



How Cineca supports Higher Education Decision Makers in Italy and Europe

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Cineca President

University of Bologna Vice-Rector

Topics

- Cineca overview
- Main Higher Education processes in Italy
- How IT can support strategic decisions in HigherEd
- Toward an European Higher Education Area

Cineca Mission and Activities

To support and promote a Digital Higher Education in Italy and Europe

Core activities:

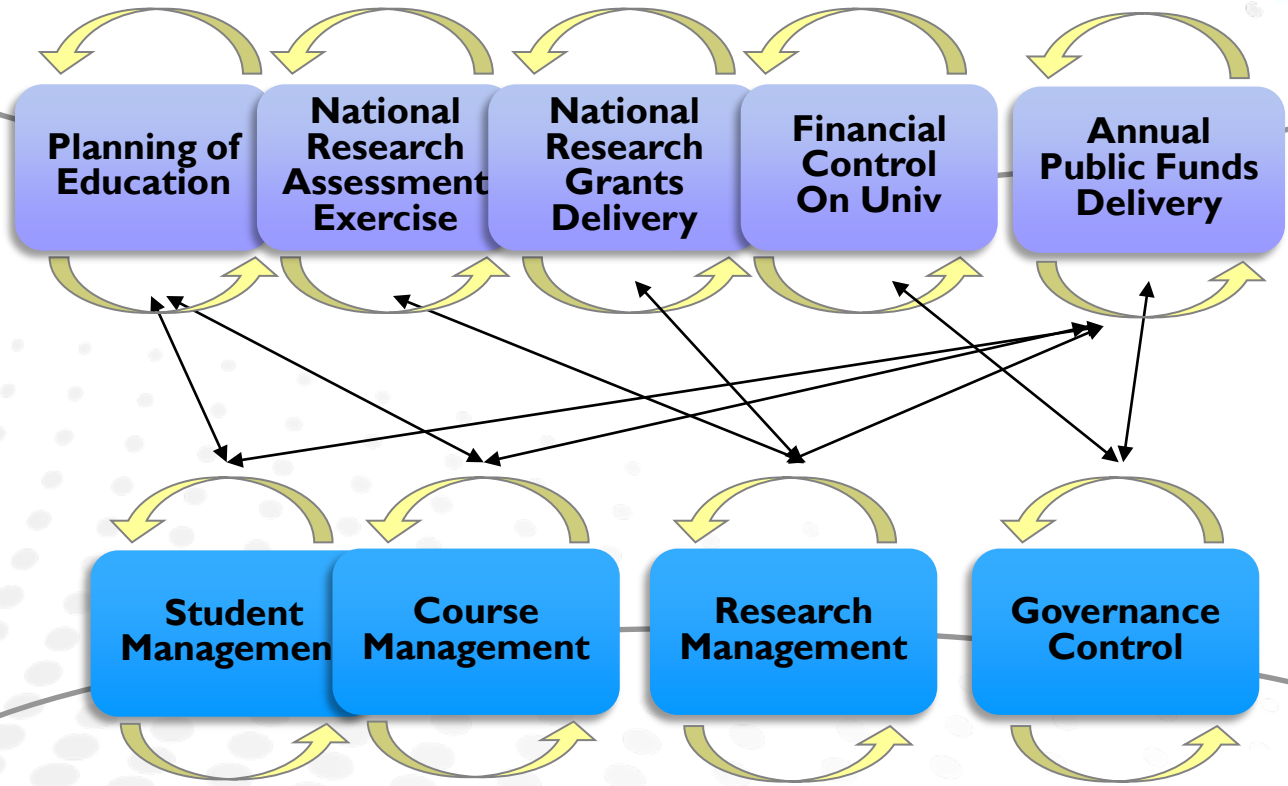
- **Information Systems** for Universities in Italy and EU
Students management / Research management / Administration
- **Information Systems** for Italian Ministry of Education and Research
National Higher Education processes
- **High Performance Computing** services to support research in EU
Top 50 HPC Worldwide, member of EU Prace project

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Italian Higher Education: Ministry and Universities

