IHE ITALIA Integrating the Healthcare Enterprise

IHE AUSTRIA Integrating the Healthcare Enterprise

European country report

Italy

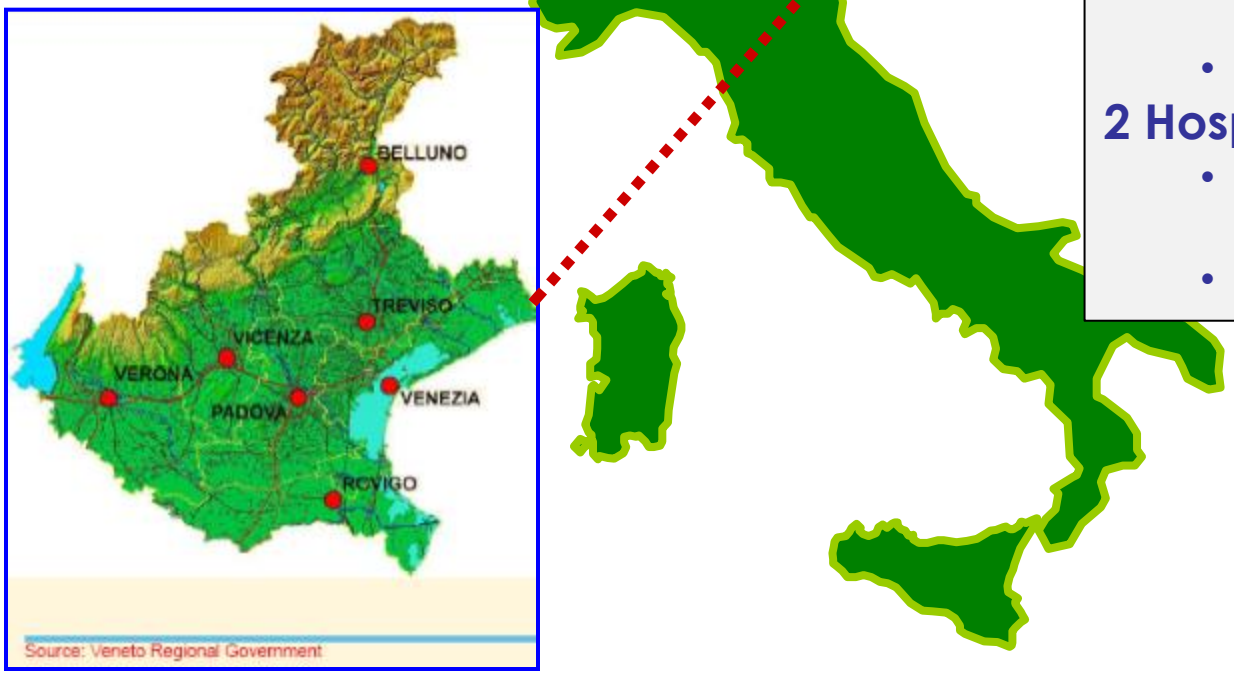
Claudio Saccavini

Technical Director Consorzio Arsenal.IT

Wien, 3rd November 2015

Veneto Region & Arsenàl.IT

- 4,9 M inhabitants (2013 data)
- 18.391 km^2 of land surface



21 Local Health Authorities

- 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

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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 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.

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HIMSS

HIMSS - *Healthcare Information Management and Systems Society* – is a global, cause-based, not-for-profit organization focused on better health through information technology (IT). HIMSS leads efforts to optimize health engagements and care outcomes using information technology.

HIMSS mission : Globally, lead endeavors optimizing health engagements and care outcomes through information technology

transforming healthcare through IT

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HIMSS assessment

The **EMRAM (E**lectronic **M**edical **R**ecord **A**doption **M**odel**)** is an eight-step process that allows you to analyze your organization's level of EMR adoption, chart your accomplishments, and track your progress against other healthcare organizations across the country. View and compare your scores in the HIMSS Analytics® Database.

