

SECOND ANNUAL REPORT - May 2026 - Summary

SKILLS INTELLIGENCE MONITORING SYSTEM (SIMS)



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Vocational Training for Sustainable Habitat



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Introduction to the Monitoring System



SIMS

First Annual
Report &
Summary



The **Second Annual Report**, delivered in May 2026, 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. Two thematic areas were chosen in addition to the ones reported in the First Report.

SIMS

Thematic
areas to test
the system

- ✓ **Circular Solutions for Sustainable Buildings, Cities and Territories:** This area promotes the transition from linear to circular models within the built environment. It focuses on strategies for waste reduction, the reuse and repurposing of construction components, and the development of regenerative urban systems.
- ✓ **Digital Transformation in the Habitat Sectors:** This area explores the integration of advanced technologies to enhance productivity, precision, and collaboration across the value chain. It encompasses the adoption of Industry 4.0 principles, including the use of Internet of Things (IoT) for smart building management, Artificial Intelligence (AI) for predictive maintenance, and Virtual/Augmented Reality (VR/AR) for design visualization. In the near future, an update of these two areas and the two previous ones will be established by the project partners.

STEP 1
Identification of
Training Needs



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Data overview

SKILLS

A total of **509 skills and competences** were identified as necessary:

- **Circular Solutions for Sustainable Buildings, Cities and Territories: 284 skills and competences.**
- **Digital Transformation in the Habitat Sectors: 349 skills and competences.**

OCCUPATIONS

A total of **87 occupations** related to those skills were identified:

- **Circular Solutions for Sustainable Buildings, Cities and Territories: 57 occupations.**
- **Digital Transformation in the Habitat Sectors: 64 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 **171 training offers** identified in this process, **337 skills and competencies** were identified:

- **Circular Solutions for Sustainable Buildings, Cities and Territories: 201 skills and competences.**
- **Digital Transformation in the Habitat Sectors: 198 skills and competences.**

OCCUPATIONS

A total of **57 occupations** were identified together with the training offers:

- **Circular Solutions for Sustainable Buildings, Cities and Territories: 32 occupations.**
- **Digital Transformation in the Habitat Sectors: 41 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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STEP 3

Data analysis and validation

TRAINING NEEDS



TRAINING NEEDS
TOP SKILLS

CIRCULAR SOLUTIONS FOR SUSTAINABLE BUILDINGS, CITIES AND TERRITORIES

Assess environmental impact

Assess the life cycle of resources

Ensure compliance with environmental legislation

Promote environmental awareness

Advise on sustainability solutions

Use technical drawing software

Advise on sustainable management policies



TRAINING NEEDS
OCCUPATIONS

**CIRCULAR SOLUTIONS FOR SUSTAINABLE BUILDINGS,
CITIES AND TERRITORIES**

1213.8	Sustainability Manager	2161.1	Architect
1321.2.5	Waste Management Officer	2149.9.7	Renewable Energy Engineer
1323.1	Construction Manager	2161.1	Architect
2133.9	Nature Conservation Technician	2161.1.1	Interior Architect
2133.9.1	Nature Conservation Officer	2164.1	Land Planner
2142.1	Civil Engineer	2164.4	Urban Planner
2142.1.2	Construction Engineer	3121.1.26	Water Conservation Technician
2143.1	Environmental Engineer	7119.2	Demolition worker
2143.1.3	Recycling Specialist	9313.1	Construction Worker

ESCO
code



TRAINING NEEDS
TOP SKILLS

DIGITAL TRANSFORMATION IN THE HABITAT SECTORS

Liaise with engineers

Track key performance indicators

Use technical drawing software

Define technical requirements

Ensure compliance with environmental legislation

Provide ICT consulting advice

Analyse environmental data

Create project specifications

Ensure compliance with company regulations



**TRAINING NEEDS
OCCUPATIONS**

DIGITAL TRANSFORMATION IN THE HABITAT SECTORS

1213.8	Sustainability Manager	2166.1	3D Modeller
1321.2.3	Operations Manager	2511.3	Data analyst
1323.1	Construction Manager	2529.8	Cybersecurity Risk Manager
1330.1.1.1	Digital Transformation Manager	3118.1	3D Printing Technician
2141.4.2.1	Automation Engineer	3121.1.26	Water Conservation Technician
2142.1	Civil Engineer	3122.4.8	Machine Operator Supervisor
2143.1	Environmental Engineer	3123.1.11	Electrical Supervisor
2149.9.2	Energy Systems Engineer	7422.6	Telecommunications Equipment Maintainer
2149.9.7	Renewable Energy Engineer	9313.1	Building construction worker

ESCO
code



TRAINING OFFERS



171 Training Offers

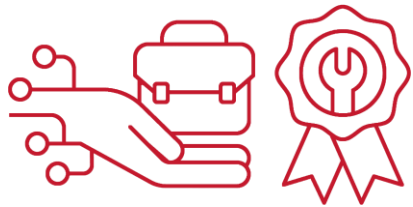
COUNTRY	LANGUAGE	TYPE OF TRAINING	LEVEL	ACCREDITATION
Austria [36] Portugal [25] Spain [110]	German [36] English [2] Portuguese [25] Spanish [108]	IVET [114] CVET [57]	Beginner [65] Intermediate [80] Advanced [26]	Accredited [169] Not Accredited [2]

The number of trainings is displayed in brackets.

