



A. Menarini Diagnostics' solution for the management
and control of decentralised laboratory tests



A working “ensemble”

Case Study: e-POCT

A paradigm-shift in POCT Connectivity

**Eighth workshop of the Connectivity Industry Consortium
Medica 2007 Duesseldorf**

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A.Menarini Diagnostics



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The European POCT Marketplace

Established POCT limited to:

-  Blood Glucose - hospital & GP
-  Urinalysis - hospital & GP
-  Blood Gas - hospital
-  Cardiac Tests - hospital (A&E / ICU/CCU)

Developing POCT

-  Coagulation - hospital (surgery/TA0) / home
-  HbA1c - diabetic clinics/units
-  Health Screening - primary care

Future potential

-  STAT i.e. routine haematology, chemistry etc



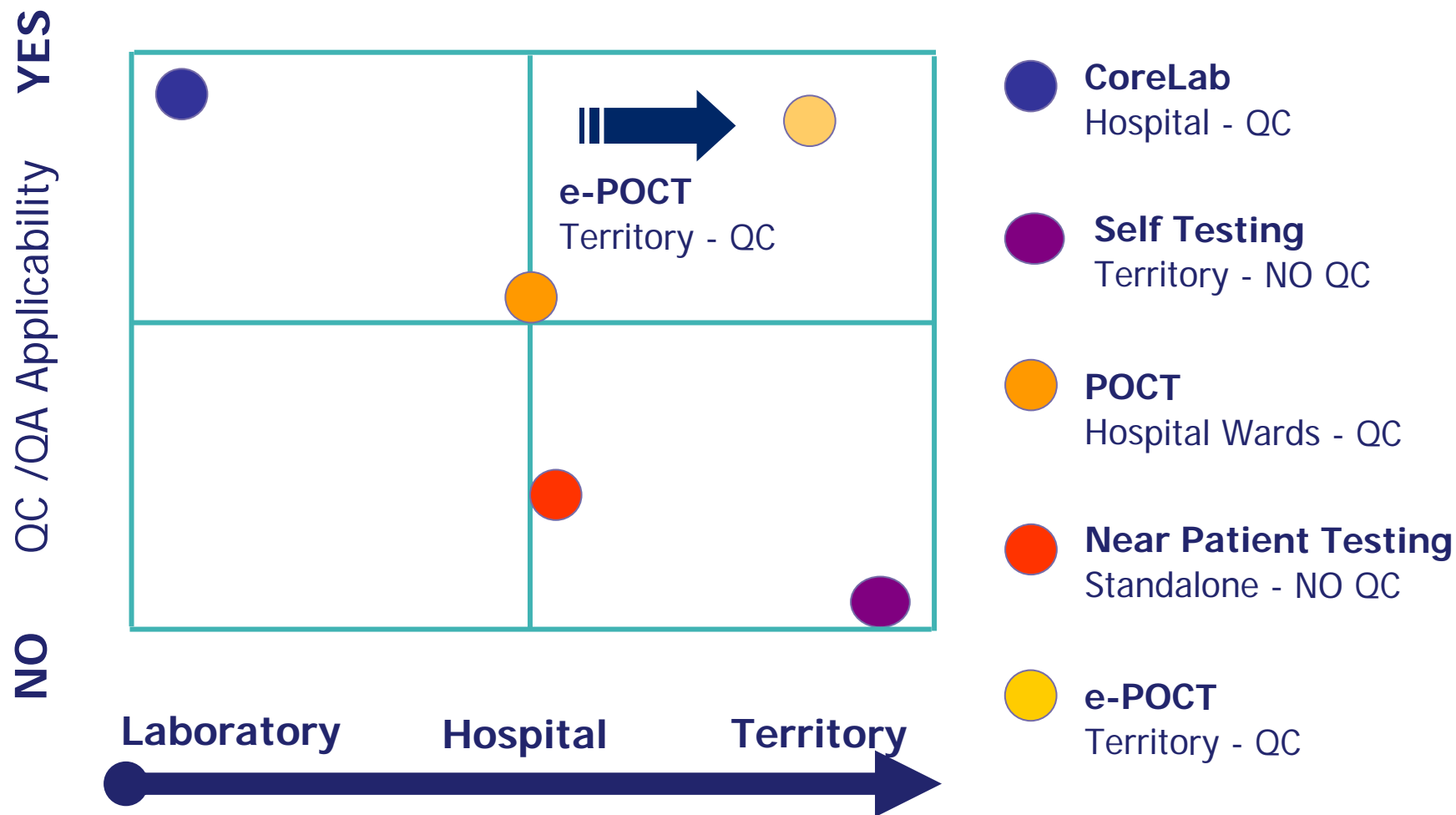
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Centralised Vs. Decentralised IVD: The AMD Model





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Interoperability: a “Conditio-Sine-Qua-Non” for Continuity of Care

- The aim of **interoperability** is to facilitate the exchange of clinical data between computer-based applications.
- “**Continuity of Care**” (CC) is needed to harmonise care and share information about diagnoses and treatments along the patient care pathway
- The **HL7 messaging standard** is becoming the standard for communicating data between clinical and administrative functions in the hospital environment



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NetCare 2.0 Is....

- The A.Menarini system that allows decentralised laboratory tests, taking the organisation, control and management of diagnostic tests outside the traditional central laboratory, in Point of Care testing.
- Decentralised Lab tests can be carried-out by non specialised personnel whilst under the remote supervision of specialised staff.