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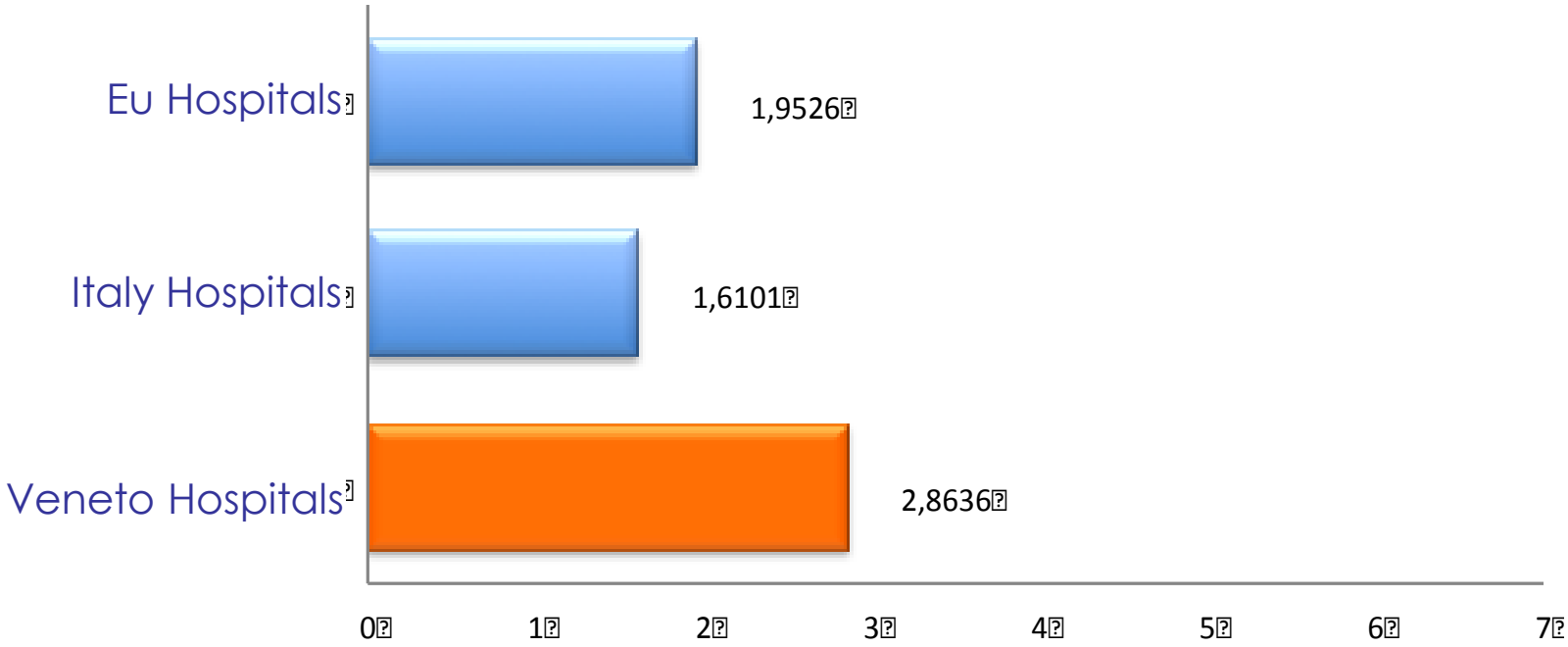
Veneto Region Hospital EMRAM



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Italian national EHR project

- Privacy Authority, 16/07/2009: «Privacy guide lines for EHR»
- Ministry of Health, 11/11/2010: «National guide lines for EHR»
- Law 221/2012 and Law 98/2013: The National EHR became an Essential Level of Care (LEA) ;

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Italian national EHR project

- 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

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Italian national EHR project

- The regions, the ministry of health and the AgID have developed the specifics for the interoperability between regionals nodes
- Three regions (Veneto, Lombardia, Emilia-Romagna) have tested the specificications
- The first actuative decree (required by the law) has recently been signed by the minister of health and minister of economy

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HIE project in Veneto

- The regional law n.23/2012 (New Social Health Plane) introduced in Veneto the EHR

- Resolution 1671/2012 of the Regional Government has begun the work of implementation of the EHR in Veneto

