30 Novembre 2017

EMREX

Some Impacts of Italian Digital Agenda on Higher Education Ecosystem

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CINECA

mrex
open
app
sharing
cognitive
competences
coding
IoT
platform
digital
digitalization
user-centered
payments
data
target
dataset
predictive
API
transformation
opendata
paperless
ecosystem
conversational
data-driven
responsive
on-line
experience
once-only
mobile
crowd
chatbot
services
social
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TRANSFORMATIONAL

EXPONENTIAL

DISRUPTIVE

DX

Summary

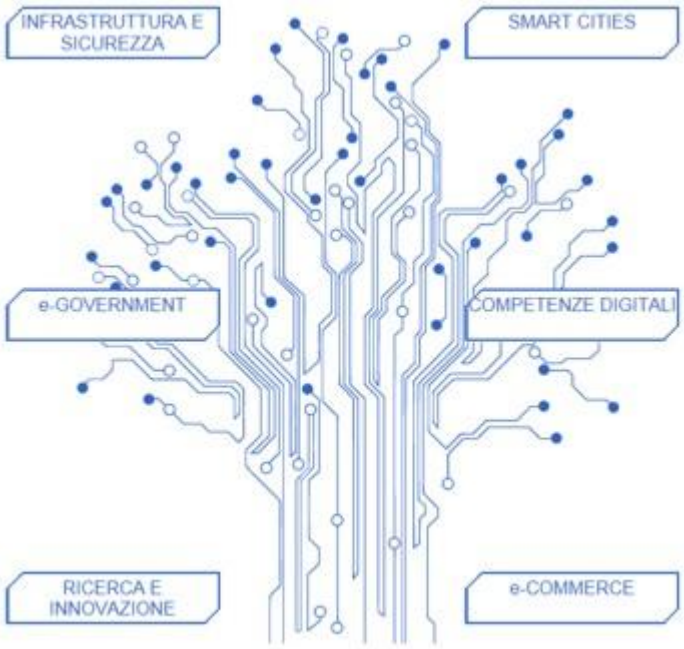
- **Italian Digital Agenda: a (very) brief history**
- **Major impacts on Higher Education Ecosystem**

Digital Agenda in Italy

The Italian Digital Agenda

The Italian Digital Agenda was launched in **2012** following the signing by all member states of the **European Digital Agenda**, submitted by the European Commission in **2010.**

The Digital Agenda is a set of actions and regulations intended to **boost digital technologies**, **innovation** and **economy**.



Agid

Agenzia per l'Italia Digitale

Presidenza del Consiglio dei Ministri

Digital Italy Agency (Agenzia per l'Italia Digitale, AgID) is the government agency in charge of ensuring the achievement of the objectives of the Italian Digital Agenda.

Digital Agenda: Key Topics

- New architectural approach based on **open standards**, **interoperability** and **flexible**, **user-centered** architectures;
- **Transparency** and **public data sharing**;
- New **Public/Private partnerships** models;
- Progressive adoption of **Cloud** models;
- Increasing levels of **reliability** and **security**;
- Development of **digital skills** in citizens and enterprises.

CAD

CNIPA
Centro Nazionale per l'Informatica nella Pubblica Amministrazione

Codice dell'amministrazione digitale

Segreteria tecnica e Comunicazione
Pubblicazioni e sito Internet
comunicazione@cnipa.it
tel. 06 85264.207
via Isonzo, 21/b – 00198 Roma
www.cnipa.gov.it

