

FIRST ANNUAL REPORT - May 2025 - Summary

SKILLS INTELLIGENCE MONITORING SYSTEM (SIMS)



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Introduction to the Monitoring System



SIMS

First Annual Report & Summary



The **First Annual Report**, delivered in May 2025, presents a structured overview of identified **Training Needs** and existing **Training Offers**, giving an evidence-based snapshot of current skill demands and gaps across the thematic areas within the Habitat sectors.

This **summary** highlights the **most relevant findings from the project's initial assessment**, based on data collected from all participating countries (Austria, Greece, Georgia, Moldova, Portugal and Spain). Although the information was analysed both jointly and separately by country, for this version, only the **consolidated, consortium-level results** were considered.

SIMS

Objective

The Skills Intelligence Monitoring System (SIMS) **seeks to provide up-to-date intelligence on the skills ecosystem, aligning VET offering with labour market needs**, enabling new learning pathways, and supporting career guidance and workforce mobility.

In order to provide standardised information at the European level, a correlation has been established with the skills and occupations in the **European Skills, Competences, Qualifications and Occupations ([ESCO](#)) classification**.

SIMS

Main areas

The monitoring system was co-designed by the partnership, using an agile methodology to **anticipate skills gaps between education/training supply and the needs of the labour market.**

The system provides insights into recent and anticipated trends related to jobs and skills within the Habitat sectors by collecting data in two **main areas**:

- **Training needs and strategic competences required by the sector,** including technical, soft, digital and green skills.
- **Existing IVET* and CVET** training offers,** including for reskilling and upskilling, relevant to occupations and skills related to the Habitat sectors.

*IVET - Initial Vocational Education and Training. **CVET - Continuing Vocational Education and Training.

SIMS

Methodology

In the process of developing the methodology for the Skills Intelligence Monitoring System, four steps were identified as crucial:

- **Step 1 | Identification of training needs**
- **Step 2 | Identification of training offers**
- **Step 3 | Data analysis and validation** (by the HABITABLE Steering Committee)
- **Step 4 | Results visibility**

ESCO classification was used to enable the identification of a range of occupations related to the skills and competences listed for each area.

The information gathered in step 1 & 2 was performed by the HABITABLE partners, the National Expert Groups (NEG) of the project and other agents related to the Habitat sectors. To test the system, two pilot thematic areas were chosen.



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Skills Intelligence Monitoring System

SIMS

Thematic
areas to test
the system

- ✓ **Lightweight and Wood Construction:** This area focuses on innovative construction methods emphasizing energy efficiency and sustainability. Key aspects include the use of lightweight materials and wood, integration of digital tools such as Building Information Modelling (BIM) and 3D interpretations, as well as modular and off-site construction techniques.
- ✓ **Green Transition in the Manufacturing Industry:** This area addresses the shift towards more sustainable manufacturing practices within the Habitat sectors. It highlights resource efficiency, the decarbonisation of production processes, and the implementation of Life Cycle Assessment (LCA) to evaluate environmental impacts.

In the near future, **new thematic areas will be integrated into the system**, corresponding to other key challenges facing the Habitat sectors.

STEP 1
Identification of
Training Needs



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Data overview

SKILLS

A total of **216 skills and competences** were identified as necessary:

- **Lightweight and Wood Construction: 208 skills and competences.**
- **Green Transition in the Manufacturing Industry: 184 skills and competences.**

OCCUPATIONS

A total of **40 occupations** related to those skills were identified:

- **Lightweight and Wood Construction: 33 occupations.**
- **Green Transition in the Manufacturing Industry: 33 occupations.**

Some skills and occupations overlap in both areas, but each was counted only once in the total.

STEP 2
Identification of
Training Offers



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Data overview SKILLS

From **195 training offers** identified in this process, **433 skills and competencies** were identified:

- **Lightweight and Wood Construction: 312 skills and competences.**
- **Green Transition in the Manufacturing Industry: 204 skills and competences.**

OCCUPATIONS

A total of **107 occupations** were identified together with the training offers:

- **Lightweight and Wood Construction: 74 occupations.**
- **Green Transition in the Manufacturing Industry: 69 occupations.**

A training offer can cover more than one skill or competence.