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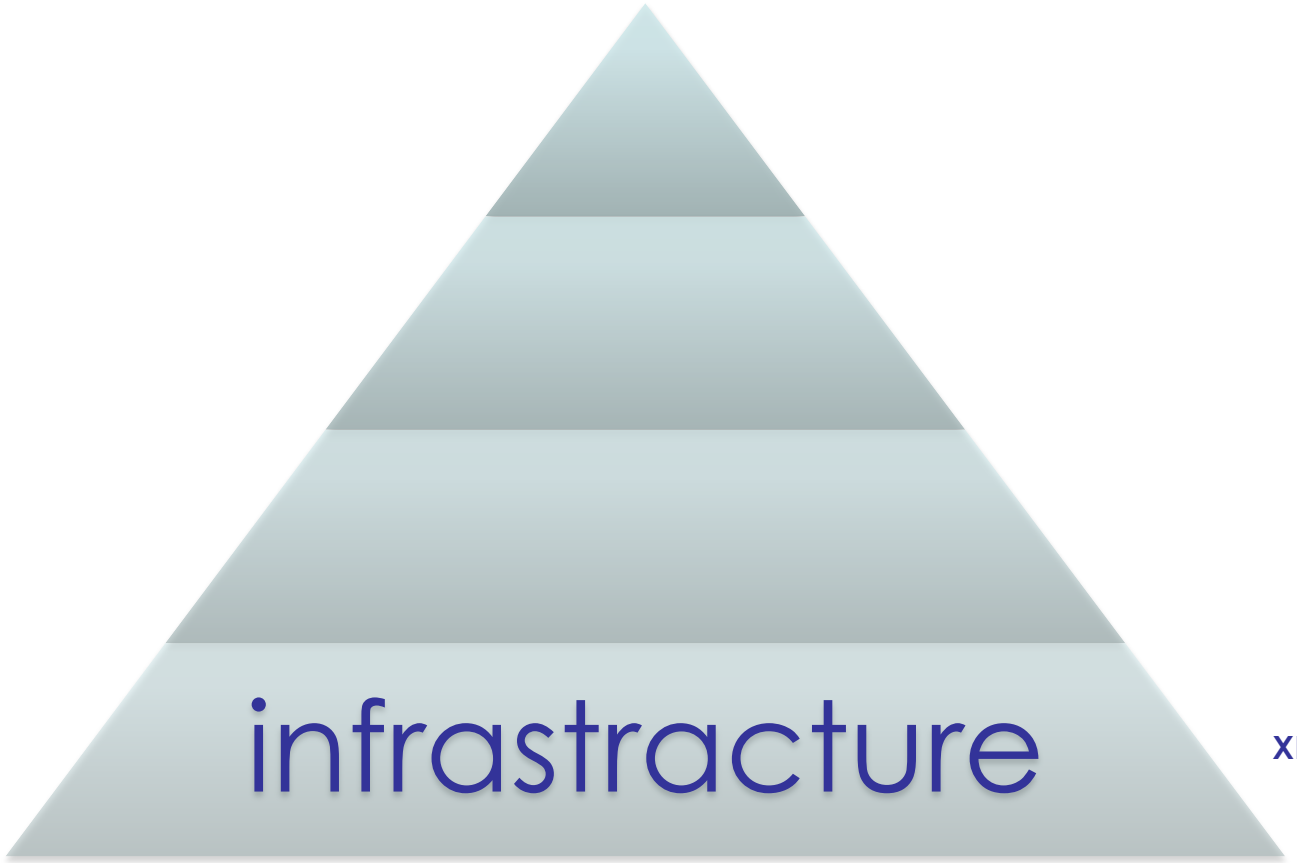
HIE Veneto Region



XDS, XUA, BPPC

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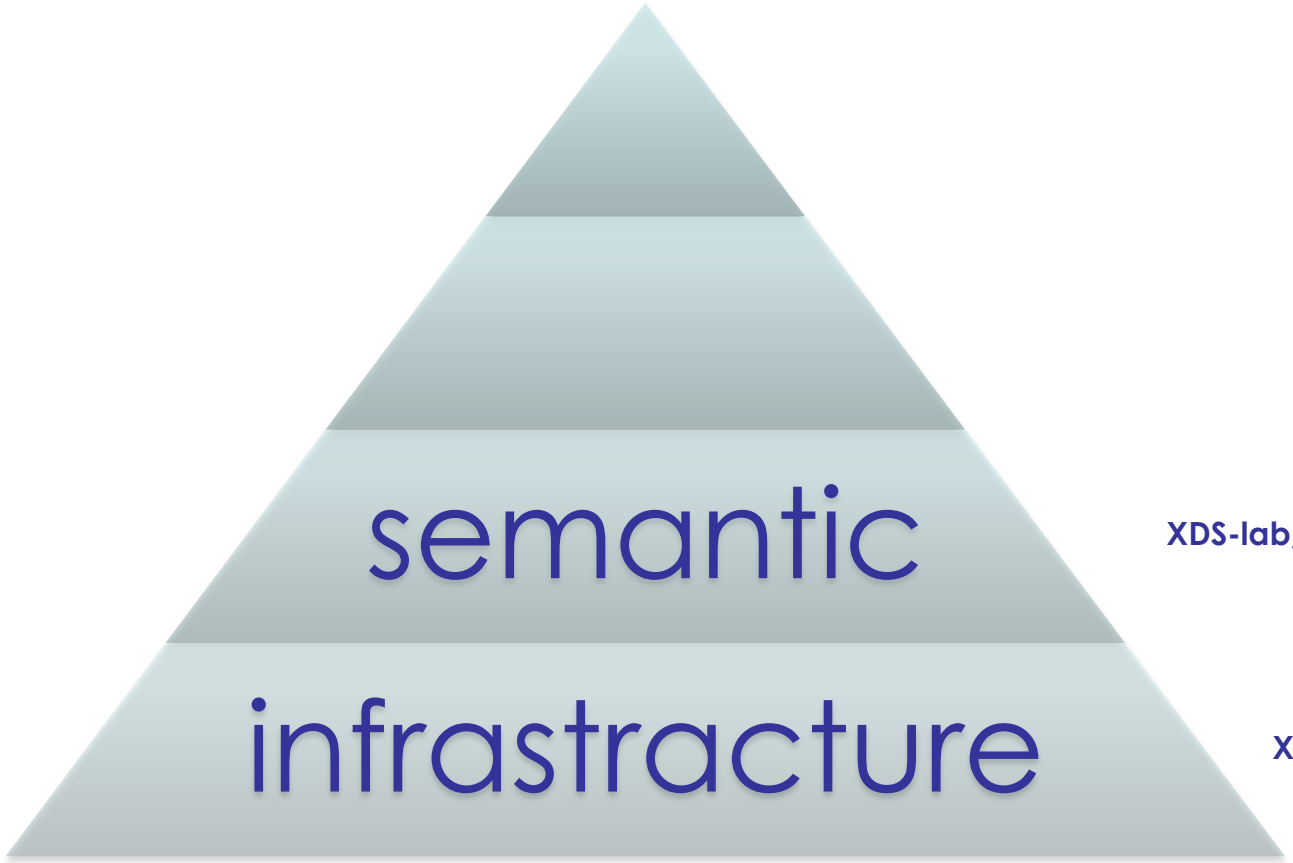
HIE Veneto Region



