

ESCO

European Skills/Competences, qualifications and Occupations



Introduction to ESCO

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Meeting agenda

1. Introduction to ESCO
2. ESCO Implementers and Use Cases

Meeting agenda

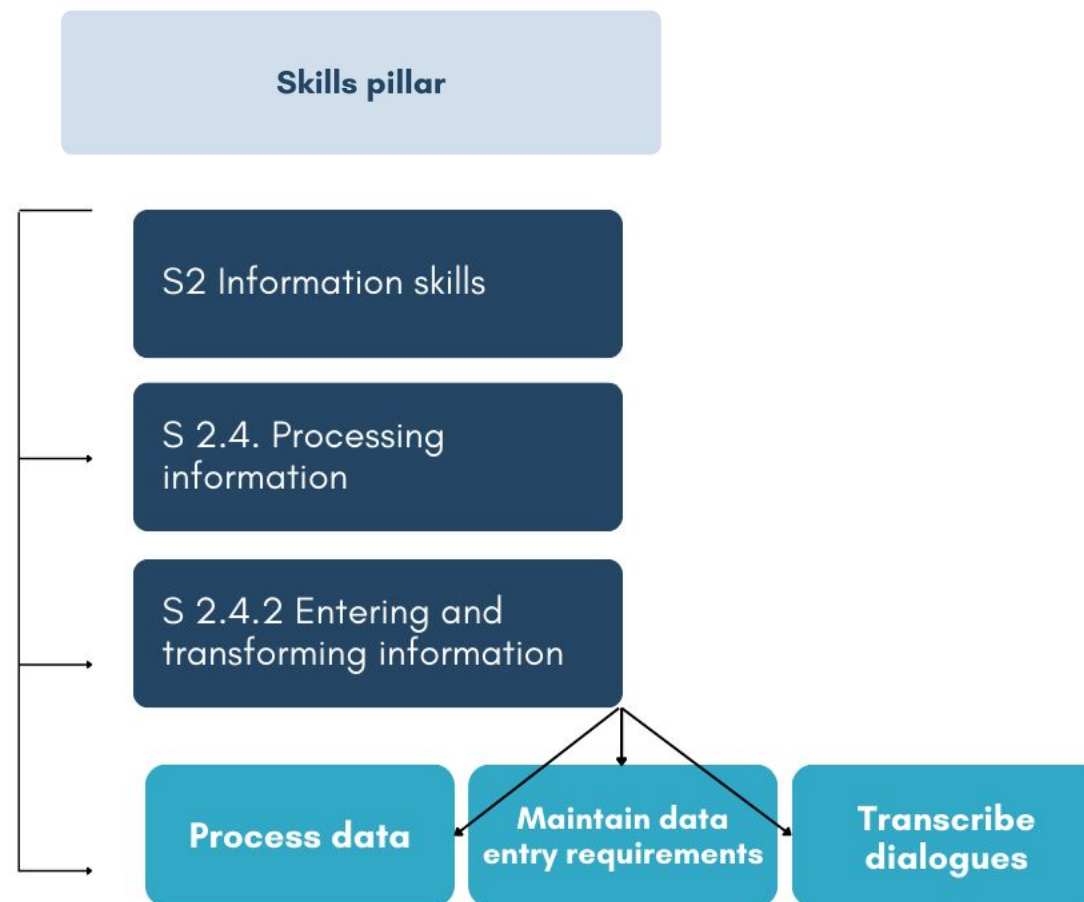
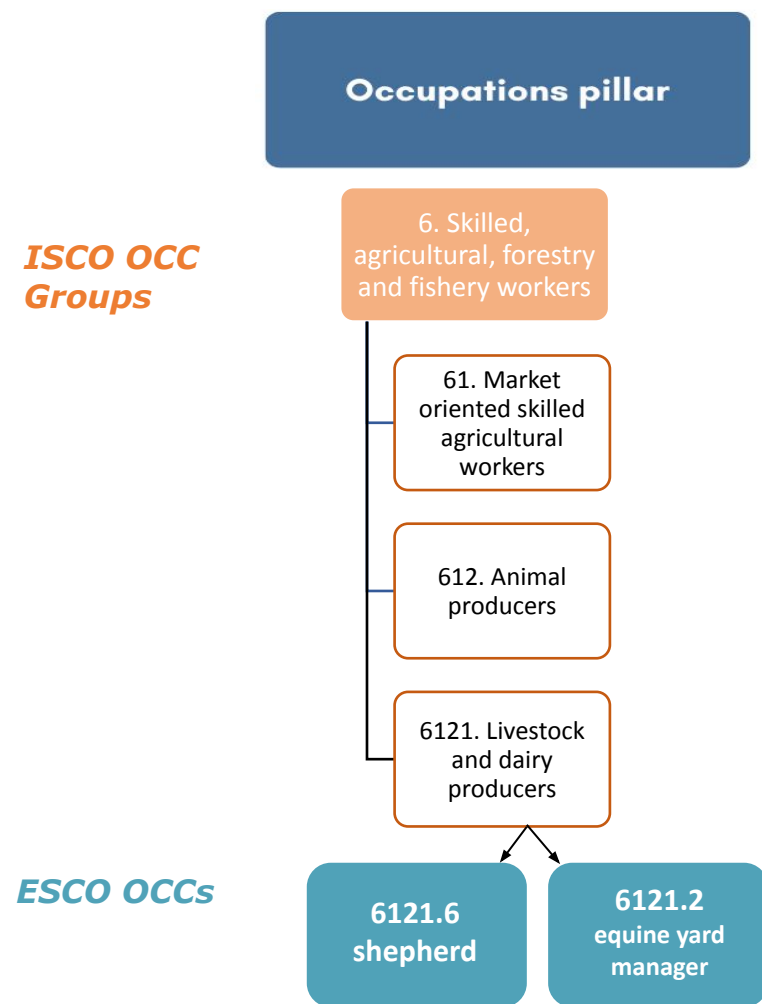
- 1. Introduction to ESCO**
- 2. ESCO Implementers and Use Cases**