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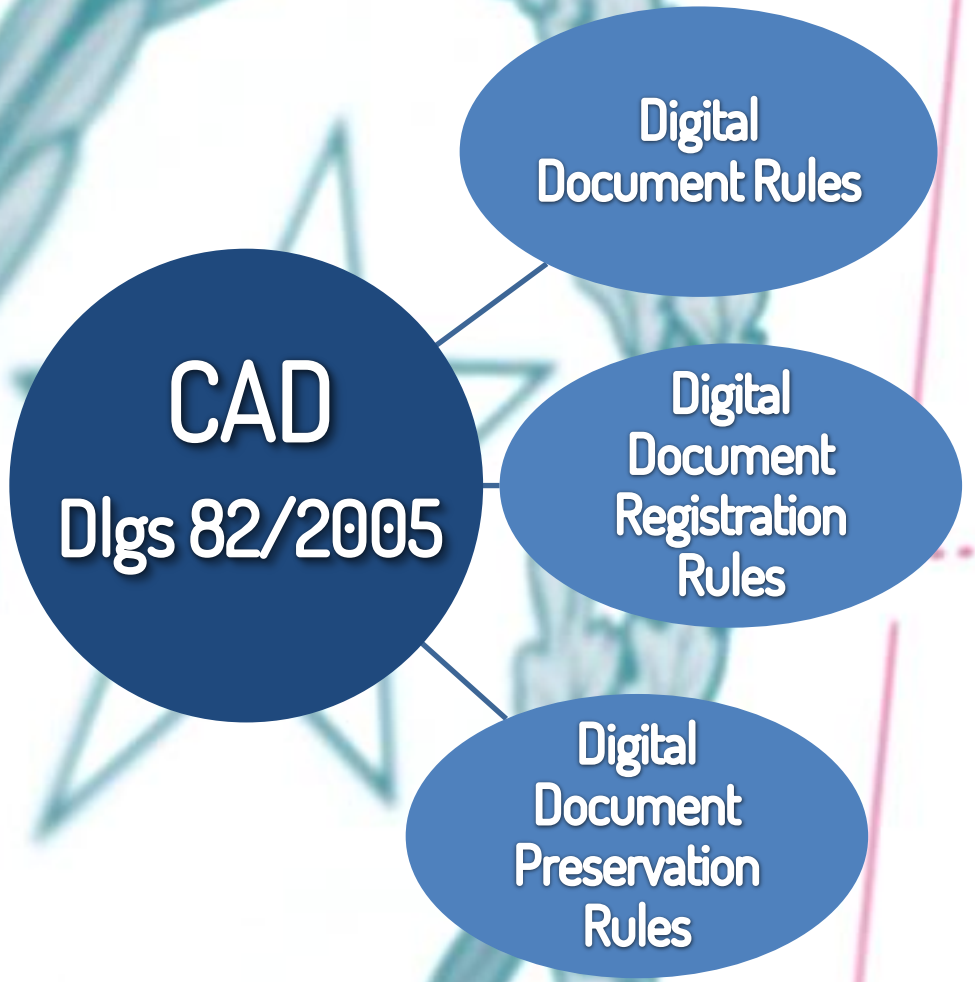
CAD: No more Paper



NO MORE PAPER?

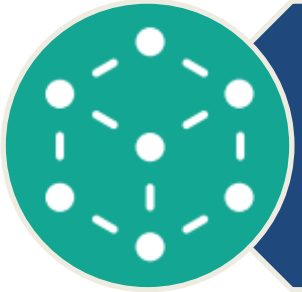
Agenzia per l'Italia Digitale
Presidenza del Consiglio dei Ministri

Italian PA Digital Trasformation Initiatives (to date)

