

InfoCert

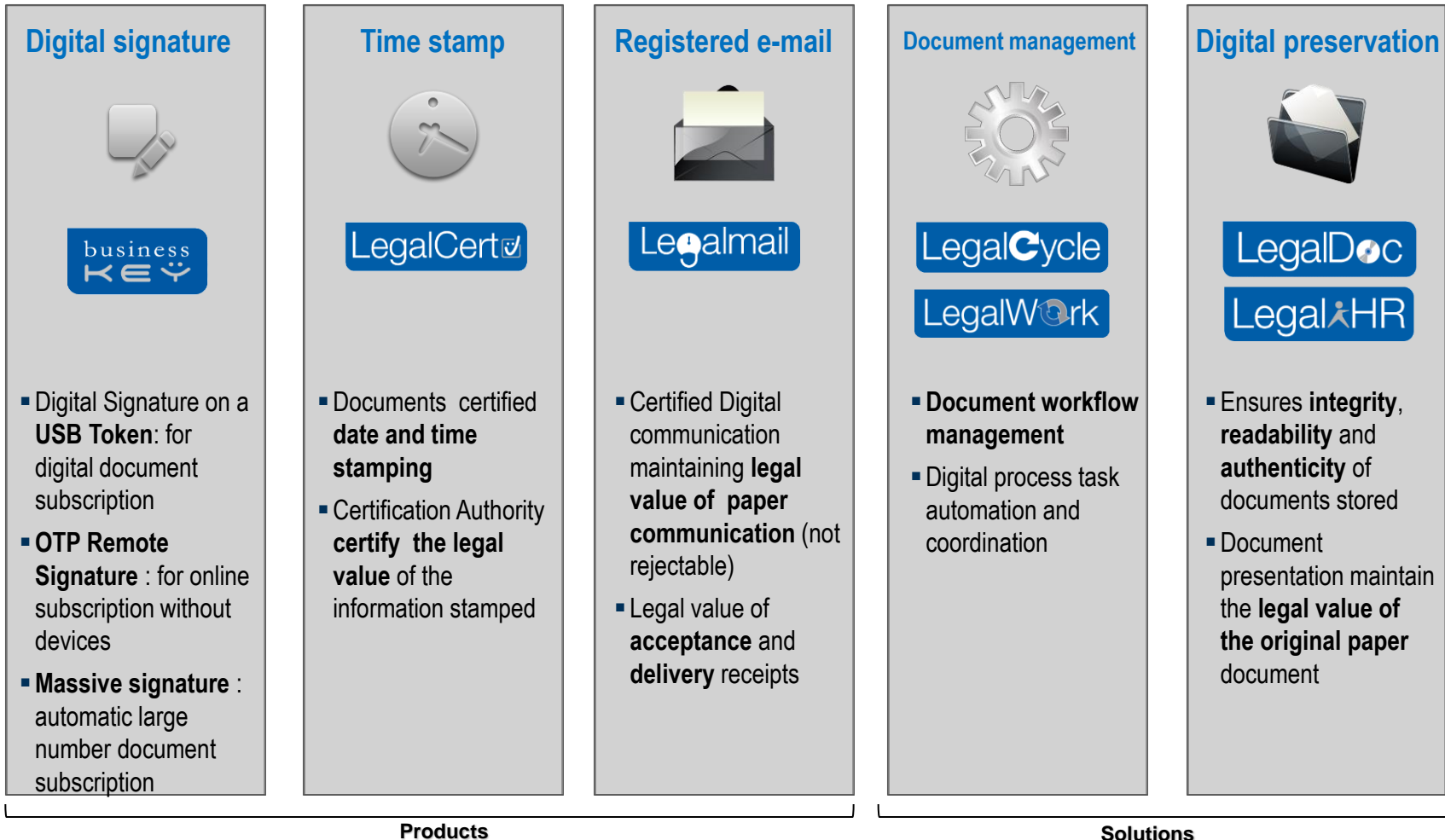
PRIMO ENTE
CERTIFICATORE IN ITALIA

Exploiting Trusted Healthcare Data

Carmelo Battaglia
InfoCert

- InfoCert at a glance
- An implementation of Trusted Cloud Digital Archiving:
Azienda ULSS 8 – Azienda ULSS 12
- From cloud to trusted cloud