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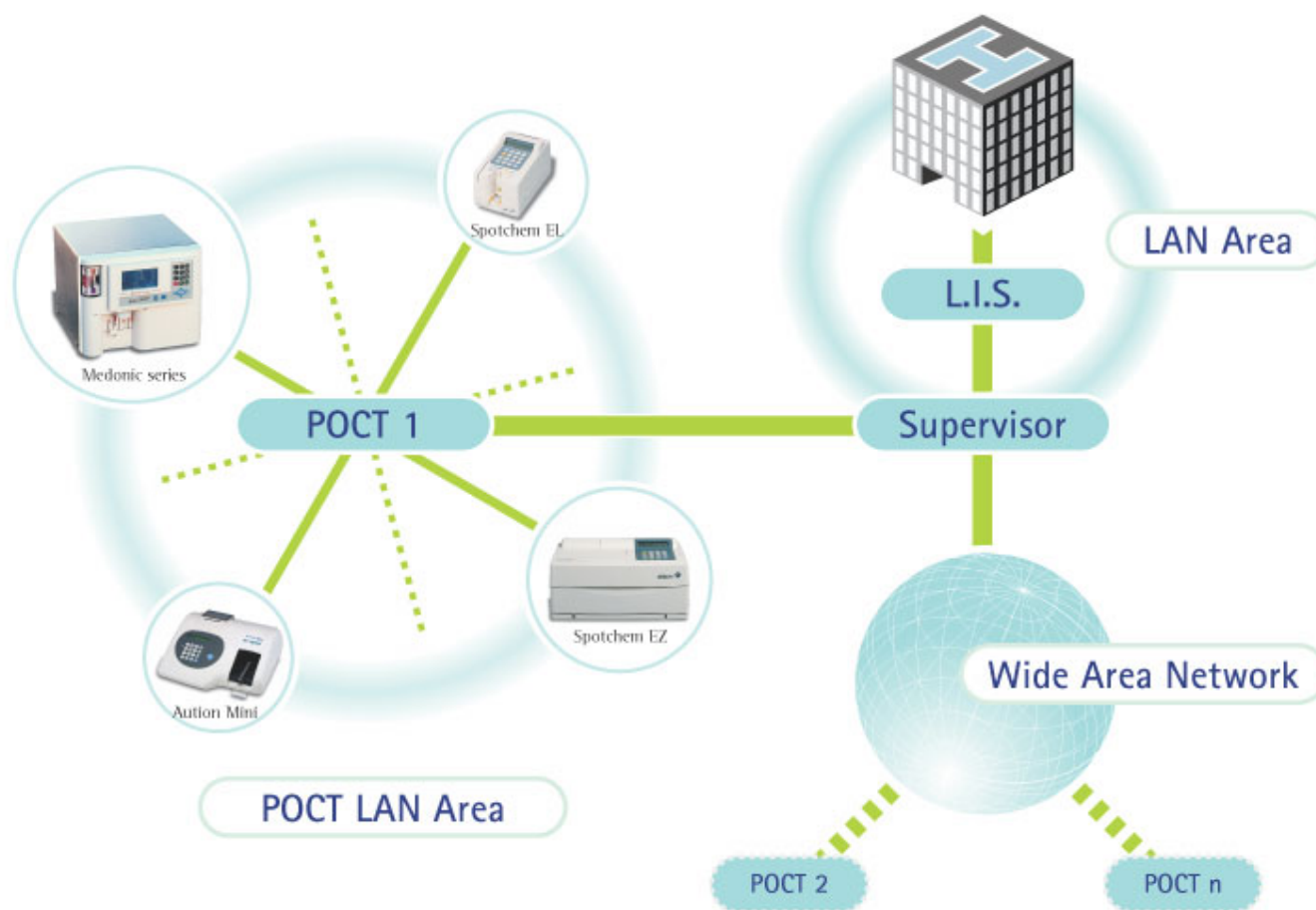
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NetCare 2.0: System Architecture





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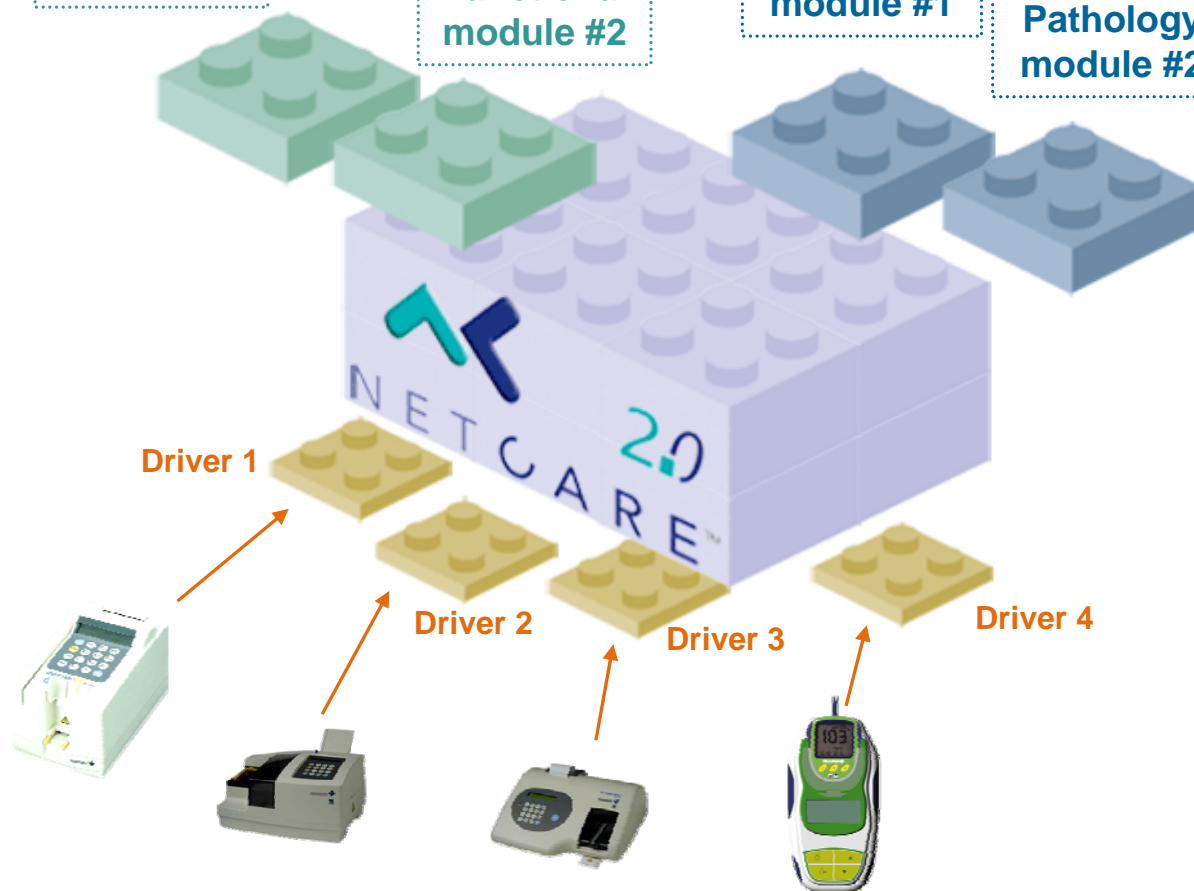
NetCare 2.0: The Modular Approach

