

# **Advanced Networking for Nuclear Education and Training and Transfer of Expertise**

## **A Forum for enhanced SNETP – ENEN cooperation on ETKM**

***Leon Cizelj***

***President of ENEN***

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# Overview

- Introduction & Goal
- Structure of ANNETTE
- Highlights of tasks and results
  - Stakeholder involvement
- SNETP ETKM Forum: proposal by ENEN

# Introduction

- Need for coordination in nuclear E&T
  - Many E&T initiatives in EU and beyond
  - different stakeholders, similar goals
- Recognized by EC in the 2014 H2020 Call  
➔ ENEN proposed project **ANNETTE**
- Endorsed by SNETP, NUGENIA, MELODI, IGD-TP, FORATOM, ENS...

***the main objective of ANNETTE is coordination among nuclear E&T actions and groups throughout Europe***

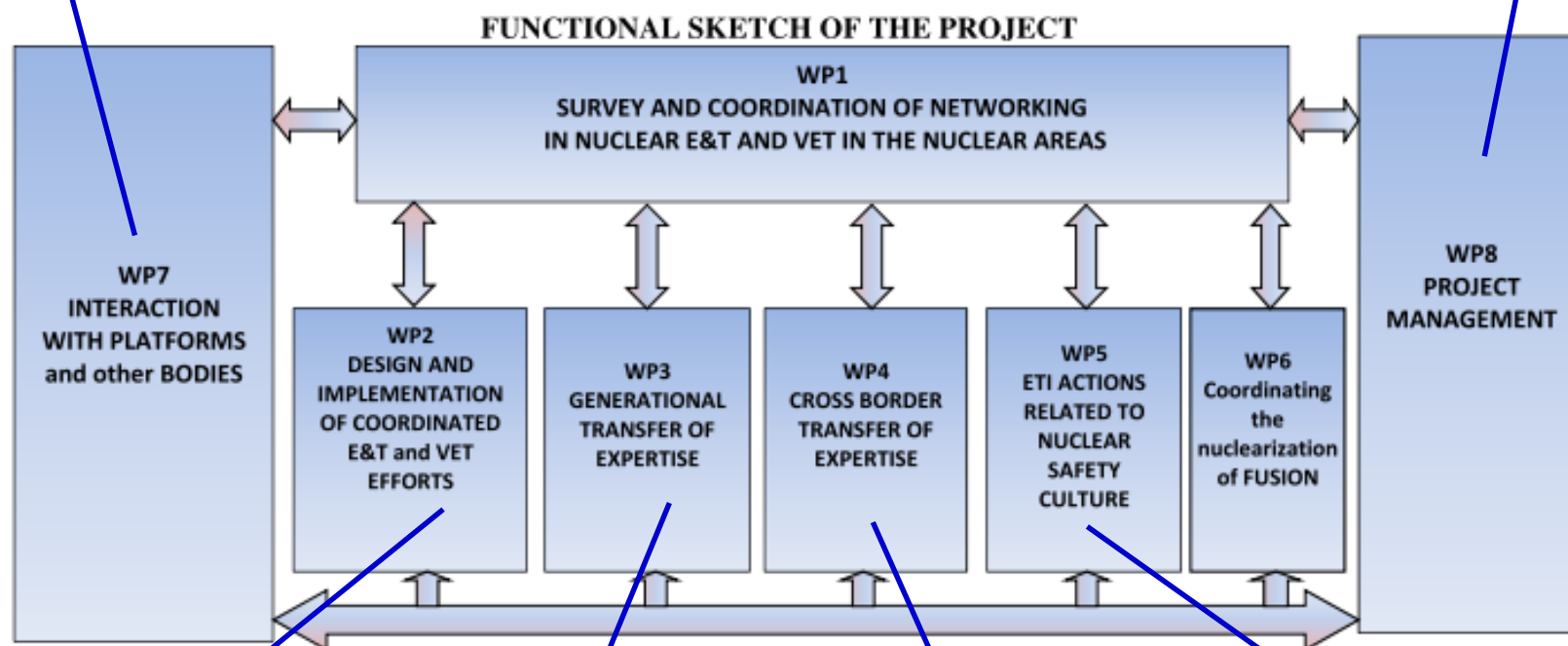
# Structure of ANNETTE

- Jan 2016-Dec 2019
- 25 partners in 8 Work packages  
Nuclear Engineering, Radiation Protection, Medical Physics,  
Geological Radwaste Disposal, Fusion Engineering, Nuclear Security
- Effort of 240 person months
- Total costs 3,2 MEUR
- EC contribution 2,5 MEUR
- Coordinated by ENEN Association

# Structure of ANNETTE

Exchange Forum  
Platforms  
Stakeholders

Nuclearize Fusion



Continuous  
professional  
development

Produce  
teaching  
materials

ECVET  
application in  
industry

Enhance safety  
culture

# Highlights of tasks and results

## WP1: coordination of Nuclear E&T **[SCK-CEN]**

- Survey the complex landscape of many initiatives, offers, providers, needs and end-users
- Explore and propose mechanisms and modalities for cooperation, including
  - Information exchange,
  - QA,
  - Certifications.

# Highlights of tasks and results

## WP2 **[CIRTEN]** & WP5 **[ENEN]** & WP6 **[FuseNET]**

Continuous Professional Development, Nuclear Safety Culture, Nuclearization of Fusion

- a list of possible actions already proposed:
  - 60 ECTS M.Sc., Summer schools, courses etc.
- **Stakeholders** needs input based on those actions
- Adapt the proposed actions [within the limits of ANNETTE]
- Execute end **evaluate** pilots