InfoCert Solution



Our vision for e-health

Step 3: Remote customer relation

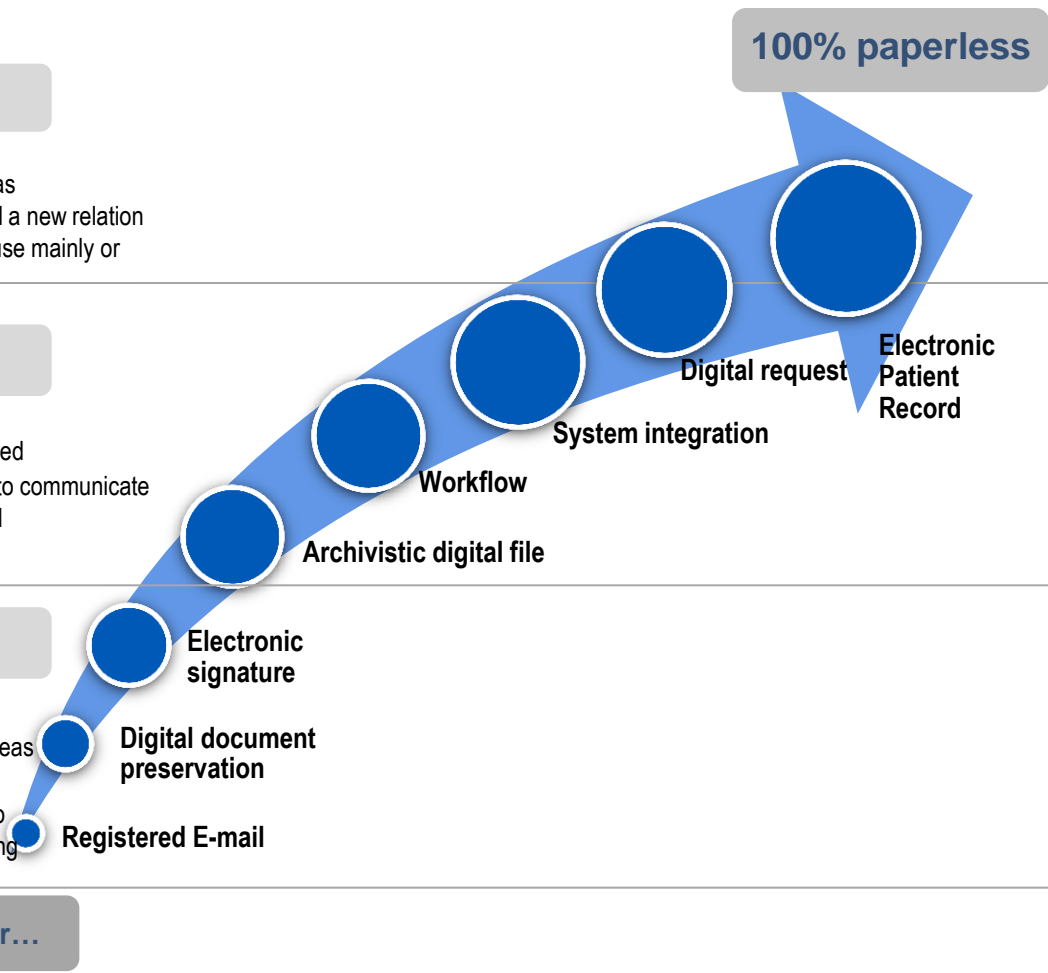
Perception
Internal: **good**, many affected areas
Users: **excellent**, have established a new relation channel with the organization and use mainly or exclusively web tools

Step 2: Process automation

Perception
Internal : **good**, many areas involved
Users : **good**, they find new ways to communicate with the organization and perceived responsiveness

Step 1: Single tool implementation

Perception
Internal : **low**, only from the few areas more involved
Users : **very low**, they can begin to communicate by PEC and submitting digital documents.



Electronic Medical Record: provides a common factor digital tools and process innovations introduced in the previous phases
Digital request: espone sul portale le tipologie documentali a supporto dei processi e attiva in automatico il workflow interno.