SPID
Digital Identity
Public System

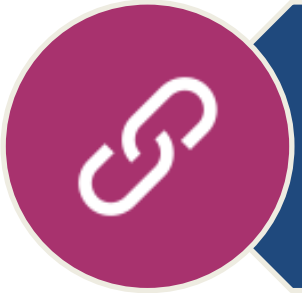
FEPA
Electonic Invoice

PagoPA
Electronic
Payments



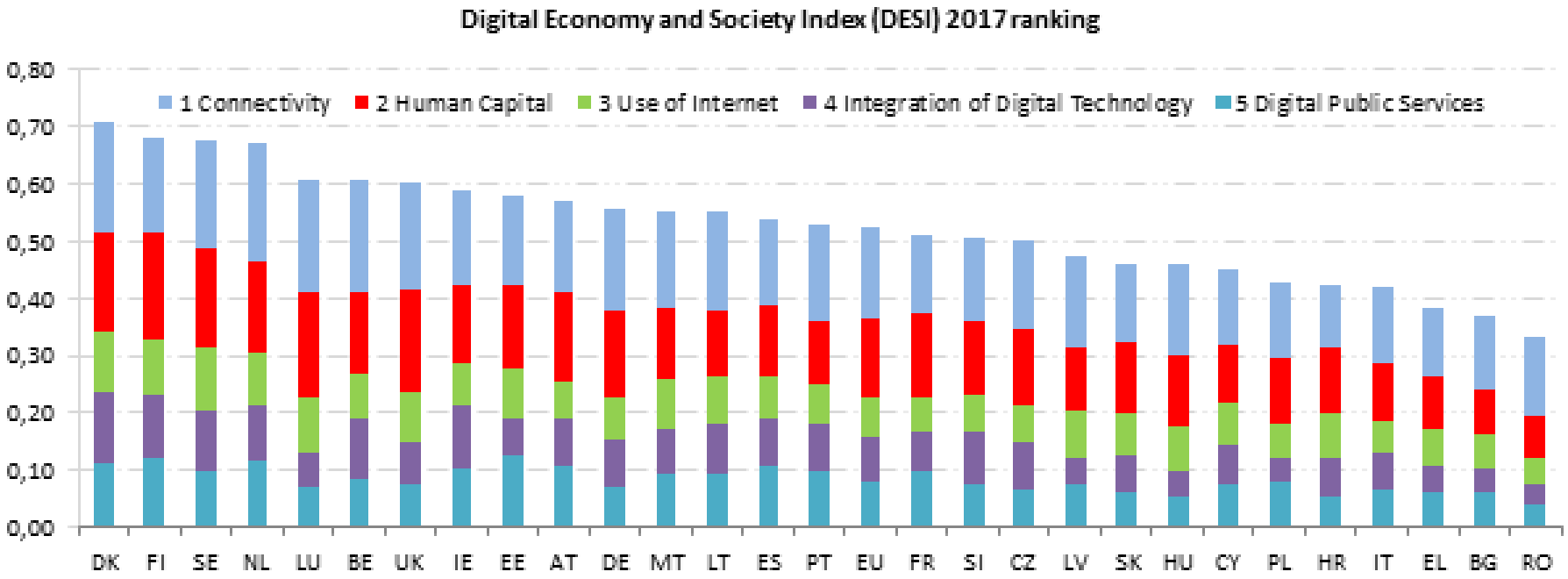
Open Data

ANPR
National Registry
Office



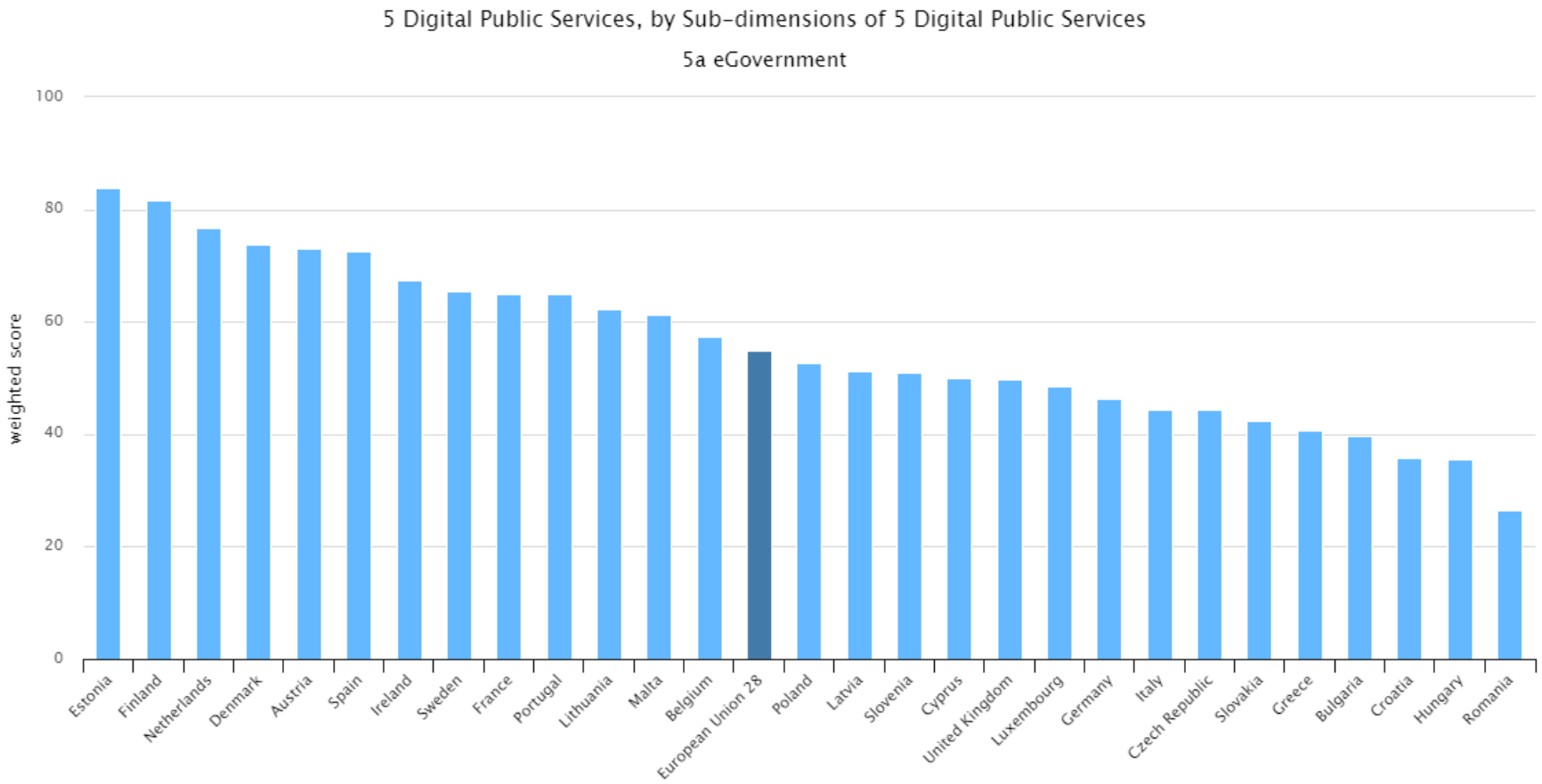