Functional
module #1

Functional
module #2

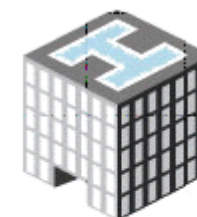
Pathology
module #1

Pathology
module #2



The NetCare 2.0
modular approach
permits the set-up
of tailor-made
applications

HL7



L.I.S.



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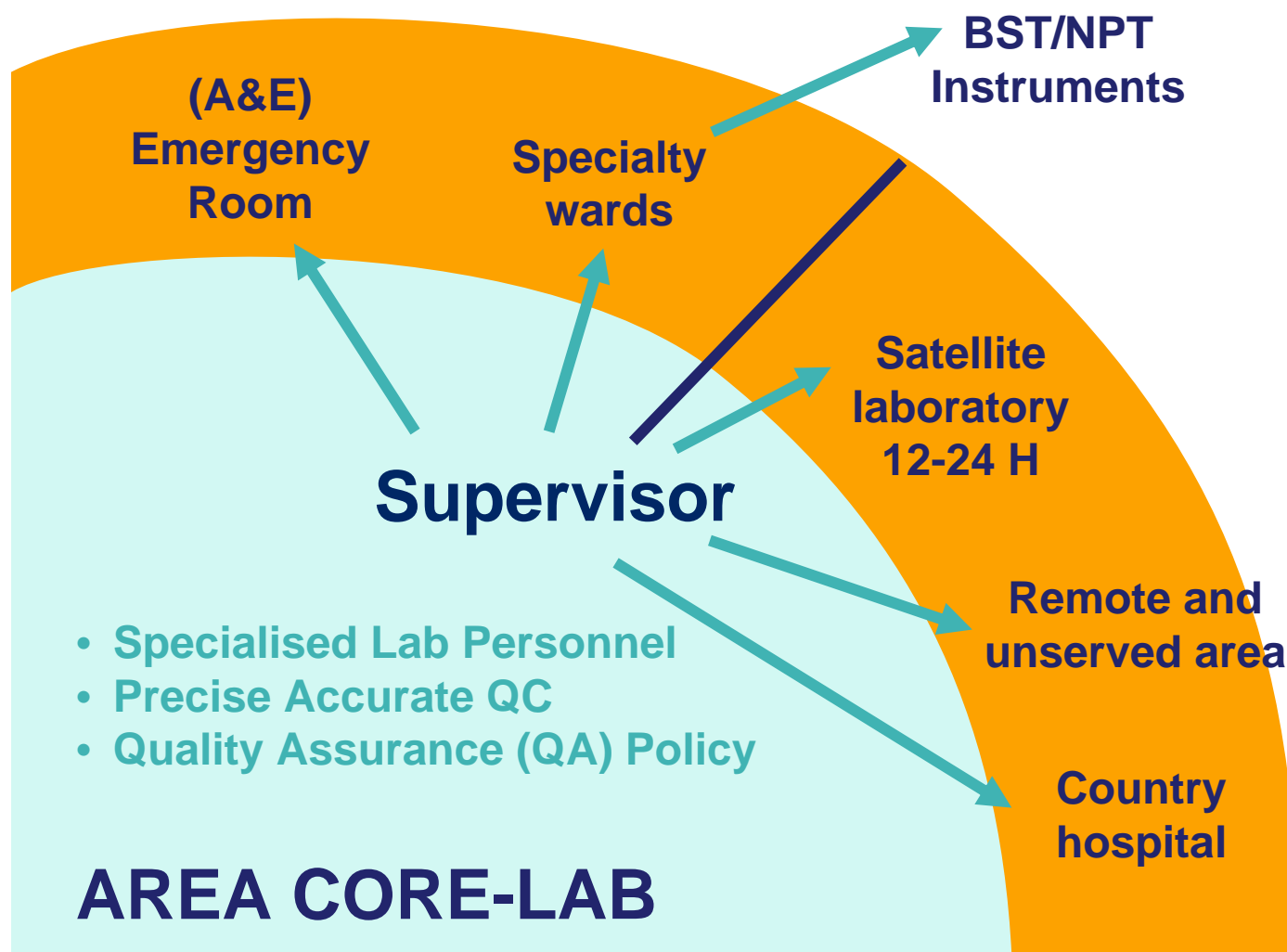
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NetCare 2.0 Applicability



