

21 November 2023



LABOUR ISSUES IN THE SHIPBUILDING AND MARINE EQUIPMENT INDUSTRIES:

VET AND THE GREEN TRANSITION

Małgorzata Kuczera
Analyst
OECD Centre for Skills



VET and the green transition

Why do we focus on the green transition?

- **Climate urgency**
- **Regulatory pressure**
- **Countries are launching initiatives to stimulate green growth:**
 - *US: Climate subsidies of \$369 billion to be spent during 10 years*
 - *Japan: Green Innovation Fund (\$ 19 billion) would support the goal of achieving the carbon neutrality by 2050*
 - *EU: reduction of the greenhouse gas emissions by at least 55% by 2030. The Social Climate Fund will dedicate over 86 billion euros in total to support the most vulnerable citizens and small businesses with the green transition*



VET and the green transition

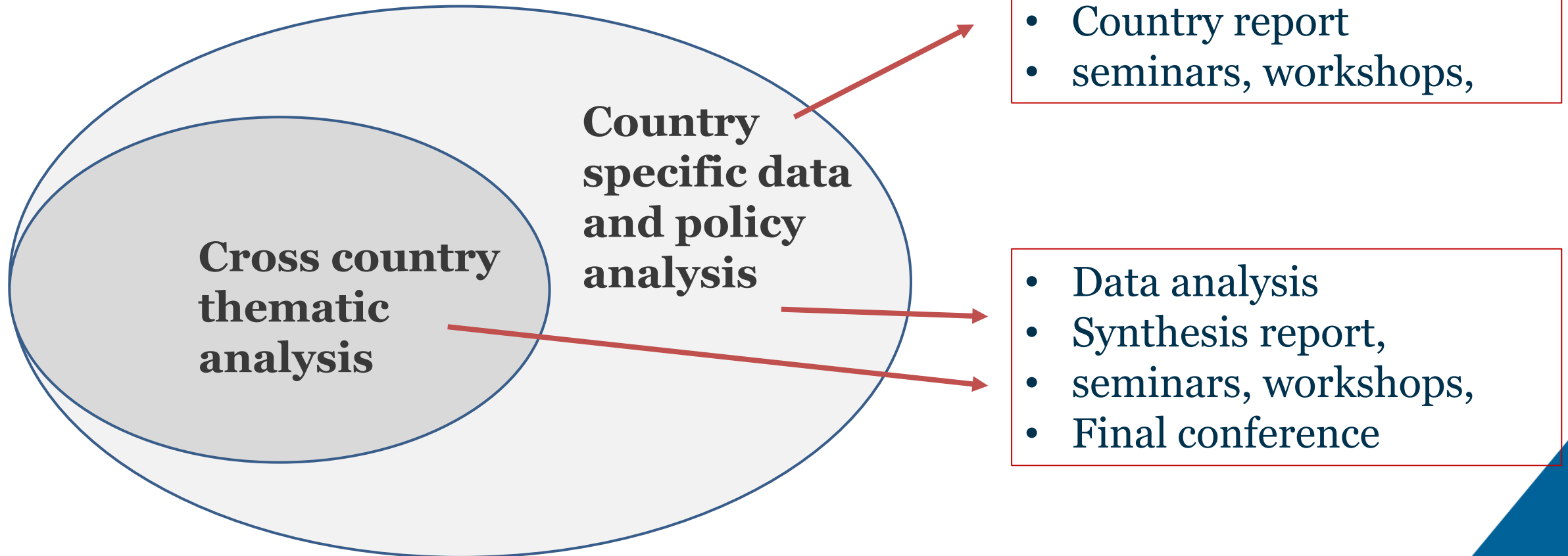
Why do we focus on VET?

- **VET traditionally prepared for middle-skill jobs that are at a higher risk of automation and that are likely to be affected by the green transition too**
- **Introduction of new technologies and ways of production will need to be matched with skills**
- **VET prepares young people for the labour market and is a tool of retraining of adults**



VET and the green transition

How do we work and what are the outcomes?





