



## CESOL Final Conference

Project title: **C**reating know**L**edge and skill**L**s in **A**dditive **M**anufacturing

Reference number: 2017-3309/591838-EPP-1-2017-1-ES-EPPKA2-SSA



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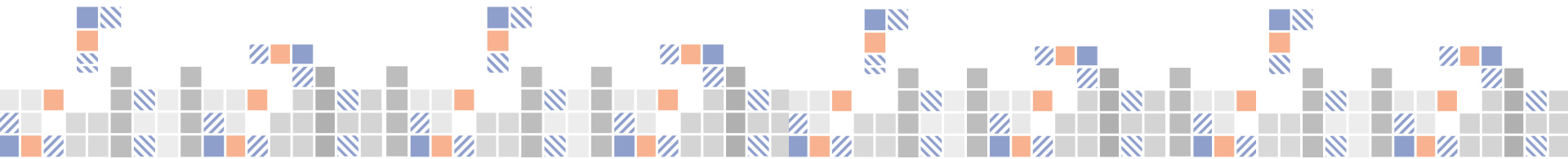
# CLLAIM Project

## Creating know**L**edge and skill**L**s in **A**dditive **M**anufacturing

- ✓ International AM qualification body
- ✓ International harmonized Qualification System
- ✓ Qualifications by profiles (Designer, Operator, Supervisor and Inspector)

This will require:

- New Training Curricula
- New Assessment Tools
- Innovative Training Approaches





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CLLAIM

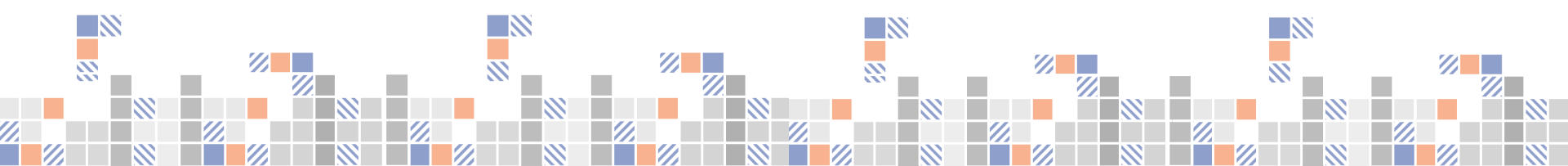
# CLLAIM Project

8 Partners → 4 Countries → 1 EC Project Officer



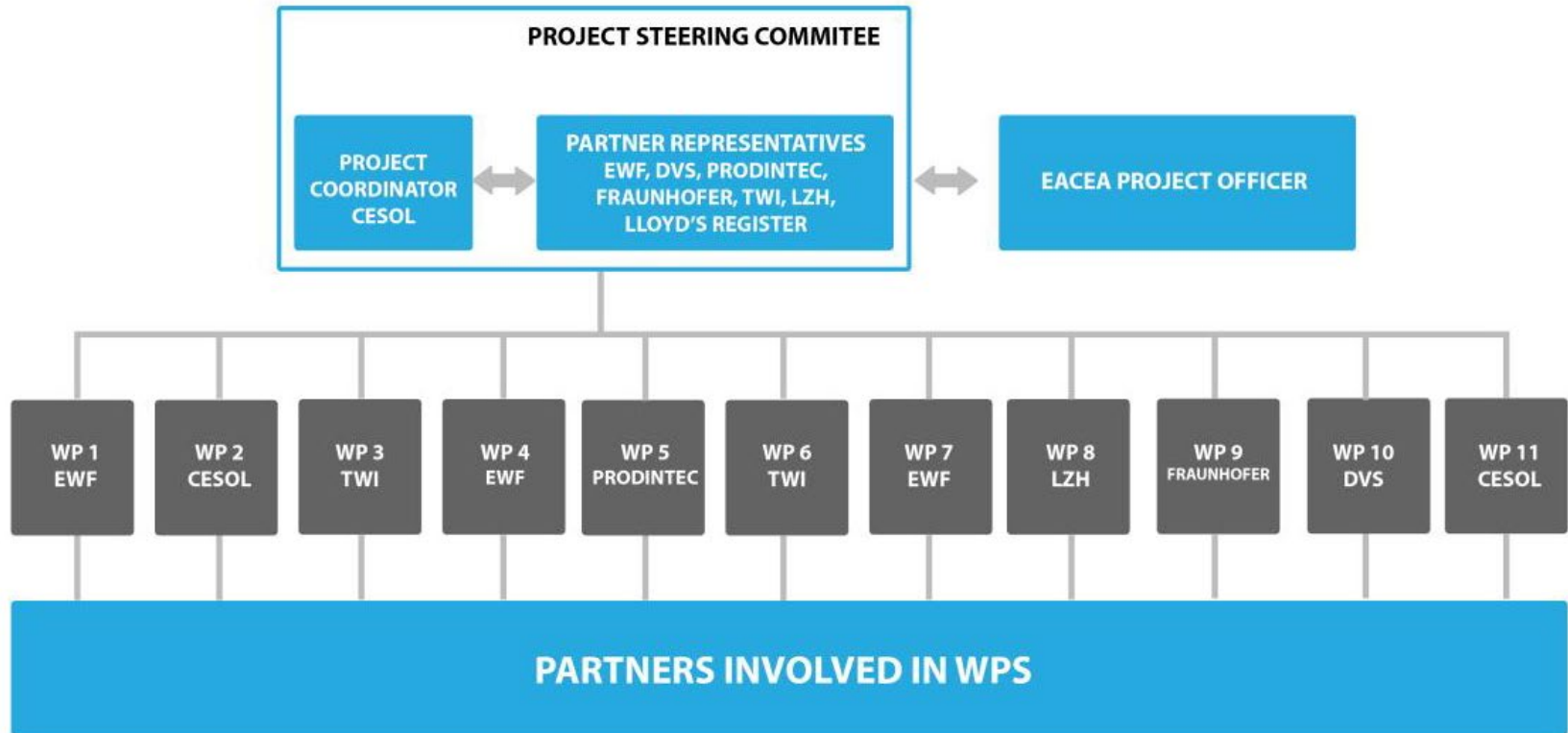
Assessing, targeting industrial skills  
needs and creating the necessary  
Qualifications Profiles

Industrial Processes and  
AM product's certification





# CLLAIM Project





# CLLAIM Objectives

❖ International AM qualification body and Harmonized Qualification System



Designer, Operator, Supervisor and Inspector



Guidelines per profile



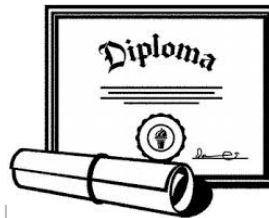
64 Competence Units

✓ EQF and ECVET methodologies



- Innovative training qualification.
- Recognition of Prior Learning.
- Successful pedagogical methods and practices.
- European Network to stimulate future cooperation and mobility.

✓ Record of Achievement

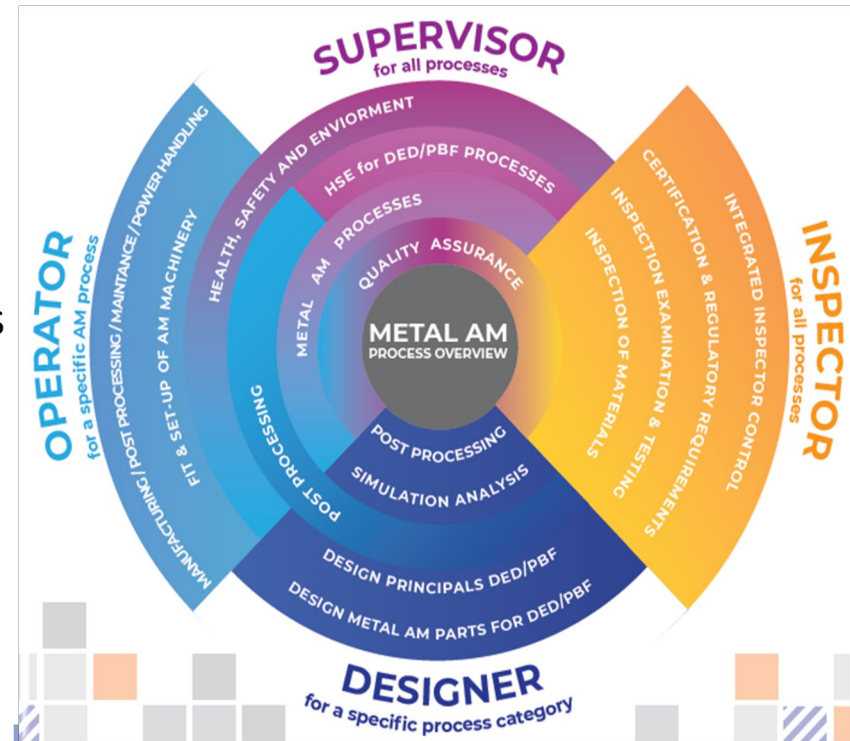




# CLLAIM Objectives

Creation of:

