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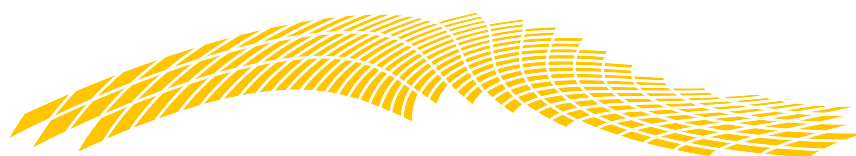EUROPEAN UNION
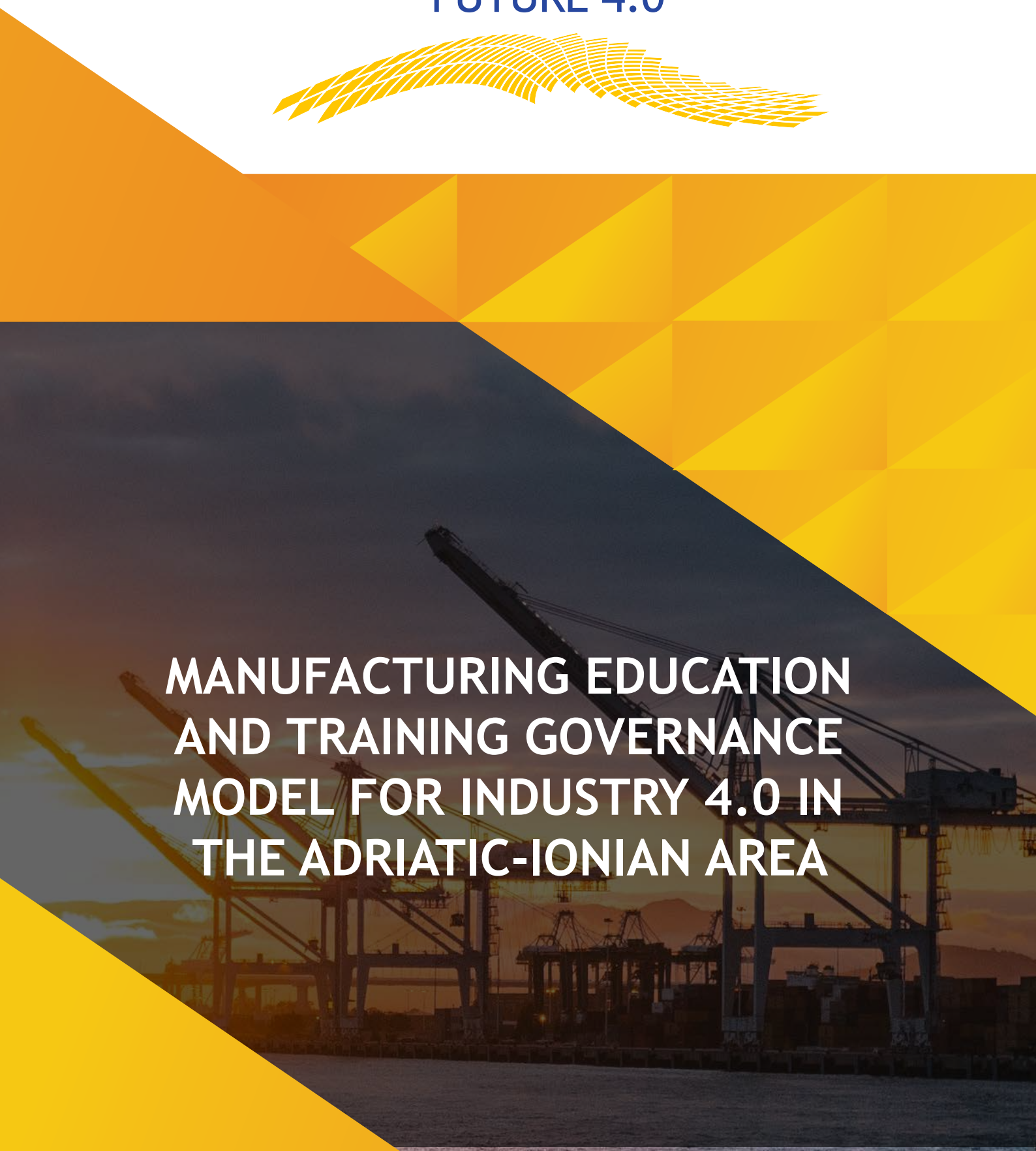
European Regional Development Fund - Instrument for Pre-Accession II Fund

FUTURE 4.0

MANUFACTURING EDUCATION AND TRAINING GOVERNANCE MODEL FOR INDUSTRY 4.0 IN THE ADRIATIC-IONIAN AREA

FUTURE 4.0 PROJECT

We are witnessing the new significant transformation of manufacturing industry, the fourth industrial revolution and new digital age called Industry 4.0.