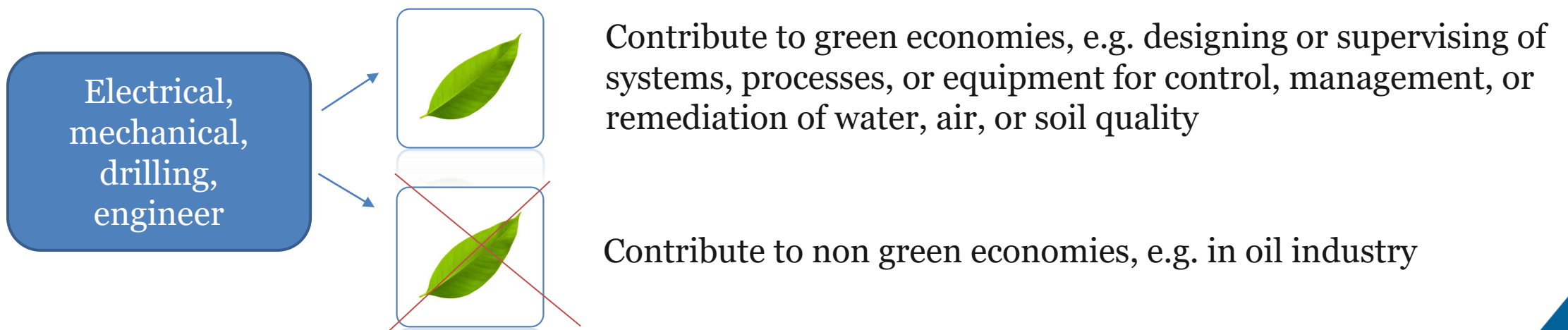
VET and the green transition

How do we define 'green'?

DATA ANALYSIS

High green potential occupations require skills and competences which are applied to activities positively contributing to green economy (definition based on the O*Net classification).

Example of a high green potential occupation:





VET and the green transition

How do we define 'green'?

POLICY ANALYSIS

✓ **Focus on the labour market**