Digital Competences

DESI: Digital Economy and Society Index



European Commission

DESI: Digital Public Services



European Commission

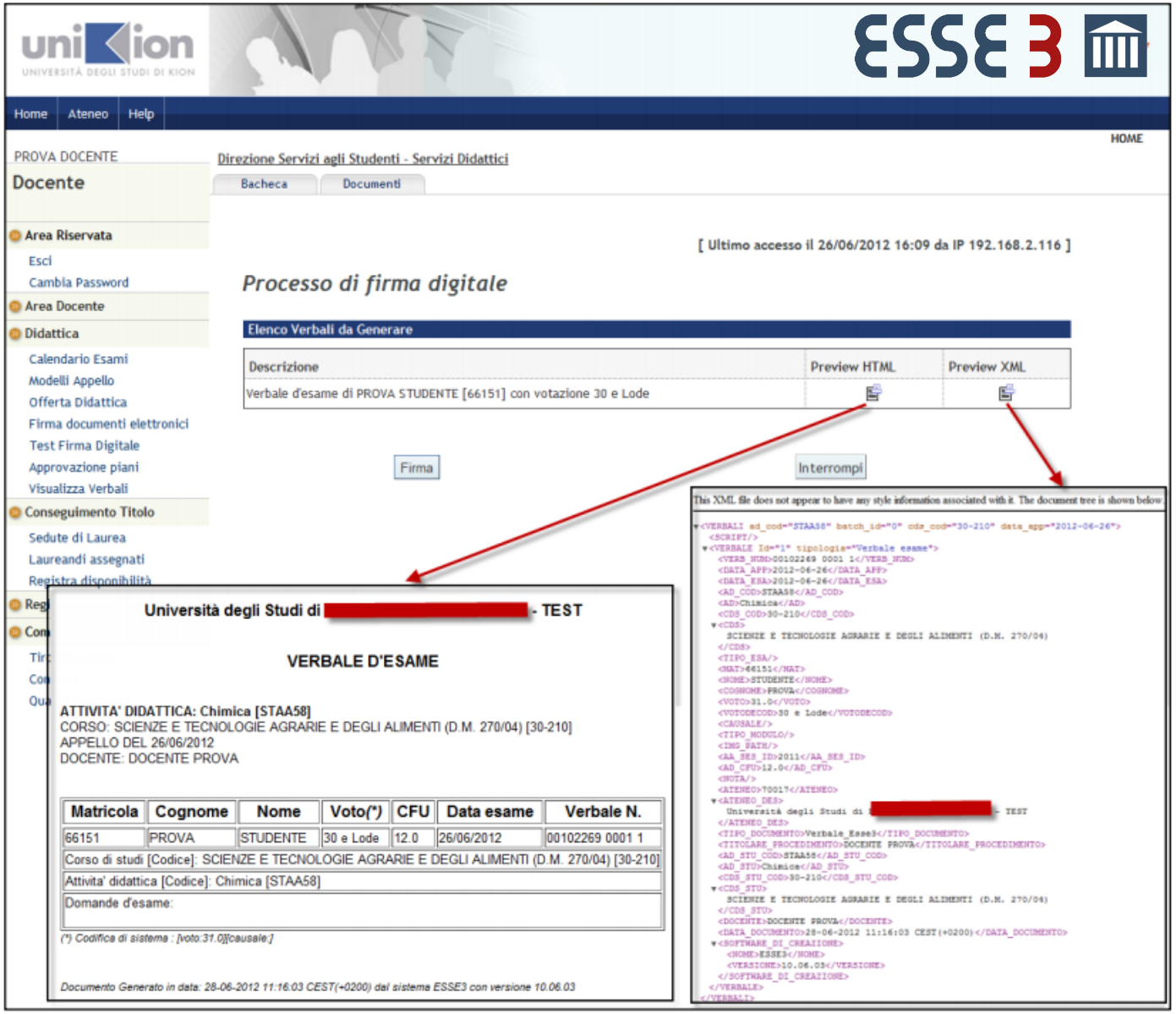
Inpacts on Higher Education Ecosystem

CAD: Digitalization of Administrative Acts

