

What are Green Skills and Green Jobs? Career Pathways and the green digital transition



What are Green Skills and Green Jobs?

- A **green economy** is ‘an economy that results in improved human well-being and social equity, while significantly reducing environmental risks and ecological scarcities’.
- **Green jobs** are jobs that ‘reduce the environmental impact of enterprises and economic sectors, ultimately to levels that are sustainable’
- **The Challenge:** What jobs, which sectors, what skills, where are the jobs, what courses can qualify for green skills, how to develop new courses for green jobs



Green Skills and Knowledge Concepts: Labelling the ESCO classification

- ▶ A total of 571 ESCO skills and knowledge concepts are labelled as green. This includes: 381 skills, 185 knowledge concepts, and 5 transversal skills.
- ▶ Additional to the preferred term, description, and non-preferred terms for each concept, ESCO provides information such as the **essential and optional relationship with occupations**, the skill reusability type, and the allocation in the respective hierarchies.

Green Skills and Knowledge Concepts: Labelling the ESCO classification

Labelling Green ESCO Concepts



STEP 1
Manual labelling



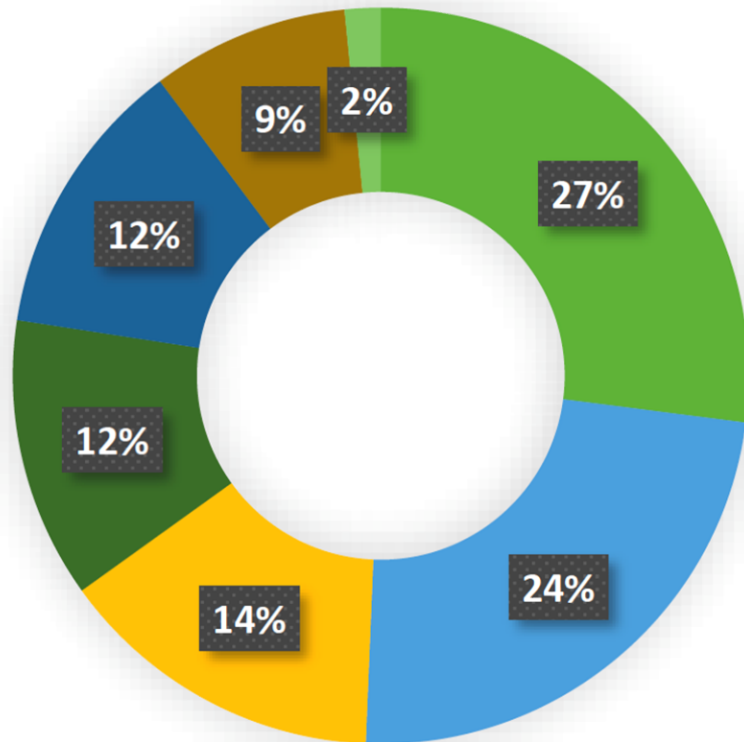
STEP 2
Machine learning
classifier



STEP 3
Comparison and manual
validation

Green Skills and Knowledge Concepts: Labelling the ESCO classification

Green Skills

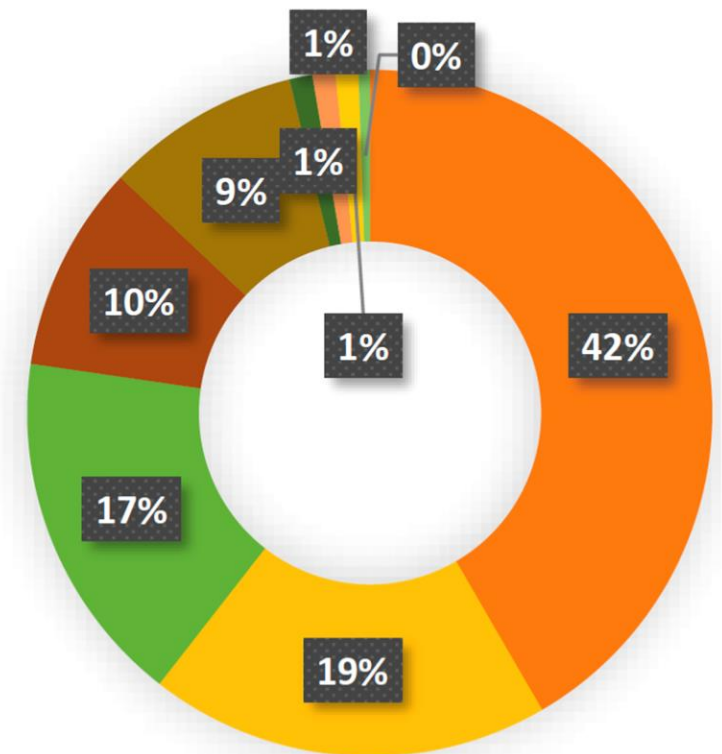


- information skills
- communication, collaboration and creativity
- assisting and caring
- management skills
- handling and moving
