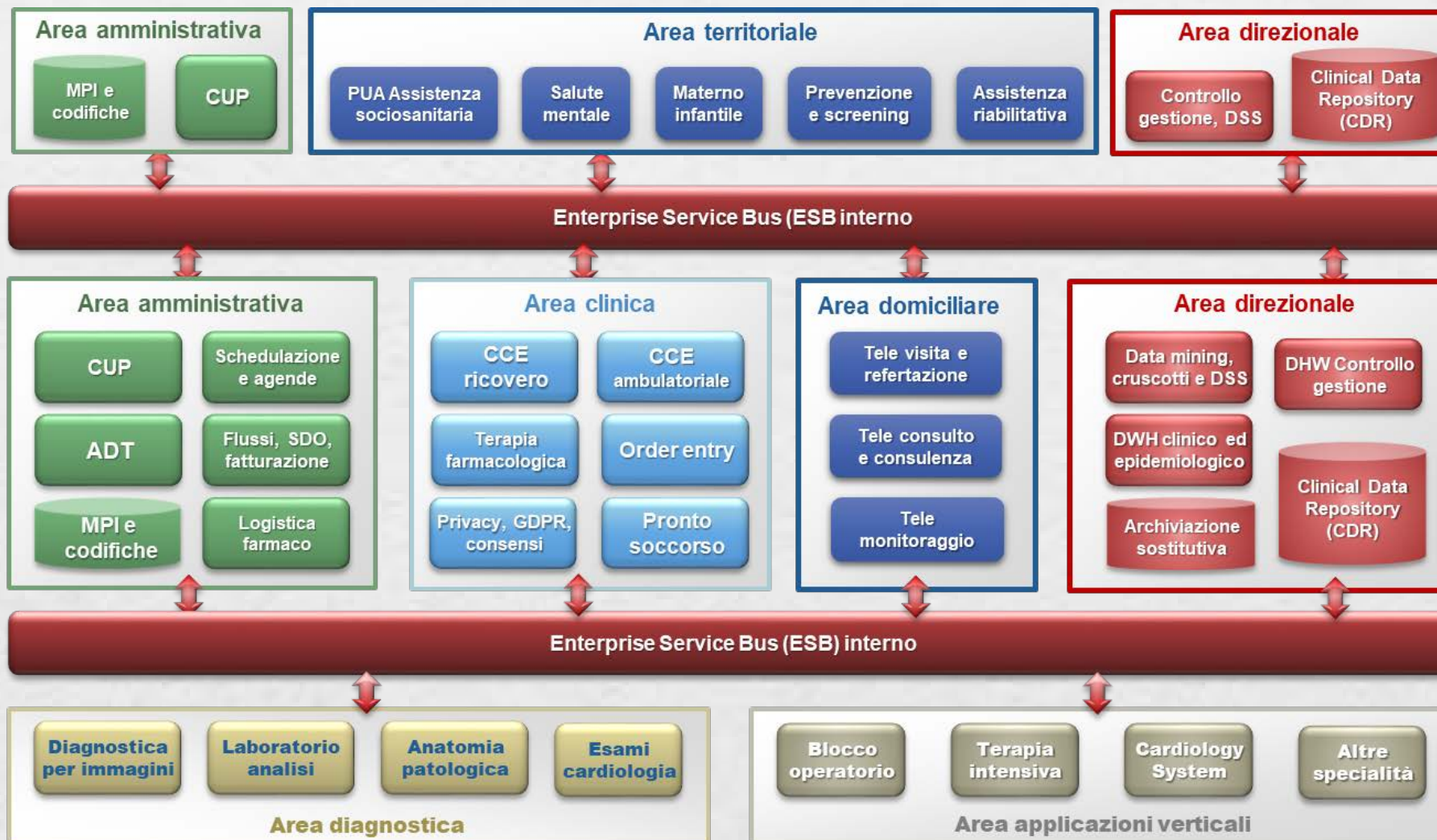


Clinical Data Repository 2-2

The project concerned the implementation of an innovative solution logically transversal to the Hospital Information System (HIS) which would enhance the wealth of clinical data generated by the various Departments/Vertical Applications that support them and at the same time guarantee interoperability between the various application areas . From this point of view, the Clinical Data Repository has a multiple value :