Ministry of Education and Research
National Processes



Local Processes
University



Solutions for Ministry of Education & Research

National Processes

Planning and promotion of Education

National Research Assessment Exercise

Planning and promotion of Research

Financial & HR Control

Annual Public Funds Delivery (FFO)

Key Performance Indicators and Dashboards

CINECA

Ministerial
IT Systems

Monitoring of
Academic
courses
(OFF.F)

Monitoring of
Students
trends (ANS)

Monitoring of
Research
Production
(Sito Docente)

Assessment of
Research
Production
(ANVUR-VQR)

National
Reserach
Grants Delivery
(PRIN-FIRB)

HR &
Financial
Data Analysis
(Docenti)

University Processes

Academic Planning

Research Planning

Financial & HR Control

Dashboards & KPIs
University Data Warehouse

Financial
Management

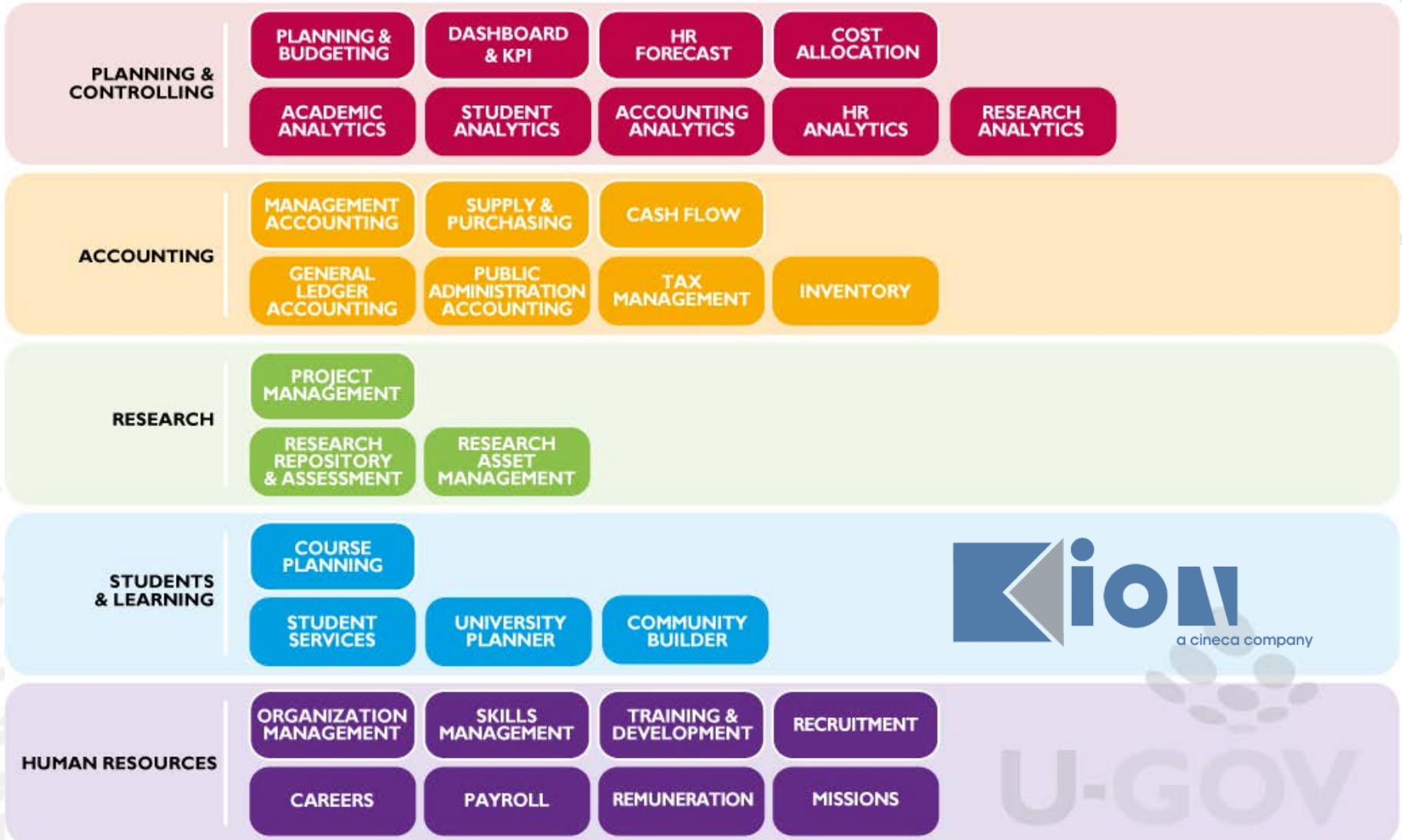
HR
Management

Student &
Learning
Management