The shipbuilding industry and its related supply chain in Adriatic-Ionian region (EUSAIR) is facing great challenges and changes, being undeveloped and left behind with the urgent need to new technology brush ups. Shipyards are affected by the transformation of the entire value chain process involved in manufacturing industry with the effects on production, intercompany relations and human capital development.

The solution is to implement new technologies brought by the Industry 4.0 (innovation, advanced technologies, computerization, robotics processes, automation, digitalization…) by encouraging sustainable and better management of our "blue "resources (Blue Economy).

The main objective of FUTURE 4.0 project is to design a shared strategy to innovate companies approach to training through a special designed education in today's digital age (Smart Learning Model).

The base for designing a suitable Industry 4.0 Smart Learning Model is using the known technique to help manage front part of innovation process (Technological Road-mapping) and using new strategic planning tools to help envision various futures and creating more vibrant organizations (Foresight tools) to be tested with Universities, companies, R&I actors and stakeholders in each territory applying Triple Helix Approach - the set of interactions between academia, industry and governments.

The results will be the foundation for designing of a knowledge, competence and skills training/learning hub - FUTURE 4.0 platform. The platform will be part of the above-mentioned Smart Learning Model and Strategy, implemented and validated through local pilot actions, encompasses effective industrial education and training for innovation, enhancing the University-Industry cooperation.

SPECIFIC OBJECTIVES

1 Developing a common innovative Technological Roadmap and Smart Learning Model under an Industrial Policy Perspective for the Shipbuilding Industry, its related supply chain and Logistics towards Industry 4.0

2 Increase the cooperation in Knowledge and Technology Transfer activity level amidst private sector and Knowledge/R&D providers within the RIS3 framework

3 Increase innovation and employability in the Shipbuilding Industry, its related supply chain and Logistics

CHALLENGE

Involved Adriatic-Ionian regions (AIR) share the same challenges, as they face the same transformations and their productive systems should be more integrated. That is why the project should be realized transnationally. The originality is in combination of model design, learning actions, local action plans and profiles up skilling, within a brand new topic - Industry 4.0.

Despite the differences, all AIR key-shipyard systems comply and anticipate with market requirements, demanding larger ships at lower construction costs, shorter delivery times and products based on high specialization, KET-based technologies (automation, IT & electric, robotic & mechatronic), greener standards & 4.0 advanced manufacturing across the whole supply chain.

The common challenge tackled by FUTURE 4.0 is to design an Industry 4.0 model to enhance shipyard, its whole supply chain and logistics competitiveness in AIR, improve KET-based innovation capabilities by industrial players and increase the cross-sectorial manufacturing by high-value services.

ACTIVITIES

A fostering the East-West Axis interregional joint collaboration and activities aiming at sharing and designing strategies, models and tools to facilitate a smart industrial shift towards Industry 4.0 and enhance innovation and employability within the shipbuilding industry and related service sectors as logistics at regional level;

B strengthening the RIS3 development in the 5 covered economic areas, leading to a mutual policy learning on industrial strategies and the possibilities offered by a blueprint process, especially for IPA PPs, tackling the weakness in industrial transformation governance and policy coord. at transnational level amidst countries with interrelated growth trajectories;

C designing and assessing an Innovative Education and Training Model (integrating 3 drivers of knowledge-based society-EC2010), a framework and operational strategy and diagnostic tools, replicable at EUSAIR level for the growth potential fields of the ADRION/EUSAIR Partner;

D implementing tailored actions within enterprises for developing competences/skills (upskilling and re-skilling of professional profiles), with KTT (Knowledge and Technology Transfer) methodologies for each region involved. Local Pilot Actions will foster the uptake and diffusion of green and smart innovation and circular knowledge management, at least in 105 enterprises.

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24

9 partners

2 associated partners (Italy)

4 countries

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Lead partner:

REGIONE DEL VENETO

Veneto Region (IT)

Project partners:

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Confindustria Veneto SIAV S.p.A. (IT)

POLITECNICO DI BARI

Polytechnic University of Bari (IT)

CHAMBER OF ACHAIA — Since 1836

Chamber of Achaia (GR)

LMS Laboratory for Manufacturing Systems & Automation

University of Patras (GR)

Primorje-Gorski Kotar County (HR)

UNIVERSITY OF RIJEKA **FACULTY OF ECONOMICS**

University of Rijeka Faculty of economics (HR)

C C I T

Chamber of Commerce and Industry, Tirana (AL)

UNIVERSITETI **MESDHETAR**

"Mesdheu" Center (AL)

Associated partners:

CONFINDUSTRIA Bari e Barletta-Andria-Trani

Confindustria Bari and Barletta-Andria-Trani

REGIONE PUGLIA

Apulia Region - Department of Economic Development, Education, Training and Employment

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