The European Classification of Skills, Competences and Occupations

ESCO works as a dictionary, **describing, identifying and classifying** professional occupations, skills, and competences relevant for the EU labour market and education and training.



ESCO Hierarchy



Discuss in the forum
Download

palaeontologist

Professionals >
 Science and engineering professionals > Physical and earth science professionals >
 Geologists and geophysicists > geologist > palaeontologist >

Description

Code
2114.1.9

Description
 Palaeontologists research and analyse forms of life that existed in ancient eras of the planet Earth. They strive to define the evolutionary path and the interaction with different geological areas of all kinds of once organisms and such plants, pollen and spores, invertebrate and vertebrate animals, humans, traces such as footprints, and ecology and climate.

Alternative Labels

palaeontology analyst palaeontology research analyst palaeontology scholar

palaeoecologist paleontologist ichnologist palaeontology researcher

palaeontology scientist palaeontology science researcher

palaeontology research scientist micropalaeontologist

Regulatory Aspect
 To see if and how this occupation is regulated in EU Member States, EEA countries or Switzerland please consult the Regulated Professions Database of the Commission. Regulated Professions Database:
http://ec.europa.eu/growth/single-market/services/free-movement-professionals/qualifications-recognition_en

Skills & Competences

Essential Skills and Competences

promote the transfer of knowledge speak different languages

manage findable accessible interoperable and reusable data

manage intellectual property rights perform project management

apply for research funding

communication, collaboration and creativity
 negotiating > negotiating and managing contracts and agreements > find grants > skills >
 information skills > documenting and recording information >
 preparing documentation for contracts, applications, or permits > apply for research funding >

Description

Description
 Identify key relevant funding sources and prepare research grant application in order to obtain funds and grants. Write research proposals.

Alternative Labels

generate research funding identify research grants apply for research grants

draft research grants applications

Skill type
skill

Skill reusability level
cross-sector skills and competences

Relationships

Broader concepts

preparing documentation for contracts, applications, or permits find grants

Essential for

chemist religion scientific researcher agricultural scientist pharmacologist

climatologist environmental scientist university research assistant geneticist

OCCUPATIONS PILLAR
3008 Occupations

SKILLS PILLAR
13890 Skills/Competences

ESCO Download

Possibility to download multiple package sets simultaneously

In csv: 17 files (4 relations file)

Have in mind: URI is the key to connect concepts in ESCO

Clear filters ✕

Version ⓘ

ESCO dataset - v1.1.1 ▼

Version of the API to download

Content ⓘ

classification ▼

Type of content to download

Language ⓘ

en ▼

Language of the content to download.