Research
Management



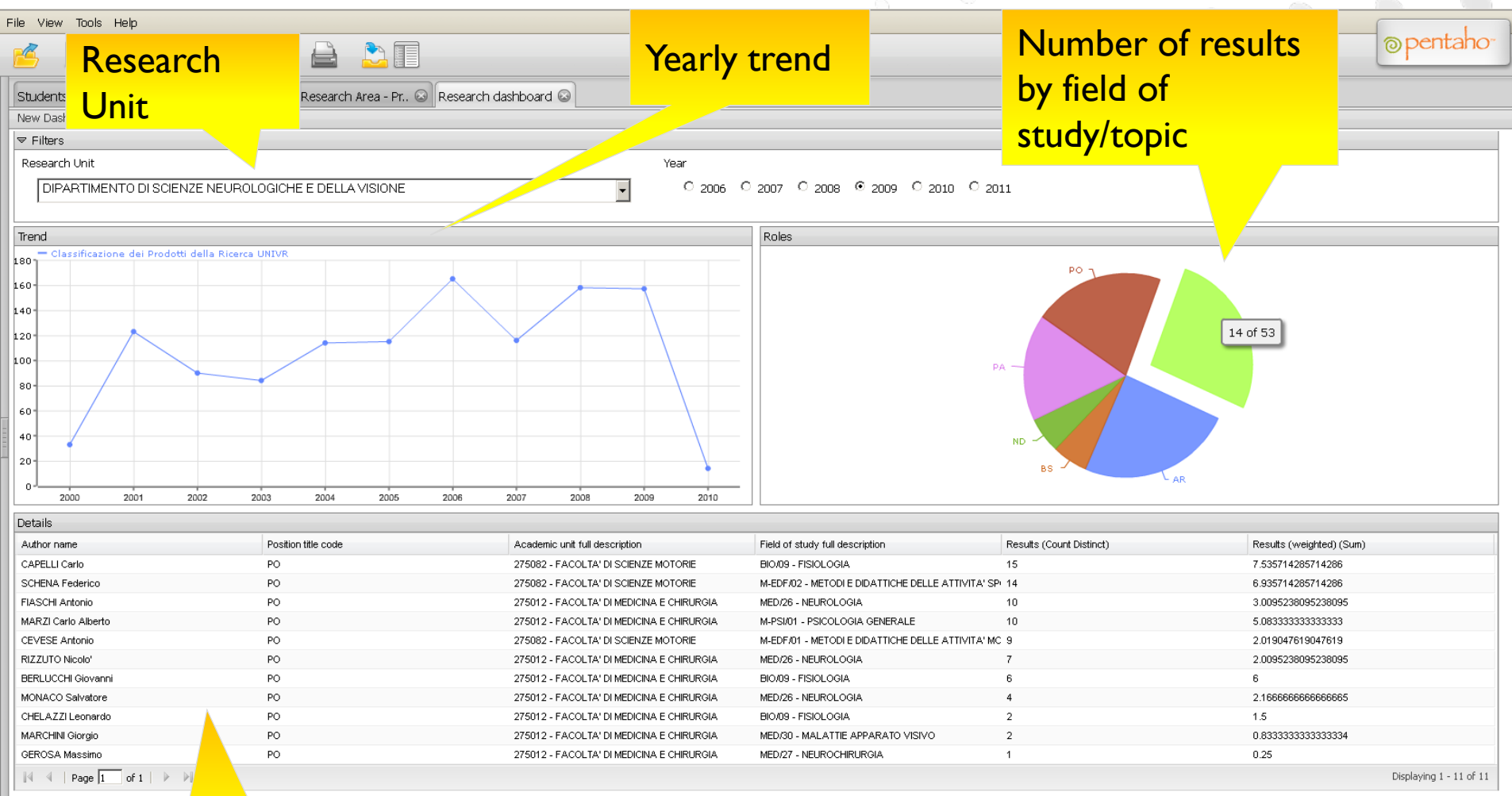
U-GOV Solution Map



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Example, Research Analysis



Authors details

Example, HR Analysis

Role

Number of Employee Vs Previous Year

Hide Fields | Show Filters | Show Field Layout

HR Analysis - Number of Employee

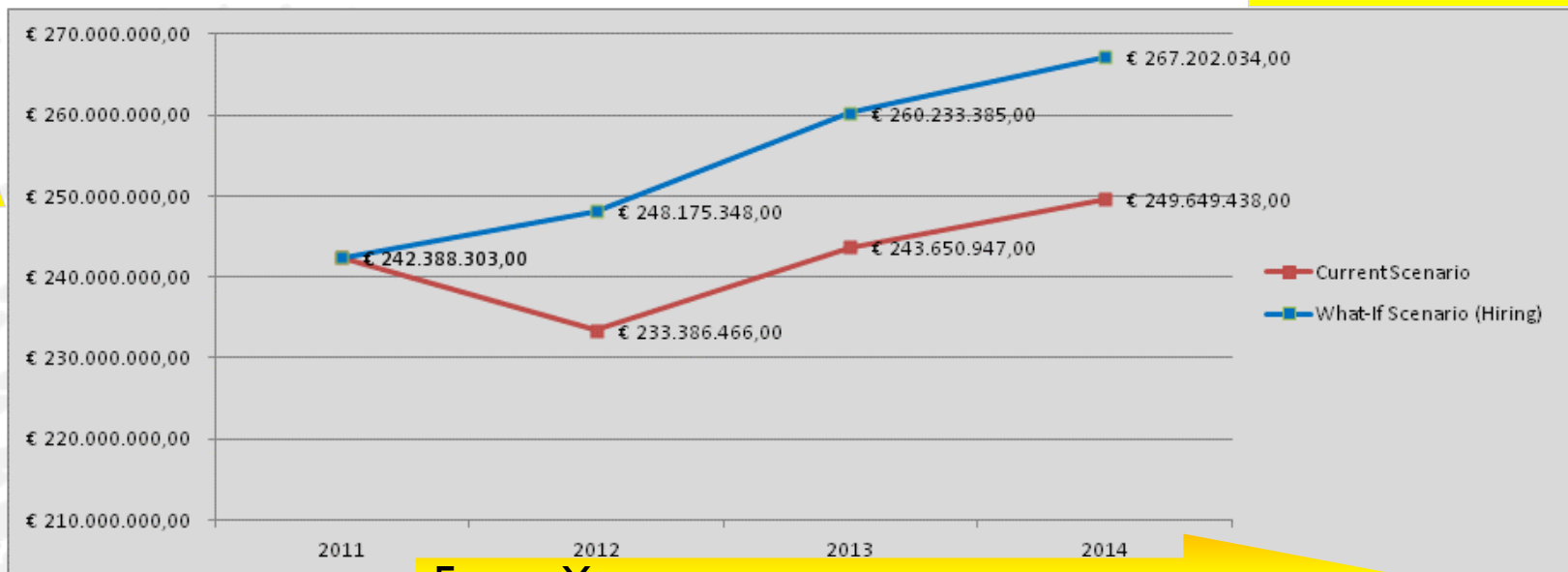
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XML | Log | Clear

