JOINSTIC UNIVERSITIC since 2006 Universidades Españolas TIC www.crue.org

Analysis of IT in Spanish Universities

Inphographic: http://rua.ua.es/dspace/handle/10045/54169



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How we are organized



CRUE TIC Comisión Sectorial de las Tecnologías de la Información y las Comunicaciones

>120 members

IT Analysing, Planning and Governance Group (ITAPGG) 12 members

gti4u Team Researchers 10 members



UNIVERSITIC 9 years



What is UNIVERSITIC?

It is the name of...

- An annual Survey, which results are published in a report bearing also the same name.
- A catalogue of IT indicators, which includes 3 different kind of indicators: description, management and governance.
- A knowledgebase, which includes values from 9 survey editions

UNIVERSITIC is a catalogue

Divided into 3 tiers...

IT Governance

IT Management

IT Description

An integral vision of IT in a HEI !!!

- 1. Teaching and Learning
- 2. Research
- 3. Management Processes
- 4. Information Management
- 5. IT Training and Culture

IT Description Axes

- 1. IT Resources
- 2. IT Projects
- 3. IT Services
- 4. IT Management
- 5. IT Quality, Regulations and Standards
- 6. Collaborations

IT Management Axes

- 1. Responsibility
- 2. Strategy
- 3. Acquisition
- 4. Performance
- 5. Conformance
- 6. Human Behaviour

IT Governance Principles (ISO 38500) **Principles: 6**

Objectives: 30

Variables: 128

Indicators: -

Axes: 7

Objectives: 21

Variables: 142

Indicators: 26

Axes: 5

Objectives: 15

Variables: 71

Indicators: 26

IT Governance

IT Management

IT Description

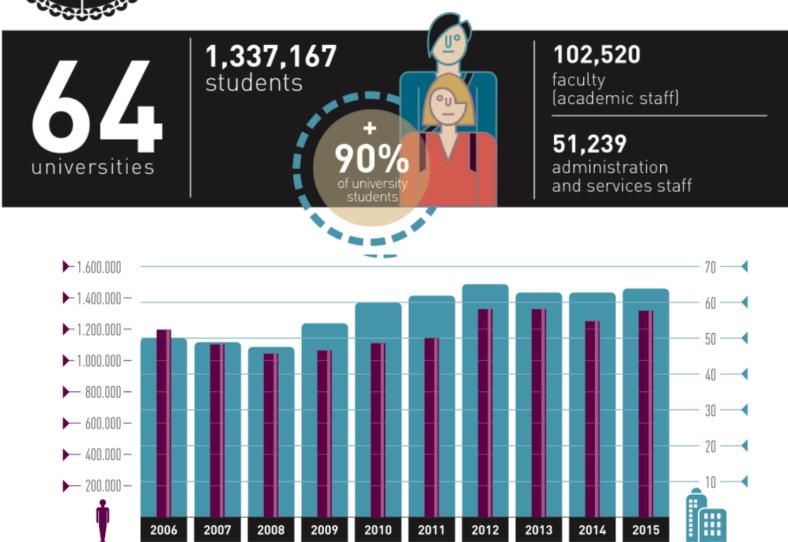
UNIVERSITIC is a survey...

- Designed by and for IT Directors
- Includes cost and volume indicators but most of them are best practices indicators
- We put our focus on Services and IT Management



EFFICIENCY

Getting the most out of the available resources



3.62% average budget allocated to IT by universities

220,000,000

euros devoted to centralised **IT**

4,830 specialists in central services

50% staff costs

2,953 permanent staff (FTE)