AREA BST/NPT

- Non Lab Medicine Healthcare Providers
- QC: Not Available
- No Laboratory QA Policy



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The EolieNet Project

- The **EolieNet** project is aimed at developing a Telemedicine platform for the Eolian Archipelago with the following goals:
 - to take advantage in the field of the opportunity given by the ITC/E-health technologies in order to deliver individual medical health care in “hard to reach” areas;
 - to rationalise and personalise health care services;
 - to start-up a pilot project which could be considered “state-of-the-art” from a number of perspectives (i.e. technological, organisational and project management) to be re-used in different scenarios as a reference model.



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Eolian Archipelago





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Operational Frame

- The project is to gradually supply the telemedicine (TM) service to all the Minor Islands ,starting from the Eolian Archipelago.
- This operation is under the DPCM law promulgated on November 29th 2001 (*State-Regional agreement on the definition of LEA, the minimum state commitment to individual health care*) and the National Health Plan PSN (*start up of E-health services*).



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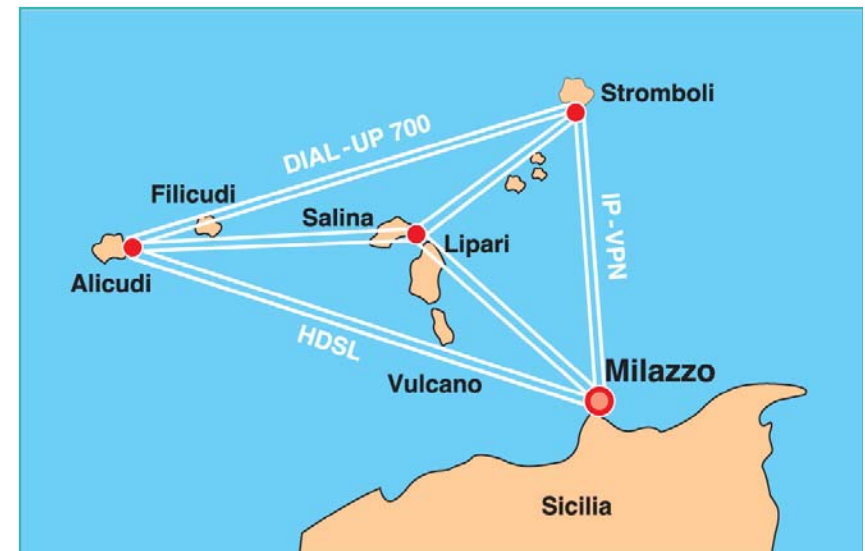


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Planned services

- The services offered, within the EolieNet Project are as follows:

- Instrumental Telediagnosics
Cardiology
Images
- E-Laboratory Testing;
- E-Booking: connection to CUP;
- E- Second opinion;
- Health Care Education: E-learning.



- The real heart of the system is the so called "Chat-Clin Portal" that provides, via Internet, the following features: 1) health-care info for citizens; 2) second opinions, 3) EMR management and 4) an E-learning platform for CME.



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IT infrastructure

- The Network provides all the sites involved in the EolieNet project with multimedial connectivity in VPM MPLS modality.
- The basic scheme is as follows:
 - Territorial data flow streamlined by using a VPN
 - Broad band access for the island using X-DSL based services;
 - Connectivity in a safe & secure dial-up for sites where X-DSL circuits have not yet been installed;
 - Hosting of servers in the Albacom's Internet Data Centres (IDC) in Rome and Milan.
Their architecture is based on redundant switches & routers connected to the servers in Fast Ethernet modality and to the Albanet IP backbone.