- Towards **sustainability** of activities

➔ **ENEN Nuclear Knowledge Foundation?**

# Highlights of tasks and results

## WP3: teaching materials **[UPC]**

- a list of possible actions already proposed:
  - Textbooks, multimedia, massive online open course-MOOC
  - on any of the ANNETTE topics
- **Stakeholders** needs input based on those actions
- Adapt the proposed actions [within the limits of ANNETTE]
- Execute and **evaluate** pilots
- Towards **sustainability** of activities



# Highlights of tasks and results

## WP4: application of ECVET in industry - cross border mobility **[AREVA]**

- ECVET: European Credit system for Vocational Education and Training
- Specify the EU Nuclear ECVET application
  - Towards EU Nuclear Skills Passport?
- Consult with **Stakeholders** needs input based on those actions
- Execute and **evaluate** pilot application
- Towards **sustainability** of activities

# Highlights of tasks and results

## WP7: interactions with stakeholders **[JSI]**

- Stakeholders:
  - SNETP, IGD-TP, MELODI, NUGENIA, EHRO-N
  - IAEA, regional nuclear education networks,
  - ENS, FORATOM, ENSREG, WENRA, HERCA, ETSON
- Establish regular communication
- Get feedback from Stakeholders
- Two events-workshops for in-depth discussions
  - **NeSTET 2016, Berlin, May 22-26**

# SNETP ETKM Forum: proposal by ENEN

- **ANNETTE: the frame (WP7 interaction with stakeholders)**
  - Similar goals, complex landscapes, avoid unnecessary duplication
  - independent forum for communication
- **ENEN:**
  - Research on landscape and possible improvements to ETKM
  - Student recruitment, mobility.
- **SNETP:**
  - Input from industrial communities
  - Disseminate the results from the ETKM communities to industry

- **Structure aligned with SNETP pillars:**

	SNETP	ENEN
Coordinator	John Roberts	
NUGENIA		Leon Cizelj
ESNII		Walter Ambrosini
NC2I		John Roberts

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## Project Presentation for Stakeholders

***Thank you for your attention!***

**[Leon.Cizelj@ijs.si](mailto:Leon.Cizelj@ijs.si); [Sec.Enen@cea.fr](mailto:Sec.Enen@cea.fr)**