50% non-staff costs

28% new investments

15% hardware maintenance

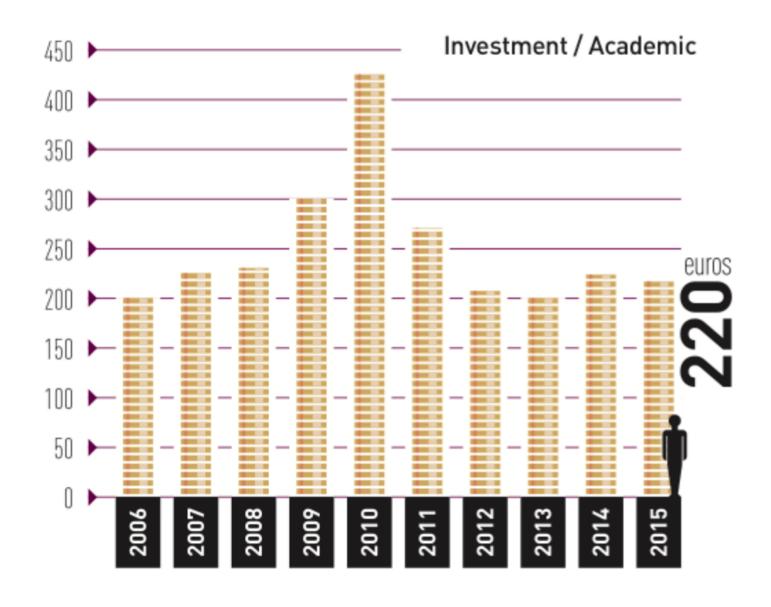
21% software maintenance

36% outsourced services

437 temporary staff

719 IT specialists in other services

721 outsourced



IT manager's time distribution



SERVICE

Providing students, teachers and managers with the equipment and services they need to work under the best conditions



183.00

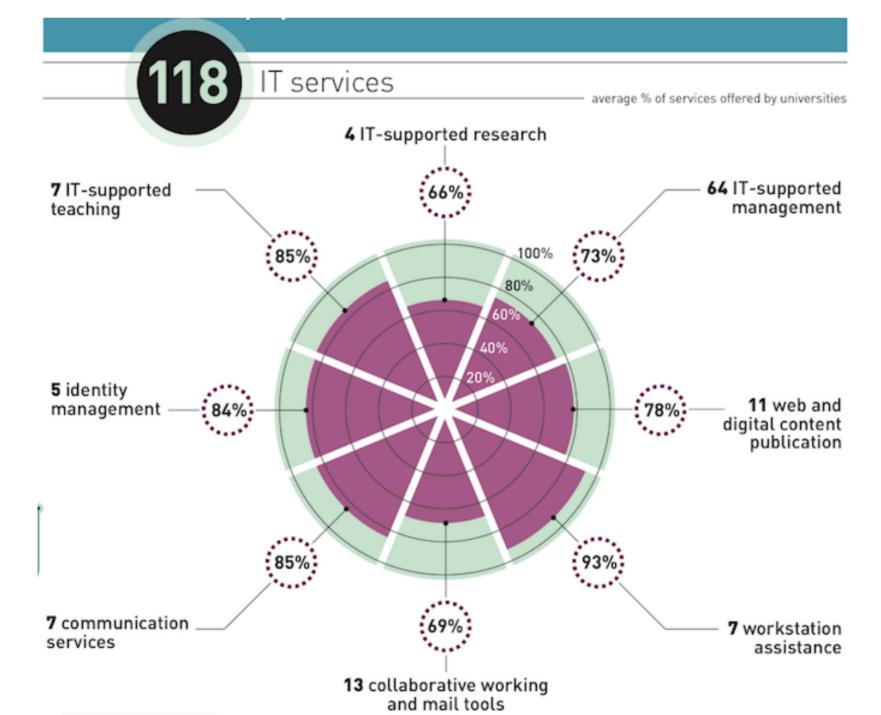
computers available to students (computer rooms, open-access computer rooms and laptops)

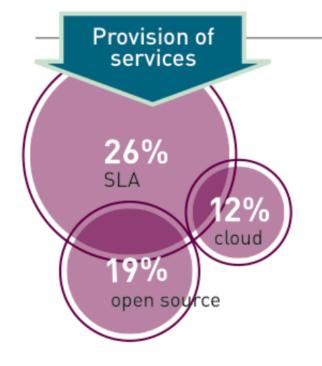
Complemented by the students' own personal equipment (BYOD), which also require services (wi-fi network, programs, etc.)