File type ⓘ

csv ▼

File type to download

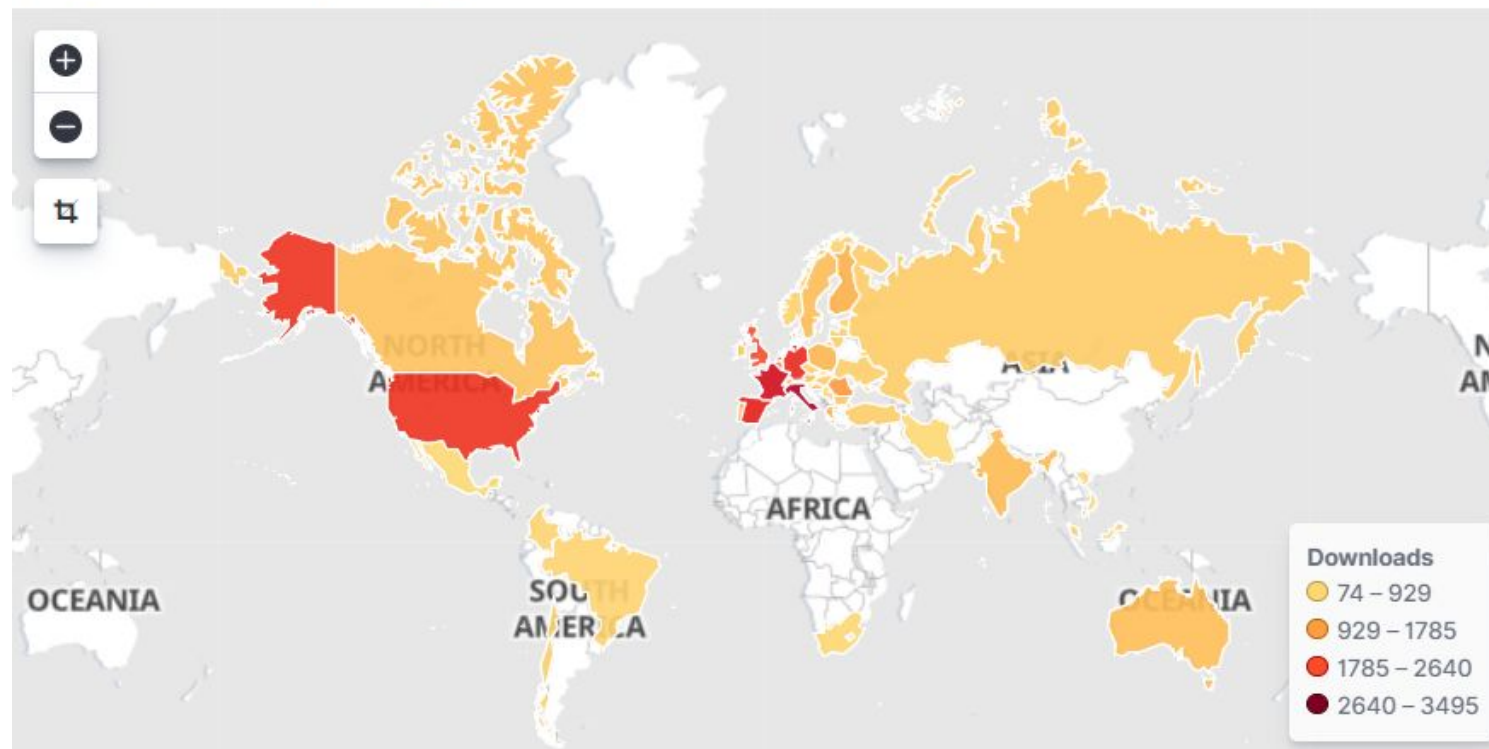
Add to your package

Meeting agenda

1. Introduction to ESCO
2. **ESCO Implementers and Use Cases**

ESCO's usage – a global footprint

ESCO portal downloads per country



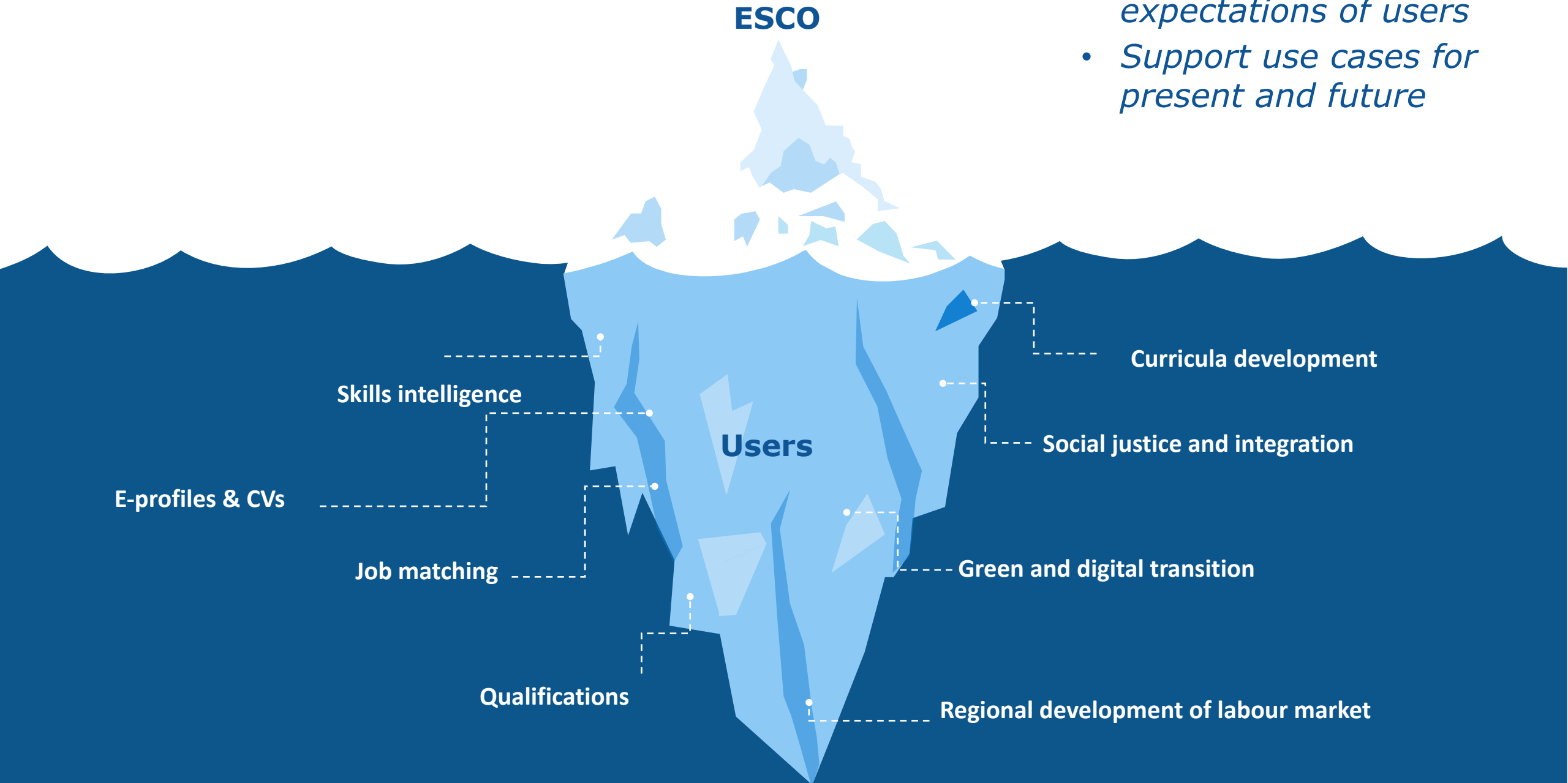
EU & international reach

Stakeholders tend to consider **ESCO as the standard framework on occupations and skills.**

ESCO is translated into 28 languages

User friendliness

- *Prioritize the needs and expectations of users*
- *Support use cases for present and future*



Questions?

THANK YOU!

The ESCO Secretariat is always available to support ESCO stakeholders.

**May you have any question, please contact us via email
at EMPL-ESCO-SECRETARIAT@ec.europa.eu**

<https://esco.ec.europa.eu/>

ESCO

European Skills/Competences, qualifications and Occupations



Future of ESCO: from Taxonomy to Ontology

CAD software in ESCO portal

Search skills

Find

Show filters ▾

Hierarchy view ↗

K - knowledge +

L - language skills and knowledge +

S - skills -

S1 - communication, collaboration and creativity +

S2 - information skills +

S3 - assisting and caring +

S4 - management skills +

S5 - working with computers -

S5.0 - working with computers -

S5.0.0 - working with computers -

- analyse ICT system +

- assemble hardware components

- maintain ICT server +

- maintain ICT system +

CAD software

Download ▾

knowledge >
 information and communication technologies (icts) > information and communication technologies (icts) >
 software and applications development and analysis > CAD software >

Description

Description

The computer-aided design (CAD) software for creating, modifying, analysing or optimising a design.

Scope note

CAD software should be differentiated from computer-aided design and drafting (CADD) software. CADD systems are CAD systems with additional drafting features. For example, CADD systems enable an engineer or architect to insert size annotations and other notes into a design.