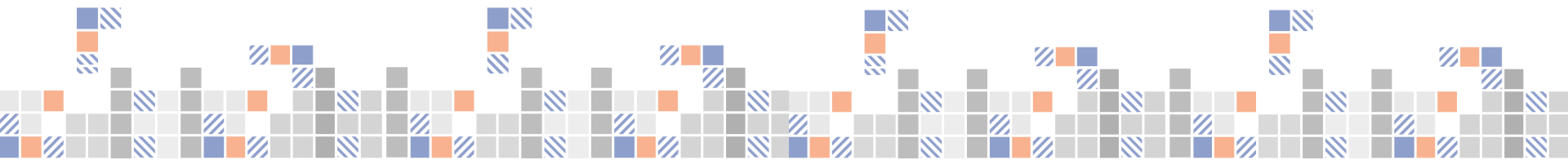
- ❖ AM Profiles through industrial surveys and industry experts
- ❖ CUs required per profile
- ❖ Cross cutting knowledge and skills requirements in AM
- ❖ Pedagogical kit (to aid good teaching practices)
- ❖ RPL toolkit (Recognition of Prior Learning assessments)
- ❖ Piloting of CUs and RPL Toolkit
- ❖ Examination materials





# CLLAIM Objectives

| Partner    | CU Pilots / Profile  |
|------------|--|
| FRAUNHOFER | <ul style="list-style-type: none"> <li>• CU00, CU15, CU 17 / Operator (<b>10 participants</b>)</li> <li>• CU47, CU48 / Supervisor (<b>5 participants</b>)</li> </ul> |
| DVS        | <ul style="list-style-type: none"> <li>• CUs 00, 15, 16, 17, 18, 19, 20, 21, 48, 49 / Operator (<b>6 participants</b>)</li> </ul>                                    |
| LZH        | <ul style="list-style-type: none"> <li>• CU00 (<b>14 participants</b>) &amp; CU08 (<b>25 participants</b>), CU47 (<b>8 participants</b>) / Supervisor</li> </ul>     |
| IDONIAL    | <ul style="list-style-type: none"> <li>• CU00, CU15, CU59 / Designer (<b>10 participants</b> in total per CU)</li> </ul>   |
| CESOL      | <ul style="list-style-type: none"> <li>• CU00 (<b>15 participants</b>), CU60 (<b>7 participants</b>) , CU61 (<b>7 participants</b>) / Designer</li> </ul>            |
| TWI/LR     | <ul style="list-style-type: none"> <li>• CU00, CU01, CU08, CU15, CU22, CU63, CU64 / Inspector (<b>43 Participants</b> in total)</li> </ul>                           |





# CLLAIM Objectives

| Partner    | RPL Pilots / Profile   |
|------------|--|
| FRAUNHOFER | <ul style="list-style-type: none"><li>• CUs: 00, 01, 08, 15, 22, 46, 47, 48 / Supervisor</li><li>• <b>5 Participants</b></li></ul>           |
| LZH        | <ul style="list-style-type: none"><li>• CUs: 00, 08, 10, 11, 14, 15, 17, 18, 20, 48, 49 / Operator</li><li>• <b>6 Participants</b></li></ul> |
| IDONIAL    | <ul style="list-style-type: none"><li>• CU's – Full profile / Designer</li><li>• <b>5 Participants</b></li></ul>                             |
| LR/TWI     | <ul style="list-style-type: none"><li>• CU00, CU01, CU08, CU15, CU22, CU63, CU64 / Inspector</li><li>• <b>4 Participants</b></li></ul>       |



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# Thank you for your attention

Héctor Carballo Joglar  
CESOL



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