Horizon 2020 Success Story from Çukurova University

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Horizon 2020 Info Day
12 February 2018
Content

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  • Collaboration
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Background
Wheel of Collaboration

- Trust
- Teamwork
- Support
- Success
- Change
- Sharing

Collaboration
Horizon 2020 Projects Aims*

IDEA

Breakthroughs

Discoveries

World-firsts

MARKET

Users

Horizon 2020 Project Partnership

Objectives

• Collaborating with top class research centers and human resources
• Participating in large scale projects
• Improving R&D infrastructure and personnel
• Create opportunity to start new collaborations
INPATH-TES – PhD on Innovation Pathways for TES

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Çukurova University
INPATH-TES
PhD on Innovation Pathways for TES

• Title and logo:

• Duration: 36 months
• Start: 1 May 2015
• Call: H2020-LCE-2014-2
• Type: Coordination and Support Action
• Coordinator - University of Lleida (SPAIN)
• Website: www.inpathtes.eu
Main Goal

• Main goal:
  – To create a network of universities and research institutes to implement a joint PhD programme on TES technologies at year 0+2 (2017)

• Specific objectives:
  – To develop at least 20 ECTS of basic common training
  – To develop 4 basic common technology PhD courses
  – To establish one annual workshop for PhD students
  – To aim at graduating at least 28 PhD students every year at year 0+6 (2021)
  – To exchange at least 14 PhD students every year between industry and academia
Consortium

- INPATH-TES consortium: 22 partners, 14 countries
A total of 14 courses are being developed by the consortium.

The PhD programme is built according to the following structure:

- Course
  - Topics
    - Lessons
      » Learning activities: recorded videos, e-books, presentations, animations, diagrams, pictures and texts, assessment questions, access to remote lab exercises, interactive simulations, filmed study visits and online literatures

INPATH-TES PhD Courses

### Basic Common Courses
- Course 1: Research and PhD
- Course 2: Introduction to thermal energy storage
- Course 3: Thermal energy storage materials
- Course 4: Testing and characterisation of thermal energy storage materials
- Course 5: Heat and mass transfer and sizing of energy storage devices

### Research Management, Communication and Dissemination ("Soft Skills")
- Course 6: Intellectual property and patenting ideas
- Course 7: Idea to product development
- Course 8: Dissemination and communication of R+D+I
- Course 9: Funding of research and project management
- Course 10: Management and entrepreneurship

### Technology Specialization Courses
- Course 11: Thermal energy storage applications for buildings
- Course 12: Demand side management concepts and energy storage
- Course 13: Large-scale and industrial energy storage
- Course 14: Energy policy and market development
• The EIT/InnoEnergy pedagogical methodology is being implemented within an online platform
Lesson template

Learning activity - videos
PhD Platform

How to use DSC (ppt)

How to Use Differential Scanning Calorimetry (DSC)

How to Use Differential Scanning Calorimetry (DSC)

Learning activity - presentation

Learning activity - assessment
Student Enrollment

- Students have the possibility to do a PhD through **co-tutelles** between the participating universities
- INPATH-TES label can be awarded if some requirements are fulfilled
- External people from academia or companies may also take courses from the platform
- Enrolments will be possible by filling up the form available on the project website and paying the fees

http://www.inpathtes.eu/
Main Challenges

• Development of the programme
  – Organizing training workshops with experienced online platform representatives of KIC

• The implementation of the programme in each country/institution
  – Establishing co-tutelle agreements

• Two levels of work: PhD programme and Master of Science (MSc) programme
  – Developing MSc programme parallel to PhD

• To ensure the continuity of the programme after EU funding ends
  – Signing agreement with consortium partners to continue activities after project ends
Important Dates

31 May 2017          Abstract submission
30 June 2017          Acceptance
1 October 2017        Full paper submission
31 December 2017      Acceptance

Main Conference Topics:
T1. Energy storage materials
T2. Energy storage systems
T3. Cross-cutting aspects
T4. Climate change

EARTH CANNOT WAIT!
How did we accomplish?
Steps to Success

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Success

Project
Team
Visibility
Awareness
1. Step: Awareness

- EU project experience
  - Information on projects completed by CU
  - Unsuccessful project proposals from CU
- Horizon 2020 Priorities
  - Energy – 25 years of experience in energy storage
  - Researcher and infrastructure availability
- Project Calls
  - ÇÜ Project Development and Coordination Unit
  - TÜBİTAK National Contact Points
  - Network sharing
- Potential stakeholders
  - Experience in industry university projects
  - Other organizations: Municipalities, NGOs, etc
2. Step: Visibility

- Advertising your institute
- Academic activities
  - Scientific publications
  - Projects
  - Scientific meetings
- Communication with important researchers in the specific field
  - ÇÜ is part of a large network through the membership in International Energy Agency Energy Storage Technology Collaboration since 1995
  - Joint activities: Publications, projects, academics and students exchange
- Using communication tools effectively
  - Trustworthy, stable, responsive
  - Social media: LinkedIn, Twitter
3. Step: Team

- Determine team members
  - Inside
  - Outside
- Organize meetings
  - Bring stakeholders together
  - Determine common topics
  - Develop project ideas
4. Step: Project

- Project proposal process
  - Invitation to project
  - Determining partners
  - Workplan and sharing
  - Deliverables
  - Budget
  - IP subjects
- Support mechanisms for questions
  - https://cordis.europa.eu
  - TÜBİTAK NCP
  - ÇÜ Project Development and Coordination Unit
5. Step: Success

- Acceptance of project
- Signing
- Project management
  - Participation at meetings
- Workplan
  - Contribution to deliverables
- Using project resources effectively
- Sharing knowledge
- Sustainability
InPathTES Project Proposal Process

06 August 2014
- Invitation to project

25 August 2014
- Partners determined

10 September 2014
- Application

1 Ma 2015
- Project starts
Conclusions and Recommendations

• Strong identity of institute
  • Visibility, quality advertisement and strong academic infrastructure

• Effective international collaborations

• More qualified research groups
  • Planning infrastructure projects according to the priority areas
  • Result oriented project partnerships
  • University-industry collaborations

• Improving project experience and culture
  • Training
  • Support and incentives

More EU Projects

Stronger R&D
This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 657466 (INPATH-TES).
The authors of this presentation would like to thank the European Commission (Horizon 2020 Nº657466 INPATH-TES).
THANK YOU

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