High green potential occupations: require the skills and competences which are applied to activities positively contributing to green economy (e.g. the development of a method measuring water quality)

✓ **Focus on the labour market and beyond**

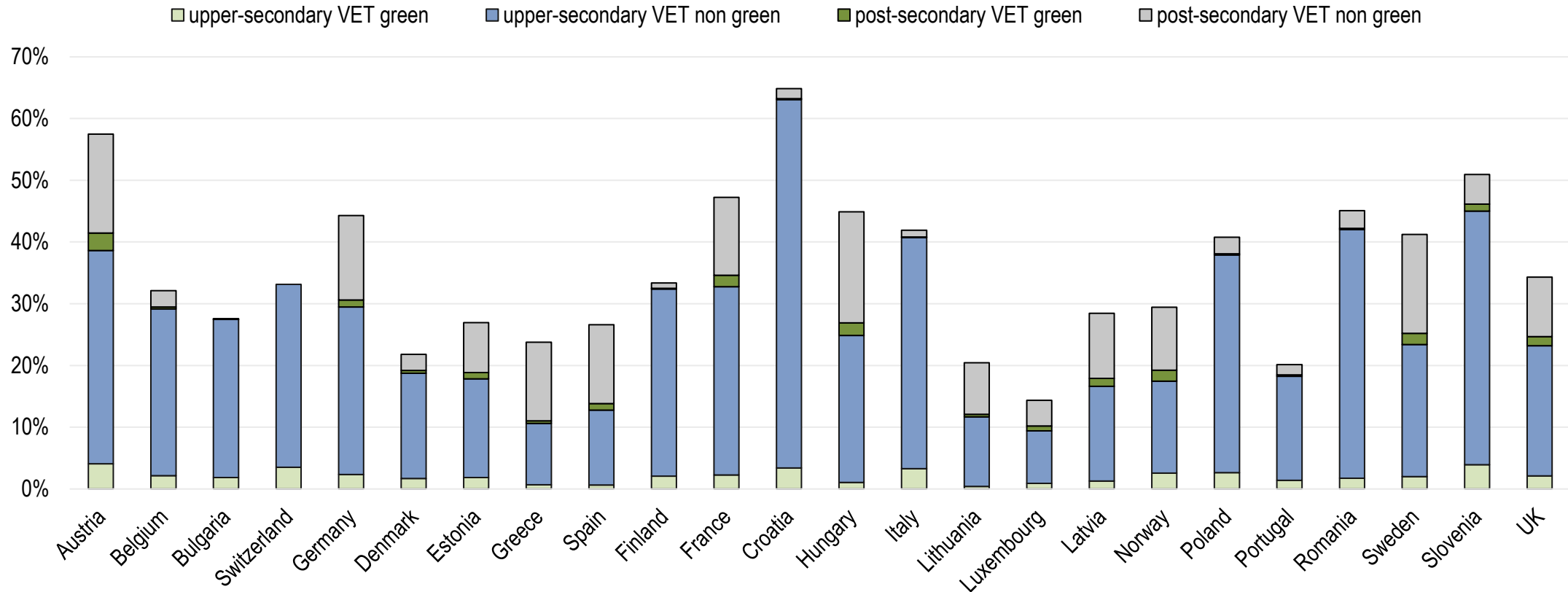
Broader focus on skills and knowledge contributing to development of environmentally responsible behaviour and attitudes in every aspect of life.



