Oficina de Cooperación Universitaria

VNiVERSiDAD D SALAMANCA

Updated September 2015

DIGITAL UNIVERSITY 2010 WHITE PAPER

FRANCISCO JOSÉ GARCÍA PEÑALVO
TECHNOLOGICAL & ACADEMIC COMMITTEE MEMBER

Annual Members`Meeting
Berlin, Germany, December 2nd 2008

inWent
Internationale Weiterbildung und Entwicklung gGmbH

cc BY NC SA

Summary

1. Introduction
2. Digital University 2010 White Paper
3. Digital University 2010 Reference Model
4. Conclusions

1. INTRODUCTION

Digital Era

- In the beggining of the 21th Century we are in a digital society first stage
- We are in a trasformation time
- Risks must be managed
  - Day by day operation
  - Change resistance

New rules

- Services are the business center
- Flexibility
- Distance and time difference are not relevant
- Information and knowledge will be where activity requires them

Motivation

- Higher Education must be adequate and integrated with the digital world
- A higher education organization should offer its services through telematic media, in order to
  - Be a higher education and research leader
  - Speed up its operating processes
  - Remove every accesibility barrier

Context

- Economic and politic connotations
  - Digital economic based on knowledge
- Legal connotations
  - European and local country laws and guidelines
- Academic connotations
  - European space for higher education

European Foundation for Quality in eLearning

Universidad Rey Juan Carlos

UNIVERSIDAD DE LA RIOJA

Oficina de Cooperación Universitaria

Santander 150

Telefónica

universia

2. DU 2010 WHITE PAPER

European Foundation for Quality in eLearning

Universidad Rey Juan Carlos

UNIVERSIDAD DE LA RIOJA

Oficina de Cooperación Universitaria

Santander 150

Telefónica

universia

Presentation

- Digital University 2010 White Paper
  - Presented at the Salamanca University, October 2nd 2008
  - Made by
    - Alcalá University, Carlos III University, Castilla-La Mancha University, Rey Juan Carlos University, La Rioja University, Salamanca University, Seville University & Valladolid University
    - Banco Santander, Telefónica, Universia & OCU