The “no-paper” approach affects all administrative processes.
In particular:

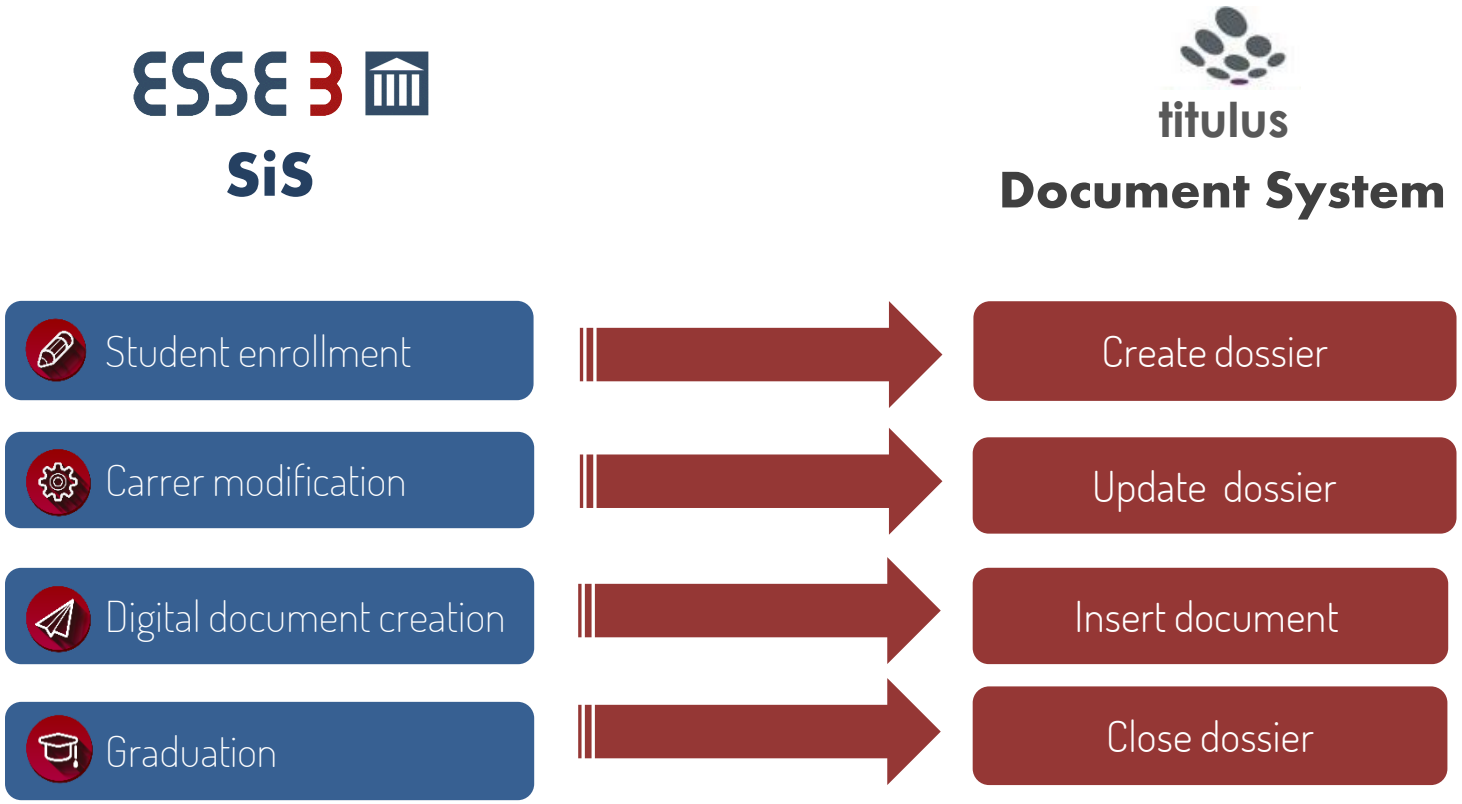
- **Digital signing of exams**
- **Student Digital Dossier**
- **Call for proposals**
- **Thesis repository**

