

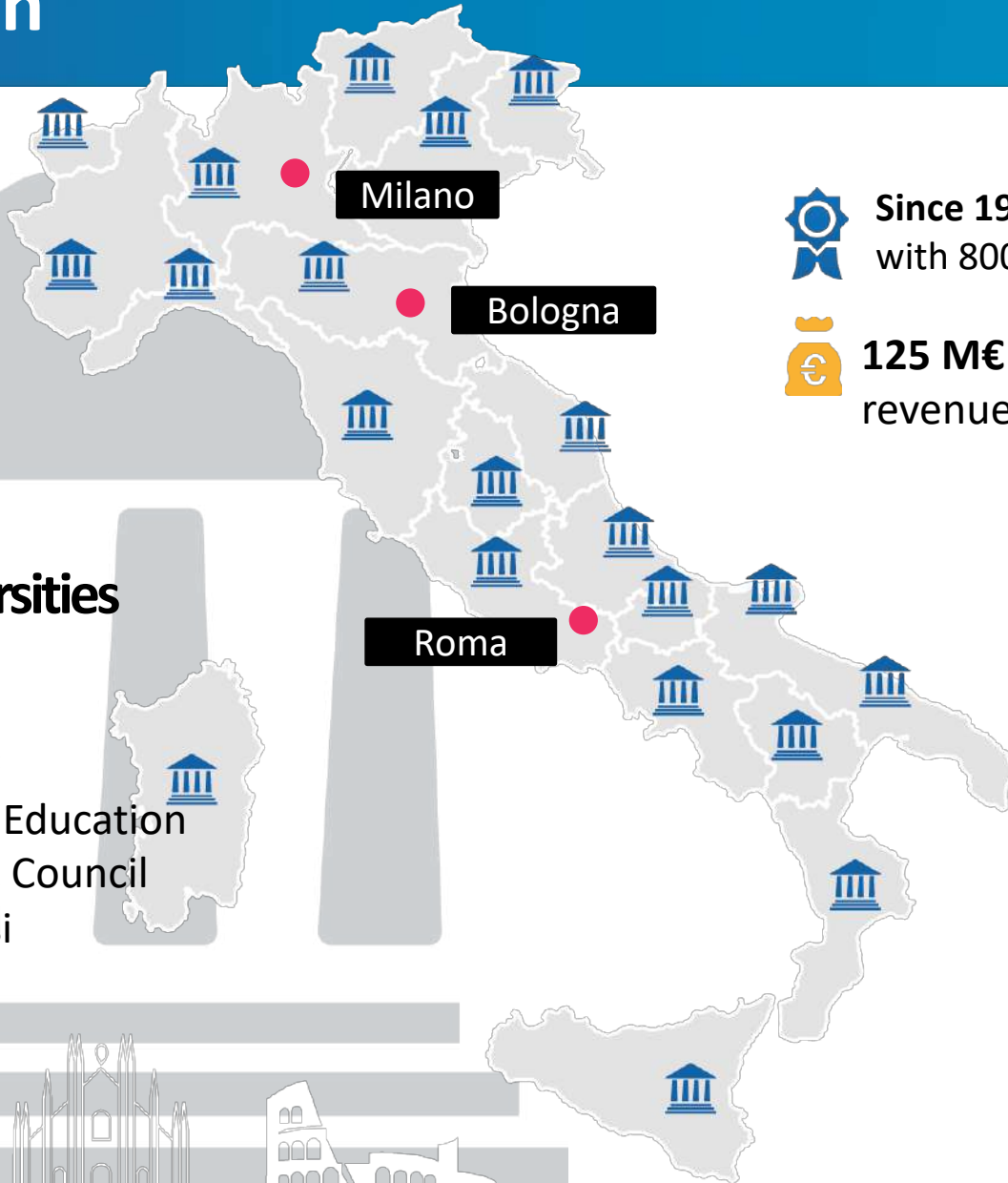
Modernizing Learning and Research in Higher Ed

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Massimo Rimondi*

The Organisation

Italian University

Public, Not for profit
Consortium



Since 1969
with 800 employees



125 M€ estimated
revenue 2014

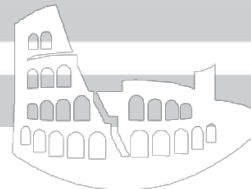


70 Italian universities



5 Institutions

Italian Ministry of Education
National Research Council
OGS, Indire, Invalsi



Services & Activities



Higher Education

Solutions & Services for the University Administration
Services for the Ministry of Education, University and
Research (MIUR)