Universidad Rey Juan Carlos

UNIVERSIDAD DE LA RIOJA

Oficina de Cooperación Universitaria

Santander 150

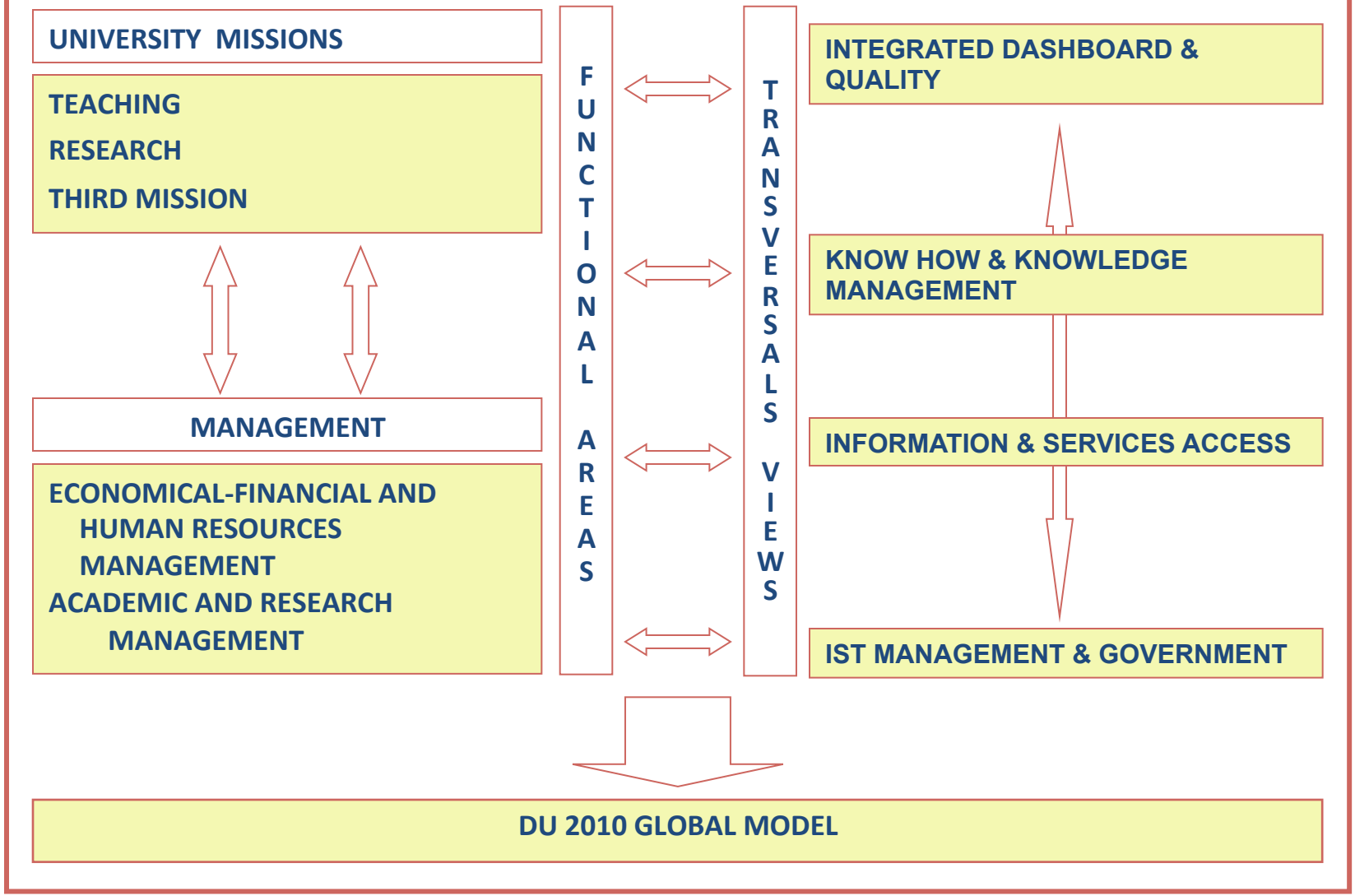
Telefónica

universia

What is the DU2010 White Paper?

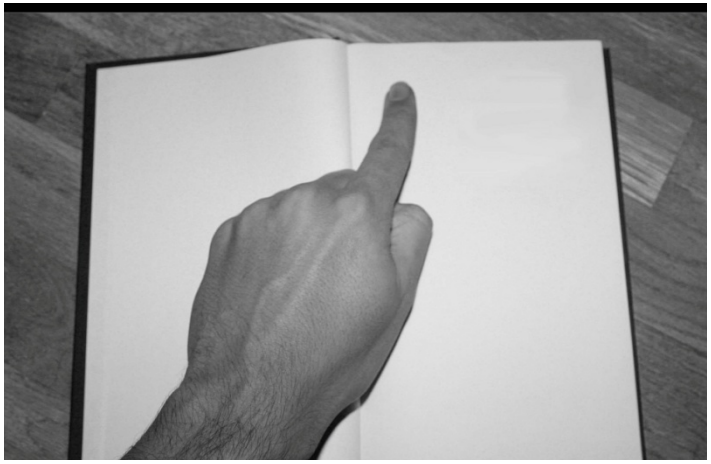
The Digital University 2010 White Paper is the result of a collective discussion between universities and enterprises about the technological transformation that Spanish (European) University must tackle due to the goals and challenges from the European Space for Higher Education