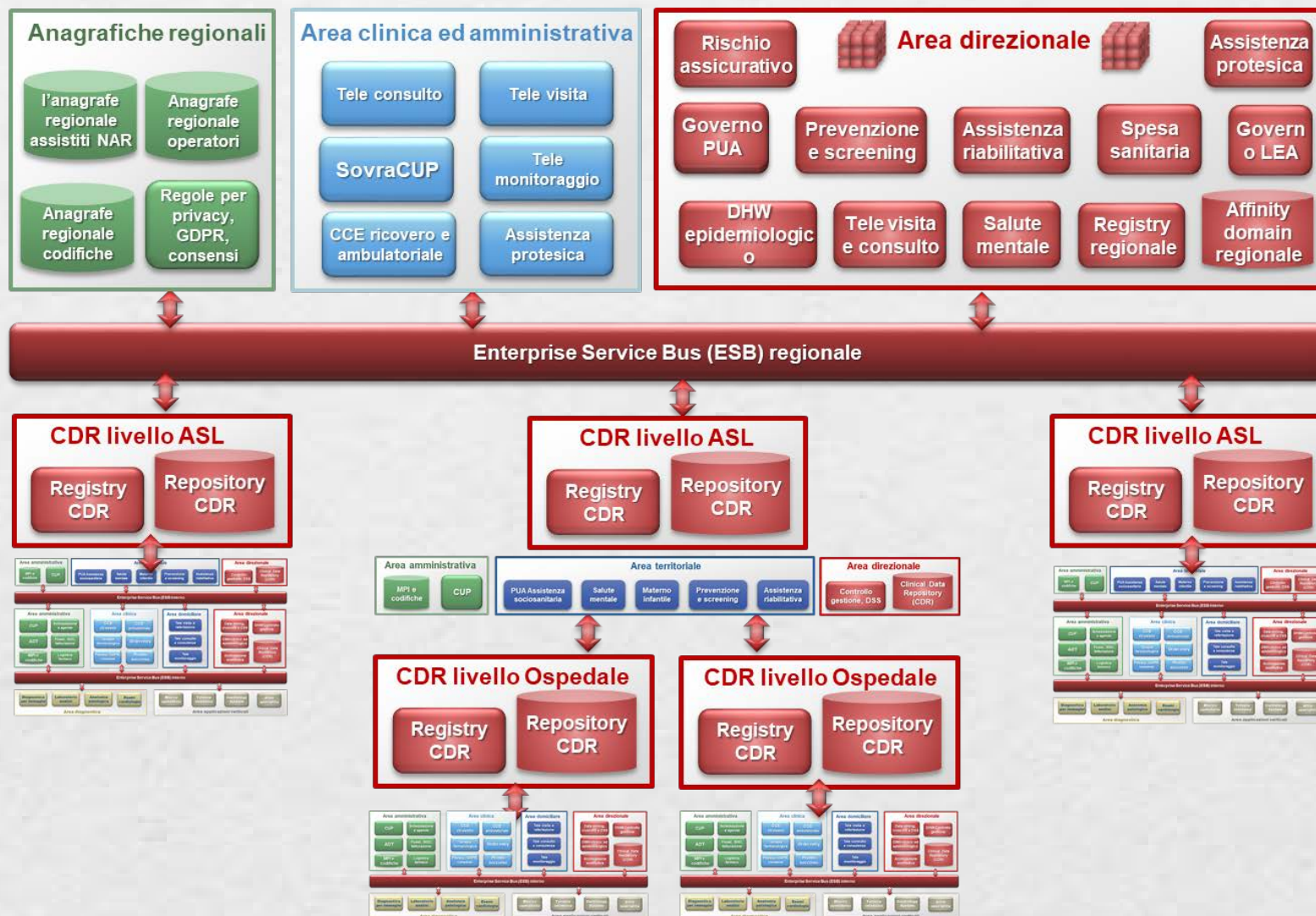
- ❖ **clinical-health:** as an element enabling a single and unambiguous view of the patient, which collects the data and reports produced on the occasion of the various events that characterize a treatment path, the repository is characterized by the role of support tool for the daily delivery activity assistance;
- ❖ **technological/architectural:** it acts as a central system at company level, i.e. as a single interface, on the one hand, within the applications of the HIS, on the outside towards the FSE , assuming an essential role in the cooperation between systems and sub-systems that they share information;
- ❖ **organizational:** as an element that decouples the departmental dimension from the corporate dimension, it guarantees full autonomy to the Company, in terms of management of the information assets at different company levels;
- ❖ **information :** as an original element for the establishment of the centralized Repository at a standardized company level and independent of the feeding systems which represents a fundamental tool for : epidemiological, clinical, managerial, economic purposes.