Role	2007				2008			
	Employees	Average age	Trend Prev. Year	% of Employees	Employees	Average age	Trend Prev. Year	% of Employees
Assistenti universitari	3	61	0.00%	0.38%	2	59.5	-33.33% ↘	0.25%
Professori Associati	216	50.306	-3.14% ↘	27.10%	208	50.788	-3.70% ↘	25.49%
Professori Ordinari	246	57.854	-1.60% ↘	30.87%	240	58.562	-2.44% ↘	29.41%
Ricercatori Universitari	332	42.349	9.57% ↗	41.66%	366	42.349	10.27% ↗	45.05%
Grand Total	797	49.361	2.31%	100.00%	816			

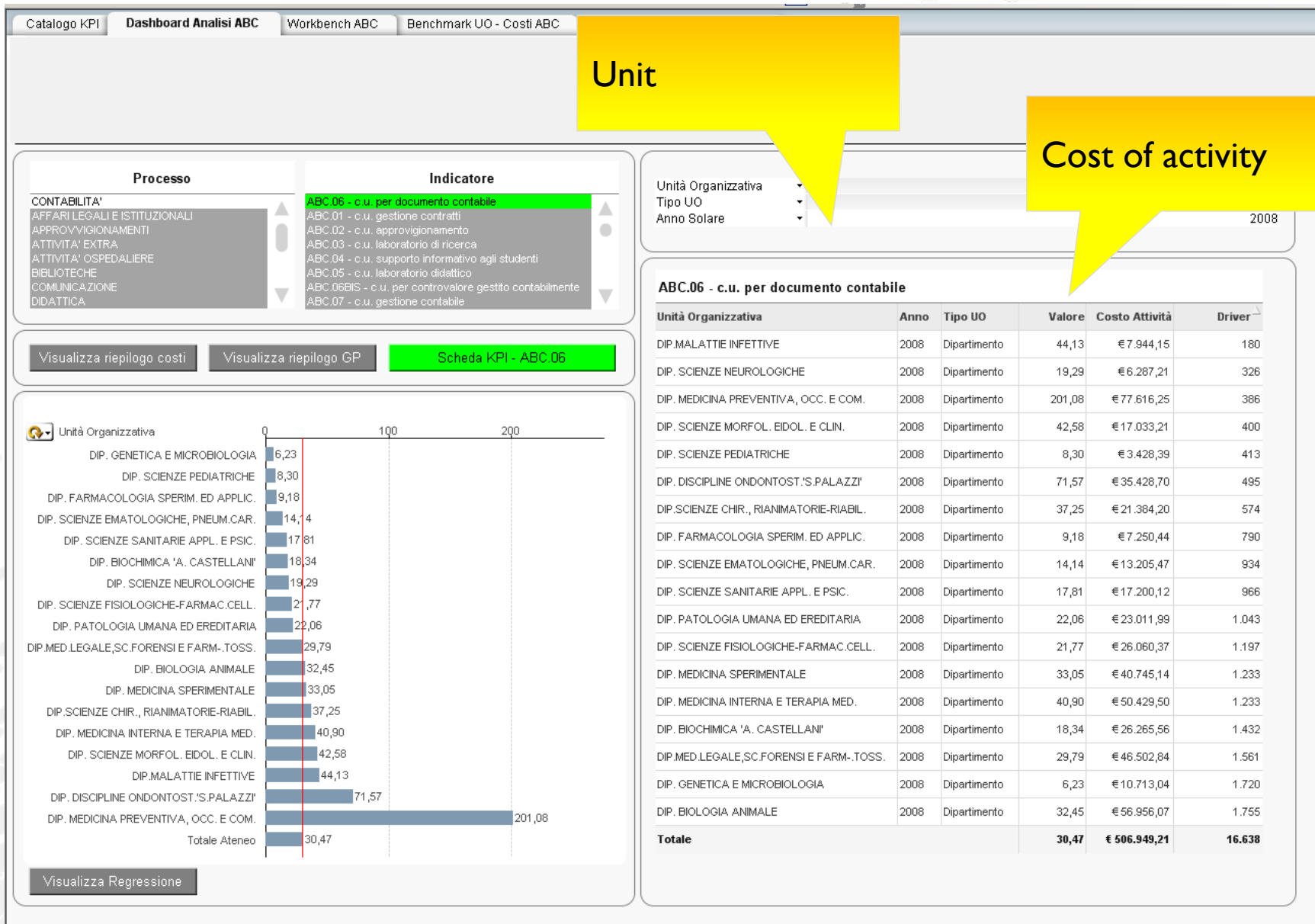
Employee number

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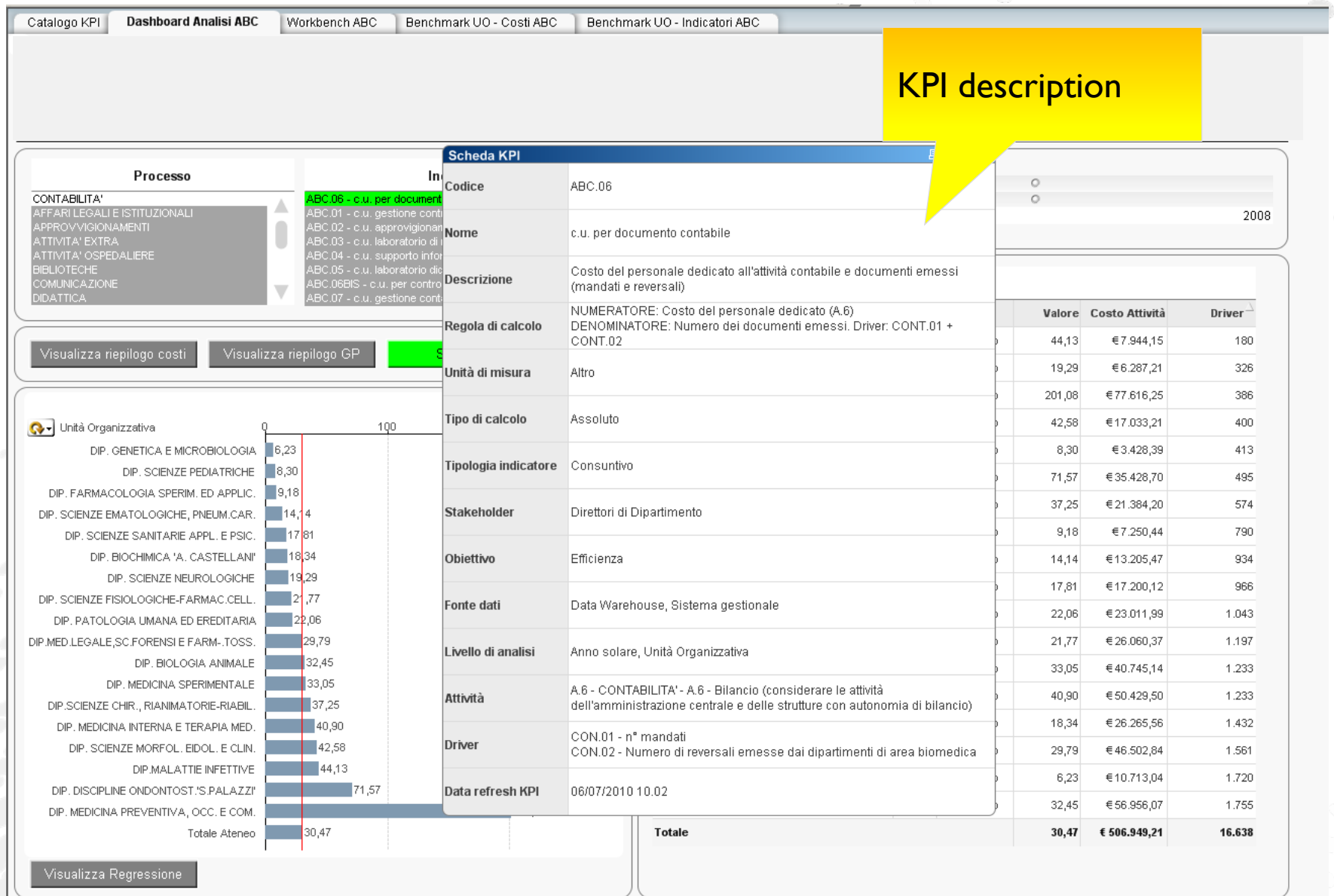