DU2010 White Paper Structure



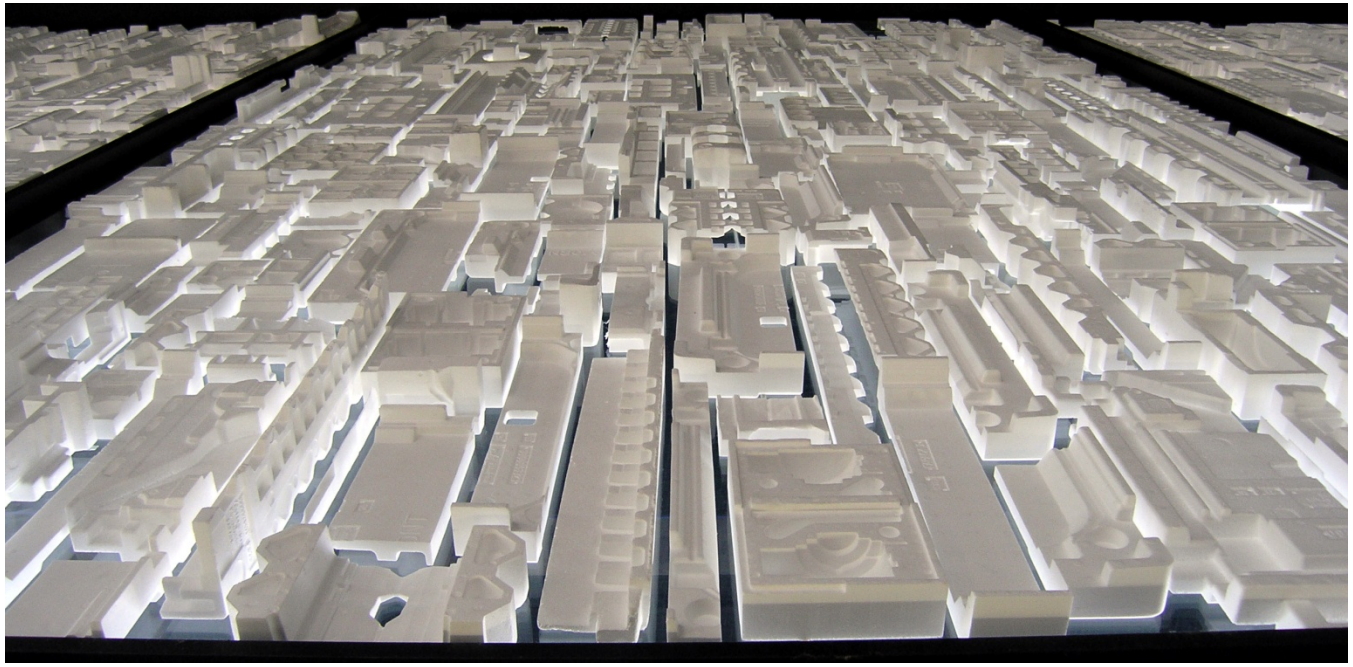
Chapter Structure

- SUMMARY
- STRATEGIC FRAMEWORK
  - FUNCTIONAL IMPACTS
    - TECHNOLOGICAL REQUIREMENTS
      - BEST PRACTICES



Academic & Technological Committee

Chairman: Mario Piattini Velthius	UCLM	Technology and Information Systems Full Professor
Ángel Sánchez Temprano	UAH	Computer Science Director
José Manuel Torralba Castelló	UC3M	Materials Science & Enginnering Full Professor
José Luís Moraga Alcázar	UCLM	Manager
Eugenio Fernández Vicente	URJC	Computer Science Director
Eliseo Vergara González	UR	Infrastructure & New Technologies Vice-chancellorship
Francisco José García Peñalvo	USAL	Technological Innovation Vice-chancellorship
Juan Camarillo Casado	USE	Digital University Director
Rubén Lorenzo Toledo	UVa	Telecommunication Dean
Alfredo Albáizar Fernández	Santander	Santander Universidades Director
Antonio Castillo Holgado	Telefónica	Competitive Intelligence General Subdirector
David Álvarez Ramos	OCU	OCU Group Technology Director
Project Leader: Jaime Laviña Orueta		Freelance Consultor
Technical Coordination: Laura Mengual Pavón		OCU Group Studies, Planification & Quality Director



3. DIGITAL UNIVERSITY 2010 REFERENCE MODEL

General Strategy

- Internationalization and integration in the higher education commun spaces
- More connection with the working mechanism
- Improvement of the knowledge transfer channels
- Searching of the academic and research excellence
- Achievement of high quality levels
- Performance of the European current legistlation
- Full transparency, accountability and optimizing the management of public and private funds
- Change of the educative methodology paradigm

