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European Regional Development Fund - Instrument for Pre-Accession II Fund

FUTURE 4.0

FUTURE 4.0 Final Public Event
GoToWebinar - December 17, 2020

The FUTURE 4.0 project: genesis, implementation and achievements

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REGIONE DEL VENETO

Who we are

PUBLIC BODIES

PP1 - Veneto Region IT
PP4 - Chamber of Achaia EL
PP6 - Primorje-Gorski Kotar County HR
PP8 - Chamber of CI, Tirana AL
AP2 - Apulia Region IT

BUSINESS SUPPORT ORGANIZATION

PP2 - Confindustria Veneto SIAV S.p.A. IT
AP1 – Confindustria BBAT IT

UNIVERSITIES

PP3 - Polytechnic University of Bari IT
PP5 - University of Patras EL
PP7 - University of Rijeka Faculty of Economics HR
PP9 - “Mesdheu” Center AL

Starting point

- The European manufacturing industry was facing the **new significant transformation** of the **fourth industrial revolution** and new digital age called **Industry 4.0** linked to the introduction of cyber-physical systems within the productive processes.

- The transformation in the **shipbuilding sector and its related supply chain** in **Adriatic-Ionian region** was influencing the entire value chain process with effects on production, relations between companies and human capital development, highlighting the **urgent need of new technology brush ups.**

- European system was expressing weaknesses in terms of **transforming the results of technological research** and skills **into innovations and competitive advantages** for societies and economies.

Facilitate the manufacturing system enhancement in EUSAIR area, supporting the implementation of new technologies brought by the Industry 4.0 in the Shipbuilding sector by encouraging sustainable and better management of our "blue resources" (Blue Economy).

Setting Objectives

MAIN

➢Design a shared **Strategy to innovate companies approach to training through a Smart Learning Model enhancing shipyard competitiveness** in Italy (Veneto & Apulia), Croatia, Greece and Albania.

SPECIFIC

➢ Define a **Technological Map of the Shipyard & Nautical Logistic supply chain** for the involved regions, identifying specific needs on technology and related competences

➢ Set up of a knowledge, competence and skills training/learning hub **FUTURE 4.0 Platform** involving Universities and training orgs., companies and Public Authorities

➢ Design, implement and validate through local pilot actions a **Smart Learning Model**, encompassing effective industrial education and training for innovation and enhancing the University-Industry cooperation.

Technological Map

The state of the art of the smart industrial changes, technologies and future jobs in the Adriatic-Ionian countries.

DESK STUDIES → **ANALITIC HIERARCHY PROCESS** → **COMPANIES INTERVIEWS** → **CARD GAME METHODOLOGY**

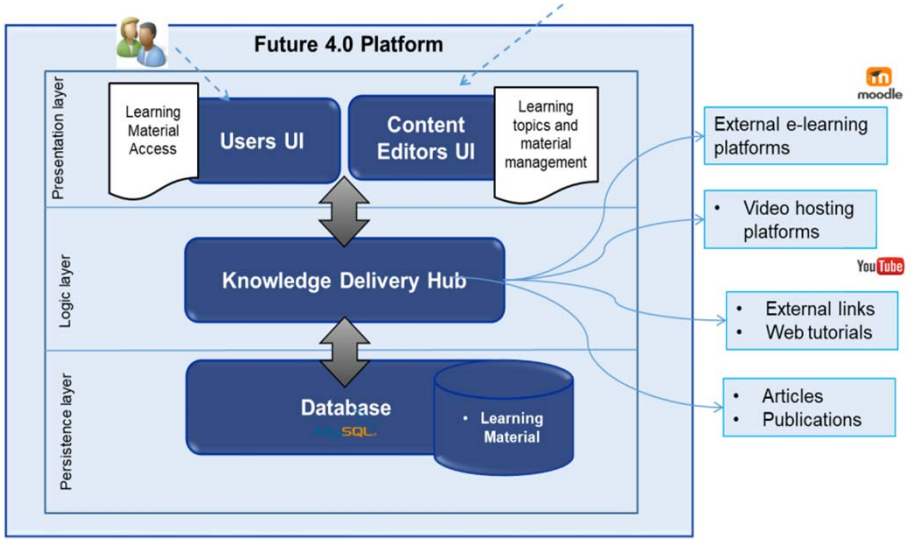
Analysis of the economy of each area from three perspectives: productivity, professional skills and improvement of sustainability

Identification of 6 KETs enabling tecnologies

Expected benefits for the maritime sector from the realisation of Industry 4.0

Impact of I.4 on professional profiles: figures most affected by the changes introduced by I.4, new skills and competences required and new emerging professional profiles

FUTURE 4.0 Platform



WEB LEARNING PLATFORM
designed to provide training to employees in the Shipyard and Nautical Logistic Supply Chain

Integrates different and heterogeneus learning objects into a common learning procedure

TWO TYPE USERS
- Lerners
- Educators

6 CONTENT BLOCKS
- Additive manufacturing
- Big data and analytics
- Cyber security
- Advanced manufacturing
- Cloud computing
- Augmented reality

3 MAIN LEVELS
- Basic
- Intermediate
- Advanced

Smart Learning Model

Combination of the **Integrated learning hub** open to users and based on specialized theory, **and modern education methods** such as e-tools, e-learning, **traditional** as well as **blended learning techniques**, media, teaching resources, teachers' communities, and learners' communities.

The learning and training actions:
- synchronous and asynchronous
- on - site and distance content delivery
- learning games and simulation techniques
- the Teaching Factory paradigm

Focus on:
- Attitude towards technological change
- Skills Development
- Competence Development
- Knowledge Transfer

Liyanage's model:

➢ **Awareness:** identification of the knowledge deemed most appropriate to use in order to respond adequately to the innovation needs.

➢ **Acquisition**: individuation of the supplier and the acquisition of the knowledge.

➢ **Transformation**: acquired knowledge requires to be processed, worked out and adapted so that it can become usable by the company.

Local Pilot Actions

5 LOCAL PILOT ACTIONS

Veneto
Apulia
Greece
Croatia
Albania

132 COMPANIES INVOLVED

39
30
23
20
20

4 LEVEL OF KNOWLEDGE TRANSFER

1. Dissemination
2. Awareness
3. Acquisition
4. Transformation

4 PROFESSIONAL PROFILES REVIEWED

- IT Manager
- R&D Manager
- Supply Manager
- HR Manager

FUTURE 4.0
Cooperation Network and Strategy

1. continue to promote and encourage the transfer of new knowledge in companies by universities and centers of excellence
2. strengthen the relational capital that has been developed during the whole life cycle of the project Future 4.0.

FUTURE 4.0 Cooperation Network

- Foster the application of FUTURE 4.0 **STRATEGY**
- Ensure sustainability of FUTURE 4.0 learning Platform, contents and community
- Extend the application of project methodology toward other I.4 technologies and level of knowledge transfer (Association and Application);
- Promote the Smart Learning Model and reinforce cooperation between the academia and industry
- Explore synergies with other innovation initiatives and EU Projects
- Expand the network, joining forces, building synergies

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ENTERPRISES ACTIVELY ENGAGED

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COOPERATION MOU

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POLICY RECCOMENDATION

1
TRANSNATIONAL NETWORK

1
FUTURE 4.0 STRATEGY

1
SCIENTIFIC FINAL PUBLICATION

Thank you for the attention!

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FUTURE 4.0 PROJECT

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