Knowledge of software relevant

draw blueprints, design control systems, design wearing apparel, design footwear, develop audio system designs

Skill type

knowledge

CAD software in ESCO portal

Search skills

Find

Show filters ▾Hierarchy view ↔

| | |
|--|----------|
| K - knowledge | + |
| L - language skills and knowledge | + |
| S - skills | - |
| S1 - communication, collaboration and creativity | + |
| S2 - information skills | + |
| S3 - assisting and caring | + |
| S4 - management skills | + |
| S5 - working with computers | - |
| S5.0 - working with computers | - |
| S5.0.0 - working with computers | - |
| - analyse ICT system | + |
| - assemble hardware components | + |
| - maintain ICT server | + |

draw blueprints

Download ▾

communication, collaboration and creativity >
 creating artistic, visual or instructive materials > creating visual displays and decorations > skills >
 working with computers > using digital tools for collaboration, content creation and problem solving >
 using computer aided design and drawing tools > use technical drawing software > draw blueprints >

Description

Description

Draw layout specifications for machinery, equipment and building structures. Specify which materials should be used and the size of the components. Show different angles and views of the product.

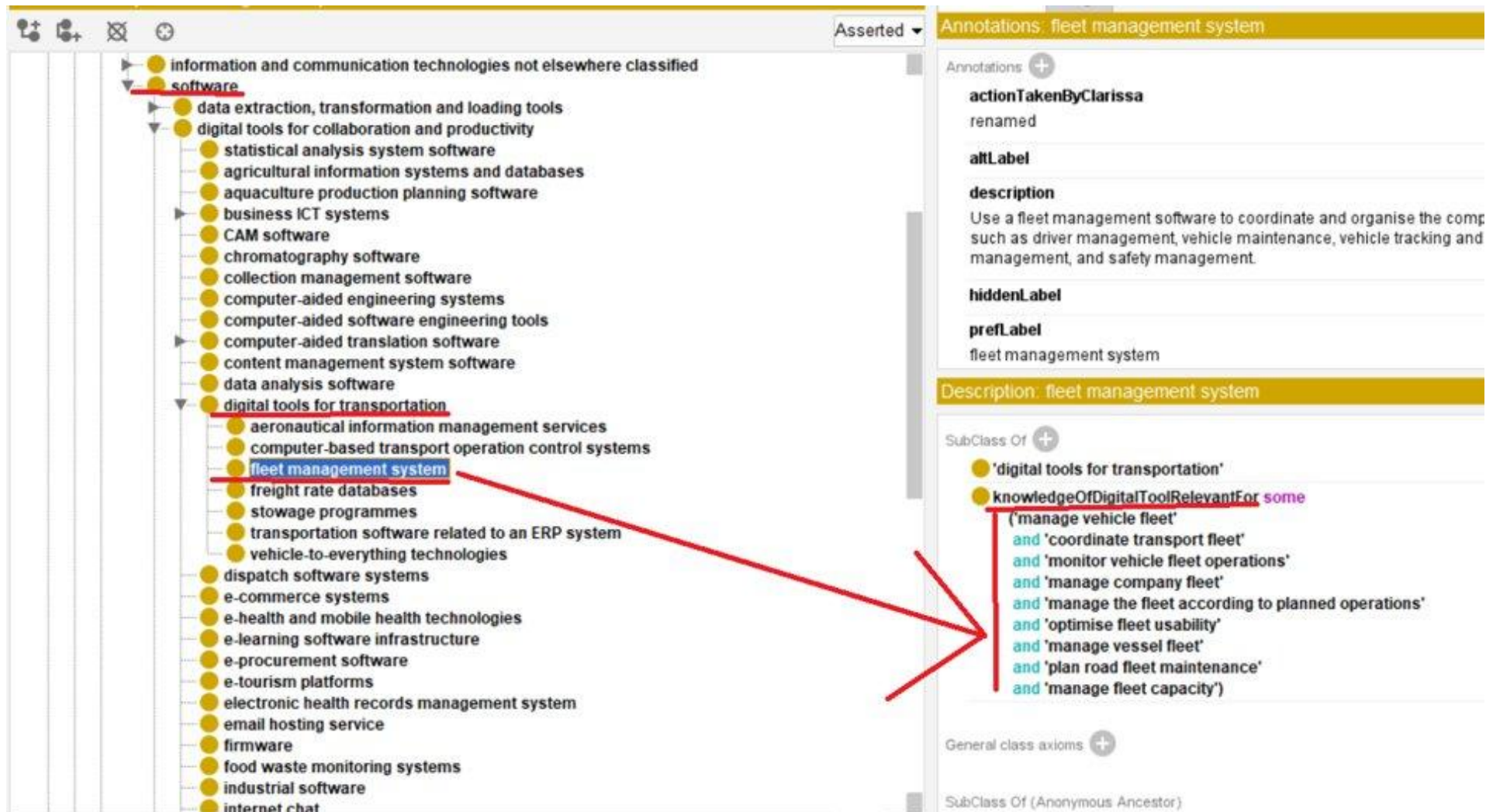
Incorporates knowledge of software

CAD software, specialized design software, computer aided design and drawing tools

Skill type

skill

Example: fleet management system



The screenshot displays a software ontology editor interface. On the left, a tree view shows a hierarchy of classes under 'information and communication technologies not elsewhere classified'. The 'fleet management system' class is highlighted in blue and underlined in red. A red arrow points from this class to the right-hand pane, which provides detailed information about the class.

Annotations: fleet management system

Annotations +

actionTakenByClarissa
renamed

altLabel

description
Use a fleet management software to coordinate and organise the comp such as driver management, vehicle maintenance, vehicle tracking and management, and safety management.

hiddenLabel

prefLabel
fleet management system

Description: fleet management system

SubClass Of +

- 'digital tools for transportation'
- knowledgeOfDigitalToolRelevantFor some**
 - 'manage vehicle fleet'
 - and 'coordinate transport fleet'
 - and 'monitor vehicle fleet operations'
 - and 'manage company fleet'
 - and 'manage the fleet according to planned operations'
 - and 'optimise fleet usability'
 - and 'manage vessel fleet'
 - and 'plan road fleet maintenance'
 - and 'manage fleet capacity')

General class axioms +

SubClass Of (Anonymous Ancestor)

Fleet management system in ESCO portal

Search skills

K - knowledge +

L - language skills and knowledge +

S - skills -