European Foundation for Quality in eLearning

Universidad Rey Juan Carlos

UNIVERSIDAD DE LA RIOJA

Oficina de Cooperación Universitaria

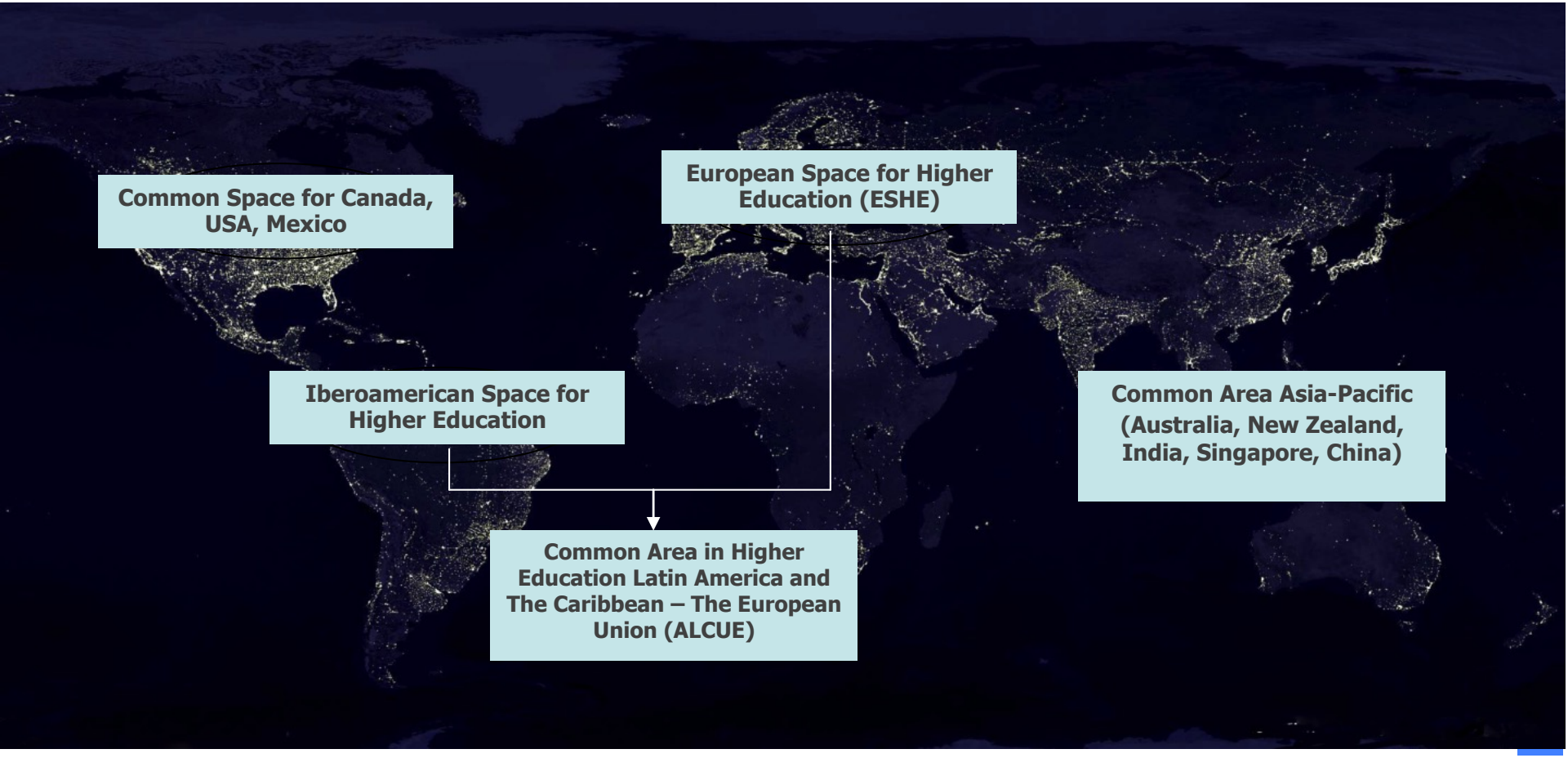