Future Years

Example, KPI & Dashboarding



Example, KPI & Dashboarding



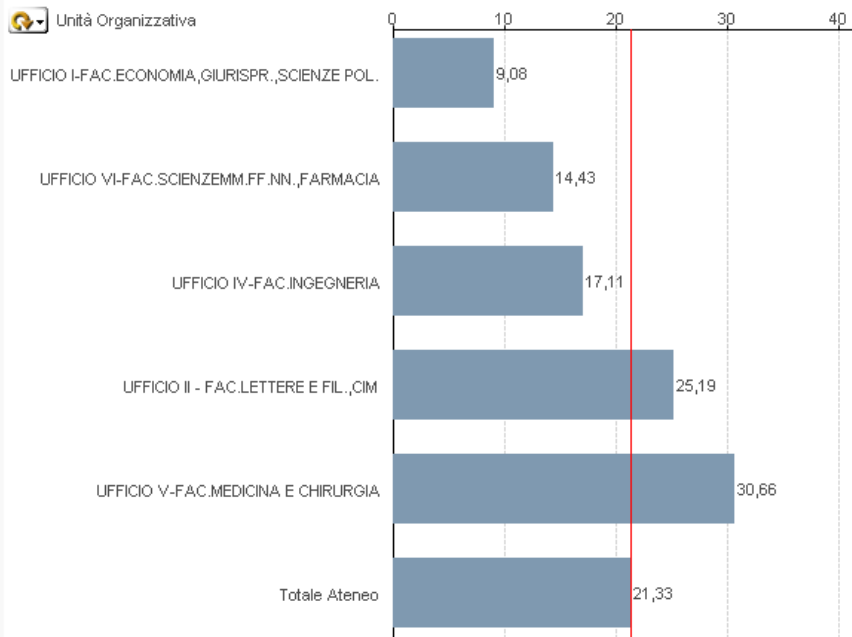
[Annulla tutte le selezioni](#)

Processo

DIDATTICA
 AFFARI LEGALI E ISTITUZIONALI
 APPROVVIGIONAMENTI
 ATTIVITA' EXTRA
 ATTIVITA' OSPEDALIERE
 BIBLIOTECHE
 COMUNICAZIONE
 CONTABILITA'

Indicatore

ABC.48 - c.u. gestione carriere, piani di studio e certific.
 ABC.01 - c.u. gestione contratti
 ABC.02 - c.u. approvvigionamento
 ABC.03 - c.u. laboratorio di ricerca
 ABC.04 - c.u. supporto informativo agli studenti
 ABC.05 - c.u. laboratorio didattico
 ABC.06 - c.u. per documento contabile
 ABC.06BIS - c.u. per controvalore gestito contabilmente

[Visualizza riepilogo costi](#)
[Visualizza riepilogo GP](#)
[Scheda KPI - ABC.48](#)

[Visualizza Regressione](#)

Unità Organizzativa

Tipo UO

Anno Solare

ABC.48 - c.u. gestione carriere, piani di studio e certificazioni

Unità Organizzativa	Anno	Tipo UO	Valore	Costo Attività	Driver
UFFICIO IV-FAC.INGEGNERIA	2008	Ufficio/Centro di Servizi	17,11	€ 53.928,48	3.151
UFFICIO II - FAC.LETTERE E FIL.,CIM	2008	Ufficio/Centro di Servizi	25,19	€ 89.518,06	3.554
UFFICIO V-FAC.MEDICINA E CHIRURGIA	2008	Ufficio/Centro di Servizi	30,66	€ 118.142,93	3.853
UFFICIO VI-FAC.SCIENZEMM.FF.NN.,FARMACIA	2008	Ufficio/Centro di Servizi	14,43	€ 62.158,24	4.308
UFFICIO I-FAC.ECONOMIA,GIURISPR.,SCIENZE POL.	2008	Ufficio/Centro di Servizi	9,08	€ 62.981,62	6.939
Totale			21,33	€ 465.157,23	21.805