VET and the green transition

How common are green potential jobs?

Share of workers with upper-secondary and post-sec VET (as highest qualifications) in the total employment, by country and green employment (2014-2021), population aged 35 and below

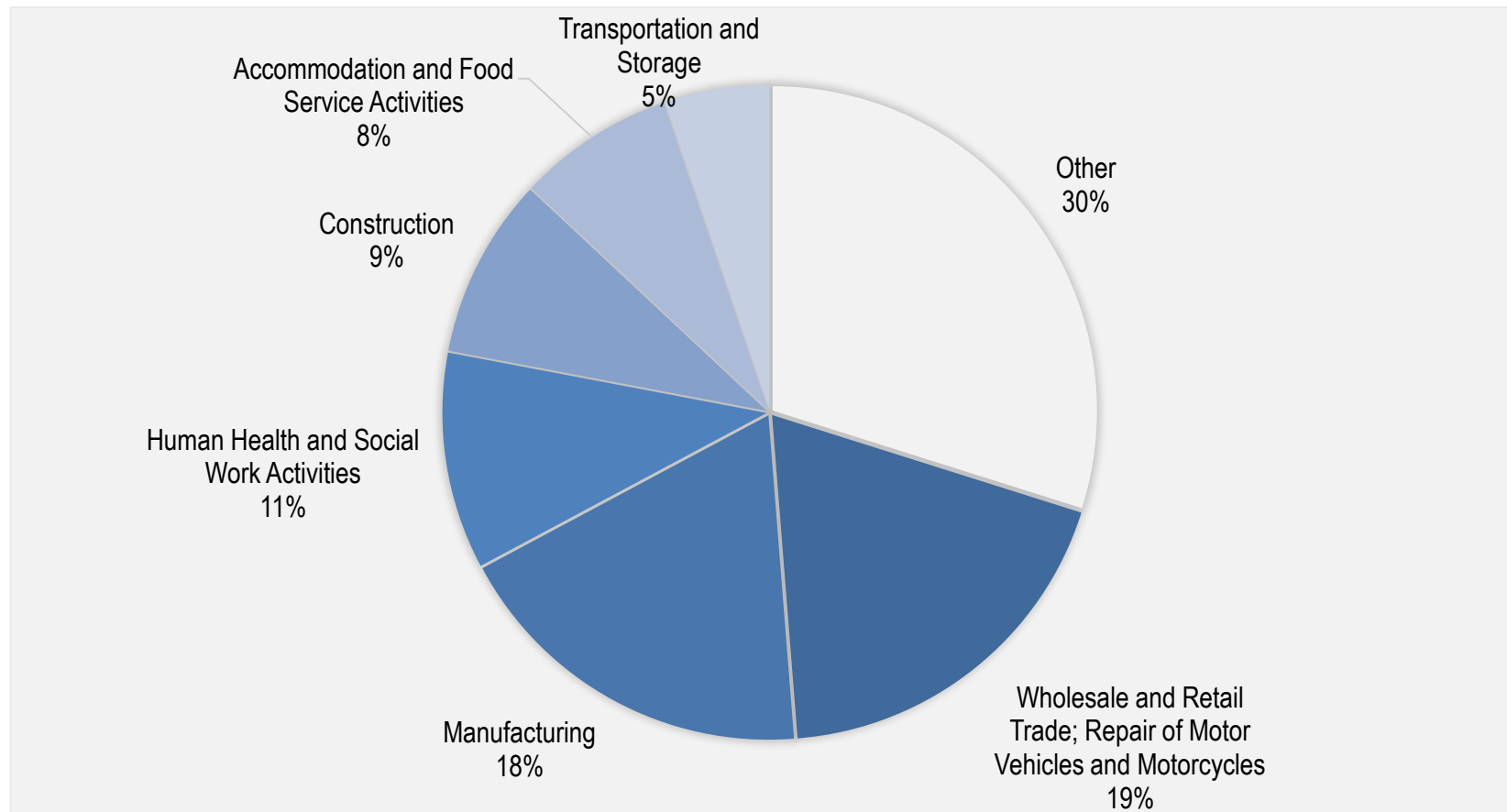




VET and the green transition

Where do VET graduates work?