440,000,000 wi-fi connections per year



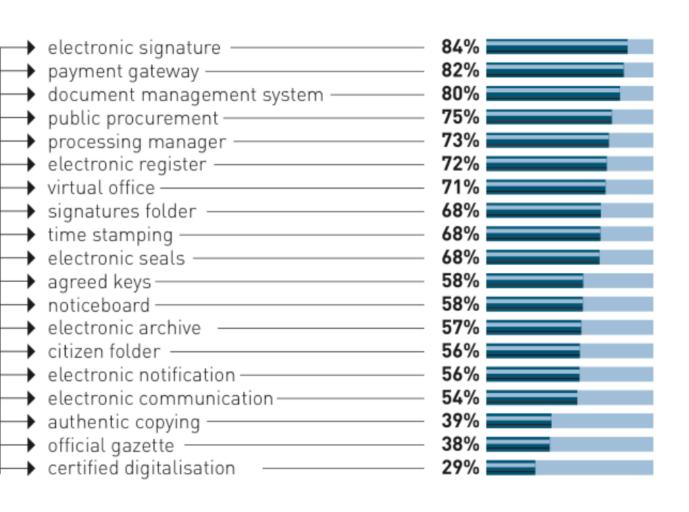
IIIII 9 million x university x year





Typical elements of electronic administration

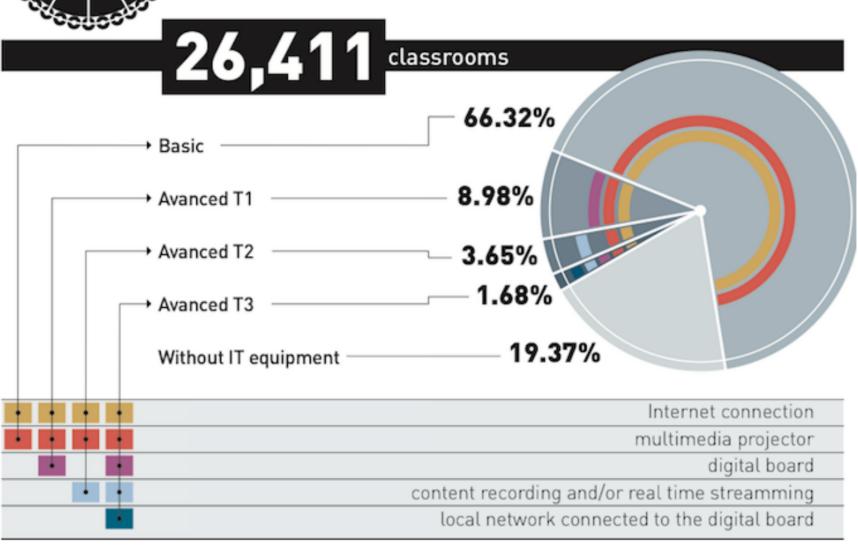
% of universities that have implemented or are developing them