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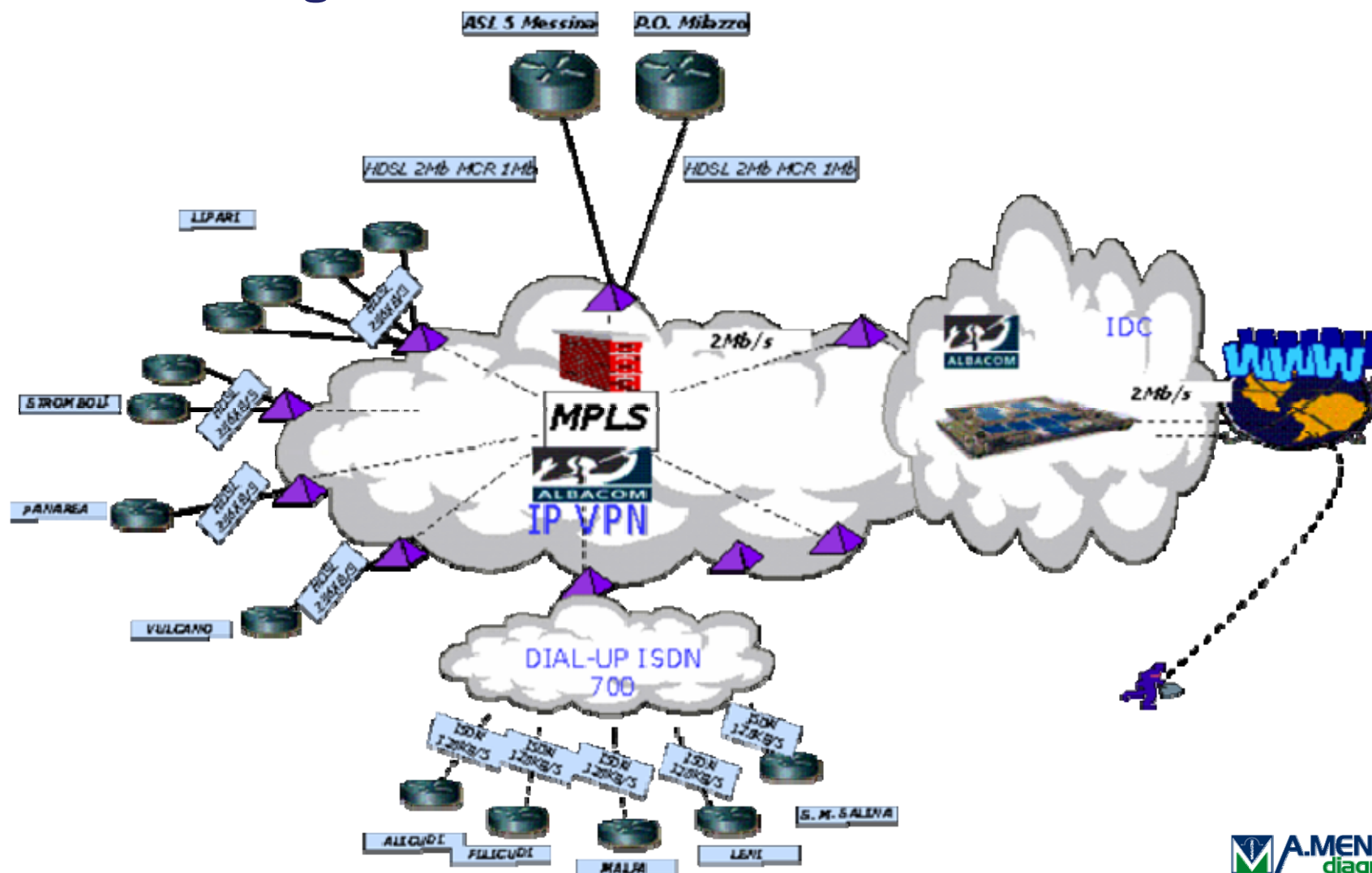
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Network Logic Architecture





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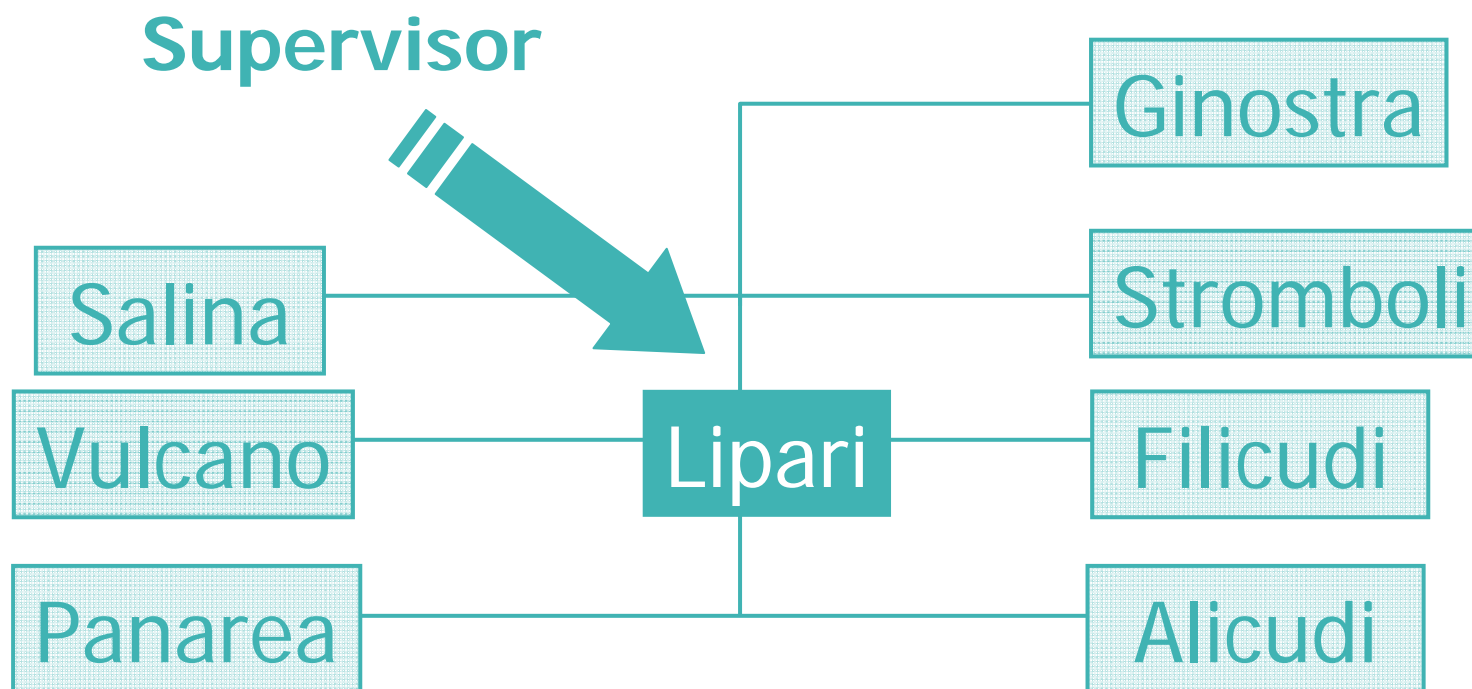


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E-Laboratory Testing

Installation of a POCT for each island that is within a specific health care area.