ESSE3: Digital Signing of Exams



TITULUS: Digital Student Dossier

Integration between SIS and Document System → Digital Student File



Digital Student Dossier: Type of Documents

Mandatory
Application
Inbound/outbound transfer
Secondary school certificate confirmation
Course change
Course shortening
Study plan approval
Exams & Recognitions
Diploma Supplement
Loss of student status
Professional qualification certificate
Student contracts

Suggested
Exemption/incentive request
Learning agreement contract
Trascript of records
State exam request

Optional
Course change request
Personal study plan request
Other requests
Graduation application
Transfer request

PICA: Calls for Proposals

Benefits:

- Process Automation
- Dematerialization
- Digital long term preservation of documents (no paper)

Features:

- Responsive, usability, accessibility
- Applicant is guided through the procedure
- Less work for administrative offices
- Examining board can work completely on-line

Piattaforma Integrata
Concorsi Atenei

Type of Calls

Professors

Researchers & associates

Teaching contracts

Staff

UNITESI: Thesis Repository

UNITESI portal enables the presentation of graduate and doctoral theses.

ESSE 3
or other SIS

UNITESI

DURA SPACE™

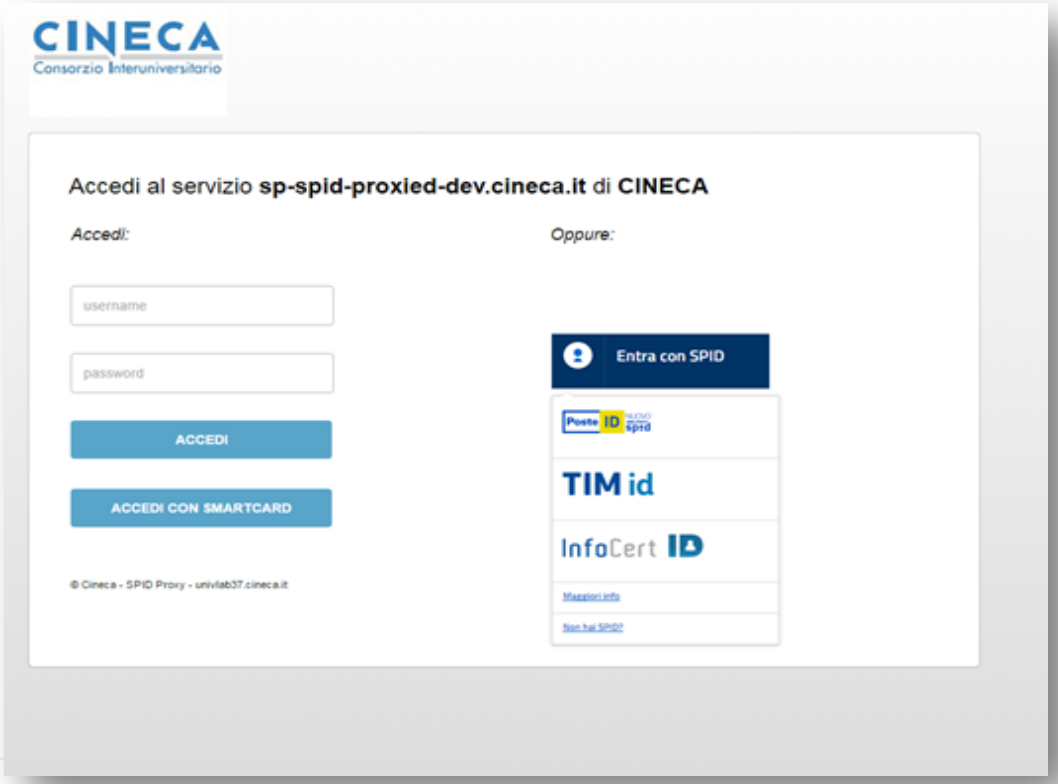
- **descriptive metadata**
- **fulltext**
- **attachments**

