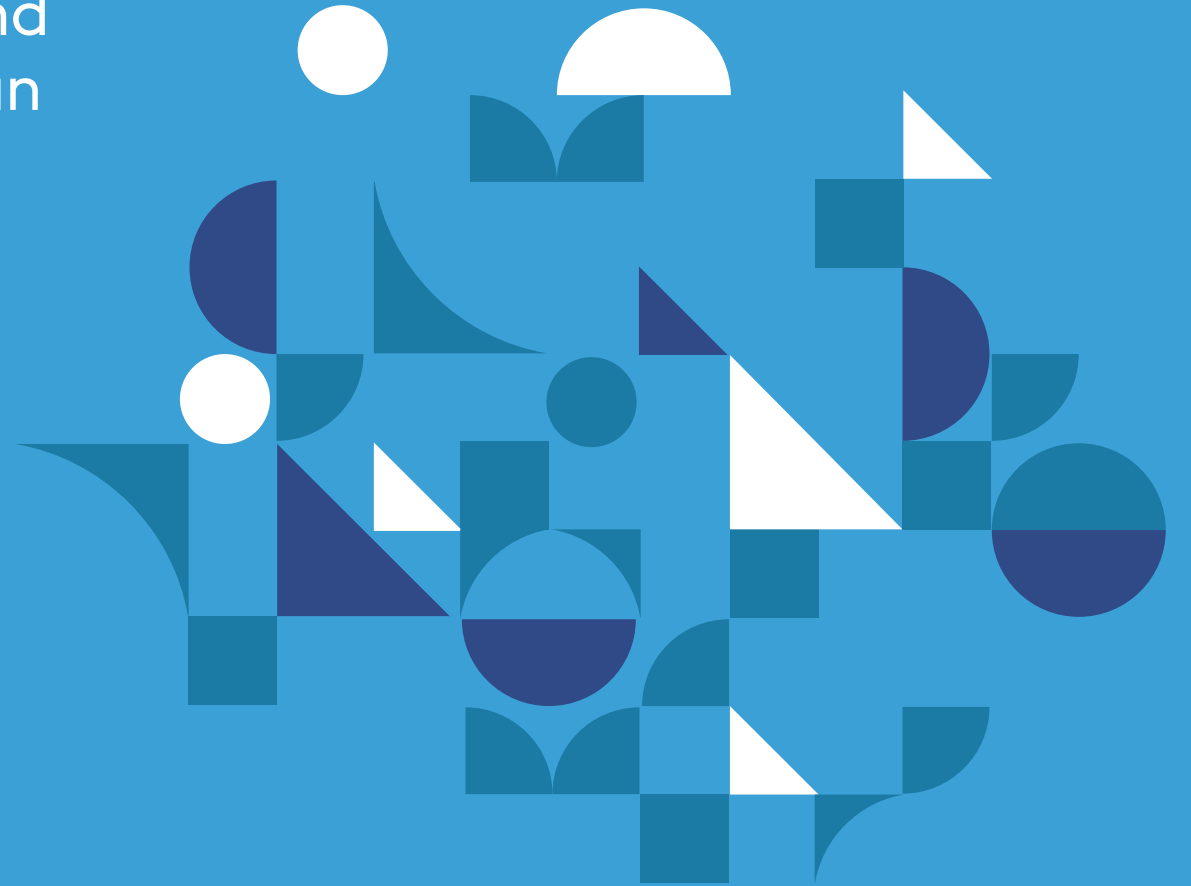




Industrial Engineering and
Management of European
Higher Education

**Erasmus+ Knowledge Alliances
2019 Projects Kick-off Meeting
Bruxelles 4 Feb 2020**

**Prof. Giovanni Mummolo
Polytechnic University of Bari - Italy**



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N. 2018-2279/001-001

IE3 Project: Goal and Problem Addressed

Goal: Design, Test, and Validate a New Model of Higher Education in IE&M to meet I4.0 needs: Guidelines for its Dissemination will be provided.

Problem Addressed: Renewal of 2nd level Programs in IE&M offered in Europe to meet I4.0 Knowledge Needs.



- Existing academic IE&M programs do not completely meet industry needs for the re-industrialization of Europe (I4.0).
- Public funding in Europe are mainly focused on Physical Assets almost neglecting Higher Education of Human Capital.
- European HEIs show inertia in updating business-driven Industrial Engineering & Mgmt programs.