Santander 150

Telefónica

universia

A new environment for University

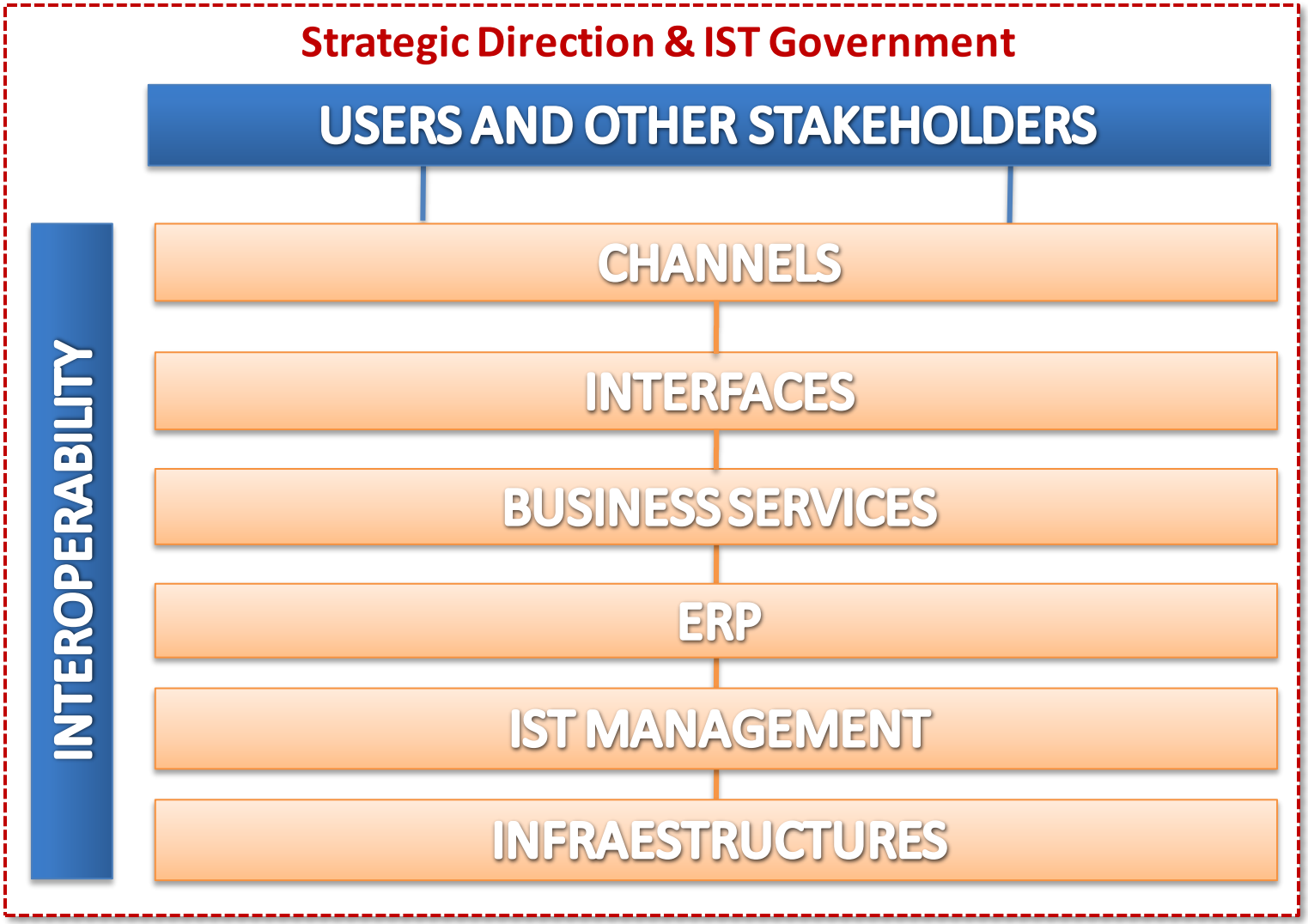
- Globalization and internacionalization