SPID: Digital Identity Public System (1)

Enabled administrations	3.783
Active identity providers	6
SPID compliant services	4.273
SPID identities	1.557.675

SPID, Digital Identity Public System (2)

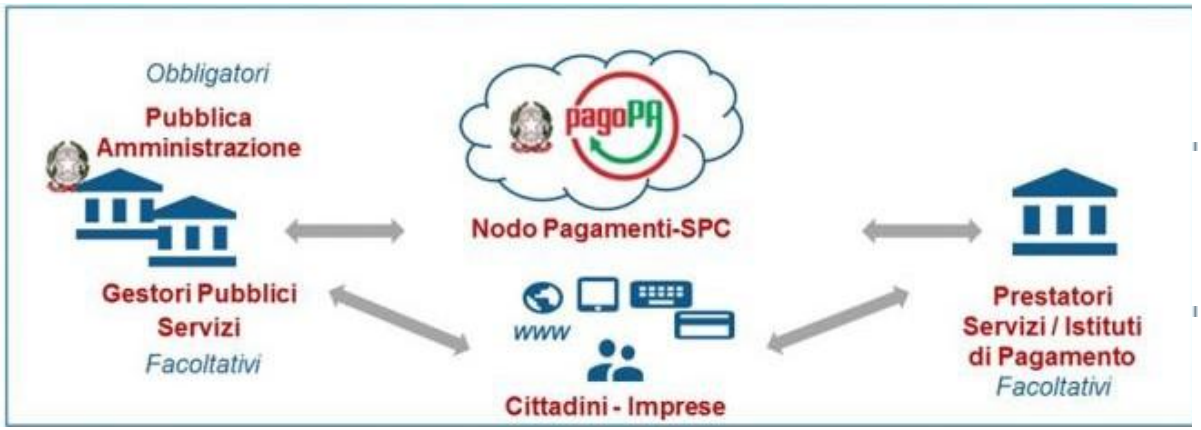
- Students can enroll without physical presence
- Personal data are automatically trasfered (after consensus)
- Easy access to all University services



PagoPA: Digital Payments (1)