Distribution of VET graduates (aged 35 and below) by sector, 2014-2021

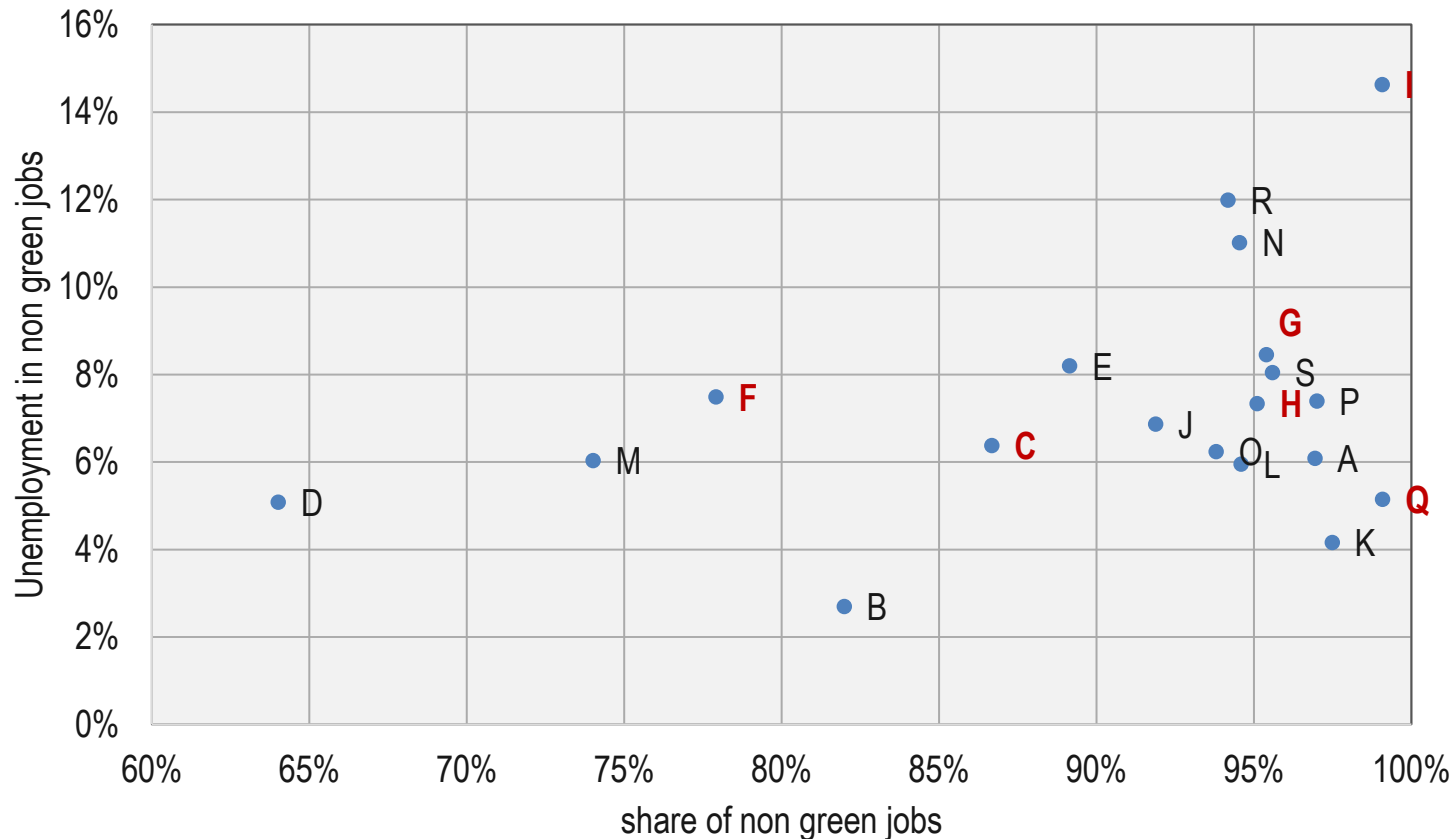




VET and the green transition

Share of non green jobs and unemployment

2014-2021, population aged 35 and below with VET qualifications, by sectors



- Agriculture, Forestry and Fishing A
- Mining and Quarrying B
- Manufacturing C
- Electricity, Gas, Steam and Air Conditioning Supply D
- Water Supply; Sewerage, Waste Management and Remediation Activities E
- Construction F
- Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles G
- Transportation and Storage H
- Accommodation and Food Service Activities I
- Information and Communication J
- Financial and Insurance Activities K
- Real Estate Activities L
- Professional, Scientific and Technical Activities M
- Administrative and Support Service Activities N
- Public Administration and Defence; Compulsory Social Security O
- Education P
- Human Health and Social Work Activities Q
- Arts, Entertainment and Recreation R
- Other Service Activities S