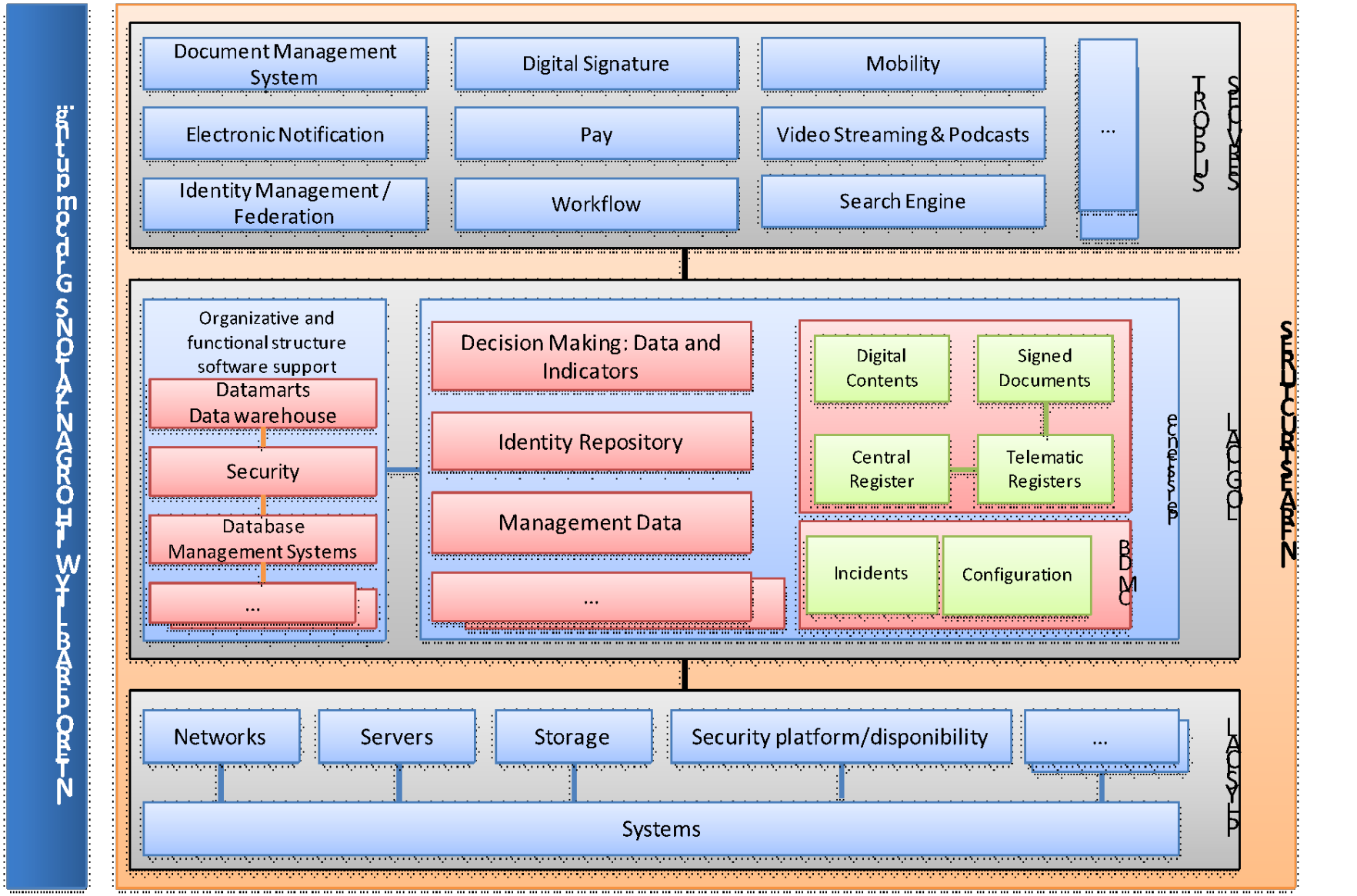
Technology

- Technology is a fundamental key in the 21st Century University
  - **Web & Web 2.0**
  - ***Service Oriented Computing (SOC) & Business Process Management System (BPMS)***
  - **Document management & XML**
  - ***Workflow Management Systems (WFMS)***
  - ***Datawarehouses & datamining***
  - ***Enterprise Resource Planning (ERP)***