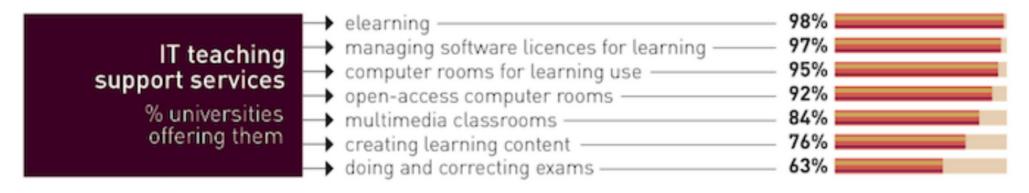




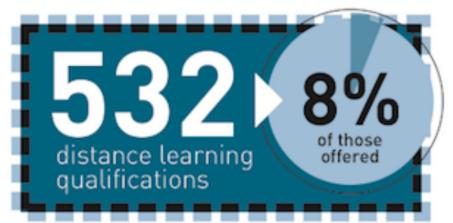
TRANSFORMATION

A new university thanks to IT









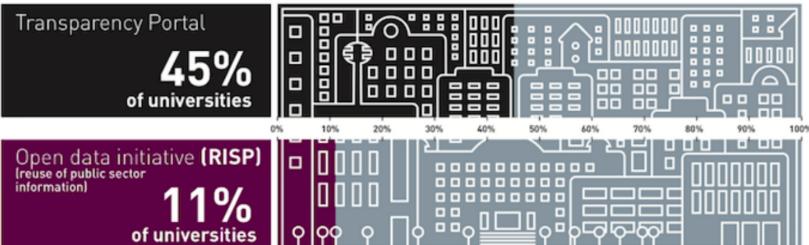
21 good practices in elearning

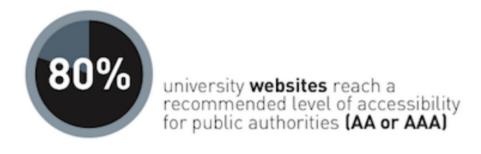
implemented in all universities	education technologies (forums, chats, calendars, etc.) specialists elearning unit initiatives for elearning curricular subjects initiatives for elearning extracurricular subjects specific training plan for teaching staff production of multimedia content sharing elearning courses or subjects specific elearning congresses	100%100%
% of universities offering or developing them	 content adapted for mobile devices multimedia digital repository recording rooms digital rights policy training for staff specialising in elearning specific training plan for students content quality criteria lecturers' networks incentives for lecturers training for companies university radio station university television station 	67%

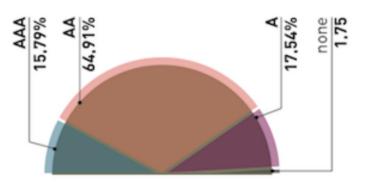
TRANSPARENCY

Accountability to society, easy access to information and publicity for governance actions



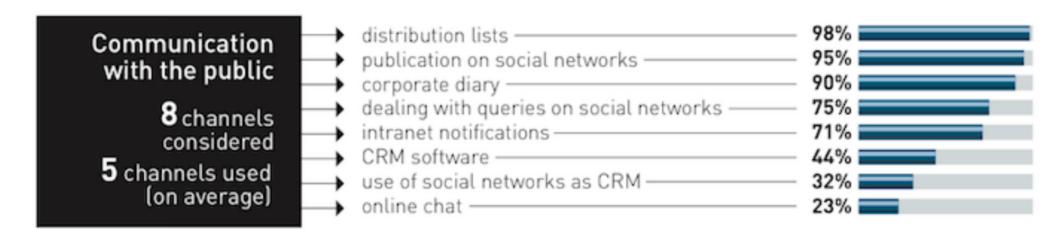




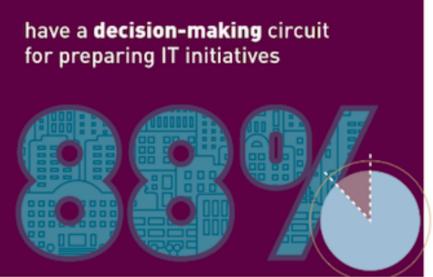




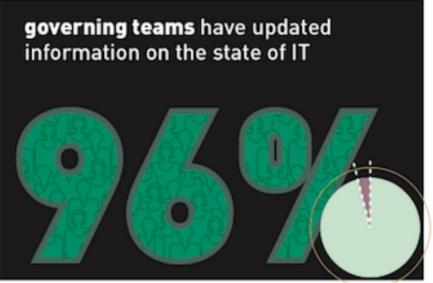
have an institutional content repository











IT Governance Best Practices...















working with international SULVEYS

Latam &

HE IT Benchmarking in Europe

Latam

- Two Editions of UNIVERSITIC Latam
- 15 HEIs have participated in 2013 and 42 in 2014.
- Last year, only one IT Governance project was implemented (CONFACAUCA University – Colombia).

HE IT Benchmarking in Europe

PROPOSAL: a new European IT indicators catalog...

- Which includes the main common IT indicators from our national surveys
- Each national system could keep their own surveys and feed the common system with the needed values
- Publish a final report with European results

HE IT Benchmarking in Europe

UNIVERSITIC as a source for trans-national benchmarking

- A small subset of real UNIVERSITIC's indicators has been selected for use or adoption in trans-national benchmarking.
- As a first step, this subset of indicators has been extracted in order to show the possible results of using the model proposed.
- This is only an example, data have been anonymized and some of the indicators have been estimated as its meaning differs slightly between UNIVERSITIC and the trans-national model.