Archiving: advanced use of archive information sets the foundation for electronic health dossier
Workflow: processes becomes completely digital, with cost reduction and less waste of time
System Integration: vertical system integration disengages from physical support

REGISTERED E-MAIL: trusted communication with users and healthcare agencies
SIGNATURE: paperless reports
LONG TERM ARCHIVING: document's long term archiving

Back - End efficiency

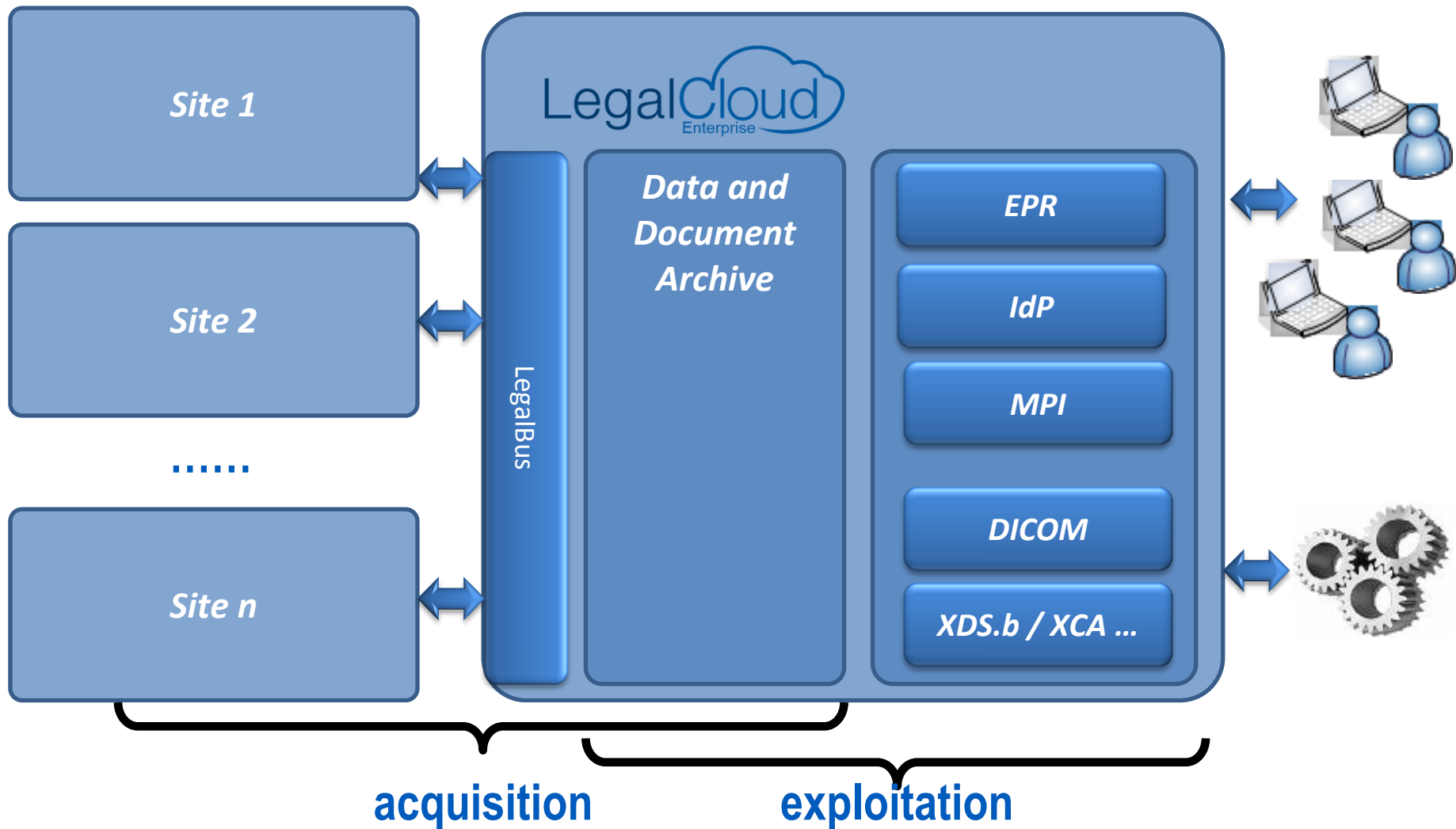
Front - End efficiency

Users

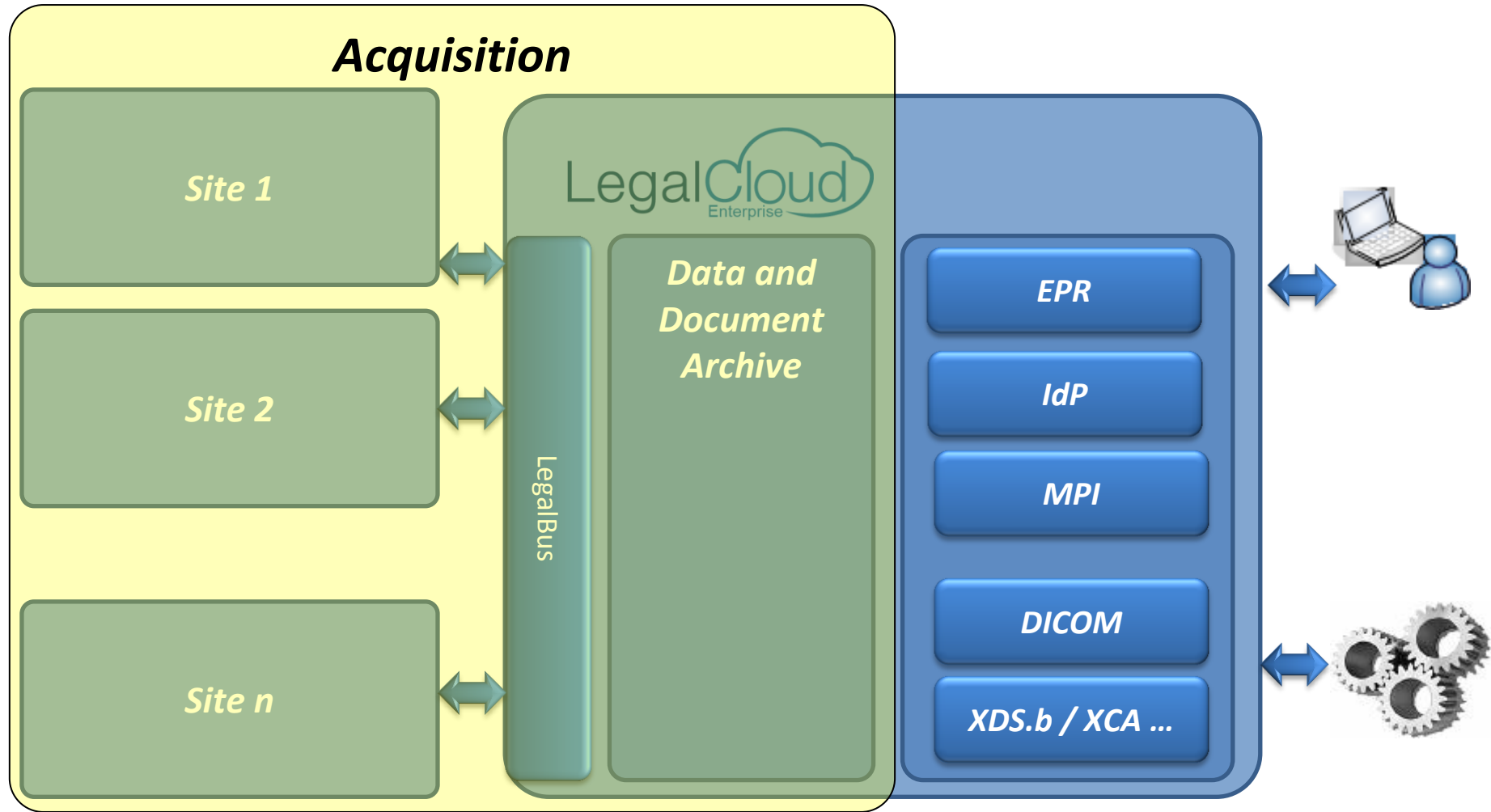
Employees



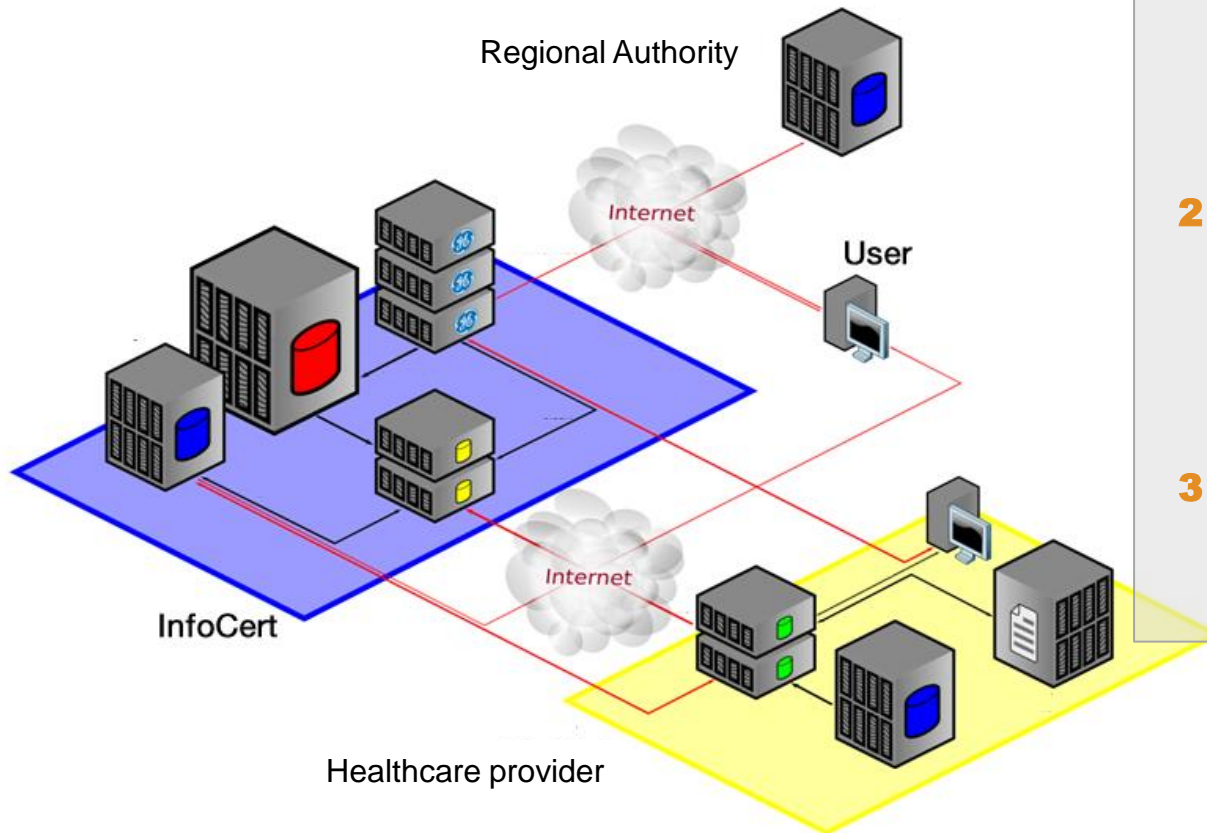
Healthcare Documents Lifecycle



Healthcare documents lifecycle

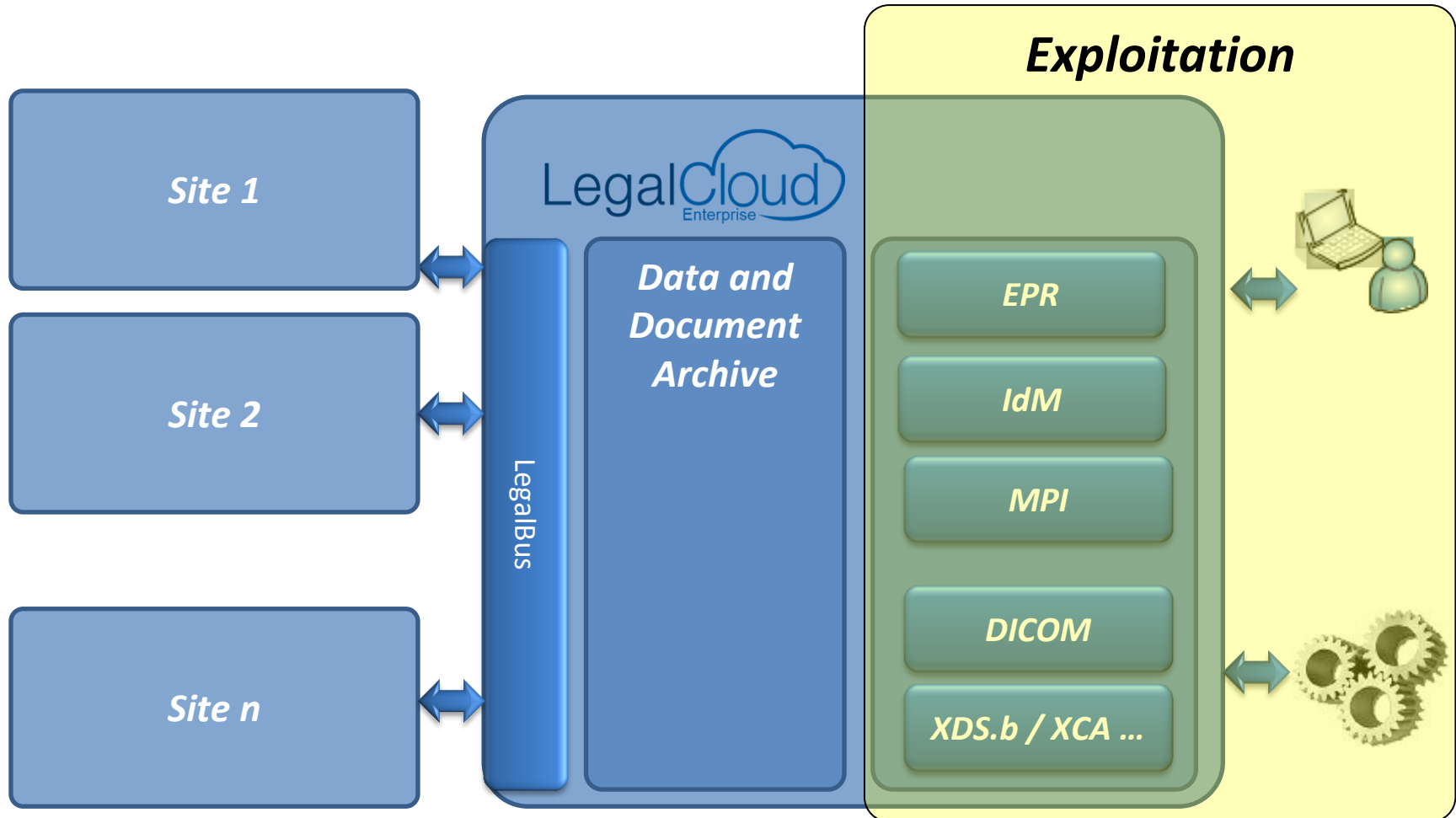


Document Acquisition



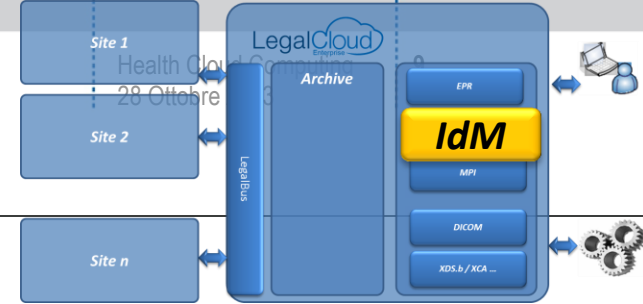
- 1 Consolidation of **document assets** (clinical, diagnostic, administrative...)
- 2 Management of **digital validity**
 - Verifying Digital Signature
 - Time stamping
- 3 Archival for full **legal validity** and **long-term preservation**

Document Exploitation



Identity Management

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The screenshot shows the login interface for the Fascicolo Sanitario Elettronico (FSEL). At the top, the 'InfoCert' logo is displayed on a background of puzzle pieces, with one piece missing. Below the logo is the 'ULSS 8 veneto' logo and the text 'Fascicolo Sanitario Elettronico a valore legale.'. The login form includes fields for 'Nome utente:' and 'Password:', followed by a 'Login' button. At the bottom, the copyright notice reads '© Linkverse 2012 • FSEL 1.0 build 20121120'.