Some skills and occupations overlap in both areas, but each was counted only once in the total.

STEP 3
**Data analysis and
validation**



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TRAINING NEEDS



TRAINING NEEDS
TOP SKILLS

LIGHTWEIGHT AND WOOD CONSTRUCTION

Integrate building requirements in the architectural design

Create solutions to problems

Develop architectural plans

Install construction profiles

Check compatibility of materials

Work in a construction team

Draw blueprints

Adjust engineering designs

Use CAD software



**TRAINING NEEDS
OCCUPATIONS**

**LIGHTWEIGHT AND
WOOD CONSTRUCTION**

1213.8	Sustainability Manager
2142.1	Civil Engineer
2142.1.2	Construction Engineer
2143.1	Environmental Engineer
2143.1.3	Recycling Specialist
2149.10.1	Fire Prevention and Protection Engineer
2149.9.2	Energy Systems Engineer
2149.9.7	Renewable Energy Engineer
2151.1	Electrical Engineer

**ESCO
code**

2161.1	Architect
2166.1	3D Modeller
3112.1.5	Energy Assessor
3112.6	Energy Conservation Officer
3116.1.4	Hazardous Waste Technician
3123.1	Construction General Supervisor
3257.4.2	Hazardous Waste Inspector
3432.1	Interior Designer
9313.1	Building Construction Worker



TRAINING NEEDS
TOP SKILLS

GREEN TRANSITION IN THE MANUFACTURING INDUSTRY

Assess environmental impact

Assess the life cycle of resources

Ensure compliance with
environmental legislation

Promote environmental
awareness

Use sustainable materials and
components

Advise on carbon
emissions reduction

Advise on sustainability
solutions

Mitigate waste of
resources

Manage environmental management system

Measure company's sustainability performance



**TRAINING NEEDS
OCCUPATIONS**

**GREEN TRANSITION IN THE
MANUFACTURING INDUSTRY**

1213.8	Sustainability Manager	2149.9.7	Renewable Energy Engineer
1321.2.5	Waste Management Officer	2151.1	Electrical Engineer
1349.12	Energy Manager	2161.1	Architect
2133.4	Countryside Officer	3112.6	Energy Conservation Officer
2142.1	Civil Engineer	3116.1.4	Hazardous Waste Technician
2142.1.2	Construction Engineer	3123.1	Construction General Supervisor
2143.1	Environmental Engineer	3257.4.2	Hazardous Waste Inspector
2143.1.3	Recycling Specialist	9313.1	Building Construction Worker
2149.9.2	Energy Systems Engineer	2151.1	Electrical Engineer

ESCO
code



TRAINING OFFERS



195 Training Offers

COUNTRY	LANGUAGE	TYPE OF TRAINING	LEVEL	ACCREDITATION
Austria [24]	German [24]	IVET [85] CVET [96] Not specified [14]	Beginner [45]	Accredited [155]
Greece [10]	Greek [10]		Intermediate [95]	Not Accredited [38]
Moldova [7]	English [12]		Advanced [55]	Not specified [2]
Portugal [64]	Portuguese [62]			
Spain [90]	Romanian [7]			
	Spanish [80]			

The number of trainings is displayed in brackets.