Scientific Research

High Performance Computing – FERMI: 5° in EU / 15° WW)
Scientific Visualization & Interactive Virtual Environments



Technological Innovation

Data Center
Information and Knowledge Management Services
Health Care Systems

Supporting the Academic System



National Processes - Ministry of Education and Research

- Planning & Promoting Education
- National Research Assessment Exercise
- National Research Grants Delivery
- Financial Control On Univ
- Annual Public Funds Delivery

Key Performance Indicators and Dashboards

- Monitoring of Academic courses
- Monitoring of Students trends
- Monitoring of Research Production
- Assessment of Research Production
- National Reserach Grants Delivery
- HR & Financial Data Analysis

CINECA

The Italian Academic System

Dashboards & KPIs - University Data Warehouse

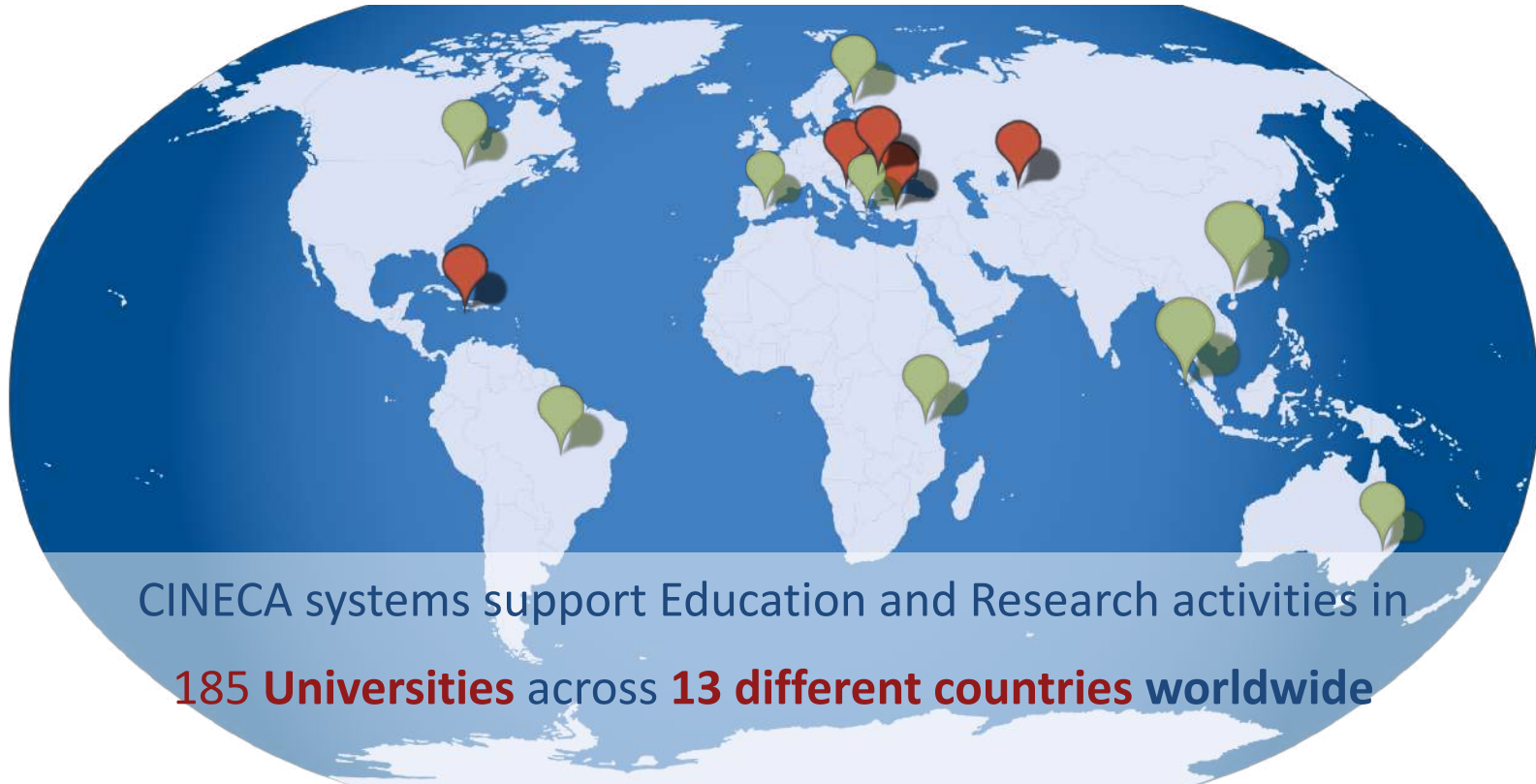
- Student & Learning Management
- Research Management
- Financial Management
- HR Management