IE3 Project: What is New !

The appearing of the I4.0 production paradigm was not followed by a University-Industry Higher Education model able to support the European **University / Industry** Systems in the renewal of Master Level **Academic / VET** Industrial Engineering programs.

The project will contribute to bridge the lack of Industrial Engineers in Europe.

A significant number of properly educated young or aged Industrial Engineers will support the re-industrialization of Europe.



We expect IE Project will be successful since:



- The project has been fully investigated since its design phase.
- Partners are really motivated and involved as they fully agree goals and project activities.
- The Partnership will benefit of complementary Theoretical and Experiential Knowledge of Universities and Companies as well as of Academic and Industry associations.



Consortium Members

Erasmus Plus IE3



Erasmus+

AGENZIA
NAZIONALE
INDIRE

Project number – 612402-EPP-1-2019-1-IT-EPPKA2-KA

► Academic Partners



Polytechnic
University
of Bari



Linköping
University



Universidad
Politécnica
de Madrid



Poznan
University of
Technology



► Company Partners



BOSCH

Tecnologie
Diesel spa



Implema



Arruti
Catenaria

ALCOMOT

Alco-Mot

► Technical Partners

ValueD

ValueDo srl

INFOTECH SRL

Infotech

► Associated Partners



AIM

ESTIEM

ESTIEM



Asociacion
Madrid Network



Item Oxygen srl

Short term Impacts (at Project end)

- Academic Partners of the Project Consortium will have:
 - Industry needs-compliant IE&M MS renewed / digitalized Courses;
 - Design of a new Master Program in IE&M.
- Industry Partners of the Project Consortium will benefit of Industrial Engineers educated according to their needs.
- Results of the projects will be effectively spread in the IE&M scientific community



Long Term Impacts (after Project end)

- The New Model and its Guidelines for Dissemination will support:
 - Partners and other European Universities to increase the quality of IE&M MS education offered as well as its reputation and attractiveness.
 - Partners and other European Companies to have a wider offer of knowledge workers educated according I4.0 needs and (aged) workforce well trained to perform innovative tasks.
 - The increasing of IE&M graduate employability in Europe.
 - A Contribute to the re-industrialisation and competitiveness of Europe.

Measuring Short term Impacts (at Project end)

- Number of IE&M MS Courses renewed and digitalized within programs offered by University Partners.
- Number of Students and Companies' staff enrolled in renewed courses offered by University Partners and attending the pilot e-learning modules developed.
- Number of (attendants to) dissemination conferences organized by Partners.
- Number of contributions on Project results presented at conferences/events of existing networks in IE&M field.
- Number of visits of the Project social media (facebook and linkedin).