- working with machinery and specialised equipment
- constructing

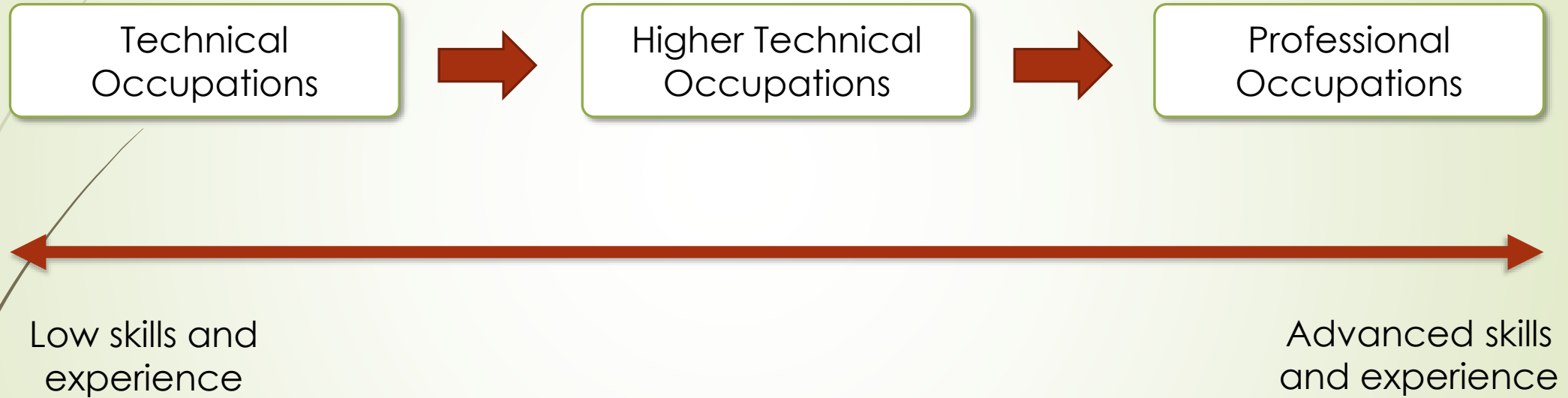
Green Skills and Knowledge Concepts: Labelling the ESCO classification

Green Knowledge Concepts

- engineering, manufacturing and construction
- natural sciences, mathematics and statistics
- agriculture, forestry, fisheries and veterinary
- business, administration and law
- services
- social sciences, journalism and information
- information and communication technologies (icts)
- health and welfare
- arts and humanities



Pathways





Pathways

Technical Occupations

- Elementary occupations
- Skilled agricultural, forestry and fishery workers
- Services and sales workers
- Clerical support workers

Second ISCO skill level.

Higher Technical Occupations

Technicians and associate professionals perform technical and related tasks connected with research and the application of scientific or artistic concepts and operational methods, and government or business regulations.

Third ISCO skill level.

Professional Occupations

Professionals increase the existing stock of knowledge; apply scientific or artistic concepts and theories; teach about the foregoing in a systematic manner; or engage in any combination of these activities.

Fourth ISCO skill level.

Pathways



For each occupation/group of occupations we need to present :

- About the occupation (From ESCO)
- Green Skills related to this Occupation (from ESCO Green Skills classifier)
- Real demand of this occupation in regional/national level (From OVATE)
- Training options for this occupations/skills in PT, ES, GR (a database with courses from 3 VET providers)