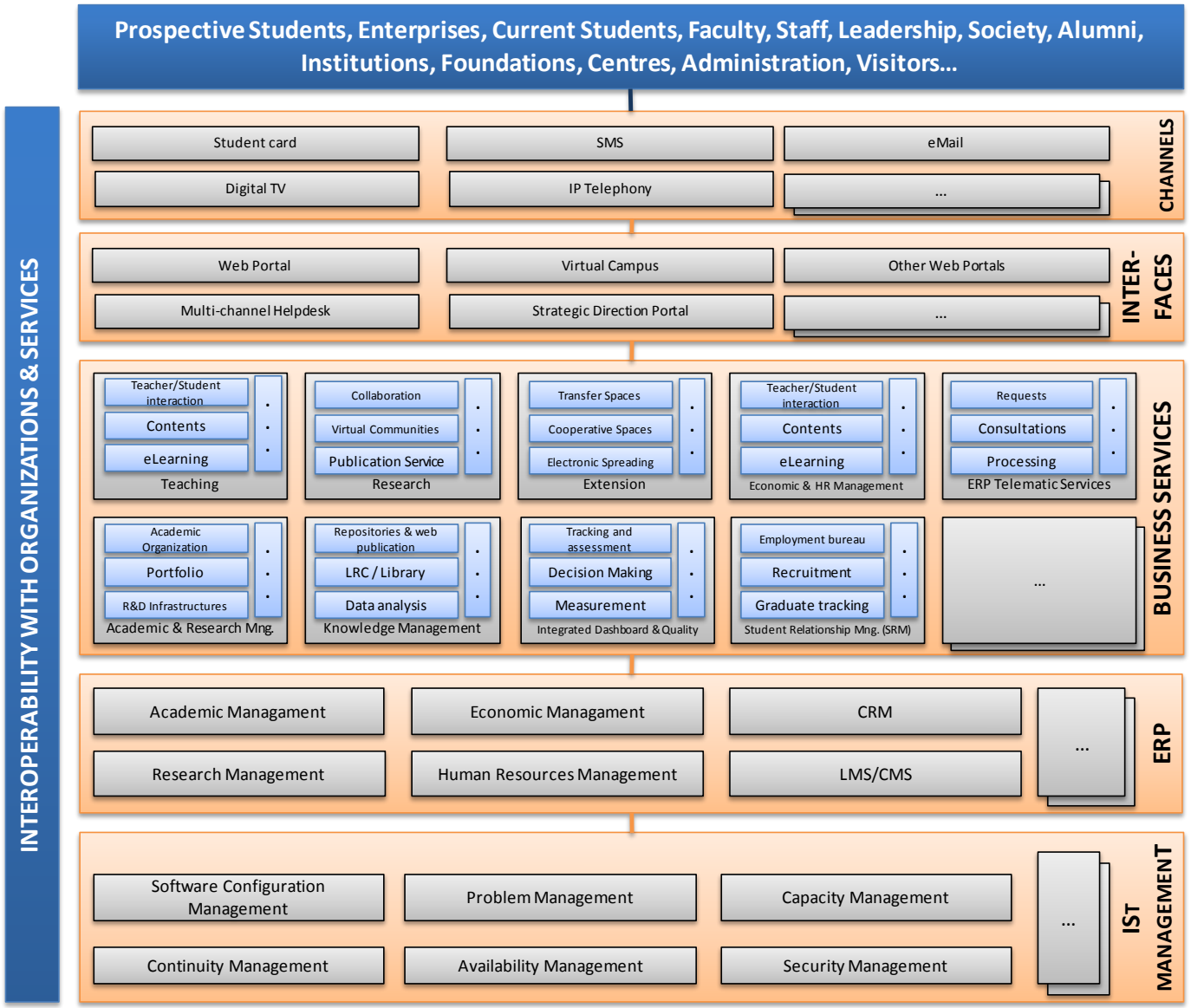
DU2010 Model



DU2010 Model



DU2010 Model



4. CONCLUSIONS

Conclusions

- A University new model is being constructed. Some keys
  - Technology is not an expense, it is a distinctive element
  - Lifelong learning
  - Education goes beyond of the classroom limits
  - University rivals in a globalized
  - University must be a partnership of the Society

Conclusions

"The growth of Knowledge Society depends of new knowledge creation, the transmission of this knowledge through education and training and also knowledge spreading through the IST" (European Commission)

Redesign of functions and tasks, change in aptitudes and education

Improvement of the efficiency and the externalization possibility

Conclusions

In line with the organization's vision

Investment in IST infrastructure

Strong implication of the University leadership

Better IST government

Conclusions

ESHE

With

technology

Conclusions

ESHE

Without technology

References

- Berlanga, A. J., García-Peñalvo, F. J., & Sloep, P. B. (2010). Towards eLearning 2.0 University. *Interactive Learning Environments, 18*(3), 199-201. doi:10.1080/10494820.2010.500498
- García-Peñalvo, F. J. (2005). Estado actual de los sistemas E-Learning. *Teoría de la Educación. Educación y Cultura en la Sociedad de la Información, 6*(2)
- García-Peñalvo, F. J. (Ed.). (2008). *Advances in E-Learning: Experiences and Methodologies*. Hershey, PA, USA: Information Science Reference (formerly Idea Group Reference).
- García-Peñalvo, F. J. (2008). Docencia. In J. Laviña Orueta & L. Mengual Pavón (Eds.), *Libro Blanco de la Universidad Digital 2010* (pp. 29-61). Barcelona, España: Ariel.
- García-Peñalvo, F. J. (2011). La Universidad de la próxima década: La Universidad Digital. In C. Suárez-Guerrero & F. J. García-Peñalvo (Eds.), *Universidad y Desarrollo Social de la Web* (pp. 181-197). Washington DC, USA: Editandum.
- García-Peñalvo, F. J., García de Figuerola, C., & Merlo, J. A. (2010). Open knowledge management in higher education. *Online Information Review, 34*(4), 517-519.