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Point-of-Care Testing Network

1) Salina	- PC - Printer - NetCare 2.0 Client	POCT#1	<div>Chemistry</div> <div>Urinalysis</div> <div>Haematology</div> <div>Coagulation</div> <div>Cardiac Markers</div> <div>Blood-Gas</div>
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NetCare 2.0 Lay-out

For the EolieNet project, the NetCare 2.0 system was deployed as follows:

POCT Diagnostic Analysers

Clinical Chemistry:	SPOTCHEM EZ SP-4430 (A.Menarini Diagnostics)
Urinalysis:	AUTION MICRO PU-4210 (A.Menarini Diagnostics)
Haematology:	MEDONIC CA620 (A.Menarini Diagnostics)
Cardiac Markers:	TRIAGE METER PLUS + QC (Biosite Inc.)
Coagulation:	HEMOCRON SIGNATURE (ITC)
Blood gas:	IRMA TRUPOINT (ITC)

NetCare system Hardware & Software

PC:	Hewlett-Packard, CPU P4, R256MB, TFT15", H40MB, CD, Keyboard, etc.
Printer:	Kyocera FS-1020D
SW:	NetCare 2.0 Client Licences (A.Menarini Diagnostics)
SW:	NetCare 2.0 Server Licence (A.Menarini Diagnostics)
SW:	NetCare 2.0 Instrument Drivers (A.Menarini Diagnostics)

NetCare 2.0 supports the **HL7** messaging standard that enables seamless multivendor interoperability among disparate healthcare applications





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Diagnostic Imaging

- Portable Echograph;
- Fixed Echograph;
- Portable X-Rays Machine;
- Computers for the acquisition & gathering of medical images based on the DICOM^(*) standard

(*)DICOM stands for "Digital Imaging and Communications in Medicine". It is a standard for distributing and viewing any kind of medical image regardless of the source of it.





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The "Chat-Clin" Portal for E-Health Service

The screenshot shows a web browser window displaying the "Sanità piccole isole" portal. The browser's address bar shows a URL starting with "http://". The portal has a blue header with the site name and a navigation menu. The main content area features a large image of healthcare professionals and the text "il Portale di tele medicina online". There are several sidebars with various services and information.

Sanità piccole isole

Home | Nuovo Articolo | Il tuo Profilo | Contenuti | Discussioni | Top 10 | Settembre 28, 2007

Area Operatori Sanitari

- Episodi Clinici
- Netcare
- E-Learning
- Banche Dati
- Link Utili

Area per il Cittadino

- Servizi alla Salute
- Numeri Utili
- Notiziario

Evento 14 settembre 2007
Tuesday, 04 September @ W. Europe Daylight Time di admin (1 lettura)
Il prossimo 14 settembre l'ASL 5 di Messina ha organizzato, con la collaborazione di AGIC Consulting, a Malfa (Isola di Salina) una presentazione del progetto Eolinet
Vai al comunicato

Richieste di Assistenza
Thursday, 08 March @ W. Europe Standard Time di admin (34 lettura)
Anonimo Scrivere "Per contattare l'Assistenza relativamente a problemi di connessione ad Internet seguire le istruzioni presenti nella sezione Banche Dati/Downloads presente richiamabile dalla Home Page del Portale.
Per contattare l'Assistenza relativamente al funzionamento del Portale e alle richieste delle smart card chiamare il numero 06.888851 e far riferimento al progetto Eolinet."

Login

Nickname

Password

Forum

Discussione 1
Sanità Piccole Isole Forums

Chi sei

Utente, Utente
Il tuo IP: 151.11.86.7
Il tuo provider: 86.7
Il tuo nome: 11
Il tuo browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1)



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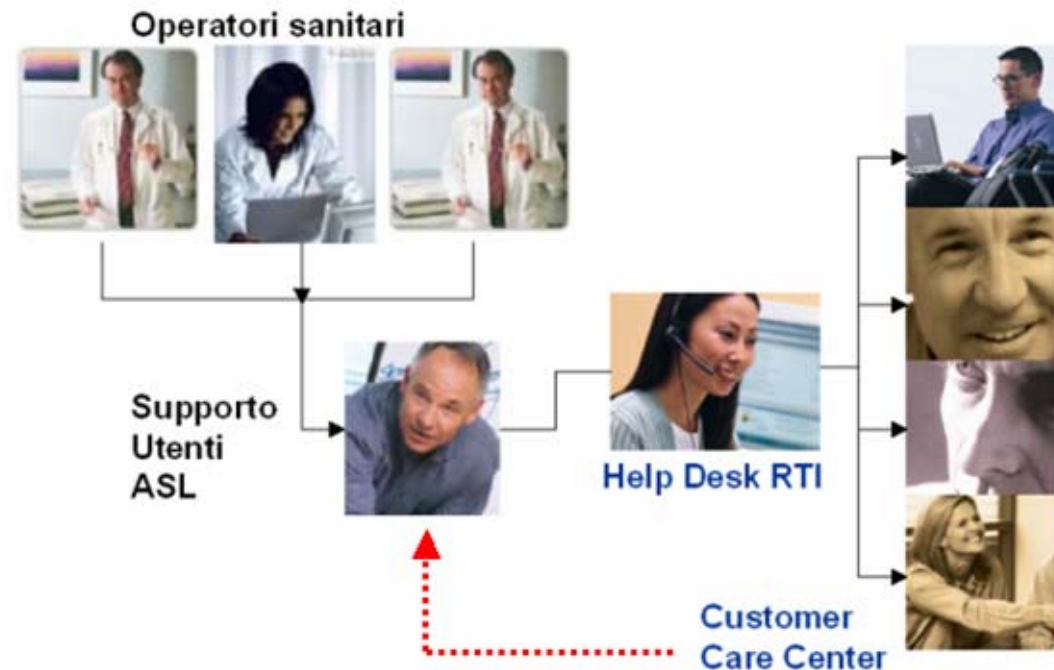