LIGHTWEIGHT AND WOOD CONSTRUCTION

TRAINING OFFERS
TOP SKILLS

Use technical drawing software

Adjust engineering designs

Operate 3D computer graphics software

Apply 3D imaging techniques

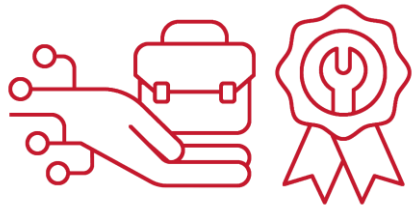
Manage project information

Manage project metrics

Consider building constraints in
architectural designs

Integrate engineering principles in
architectural design

Perform project management





LIGHTWEIGHT AND WOOD CONSTRUCTION

**TRAINING OFFERS
OCCUPATIONS**

1213.8	Sustainability Manager	2149.9.2	Energy Systems Engineer
1323.1	Construction Manager	2149.9.7	Renewable Energy Engineer
1349.12	Energy Manager	2149.9.9	Thermal Engineer
2142.1	Civil Engineer	2151.1	Electrical Engineer
2142.1.2	Construction Engineer	2161.1	Architect
2143.1	Environmental Engineer	2163.1.4	Furniture Designer
2149.10.1	Fire Prevention And Protection Engineer	2163.1.6	Model Maker
2149.11	Materials Engineer	2166.1	3D Modeller
2149.9	Energy Engineer	3112.1	Civil Engineering Technician



LIGHTWEIGHT AND WOOD CONSTRUCTION

TRAINING OFFERS
OCCUPATIONS

3112.1.5 Energy Assessor

3112.5 Energy Analyst

3112.7 Energy Consultant

3113.1 Electrical Engineering Technician

3115.1.17 Refrigeration Air Condition and Heat
Pump Technician

3115.1.5 Heating, Ventilation, Air Conditioning,
and Refrigeration Engineer

3118.1 3D Printing Technician

3118.3.2 Architectural Drafter

3118.3.9 Heating, Ventilation, Air Conditioning
(and Refrigeration) Drafter

3119.19 Utilities Inspector

3119.7.1 Energy Systems Technician

3123.1 Construction General Supervisor

3123.1.1 Bricklaying Supervisor

3123.1.3 Carpenter Supervisor

3432.1 Interior Designer

7111.1 House Builder



LIGHTWEIGHT AND WOOD CONSTRUCTION

TRAINING OFFERS
OCCUPATIONS

7112.1	Bricklayer	7521.1	Wood Drying Kiln Operator
7115.1	Carpenter	7521.2	Wood Treater
7119.1	Construction Scaffolder	7522	Cabinet-Makers and Related Workers
7119.3	Manufactured Wooden Building Assembler	7523.2	Wood Boring Machine Operator
7124.1	Insulation Worker	7523.3	Wooden Furniture Machine Operator
7126.1	Bathroom Fitter	8219.11	Wood Products Assembler
7411.1	Electrician	9112.3	Furniture Cleaner
7421.7	Smart Home Installer	9313.1	Building Construction Worker

TRAINING OFFERS
TOP SKILLS

GREEN TRANSITION IN THE MANUFACTURING INDUSTRY

Advise on sustainability solutions

Adjust engineering designs

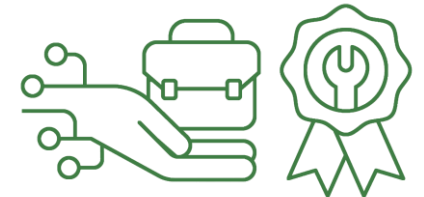
**Use sustainable materials
and components**

Advise on sustainable management policies

Assess environmental impact

Use technical drawing software

Assess the life cycle of resources





GREEN TRANSITION IN THE MANUFACTURING INDUSTRY

TRAINING OFFERS
OCCUPATIONS

1213.7	Health Safety and Environmental Manager	2142.1.2	Construction Engineer
1213.8	Sustainability Manager	2143.1	Environmental Engineer
1321.2.5	Waste Management Office	2143.1.3	Recycling Specialist
1323.1	Construction Manager	2143.1.4	Waste Treatment Engineer
1330.1	ICT Environmental Manager	2143.2	Environmental Expert
1349.12	Energy Manager	2149.2.5	Sustainability Consultant
2133.15	Environmental Technician	2149.9	Energy Engineer
2133.4	Countryside Officer	2149.9.2	Energy Systems Engineer
2142.1	Civil Engineer	2149.9.3	Geothermal Engineer