- Student Management
- Course Management
- Research Management
- Governance Control

Local Processes - Universities



Cineca around the World



Students & Learning:



>50 Projects (Turkey, Romania, Albania, Haiti, Central Asian Republics, Russia)

Research (DSpace + DSpace-CRIS + IRIS):



>20 Projects (the 5 Continents and the World Health Organisation)

International Activities

Institutional



EUNIS

Board Member | Interoperability TF |
Business Intelligence TF | BencHEIT TF



euroCRIS

Board Member | DRIS/Best Practice TG |
Architecture TG | CERIF TG



CHEITA

Leading Member | Benchmarking IT
Group | Research Group



Groningen Declaration

Student Data Depositories Worldwide
Founder Member

Technological



DSpace

Steering Committee | 2 Committers |
Registered Service Provider | DSpace-
CRIS



EAIE

Chair Digital Student Data Portability TF



OpenAIRE

National Open Access Desk

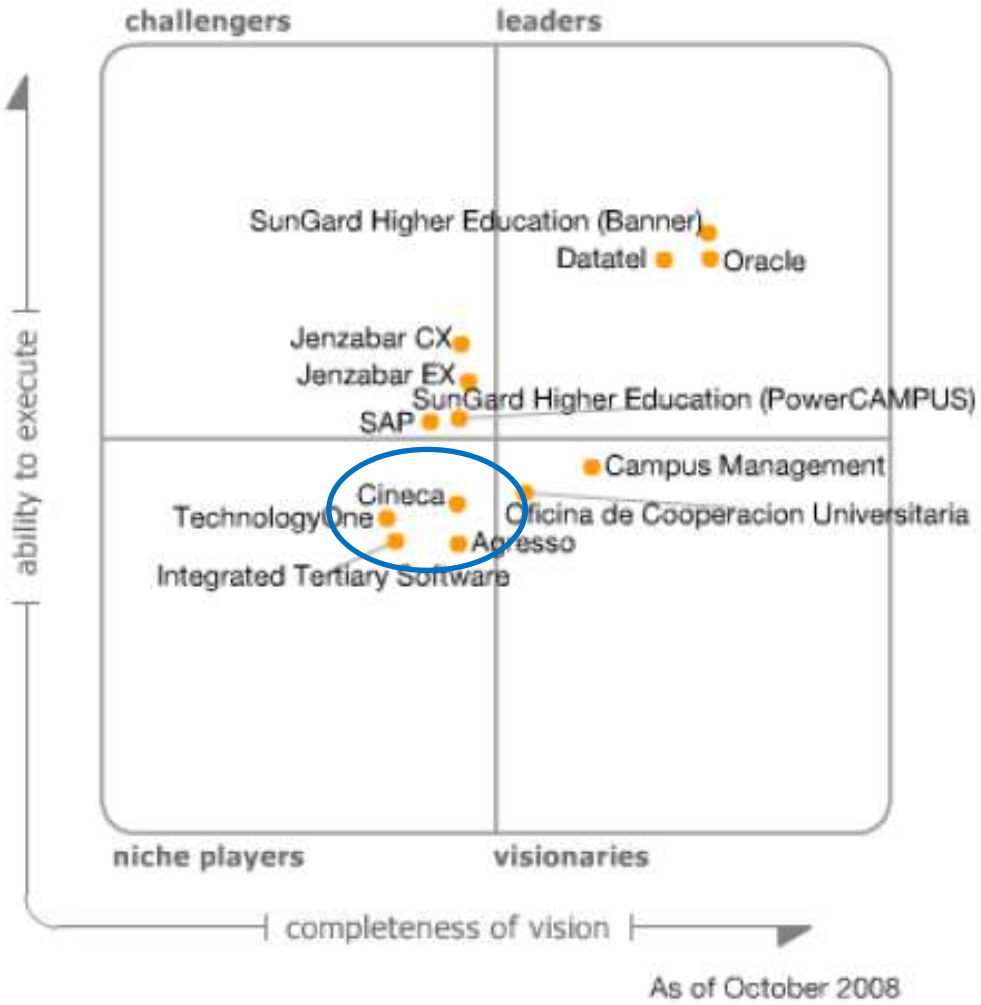


Pentaho

Member of the Advisory Board

Gartner - Magic Quadrant Higher Ed. (2008)