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Help Desk

- The planned Help Desk is basically a Customer Support Service for the provision of assistance in case of: 1) reset of the system after faulty events, 2) quality matters, 3) billing & accountability.
- 24/7 availability per 365 days a year

The Help Desk avails of the support provided by team of technicians belonging to the ASL staff. Their service is named "Supporto Utenti ASL"





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Organisations Involved

- BT Albacom SpA (a British Telecom B2B Provider)
- AGIC Consulting
- The Ministry of Health
- Azienda ASL 5, Messina, Sicily (Healthcare Unit)
- ANSPI (National Association for the Provision of Healthcare in Minor Islands)
- The Telemedicine Unit, IRCCS Hospital Sacco, Milan

IRCCS stands for Institute for Research & Cure of a Scientific Nature



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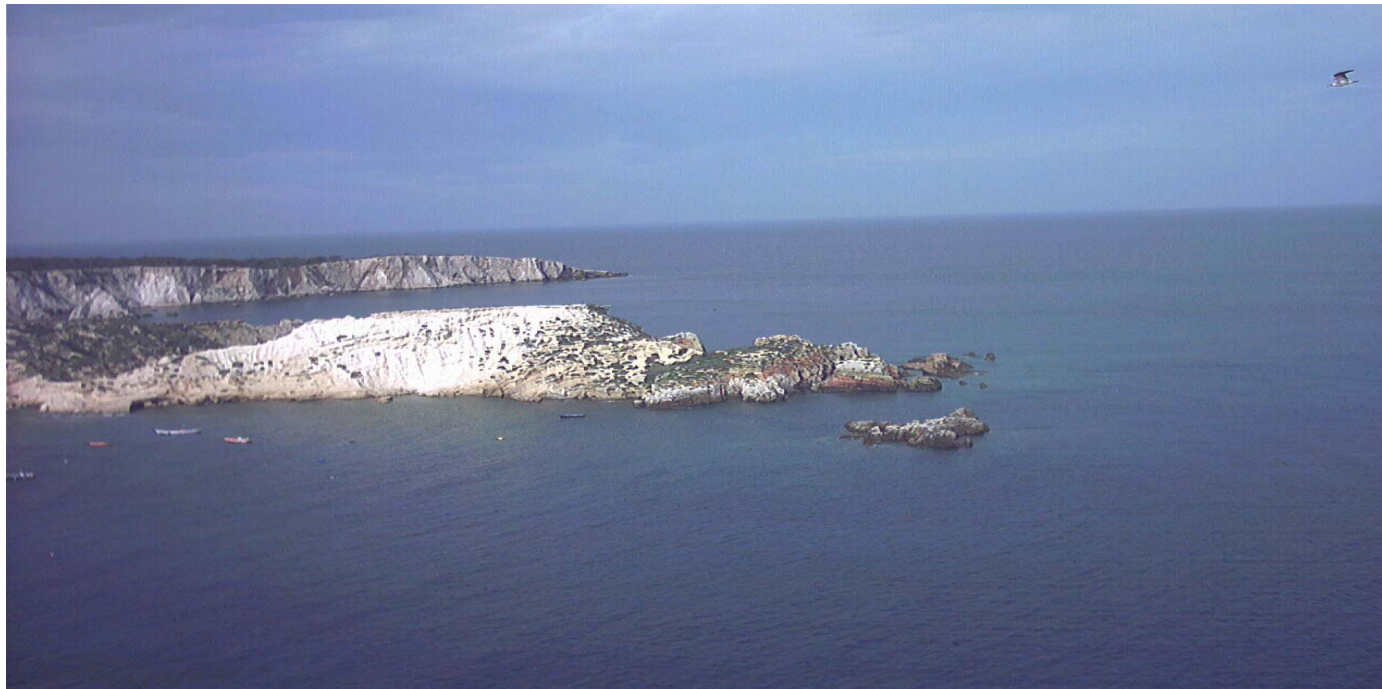


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Financing

A sum of 1.6 Million Euro has been set aside by the Ministry of Health to fund the entire project.





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#2: The Chr.I.S.T.I.N.A. Project (with ISS)

Cure of post-acute cardiovascular patients via home telehealth

CHRonic **I**llness **S**upport Through **T**elemedic**I**ne a**N**d Home **A**ssistance

- Evaluation of the overall outcomes when dealing with post acute patients managed at home with telehealth solutions.
- Evaluation of the instrumentation and the relevant running costs.
- Validation of models supporting the creation of territorial networks that enable patients to self-manage chronic pathologies without leaving home (**disease manager model**).