GREEN TRANSITION IN THE MANUFACTURING INDUSTRY

TRAINING OFFERS
OCCUPATIONS

2149.9.7 Renewable Energy Engineer
2151.1 Electrical Engineer
2161.1 Architect
2166.1 3D Modeller
2421.1.1 Manufacturing Cost Estimator
2433.3 Renewable Energy Consultant
2511.7 Green ICT Consultant
3112.1.3 Construction Quality Inspector

3112.1.4 Construction Quality Manager
3112.1.5 Energy Assessor
3112.1.5.1 Domestic Energy Assessor
3112.5 Energy Analyst
3112.6 Energy Conservation Officer
3113.1 Electrical Engineering Technician
3115.1.17 Refrigeration Air Condition and Heat Pump Technician
3115.1.5 Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technician



GREEN TRANSITION IN THE MANUFACTURING INDUSTRY

TRAINING OFFERS
OCCUPATIONS

3115.1.6	Industrial Maintenance Supervisor	7121.1	Roofer
3116.1.4	Hazardous Waste Technician	7122.3	Resilient Floor Layer
3118.3.9	Heating, Ventilation, Air Conditioning (and Refrigeration) Drafter	7411.1	Electrician
3123.1	Construction General Supervisor	7411.1.4	Solar Energy Technician
3131.2	Onshore Wind Farm Technician	7412.4	Geothermal Technician
3257.4.2	Hazardous Waste Inspecto	9313.1	Building Construction Worker
7112.1	Bricklayer		



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STEP 3

Data analysis and validation

SKILLS ADDRESSED VS SKILLS GAPS



Necessary SKILLS covered by training offers

The **195 training offers** covered a total of **213 necessary skills and competencies**.

- The **96 training offers** related to **Lightweight and Wood Construction** covered a total of **139 necessary skills and competences**.
- The **99 training offers** related to **Green Transition in the Manufacturing Industry** covered a total of **184 necessary skills and competences**.

Some skills overlap in both areas, but each was counted only once in the total.

SKILLS gaps

The information gathered allows the partnership to have a **better understanding of the labour market needs and the VET offering**, as well as to **identify the skills or competences that are not currently covered by the training offers** (gaps).

Across the entire dataset, only 3 of the 216 skills identified in the training needs section (STEP 1) remain uncovered. However, it is important to examine the details for each specific area, as the same skill may require different specifications depending on the field.

- In **Lightweight and Wood Construction**, 69 skills out of 208 remain uncovered.
- For the **Green Transition in the Manufacturing Industry** area, the training offers identified provide full coverage of all the skills deemed necessary in the initial assessment (184).

STEP 4
Results visibility



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Integration into SMART SIP

This dissemination represents the final step outlined in the SIMS methodology and is focused on **ensuring the visibility of the outcomes within the skills ecosystem** in the countries involved in the project.

The insights derived from the SIMS will feed two key digital tools being developed within the project. Both of them will be available in the coming years on the [SMART SIP Platform](#):

- TOP HABITAT - Training Offer Panel: An online tool designed to provide up-to-date information on the existing training offers across the Habitat skills ecosystems participating in the project.
- Sector Map of Jobs and Skills: A digital tool intended to contextualise occupations and associated skills within the sector, supporting the connexion between VET programmes and job profiles.



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Final remarks





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Final remarks

SIMS

- The **Skills Intelligence Monitoring System (SIMS) for the Habitat sectors skills ecosystem is fully developed**, reaching key milestones in its mission to provide relevant and up-to-date information.
- The results from this exercise will be integrated by the end of the project in the HABITABLE tools: “**TOP Habitat**” and “**Sector Map of Jobs and skills**”.
- The data highlights the wide range of skills and occupations addressed, particularly in support of the **Green and Digital Transition of the Habitat value chain**.
- Identified **training gaps** can be addressed through current or future training courses.
- The system will be **updated annually**, ensuring its continued relevance and impact. This initiative marks a significant step in **building a more responsive, resilient, and future-ready workforce in the Habitat sectors**.



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