XDS-lab, PCC profiles

XDS, XUA, BPPC

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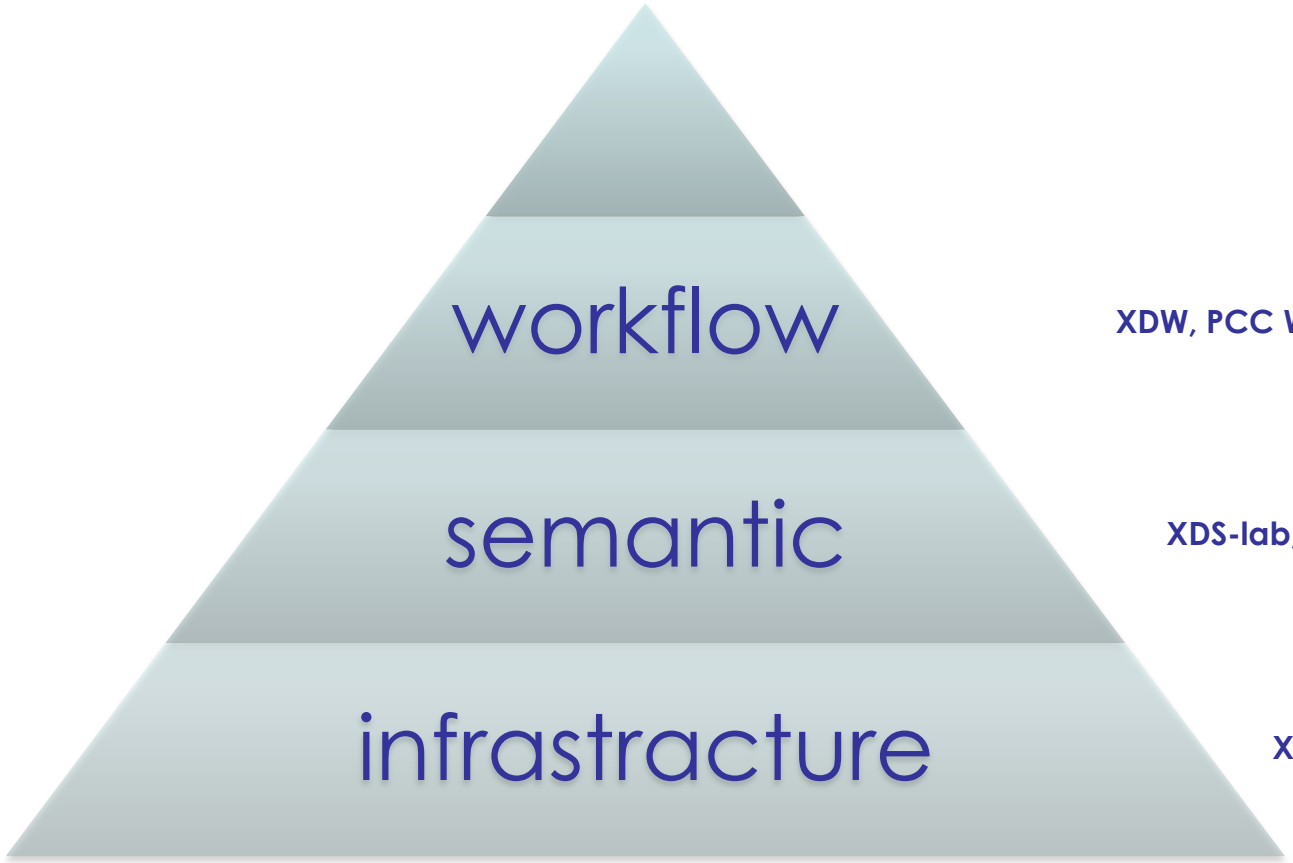
HIE Veneto Region