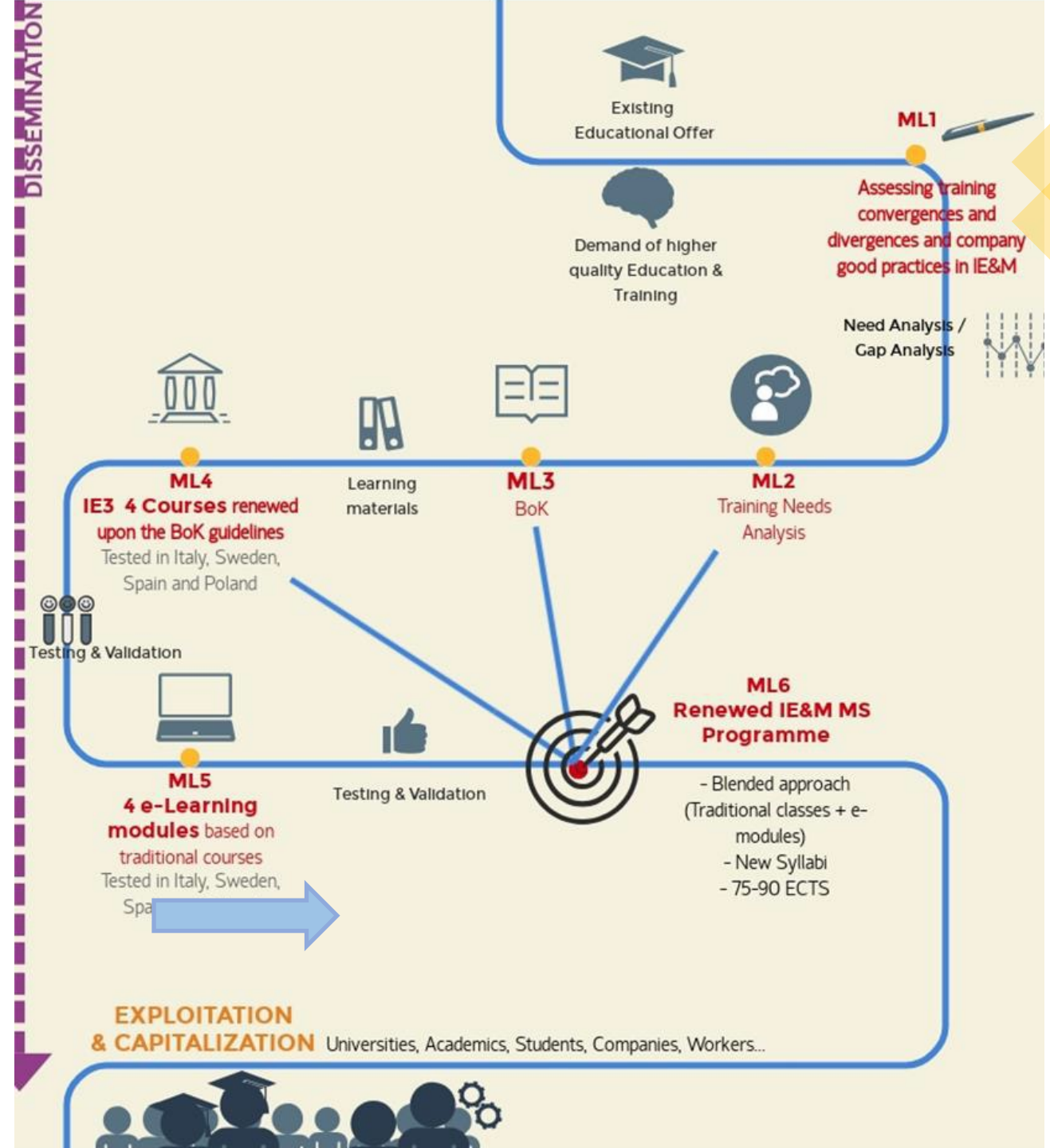


Measuring Long Term Impacts (after Project end)

- Number of European Universities adopting within 3 years the renewed courses in their Master Programs.
- Increase in the 3-years employability of IE&M Graduates of Universities adopting the project outcomes.
- Number of company projects where the innovative HE methods developed in the project are applied within 3 years.

Project Organization

- The project is organized by WPs.
- Each WP is led by an Academic Partner which coordinates the activities of all Partners.
- Quality management procedures guarantees a full control of timing and quality of achievements and milestones to be reached.



The first kick-off meeting was held on 21-22 November 2019 at the Polytechnic University of Bari (Italy)

- The meeting allowed a friendly mutual knowledge of partners, all of them being represented. The overall as well as specific goals of the Project were clarified.
- Discussion allowed a deep understanding on WP1 (survey on HE offer), WP2 (survey on HE demand).
- First dissemination activities presented: The project Logo, web-site structure, letterhead, B-Card.
- Administrative and financial rules, as well as project management and quality assurance issues introduced.



- The partners will disseminate and exploit results of the project by **non-media AND media communication**.

Non-media communication

- Conferences, Meetings, Workshops, Summer Schools, Round tables, Seminars. *Two Papers will be presented at INTED2020, Valencia, 2-3 March 2020.*

media communication

- Website, Newspaper and magazines, Press releases, Blogs, Social media
- **e-learning courses** will be freely accessible at the IE3 Project's website
- **Seminar on IE3 Project** at the New Jersey Institute of Technology has been held by Giovanni Mummolo (22/01/2020)



<https://www.ie3.eu>



<https://www.facebook.com/IE3officialpage>



<https://www.linkedin.com/in/ie3-knowledge-alliance-5b3398198/>





SUCCESS STORIES

Spreading the **new IE&M HE model** in order to ensure the **replicability of the IE3 experience** outside of the project knowledge field at both European and National level.



BODY OF
KNOWLEDGE



IE3 COURSES
DEVELOPED



E-LEARNING
MODULES



IE3 MASTER'S
PROGRAM



IE3
HANDBOOK



Thank you!