Annulla tutte le selezioni

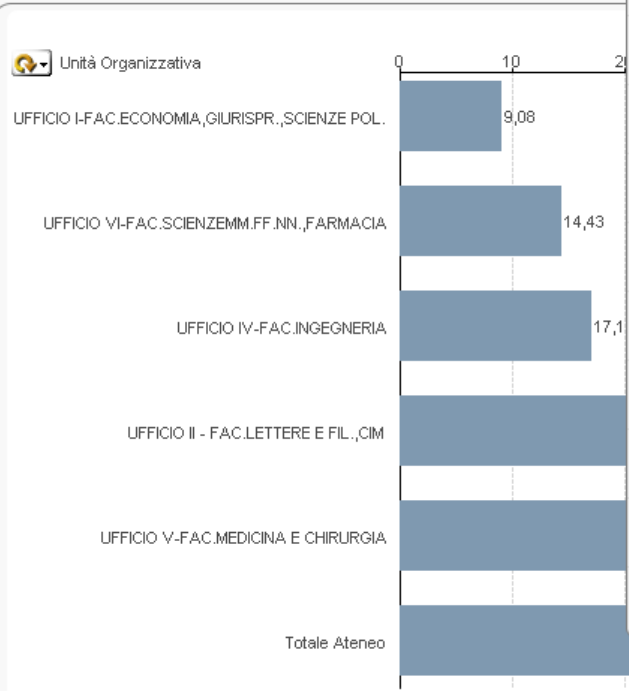
Processo

- DIDATTICA
- AFFARI LEGALI E ISTITUZIONALI
- APPROVVIGIONAMENTI
- ATTIVITA' EXTRA
- ATTIVITA' OSPEDALIERE
- BIBLIOTECHE
- COMUNICAZIONE
- CONTABILITA'

In

- ABC.48 - c.u. gestione carri
- ABC.01 - c.u. gestione conti
- ABC.02 - c.u. approvvigionam
- ABC.03 - c.u. laboratorio di
- ABC.04 - c.u. supporto infor
- ABC.05 - c.u. laboratorio dic
- ABC.06 - c.u. per document
- ABC.06BIS - c.u. per contro

Visualizza riepilogo costi Visualizza riepilogo GP



Visualizza Regressione

Scheda KPI

Codice	ABC.48
Nome	c.u. gestione carriere, piani di studio e certificazioni
Descrizione	c.u. gestione carriere, piani di studio e certificazioni
Regola di calcolo	NUMERATORE: Costo del personale dedicato alla gestione carriere, piani di studio e certificazioni (D.11) DENOMINATORE: N° studenti iscritti
Unità di misura	Altro
Tipo di calcolo	Assoluto
Tipologia indicatore	Consuntivo
Stakeholder	Direttore di Centro di Supporto
Obiettivo	Efficienza
Fonte dati	Sistema gestionale
Livello di analisi	Anno solare
Attività	D.11 - DIDATTICA - D.11 - Gestione carriere, piani di studio e certificazione (anche predisposizione on line)
Driver	DID.01 - n° iscritti iscritti (= coloro che hanno pagato almeno la 1a rata)
Data refresh KPI	06/07/2010 10.04

2008

ificazioni

	Valore	Costo Attività	Driver
ro	17,11	€ 53.928,48	3.151
ro	25,19	€ 89.518,06	3.554
ro	30,66	€ 118.142,93	3.853
ro	14,43	€ 62.158,24	4.308
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Cineca in EU

- Promotion of Standardization Groups
 - Student data standards: EUNIS-RS3G
 - Research data standards: euroCRIS
- 10 Universities in Turkey Kion Turkey
- 11 Universities in Albania Project with Academic Network of Albania
- 5 Universities in Romania Simur Project
- Project in Spain with SIGMA Consortium for Decision Support Systems.

We all share a common background

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

Higher Education



The European Higher Education Area will further the dissemination of IT solutions in EU

The more we harmonize

- **Regulations**
- **Processes**

in the European Higher
Education.



The more we can:

- adopt common **IT Solutions**
- share **Skills & Competences**

Thank you for your attention

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Cineca President

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