XDW, PCC WD profiles

XDS-lab, PCC profiles

XDS, XUA, BPPC

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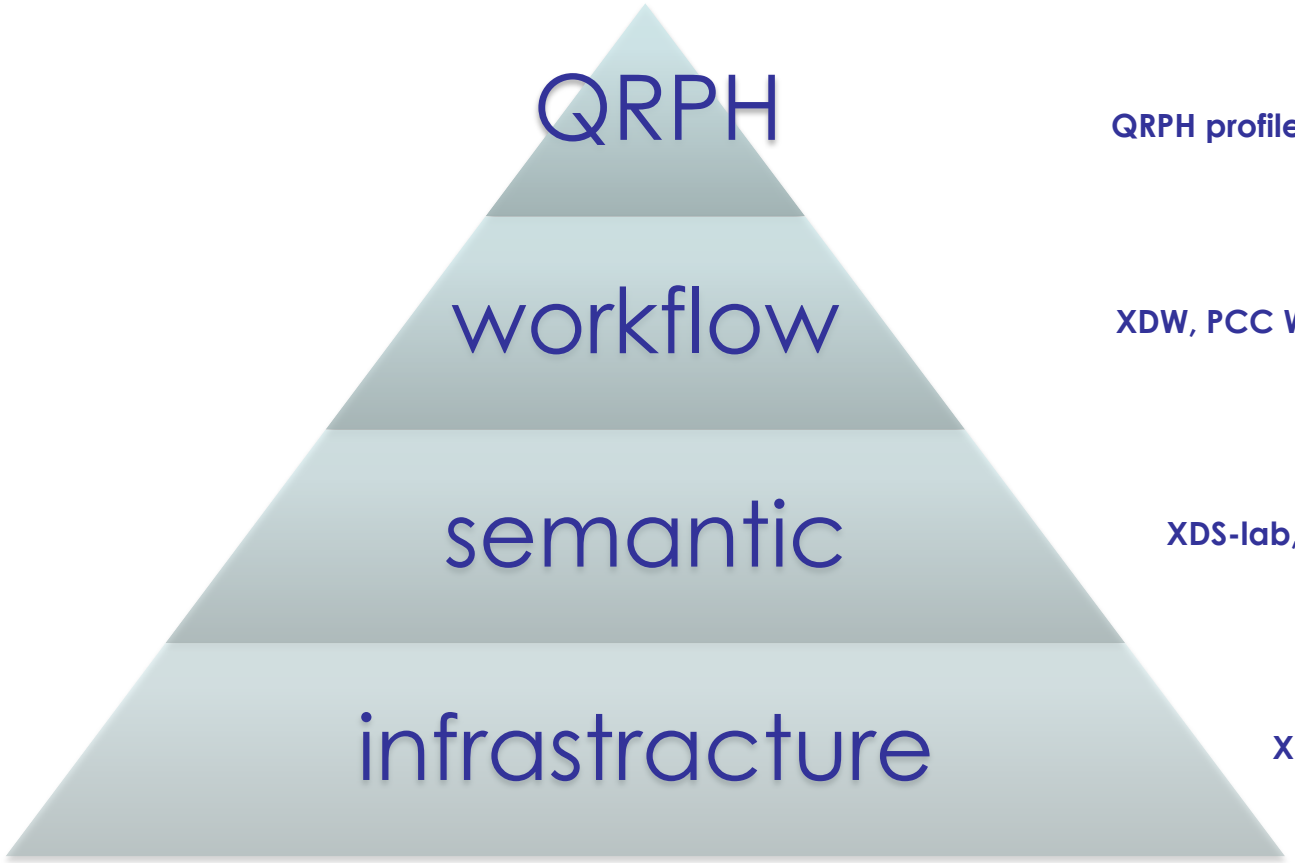
HIE Veneto Region



QRPH profiles

XDW, PCC WD profiles

XDS-lab, PCC profiles

XDS, XUA, BPPC

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Approach example ePrescription

Öresund Bridge (7800 m)

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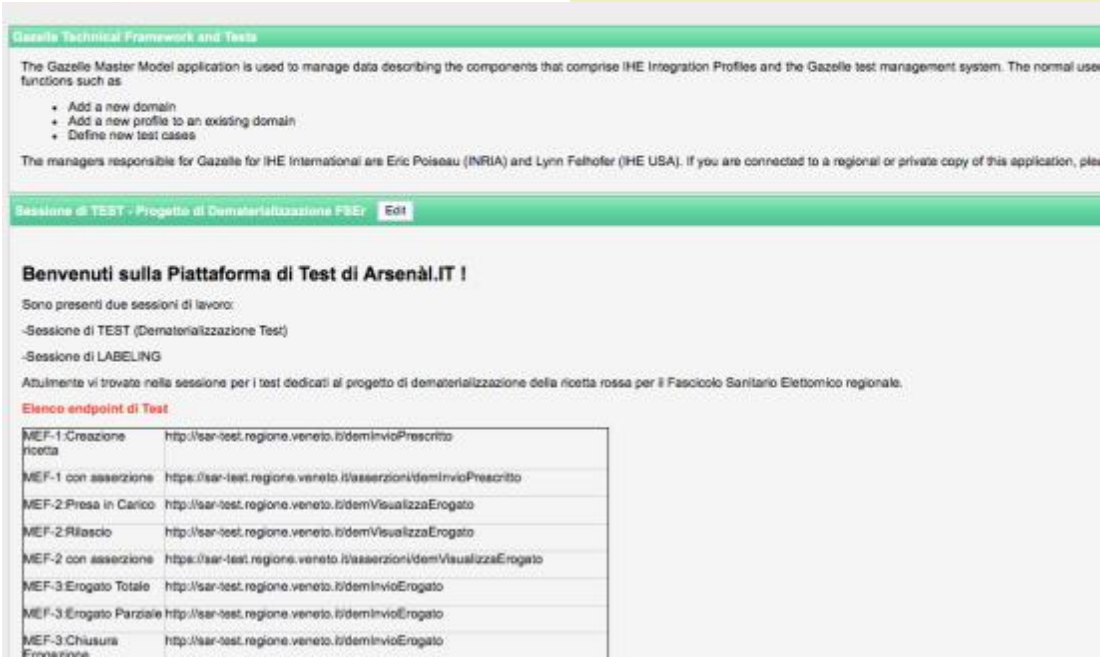
Testing & tools the platform

