

Veneto's Research Centre for eHealth Innovation

Health Information Exchange (HIE) in practical use in the Veneto Region

Elena Vio



• 4,9 M inhabitants (2013 data)

• 18.391 km² of land surface



Veneto Region

9 Local Health Authorities(ex 21 LHAs)

- Healthcare assistance (Hospitals)
- Territorial assistance and social issues (GPs, outpatients' clinics, elderly care, in-home assistance, mental health, disability, drug addiction, ecc...)
- Prevention department

2 Hospital Trusts

- University education and research
- High-specialty services



The Consortium Arsenàl.IT: Veneto's Research Center for eHealth Innovation

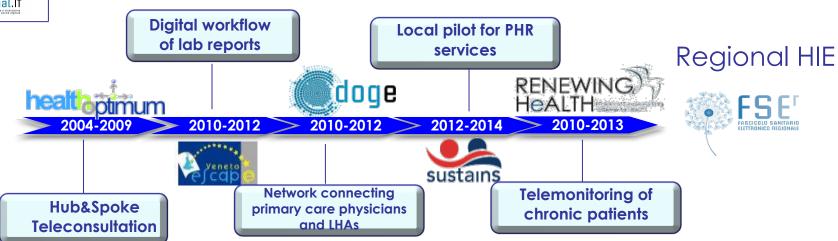


Founded in 2005 as "Telemedicine Consortium", currently groups all the 23 Local Health Authorities and hospital trusts (now 11) afferent to the Veneto Region.

Has succeeded in highlighting the critical issues of interoperability, standardization and organizational impact as key factors for driving Telemedicine applications to the mainstream of the care delivery process.



eHealth projects in Veneto Region





	IHE Profile	Use				
	XDS	Sharing teleconselling docs, lab reports, ePrescription, eReferral, telehomemonitoring summaries				
	XDS-I	Sharing CT Images				
	XD-LAB	Lab report structure				
	EUA/XUA	User security]			
	ATNA	Connection security, audit				
	XDW	Workflow management				
	XBeR-WD	eReferral workflow				
	XTHM-WD	Telehomemonitoring workflow	er			



The Regional HIE project in the Veneto Region

Italian National Law about HIE:

- Privacy Authority, 16/07/2009: «Privacy guidelines for EHR»
- Ministry of Health, 11/11/2010: «National guidelines for EHR»
- Law 221/2012 and Law 98/2013: The National EHR became an Essential Level of Care (LEA);
- The regions, the ministry of health and the AgID have developed the guidelines for the presentation of project plans
- All regions have presented the project plans in June 2013
- The project plans were evaluated by Ministry of Health and AgID (National Agency for Innovation) and the evaluation process was concluded in April 2015



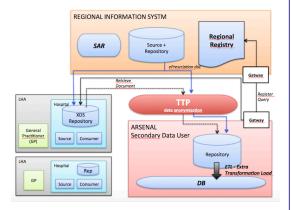
- 70.000 healthcare operators;
- 4000 GP/pediatricians, over
 50 health districts,
- 1300 pharmacies etc..;
- 4,960,336 citizens;



Data Sharing

infrastracture





Data Sharing

infrastracture



Clinical Data Sharing

semantic

XDS-lab, PCC profiles

Data Sharing

infrastracture



Clinical Pathways

workflow

XDW, PCC WD profiles (XBeR-WD, XTB-WD, etc)

Clinical Data Sharing

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Governance&Research

Quality,
Public Health
& Research

QRPH profiles

Clinical Pathways

workflow

XDW, PCC WD profiles (XBeR-WD, XTB-WD, etc)

Clinical Data Sharing

semantic

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Data Sharing

infrastracture



HIE status of the art

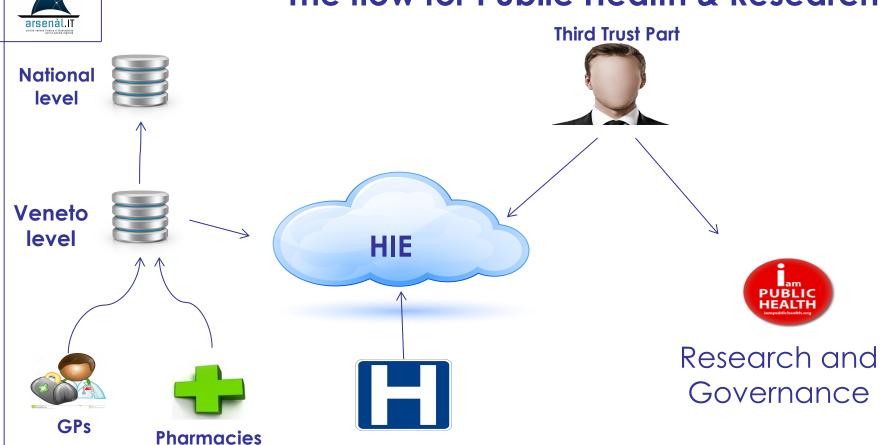
- Complete the ePrescription and eDispensation (3.800 GPs, 4.300 Hospital physicians, 1.330 Pharmacies, 40M/year)
- Complete eReferral request (20 M/year)
- Started at 1° Dec 2015 the visit booking by GPs
- Start at 1° Nov 2016 CDA Lab Report sharing/Discharge Summary/ED reports/Radiology Reports