CIRCULAR SOLUTIONS FOR SUSTAINABLE BUILDINGS, CITIES AND TERRITORIES

TRAINING OFFERS
TOP SKILLS

Ensure compliance with environmental legislation



Analyse energy consumption

Communicate with construction crews

Assess environmental impact

Ensure compliance with construction project deadlines

Ensure compliance with legal
requirements

Promote environmental awareness

Promote sustainability

Promote sustainable
energy



CIRCULAR SOLUTIONS FOR SUSTAINABLE BUILDINGS, CITIES AND TERRITORIES

**TRAINING OFFERS
OCCUPATIONS**

1213.7	Health, Safety & Environmental Manager	2133.15	Environmental Technician
1213.8	Sustainability Manager	2142.1	Civil Engineer
1219.1	Business Services Manager	2142.1.2	Construction Engineer
1219.6	Project Manager	2143.1	Environmental Engineer
1321.2.5	Waste management officer	2149.9	Energy Engineer
1323.1	Construction Manager	2149.9.2	Energy Systems Engineer
1323.1.1	Construction General Contractor	2149.9.7	Renewable Energy Engineer
1349.12	Energy Manager	2161.1	Architect
2133.9	Nature Conservation Technician	2161.1.1	Interior Architect



CIRCULAR SOLUTIONS FOR SUSTAINABLE BUILDINGS, CITIES AND TERRITORIES

**TRAINING OFFERS
OCCUPATIONS**

2164.4	Urban planner
2263.3	Health and Safety Officer
3112.1	Civil Engineering Technician
3112.1.2	Building Inspector
3112.5	Energy Analyst
3121.1.26	Water Conservation Technician Supervisor
1323.1	Construction General Supervisor
7119.1	Scaffolder in the construction industry
7119.2	Demolition worker
7411.1.1	Building Electrician

7411.1.1.2	Industrial Electrician
9313.1	Construction worker

DIGITAL TRANSFORMATION IN THE HABITAT SECTORS

TRAINING OFFERS
TOP SKILLS

Liaise with engineers

Use technical drawing software

Interpret 2D plans

Interpret 3D plans

Use CAD software

Adjust engineering designs

Analyse test data

Prepare construction documents

Use CADD software

Use CADD software





DIGITAL TRANSFORMATION IN THE HABITAT SECTORS

TRAINING OFFERS
OCCUPATIONS

1219.6	Project Manager	2141.4.2.1	Automation Engineer
1213.7	Health, Safety & Environmental Manager	2142.1	Civil Engineer
1213.8	Sustainability Manager	2142.1.2	Construction Engineer
1219.1	Business Services Manager	2143.1	Environmental Engineer
1321.2.3	Operations Manager	2149.9.2	Energy Systems Engineer
1323.1	Construction Manager	2149.9.7	Renewable Energy Engineer
1323.1	Site Manager	2152.1	Electronics Engineer
1330.1.1.1	Digital Transformation Manager	2153.1	Telecommunications Engineer
1330.10	ICT Environmental Manager	2161.1	Architect



DIGITAL TRANSFORMATION IN THE HABITAT SECTORS

TRAINING OFFERS
OCCUPATIONS

2165.3	GIS Specialist	3118.3.9	Heating; Ventilation; Air conditioning (and refrigeration) Drafter
2166.1	3D Modeller	3121.1.26	Water Conservation technician supervisor
2263.3	Health and Safety Officer	3122.4.8	Machine Operator Supervisor
2511.3	Data analyst	3123.1.11	Electrical Supervisor
2529.8	Cybersecurity risk manager	3123.1.17	Plumbing Supervisor
3111.7	Material Testing Technician	3123.1.21	Roofing Supervisor
3112.1	Civil Engineering Technician	3123.1.25	Tiling Supervisor
3118.1	3D Printing Technician	3123.4	Concrete finisher supervisor



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STEP 3

Data analysis and validation

SKILLS ADDRESSED VS SKILLS GAPS



Necessary SKILLS covered by training offers

The **171 training offers** covered a total of **337 necessary skills and competencies**.

- The **93 training offers** related to **Circular Solutions for Sustainable Buildings, Cities and Territories** covered a total of **111 necessary skills and competences**.
- The **78 training offers** related to **Digital Transformation in the Habitat Sectors** covered a total of **162 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, 225 of the 509 skills identified in the training needs section (STEP 1) remain uncovered. This shows a need in training offers that address the necessary skills identified in both areas:

- In **Circular Solutions for Sustainable Buildings, Cities and Territories**, 163 remain uncovered.
- For the **Digital Transformation in the Habitat Sectors** area, 183 remain uncovered.

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



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 need to address skills to support Circular Solutions for Sustainable Buildings, Cities and Regions, as well as Digital Transformation in the Habitat sector.
- 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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*For access to the full report, please
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