References

- García-Peñalvo, F. J., García de Figuerola, C., & Merlo, J. A. (2010). Open knowledge: Challenges and facts. *Online Information Review, 34*(4), 520-539. doi: 10.1108/14684521011072963
- García-Peñalvo, F. J., & Rivera, S., M. (2009). Digital University 2010. In J. R. Canay, J. Franco, & P. J. Rey (Eds.), *EUNIS 2009. IT: Key of the European Space of Knowledge. (Santiago de Compostela, Spain, June 23rd - 26th, 2009)* (pp. 32). Santiago de Compostela, Spain: Universidade de Santiago de Compostela Publicacións.
- García-Peñalvo, F. J., & Seoane Pardo, A. M. (2015). Una revisión actualizada del concepto de eLearning. Décimo Aniversario. *Education in the Knowledge Society, 16*(1), 119-144. doi: http://dx.doi.org/10.14201/eks2015161119144
- Laviña Orueta, J., & Mengual Pavón, L. (2008). *Libro Blanco de la Universidad Digital 2010*. Barcelona, España: Ariel.
- Llorens, F. (2011). La biblioteca universitaria como difusor de la innovación educativa. Estrategia y política institucional de la Universidad de Alicante. *Arbor, 187*(Extra_3), 89-100.
- Llorens, F. (2014). Campus virtuales: De gestores de contenidos a gestores de metodologías. *RED, Revista de Educación a Distancia, 42*, 1-12.

References

- López, C., García-Peñalvo, F., & Pernías, P. (2005). Desarrollo de Repositorios de Objetos de Aprendizaje a través de la Reutilización de los Metadatos de una Colección Digital: De Dublin Core a IMS. *RED. Revista de Educación a Distancia, IV*(Número monográfico II). Retrieved from http://www.um.es/ead/red/M2
- Negroponte, N. (1995). *Being digital*. New York: Vintage Publishing.
- Piattini Velthuis, M., García-Peñalvo, F. J., & Laviña Orueta, J. (2008). Libro Blanco UD 2010. In J. Á. Velázquez Iturbide, F. J. García-Peñalvo, & A. B. Gil González (Eds.), *Actas del X Simposio Internacional de Informática Educativa - SIIE'08 (Salamanca, España, 1-3 de Octubre de 2008)*. Salamanca, Spain: Ediciones Universidad de Salamanca.
- Ramírez Montoya, M. S. (2015). Acceso abierto y su repercusión en la Sociedad del Conocimiento: Reflexiones de casos prácticos en Latinoamérica. *Education in the Knowledge Society (EKS), 16*(1), 103-118. doi: http://dx.doi.org/10.14201/eks2015161103118

References

- Suárez Guerrero, C., & García Peñalvo, F. J. (Eds.). (2011). *Universidad y Desarrollo Social de la Web*. Washington DC, USA: Editandum.
- Toffler, A., Toffler, H. (2006) *La Revolución de la Riqueza*. Barcelona: Debate
- Uceda, J., Barro, S., Llorens, F., Franco, J., Fernández, A., Fernández, S., Rodeiro, D., Ruzo, E., Canay, J. R. (2008) *Las TIC en el Sistema Universitario Español (2008): Evolución. UNIVERSITIC 2008*. Madrid: Conferencia de Rectores de las Universidades Españolas (CRUE)

Oficina de Cooperación Universitaria

VNiVERSiDAD D SALAMANCA

Updated September 2015

DIGITAL UNIVERSITY 2010 WHITE PAPER

FRANCISCO JOSÉ GARCÍA PEÑALVO
TECHNOLOGICAL & ACADEMIC COMMITTEE MEMBER

Annual Members`Meeting
Berlin, Germany, December 2nd 2008

inWent
Internationale Weiterbildung und Entwicklung gGmbH

cc BY NC SA