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



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Testing & Tools approach

- **First step – Labelling** : testing performed in "vitro" situation using simulators to assess the adherence of Project technical specification (performed in the Arsenàl.IT labs)

- **Second step – Pre Production Test**: testing performed in real condition (in particular using LHA systems) before starting with new software features

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Testing & Tools approach

systems	tested	retired	total
GPs	13	1	14
pharmacies	9	1	10
CPOE	8	0	8
EHR	12	0	12
total	**42**	**2**	**44**

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The flow

Third Trust Part

National level

Veneto level

HIE

GPs

Pharmacies

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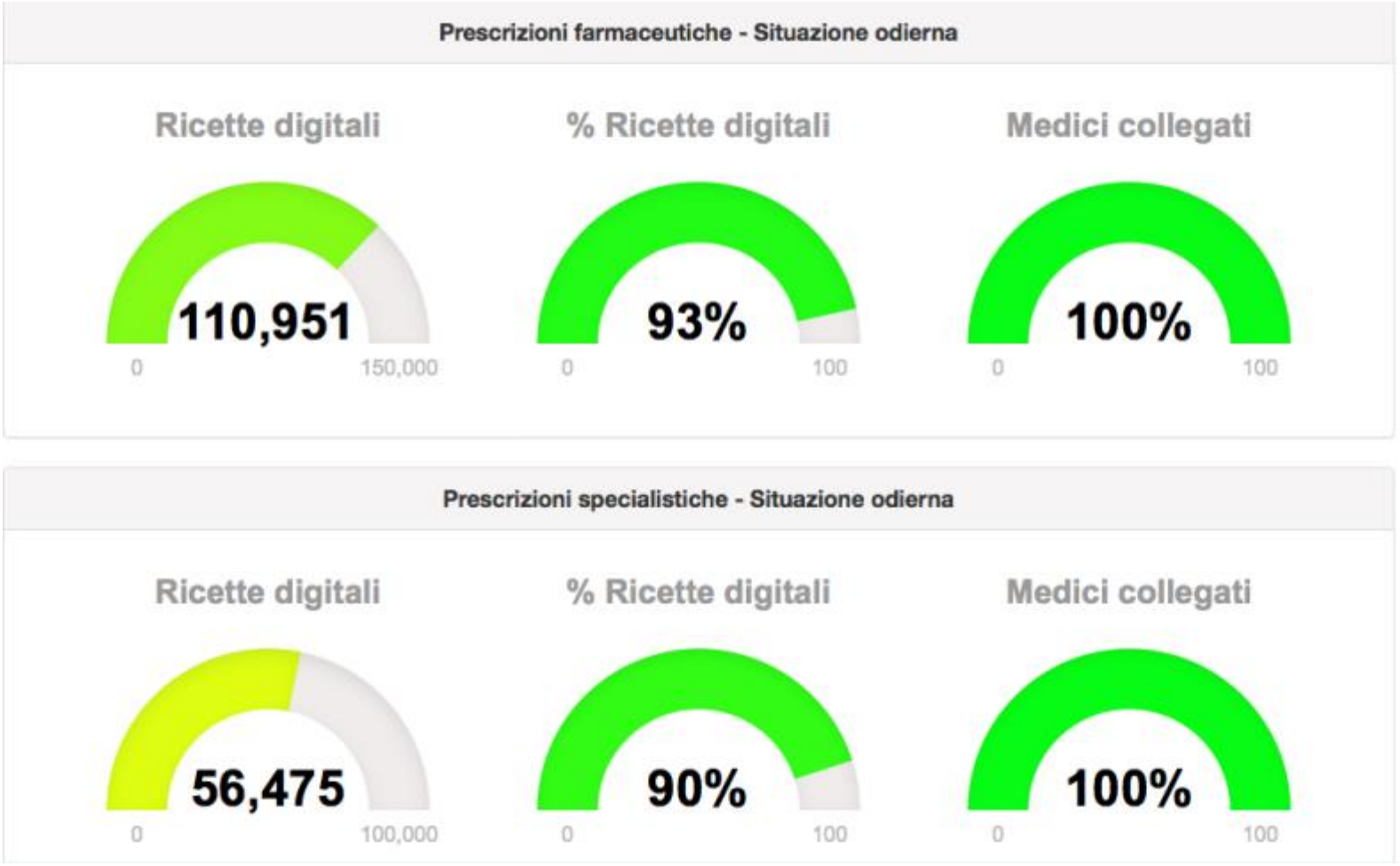
Quality analysis