Figure 1. Magic Quadrant for Higher Education Administrative Suites



Source: Gartner (October 2008)

Market Guide for Higher Education Student Information Systems

Published: 26 March 2015

Consortium Solutions

While not the case in the U.S. market, in other parts of the world a number of consortium solutions that are provided by a number of vendors with varied structure and governance, with some others being outgrowths of collaborative efforts. In Europe are already, or are moving toward, consortium solutions have been challenged much the same way as the legacy vendors.

Sample consortium solutions include: Ar

Cineca — Italy; HIS — Germany; Ladok Ko

Cineca

Italy's Cineca, is a public, nonprofit consortium made up of 71 Italian universities, three research institutions and the Italian Ministry of Education and Research. In addition to providing supercomputing services to Italy's research community, its student information system, ESSE3, is used by 80% of all Italian universities, serving roughly 1.4 million students. Cineca is a founding member of the Rome Student Systems and Standards Group (RS3G), standardizing the exchange of student and course information across the Europe.

Included Vendors Globally

1. Callista Software (Australia)
2. Campus Management (USA)
3. CINECA (Italy)
4. ComSpec International (USA)
5. Ellucian (USA)
6. Jenzabar (USA)
7. Ladok Konsortium (SWE)
8. Oracle (USA)
9. SAP (Germany)
10. Three Rivers systems (USA)
11. Tribal group (UK)
12. UNIT4 (Netherland)

CINECA's vision of Higher Education

EHEA (European Higher Education Area)

Bologna Process (1999)

3 cycle system

Comparable degrees

Credit System (ECTS)

Mobility

Quality Assurance

LEARNING



ERA (European Research Area)

Lisbon Declaration (2008)