From 1° July first deployment of MHD

Mobile app to support citizens in ePrescription (request new prescription to the GP) and eDispensation in Farmacies

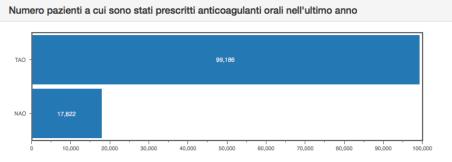


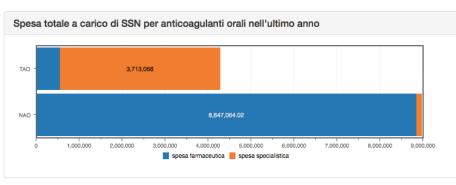
The flow for Public Health & Research

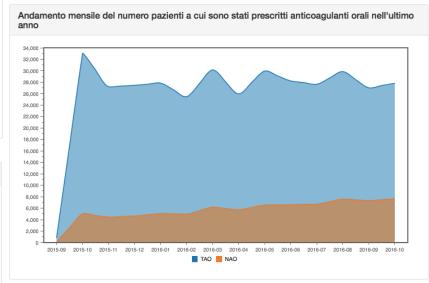




QRPH examples OAT analysis: old dugs (walfarin) vs new drugs



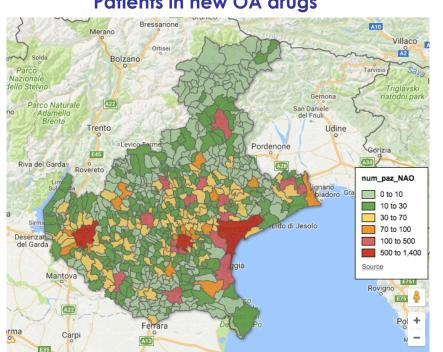




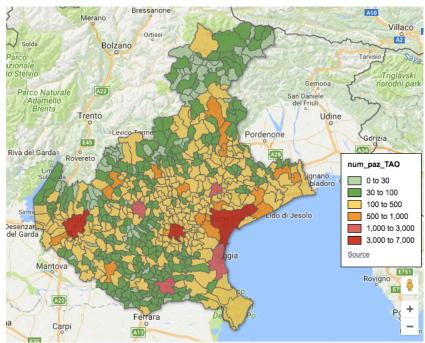


QRPH examples Geo drug analysis

Patients in new OA drugs



Patients in old OAT





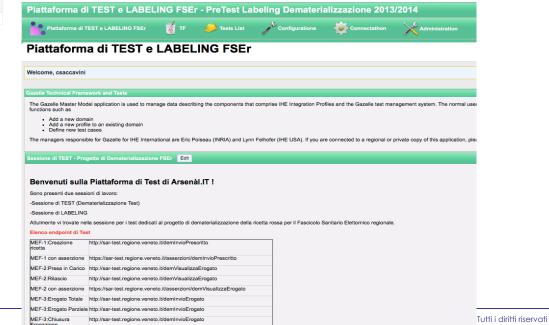
: Testing @ Consorzio Arsenal

Access tools

Tool	Description		
Gazelle Test Management	The Gazelle Test Management Test Bed		
EVSClient	Access to Gazelle validation services		
SchematronValidator	Access to Gazelle Schematron Validator		
Gazelle Proxy	Access to Gazelle Proxy		



Strategy for a regional HIE: Testing & tools approach





Meet Initial
Requirements

Testing & tools approach: Model

Project

Design

Startup Evaluation

Standardization

Technology Trust Training

Testing/refineabeling ment

GDL-O Spec *J* Fix Pilo Specs

Test plan

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Testing & Tools approach: Results

systems	tested	retired	total
GPs : ePrescription	13	1	14
GPs: BPPC Content Creator	10	0	10
GPs: Doc Retrieve	5	0	5
Pharmacies	9	1	10
CUP: Presa in carico, erogazione	9	0	9
CUP: booking	11	0	11
EHR	12	0	12
Doc Repository	22	0	22
Laboratory Report Content Creator	6	1	7
Notification	5	0	5
total			

4 FTE for T&Tx



The challenge



complete integration with EU Regions: eHealth CEF

complete integration with US → Trillium Bridge, Trillium-II





Thank you for your attention!

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