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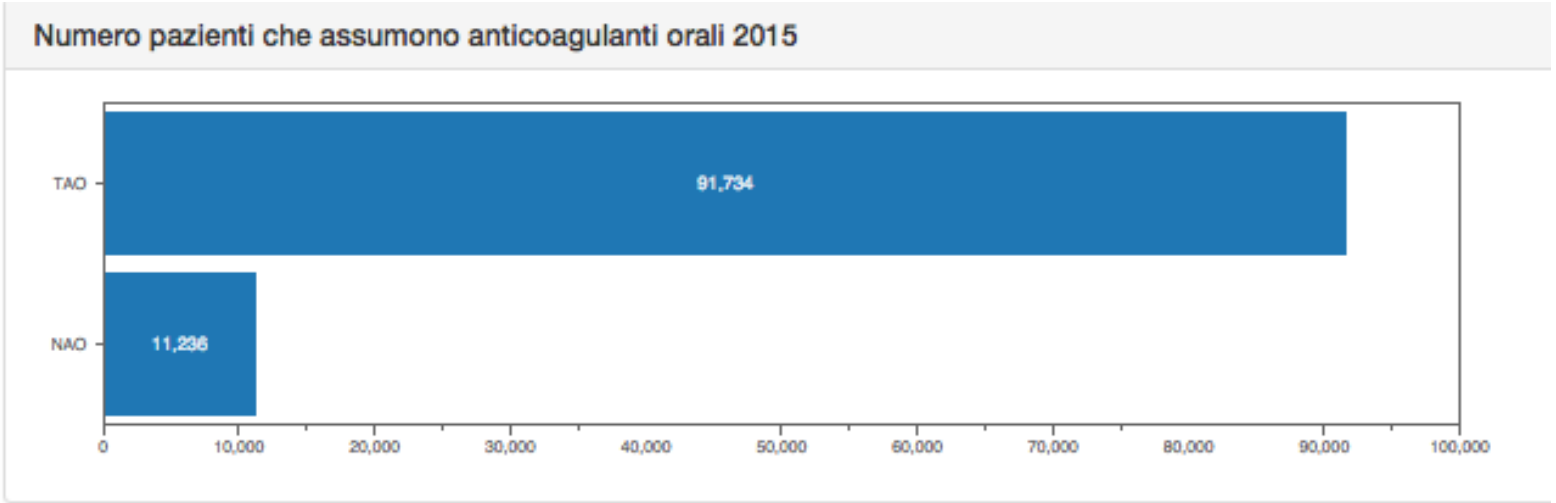
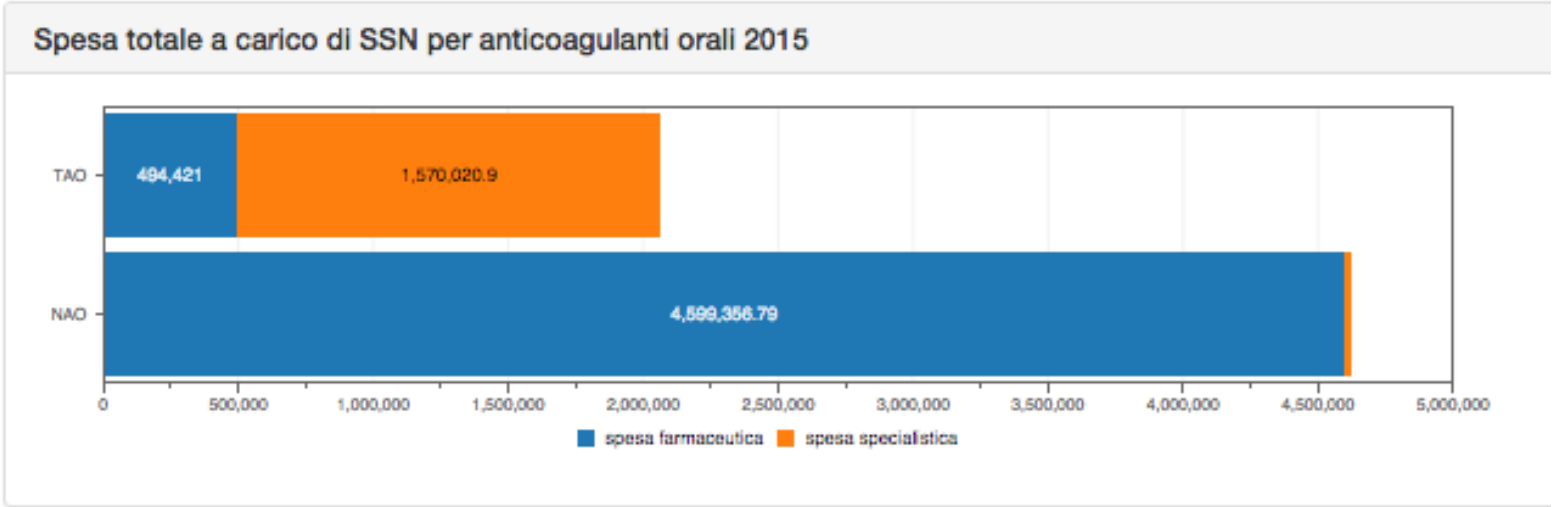
OAT analysis
old dugs (walfarin) vs new drugs