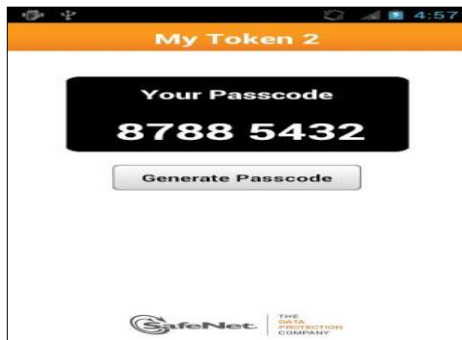
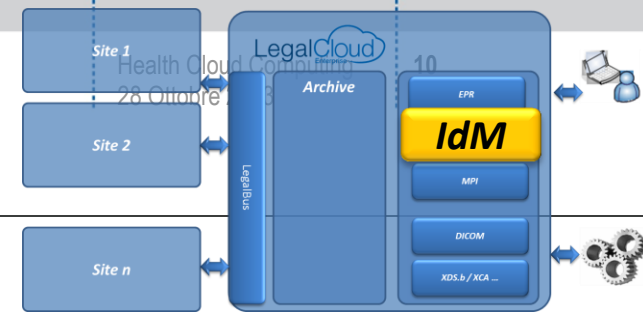
Identity Management

As a long established Certification Authority, InfoCert provides Identity services.

Different authentication methods are available, depending on available infrastructures, privacy requirements, ...

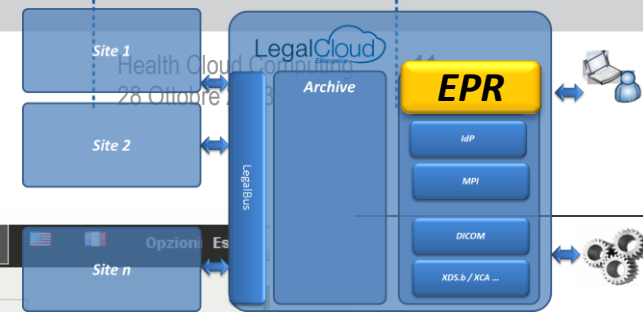
Federated Identity Management can be provided

InfoCert



Electronic Patient Record

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Utente: Administrator

Esibisci Salva originale Salva visualizzato Opzioni

ROSSI [redacted]
75 anni

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Cerca

2012
2011
2010
2009
2008

Regione del Veneto
ospedale di Cas
dipartimento medicina laboratori
unità operativa laboratori

sab 15 nov 2008 Laboratorio di analisi

mer 29 ott 2008 Laboratorio di analisi

mar 2 set 2008 Laboratorio di analisi

mar 22 gen 2008 Laboratorio di analisi

2007
2006

Id.:30007695 C.S.:4 [redacted]
Età: 70 Anni Sesso M
Standard

Prenotazione: 00128252481 Richiesta:

Esame

Ematologia

Es.emocromocitometrico	
Leucociti	
Eritrociti	
Emoglobina	
Ematocrito	
MCV	
MCH	
MCHC	
RDW	
Neutrofili	
Linfociti	
Monociti	
Eosinofili	
Basofili	
Piastrine	