S1 - communication, collaboration and creativity +

S2 - information skills +

S3 - assisting and caring +

S4 - management skills +

S5 - working with computers -

S5.0 - working with computers -

S5.0.0 - working with computers -

- analyse ICT system +

- assemble hardware components

use fleet management system

skills >

working with computers > using digital tools for collaboration, content creation and problem solving >
 using digital tools for collaboration and productivity > use fleet management system >

Description

Description

Use a fleet management software to coordinate and organise the company vehicles from a central point. The software includes several functions such as driver management, vehicle maintenance, vehicle tracking and diagnostics, vehicle financing, speed management, fuel and fitness management, and safety management.

Knowledge of software relevant for

coordinate transport fleet, monitor vehicle fleet operations, manage company fleet, manage vessel fleet, optimise fleet usability

Manage company fleet in ESCO portal

Search skills



[Find](#)
[Show filters](#)
[Hierarchy view](#)

K - knowledge +

L - language skills and knowledge +

S - skills -

S1 - communication, collaboration and creativity +

S2 - information skills +

S3 - assisting and caring +

S4 - management skills +

S5 - working with computers -

S5.0 - working with computers -

S5.0.0 - working with computers -

- analyse ICT system +

assemble hardware components

manage company fleet

[Download](#)

transversal skills and competences >
 social and communication skills and competences > leading others > lead others > skills >
 management skills > organising, planning and scheduling work and activities >
 managing transport and logistics activities > manage company fleet >

Description

Description

Manage and maintain company fleet by selecting equipment, dispatching units, performing maintenance, and managing costs.

**Incorporates knowledge of software
 use fleet management system**

Psychiatry in ESCO portal

Hierarchy view ↵
Download ▾

| | |
|---|----------|
| K - knowledge | - |
| - agriculture, forestry, fisheries and veterinary | + |
| - arts and humanities | + |
| - business, administration and law | + |
| - education | + |
| - engineering, manufacturing and construction | + |
| - field unknown | + |
| - generic programmes and qualifications | + |
| - health and welfare | - |
| - health | - |
| - dental studies | + |
| - health not elsewhere classified | |
| - health not further defined | |

psychiatry

knowledge >
health and welfare > health > medicine > psychiatry >

Description

Description

Psychiatry is a medical speciality mentioned in the EU Directive 2005/36/EC.

Medical speciality relevant for

psychiatric disorders, diagnosis of mental health, psychiatric diagnostics

Skill reusability level

cross-sector skills and competences