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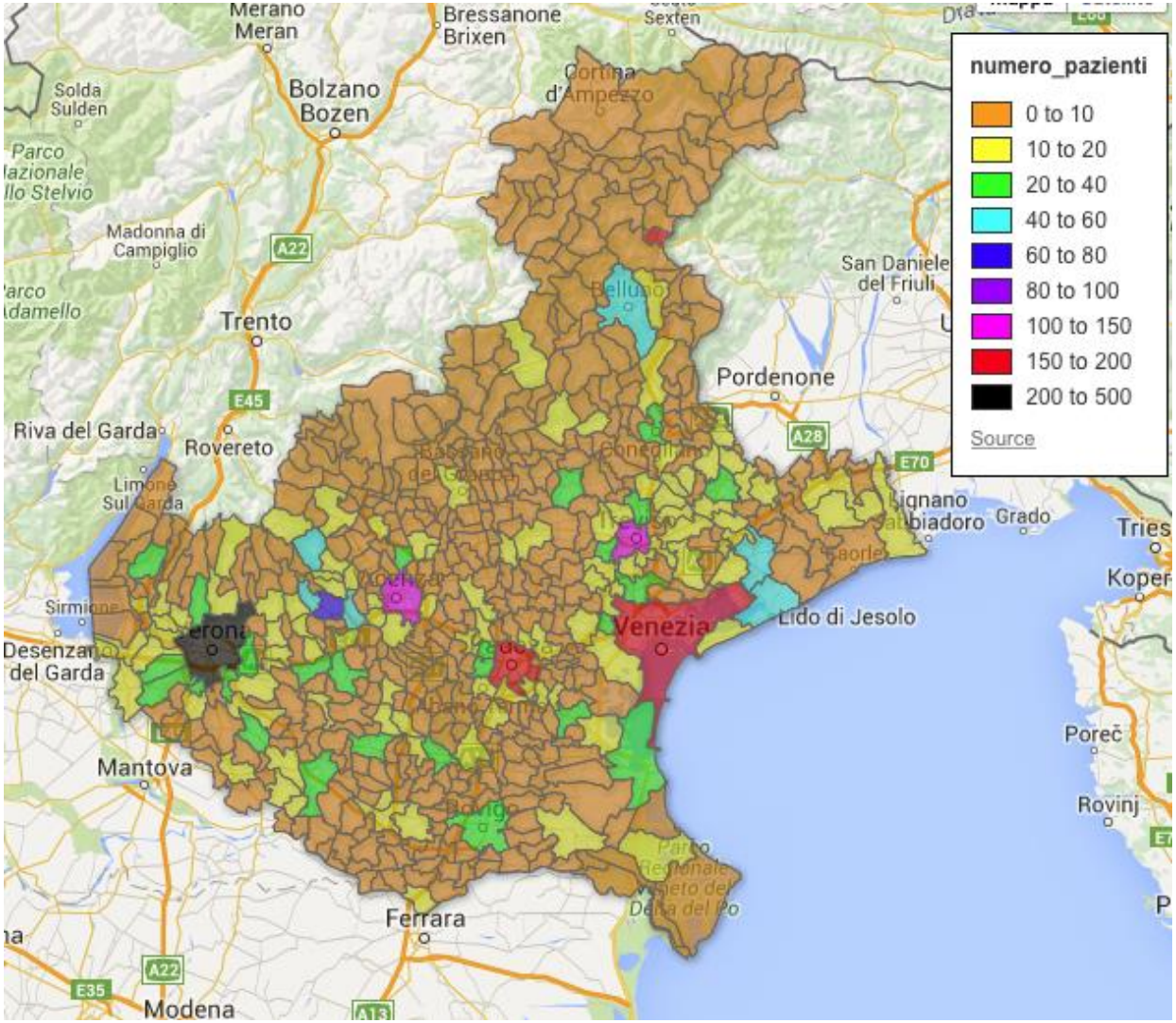
Geo pathology analysis
COPD



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The roadmap

- *1st Sep 2014 ePrescription & eDispensation running*
- *1st Apr 2015 eReferral running*
- *1st Oct 2015 Lab Reports sharing (CDA+LOINC) started*
- *1st Nov 2015 Patient Summary sharing*
- *1st Jun 2016 COPD and OAT clinical pathways*

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The challenge

January 2017 complete integration with EU Regions by epSOS

January 2017 complete integration with US HIEs by Trillium Bridge

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Thank you

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MRCLIC Veneto ESCAPE

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