Context indicators

	Total staff	Number of students in official courses.	University's total budget.	Completed ECTS
	NPDI+NPAS	NESTUDIANTES	PRESUPUESTOTAL	NASIGNATURAS*5
AVERAGE	2.721	24.177	169.384.164 €	19.522
MINIMUM	218	244	9.686.564€	1.590
MAXIMUM	10.024	170.682	518.120.000 €	73.040
UNIVERSITIES ANSWERING	52	52	47	51

IT resources and management indicators

Amount of technicians working full-time in centralised Computing Services

Centralised computing services budget, excluding staff costs (in euros). Total budget for centralised computing services (including expenses and staffing and expressed in euros)

	NTECNICOSTICC	NPRESUTI	PPRESUTOTALTI
AVERAGE	50	2.559.950 €	5.058.680 €
MINIMUM	4	118.193 €	317.292 €
MAXIMUM	163	12.029.210 €	19.400.000 €
UNIVERSITIES ANSWERING	61	46	42

CIO on the Board

CIO on the governing board

	BEGRESTI		
YES	40	71%	
NO	16	29%	
UNIVERSITIES ANSWERING	56		

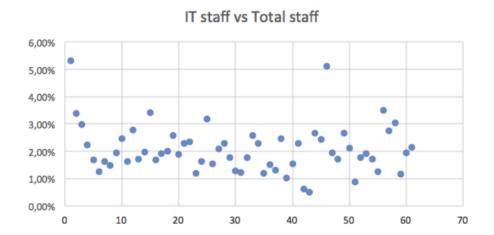
Examples of data analysis I

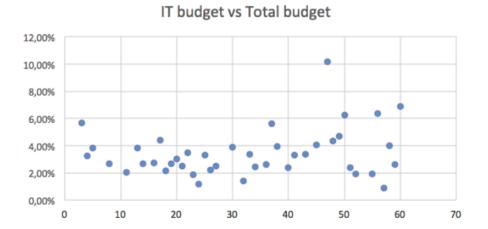
			IT staff vs Number
IT staff vs Total	IT budget vs Total	IT staff vs IT budget	of students
staff	budget	(€ per IT person)	(students per IT
			person)

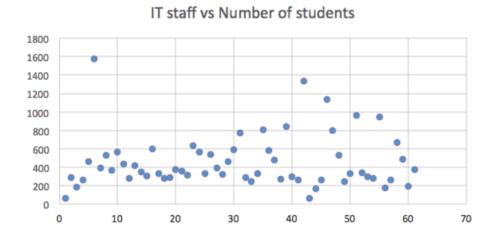
AVERAGE	2,07%	3,44%	98.900 €	456
MINIMUM	0,48%	0,88%	22.932 €	61
MAXIMUM	5,30%	10,19%	230.952 €	1575
VALID DATA	61	42	42 €	61

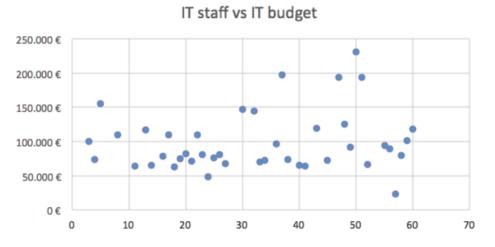
Examples of data analysis II

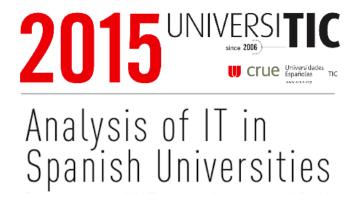
CIO in the governing board	YES	NO	YES	NO	
AVERAGE	1,9% 2,5%		3,1%	4,3%	
MINIMUM	0,5%		0,9%		
MAXIMUM	5,3%		10,2%		2%
VALID DATA	40	16	40	16	











Thanks