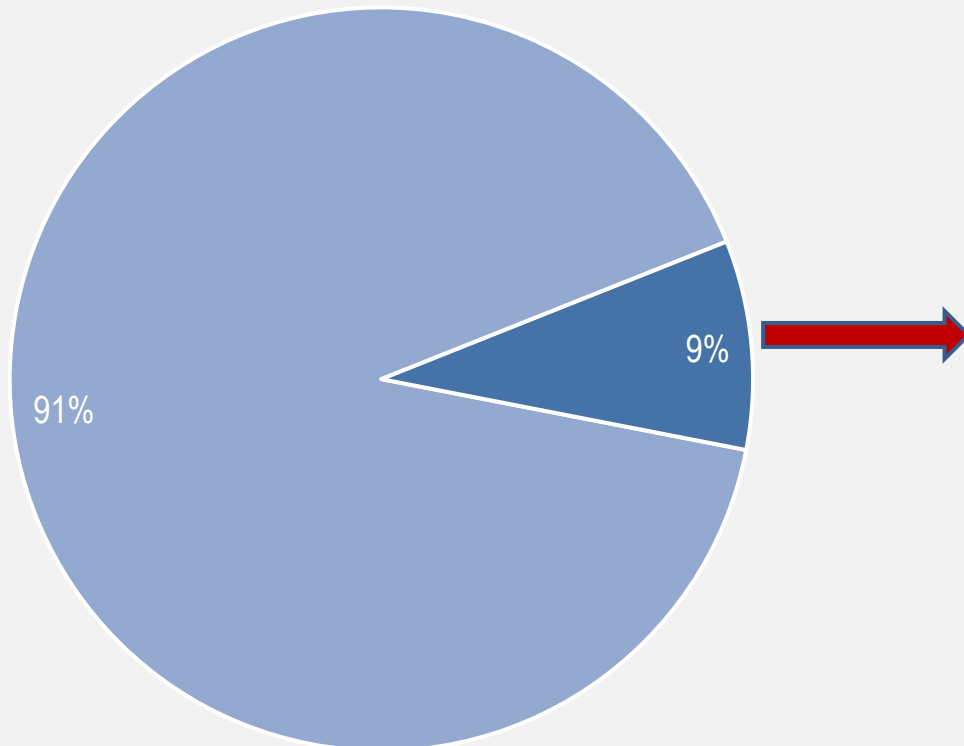


VET and the green transition

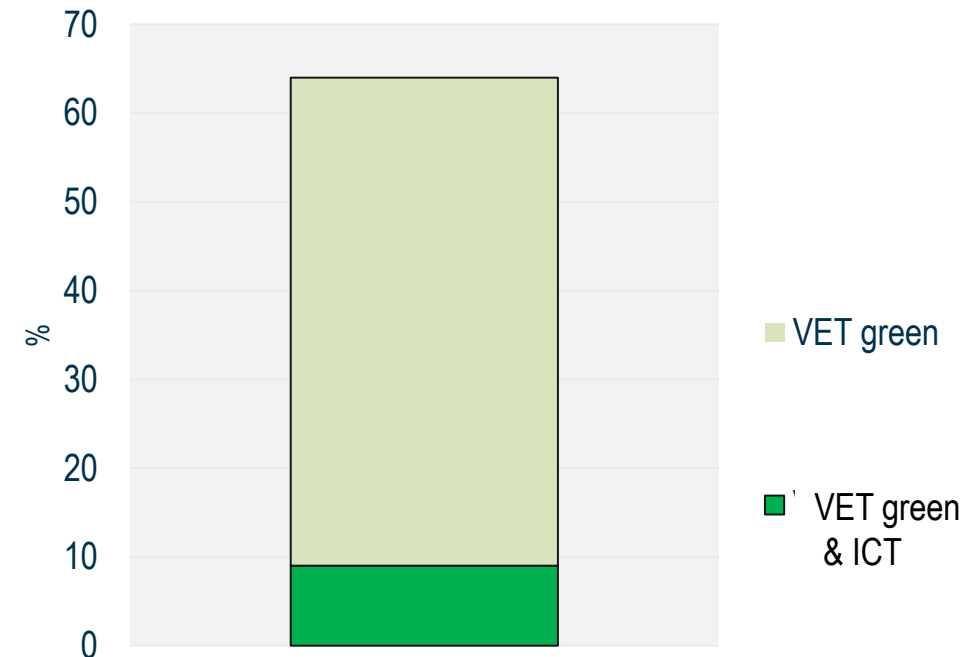
How green are VET skills?