Expected Outcomes:

- The patient does not have the inconvenience of leaving home to have access to specialty care
- Hospital can reduce the workload of managing the care of in-patients



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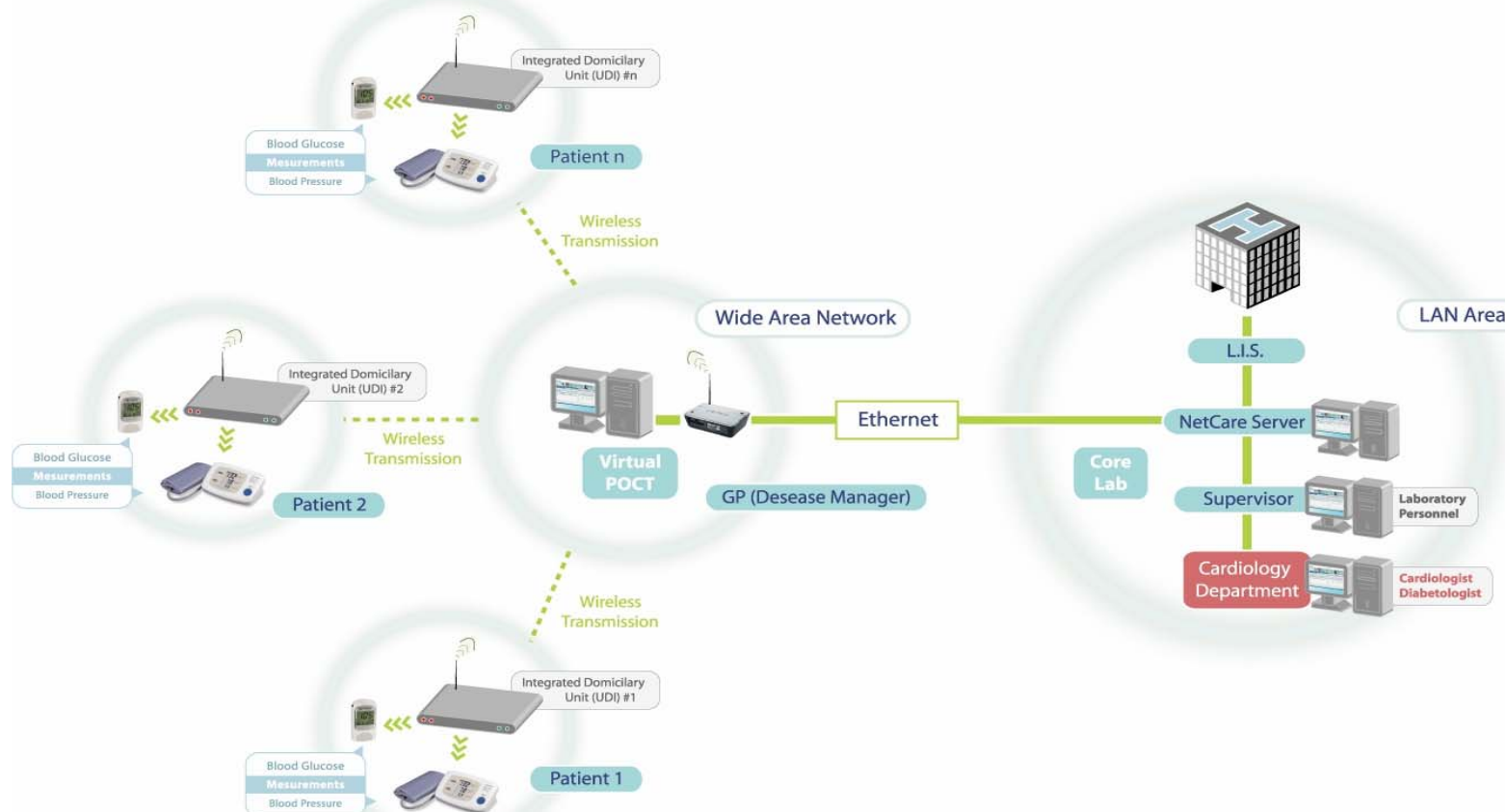
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The Chr.I.S.T.I.N.A. Project (with ISS)

Scheme of the project





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NetCare 2.0 & E-POCT Abroad: The UK & NL Experience

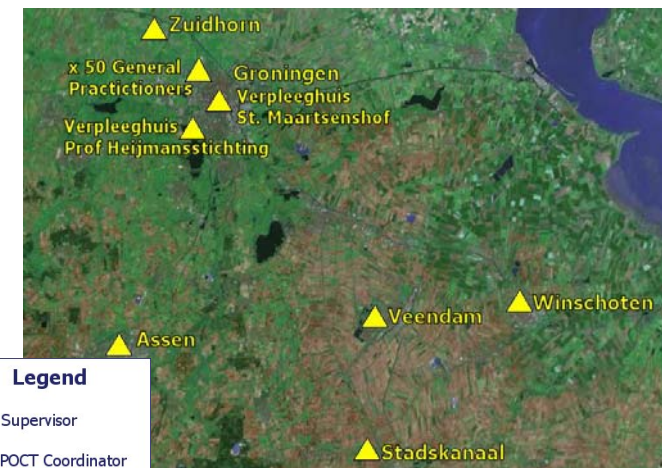
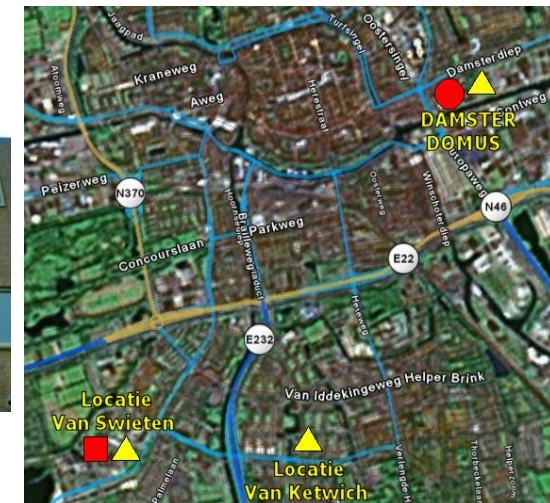
NetCare 2.0 at Nuffield Screening - UK

Supervisor:
Warwick Nuffield
Hospital



NetCare 2.0 in
Groningen - NL

POCT:
London
Screening
Centre



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