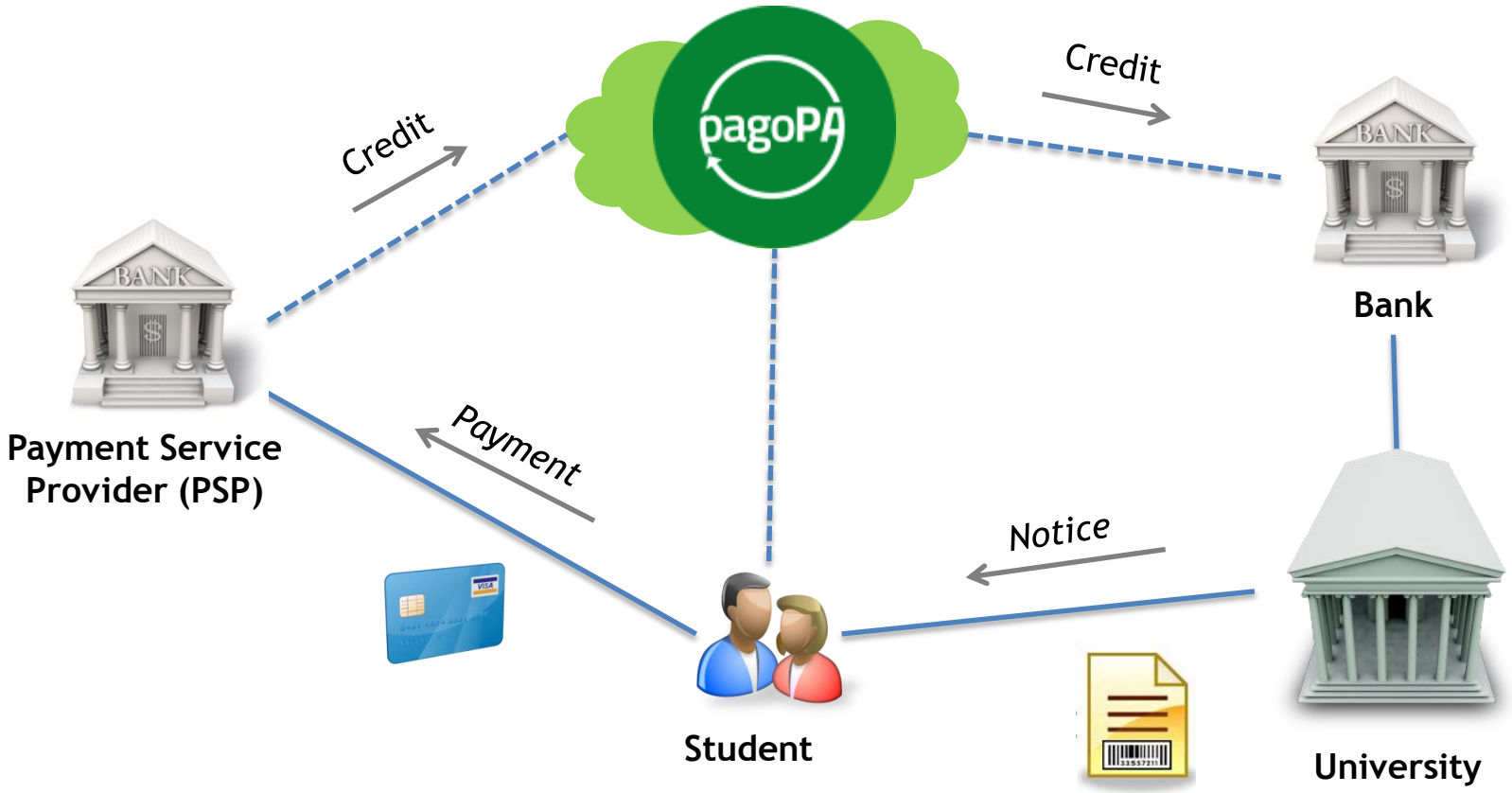
pagoPA

Enabled administrations	15.780
Active administrations	11.651
Payment service providers	421
Total transactions	2.141.412



- Secure transactions
- Cost trasparency
- Instant notification

PagoPA: Digital Payments (2)



ANPR, National Registry Office

ANPR

Counties 26

Citizens 6.500.000

DIC 2015

Partenza Anagrafe Unica

26 comuni pilota

da +8.000

Banche dati comunali a 1 digitale

Una banca dati unica: centralizzata, interoperabile e sicura

Riduzione delle spese di gestione dei dati

Un solo punto di riferimento per PA e cittadini

Expected impacts: an authoritative attribute provider for resident students

Open Data

Open Data

MINISTERO DELL'ISTRUZIONE DELL'UNIVERSITA' E DELLA RICERCA

Administrations	76
Datasets	10.348

[2015 Iscritti e Immatricolati]
[2014 Iscritti e Immatricolati]
[2016 Iscritti e Immatricolati]
[2016 Laureati]
[2015 Laureati]
[Bilancio di genere]

[2016 Personale universitario]
[2015 Personale universitario]
[2014 Personale universitario]
[2013 Personale universitario]
[2012 Personale universitario]
[2011 Personale universitario]
[2010 Personale universitario]
[Bilancio di genere]

[2016 Contribuzione e interventi]
[2015 Contribuzione e interventi]
[2014 Contribuzione e interventi]

Other digital services offered by Cineca

.Bestr

Bestr: open badges and digital credential platform

L2L: Live to e-Learning content editing solution

Conclusions

- Digital Transformation is impacting HE ecosystem
- Italy is trying to keep up with global transformation
- Italian Government has launched several digitalization initiatives
- CINECA consortium is developing digital services to enable digital transition

Questions?
Thankyou!

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