Hospital Information System 1-2



Hospital Information System 2-2

- ❖ The **Hospital Information System (HIS)** must move from a monolithic vision with point-to-point interactions between the various applications that compose it, to a **set of natively interoperable systems in a standardized way through a common ESB and which feed a centralized CDR**
- ❖ It is essential to provide a highly performing **application interoperability and orchestration system (ESB)** to ensure that the relevant data flows are manageable with the necessary guarantees of reliability, availability and security
- ❖ **standardization and automatic sharing of personal data** (patients, structures, health professionals, etc.) **and of the coding** used at the level in the various HIS systems (DRG, LOINC, ICD9-CM, etc.) must be obtained through **centralized Master systems Patient Index (MPI) and Master Data Management (MDM)**
- ❖ This architecture is enabling for the introduction of **digitalised patient care services of the Connected Care type and for the transmission of structured data to the national and regional ESF**



Fundamental elements of Regional Health Cluster

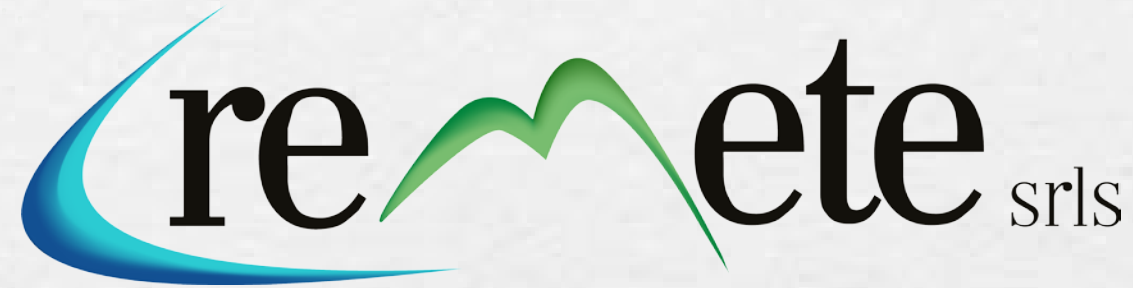
- ❖ It is essential to provide a highly performing **interoperability and application orchestration system (ESB, WSO2)** to ensure that the relevant data flows are manageable with the necessary guarantees of reliability, availability and security
- ❖ We must push on the **standardization of personal data** (structures, human resources, citizens, companies, etc.) **and of the coding** used at a regional level
- ❖ We must proceed towards the creation of federated repositories with a registry at the regional level and local registries . The data contained will be structured in specific standard formats for the different clusters using standards such as: **HL7-IHE, FIRH, XBRL** , etc.
- ❖ It will be necessary **to extend the current domains** of the standards mentioned above by developing further use cases and extending their codings in order to guarantee an information level adequate to the needs of the events it can consider

Assumptions of the Regional Health Cluster

- ❖ Ensuring the coherence of the Healthcare cluster entails the need to manage the following elements in a structured and permanent way at the regional level:
 - **Personal data of patients and health professionals**
 - Registry of clinical codes (**LOINC, ICD-C9** , structures in the area, etc.)
 - **Healthcare codings defined by Integrating the Healthcare Enterprise (IHE)** , fundamental for the distribution of healthcare information between different systems. This element also includes centralized management of definitions common to exchanged **CDA2 format transactions** and a regional affinity domain. profiles;
- ❖ From a messaging standpoint, **regional ESB** should be based on **HL7 v.2.6 or v.3, FIHR / CDA/C standards**. The previous **HL7 v2.5** version can be used within companies, if necessary for integration with pre-existing applications that already use it, providing the appropriate mapping towards the higher version. For image processing, the default standard is **DICOM (Digital Imaging and Communications in Medicine)**.

Operating logic of the Regional Health Cluster

- ❖ The general operating logic defined provides for the presence of a series of **Clinical Data Repositories CDR** fed in **HL7-IHE format**, including the local Registry, located in the **ASPs** and in the territorial structures of the Sicily Region
- ❖ The data present in the **local Registries** will also be indexed in a **regional Registry** located at a higher hierarchical level than the **local Registries**
- ❖ It is necessary a **regional Affinity domain** that defines the rules to be applied to associate a value to each metadata transported in the transactions defined by the **HL7-IHE profiles** . Metadata is associated with a specific entity such as, for example, an **XDS-b document** produced within the regional domain itself
- ❖ The regional systems will be able to query and aggregate the indexed and standardized data in the regional registry so that they can feed the staging area and data mart of the Data Warehouses (DHW) aimed at monitoring the trend of phenomena on the territory and at supporting decisions for the health and economic governance of regional health care



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Thanks for the attention

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