



CAMPUS  
DE EXCELENCIA  
INTERNACIONAL

POLITÉCNICA

"Ingeniamos el futuro"

# ICT NCP Training Innovation Management



## Introduction to the NCP training

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ICT NCP training  
Innovation management

Gonzalo León | Warsaw | June 2016

# Prof. Gonzalo León



- Full professor of Telematics Engineering (UPM)
- Deputy Rector for Innovation Partnerships (UPM)
- Director of the Centre for Technology Innovation (CAIT)
- Spanish Delegate in SFIC (EU Council)
- Senior Policy Advisor for International Relations in the Spanish Secretary of State of R&D and Innovation
- Former positions:
  - Sec. General for Science Policy of the Spanish Government
  - Vice-President for Research (UPM)
  - Deputy Director General of Int. Relations (Spanish MEC)
  - Deputy Director of the Office of S&T (Spanish Government)
  - Member of CREST and ESFRI
  - Chairman of the “Lisbon Strategy follow-up expert group”,
  - Chairman of the “Research Infrastructure expert group”
  - Chairman of the “FP7 Space Advisory Group” (EC)
  - Rapporteur “G8 Research Infrastructures”

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# Learning objectives

- To understand the basic concepts behind **innovation management**
- To describe some techniques used in the **management** of innovation projects
- To understand the mechanisms to **exploit the results of research projects** in the EU
- To know the **structure, drivers and trends** for funding disruptive technology products and services in the EU

## Theme 1: 9:00-10:00

- Innovation concepts
  - ✓ From the idea to the market:
  - ✓ Relationship of innovation to research and development
- Types of innovation: complementary perspectives
  - ✓ Product, process, service
  - ✓ Evolutionary, revolutionary (disruptive)
  - ✓ Open, closed
- Drivers for technology innovation
  - ✓ Multidisciplinary approach
  - ✓ Globalisation

## Theme 2: 10:00-11:00

- Innovation projects
  - ✓ Definitions:
  - ✓ Life-cycle models
  - ✓ Planning phases: relevance to piloting and demonstration
- Characterization: dimensions of complexity
  - Innovation profiles
- Interaction between research and innovation
  - ✓ From the idea to the market
  - ✓ Technology readiness levels (TRL)
  - ✓ Roadmaps for products and services

## Theme 3: 11:30-12:30

- Project innovation management
  - ✓ Inputs, outputs,
  - ✓ Milestones, deliverables
  - ✓ Resource allocation
- Organisational innovation
  - ✓ Lean management
- Risk management
  - ✓ Time, cost, technology, people, intangibles
- People management
  - ✓ Team building, profiles, culture

## Theme 4: 12:30-13:30

- Technology evolution
  - ✓ Diffusion rates
  - ✓ Diffusion models
- Technology intelligence
  - ✓ Technology watch
    - Critical watch factors
    - Technology watch reports
  - ✓ Forecasting
    - Delphi method



## Theme 5: 14:30-15:30

- Innovation in the EU:
  - ✓ International comparison with other world players
  - ✓ EU innovation SWOT
- Innovation Ecosystems
  - ✓ Innovation culture
  - ✓ The role of stakeholders
  - ✓ The EIT Digital ecosystem
- Conclusions



- **Theme 6: 15:30-16:30**
- Funding for innovation projects
  - ✓ When and how much I need
  - ✓ National funds
  - ✓ The EU landscape
    - ✓ Synergies between H2020 and other funds
    - ✓ Risk capital
      - Corporate venture
- Service innovation (from FP7/H2020)
  - ✓ The case of FI-WARE

# Documentation

Documentation to be distributed to the participants:

- Copies of slides
- Selected readings per lecture

Documentation will be loaded in an on-line repository in the CAIT (UPM) for easy access to participants after the course