Researchers

Research
Infrastructures

Joint
Programming

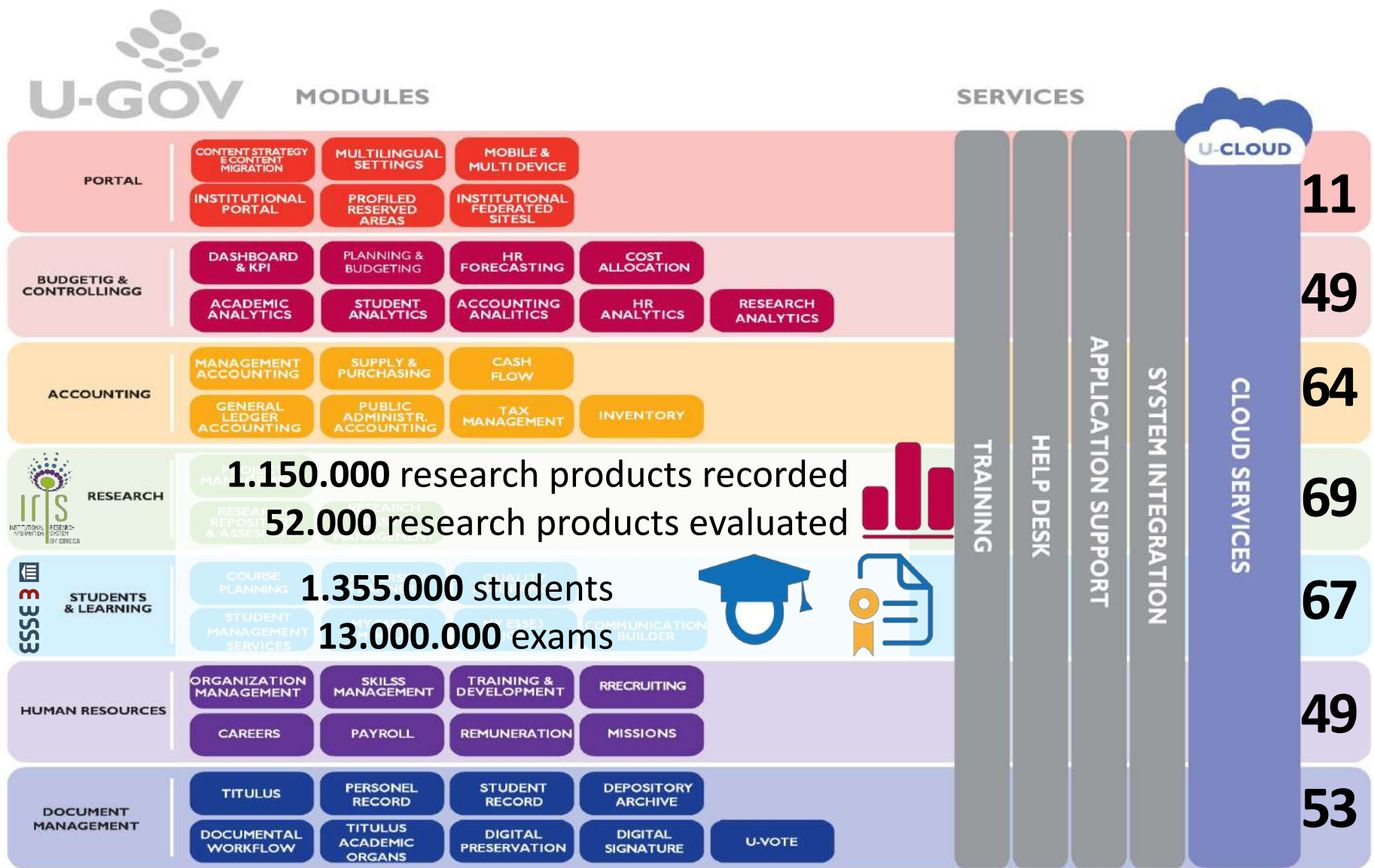
Knowledge Sharing

International
collaboration

RESEARCH

H i g h e r E d u c a t i o n

CINECA's U-GOV System (Italy)



- **ESSE3** project started in **2001** to satisfy the new Italian regulation on Higher Education in the *Bologna Process* scenario.
- In **2015** **ESSE3** is used in **78%** of Italian **Universities** and manages more than **1.4 Million students** from admission to graduation through post-doc.
- The same system is used by all the different institutions – this allows the Ministry to effectively steer the universities toward the new educational policies.

- ESSE3 covers *all* the *Student Lifecycle*
- Implements the *Bologna Process* requirements
- Offer Services *for*:
 - Students
 - Teachers
 - Departments
 - Student office(and many other users)

Supporting the Bologna Process objectives

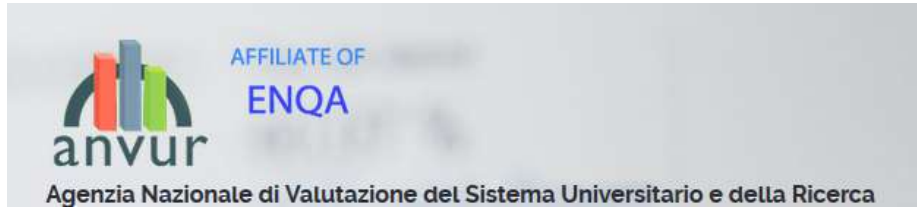


Bologna Process objectives for the European Higher Education Area

1. Easily readable and comparable degrees, also through the implementation of the **Diploma Supplement**,
2. Adoption of a system essentially based on **three main Cycles**
3. Establishment of a **System of Credits** - such as in the ECTS system
4. Promotion of **Mobility** by overcoming obstacles to the effective exercise of free movement
5. Promotion of European co-operation in **Quality Assurance**
6. Promotion of the necessary **Global dimension** in higher education

(from the Bologna Declaration, June 1999)

Quality assurance in Study Programmes

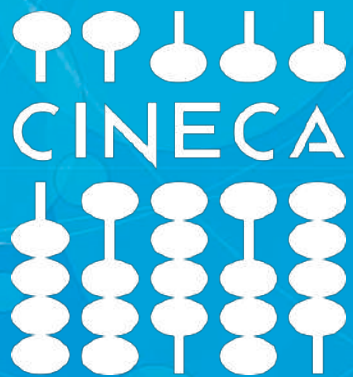


Tempus



National systems

International projects



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