Utente: Administrator

1601.T1W_SE MDC

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PROVA^PROVA
IMA 1/16

sab 11 dic 2010 Laboratorio di analisi

mar 21 set 2010 Laboratorio di analisi

mar 3 ago 2010 Laboratorio di analisi

mar 20 lug 2010 Radiologia

mer 23 giu 2010 Laboratorio di analisi

ven 12 mar 2010 Laboratorio di analisi
Laboratorio di analisi

gio 11 mar 2010 Laboratorio di analisi
Laboratorio di analisi

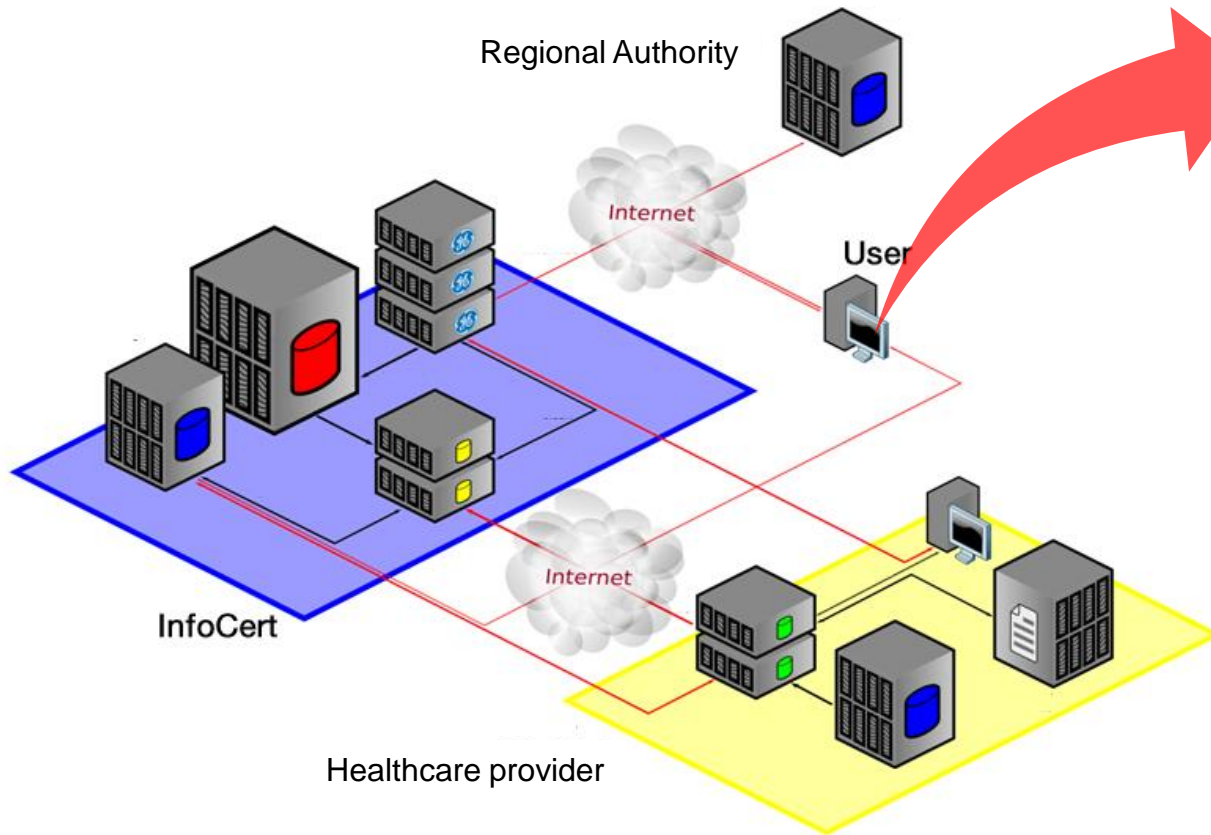
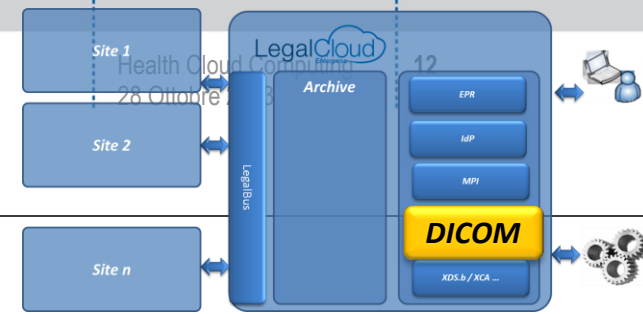
gio 14 gen 2010 Laboratorio di analisi

2009
2008
2007
2006



PACS As A Service

InfoCert



HealthCare and Trusted Cloud

HealthCare has strong need for **trusted services**:

- 1 Check of documents, possibly including digital signature
- 2 Consolidation (time stamping)
- 3 Archival for full legal validity and long-term preservation
- 4 Identity management for proper document access

Trusted Cloud = Cloud infrastructure + Trusted services

Trusted services imply:

- 1 standards and law compliance
- 2 quality certification
- 3 accreditation (whenever needed)
- 4 *Security & Trust culture*

How do we guarantee what we do?



International Regulatory Organization

- Membership **ETSI** (European Telecommunication Standards Institute), contributing to standards definition
- **CEN/ISSS** Member:
 - E-Invoicing
 - Interoperability Interfaces for public procurement in Europe (CEN WS/BII)

National Regulatory Organization

- Technical committee of Assocertificatori for digital signature
- Technical committee for Registered e-mail
- "E-Invoicing Observatory" (Politecnico di Milano)
- working group on Electronic Document promoted by ABI Lab

International Certification

- ISO 27001 Certification
- ISO 9001 Certification
- Adherence to DigitPA guidelines for Certification Authorities and Registered E-Mail providers

Key data

- **850.000** registered mailbox (PEC – Legalmail)
- **100 million** of certified mail message (PEC) in 2011
- **450 million** of document in legal storage
- **4.5 million** of digital signature certification emitted

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