'VET skills' represent around 10% of all the skills

■ all skills ■ VET skills



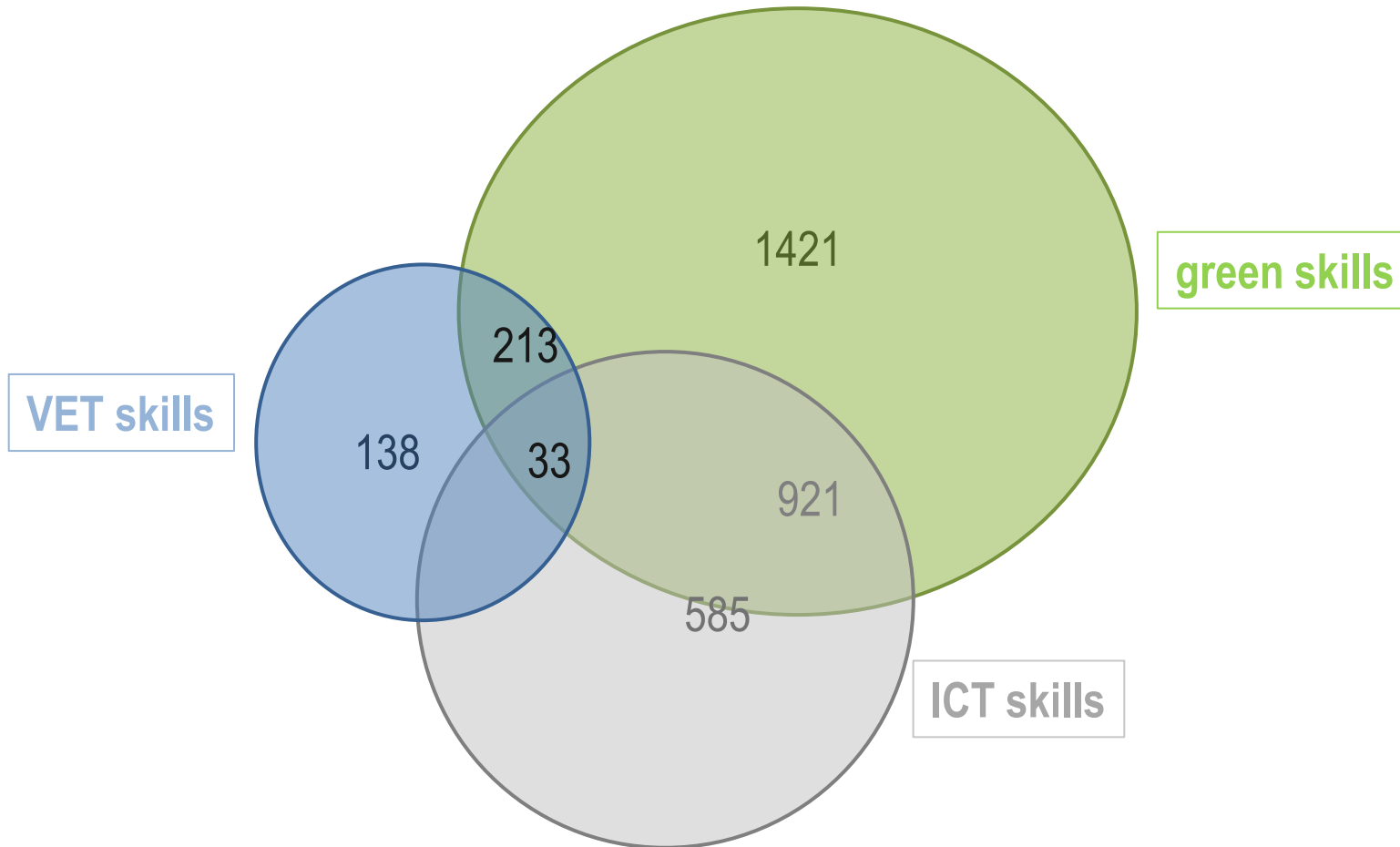
- **64% of 'typical' VET skills are also green**
- **Nearly all ICT skills found in VET jobs are also green**





VET and the green transition

How vocational are green skills?



- But the majority of green skills are not reported in job vacancies for VET holders
- Many green skills can be associated with post-secondary education



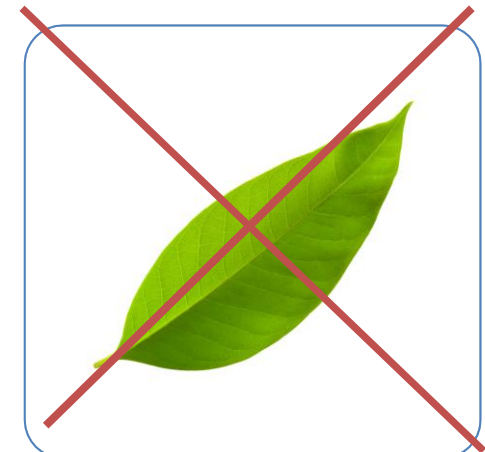
VET and the green transition

- ***Do we need more higher level VET?***
- ***Do we need to provide more basic skills to VET students?***
- ***How to upskill adults?***



clean/green

More of :
**Engineering and
technical skills,
Management, Monitoring
and Science**



Non green



VET and the green transition

What are the policy implications?

Need to include new skills and knowledge

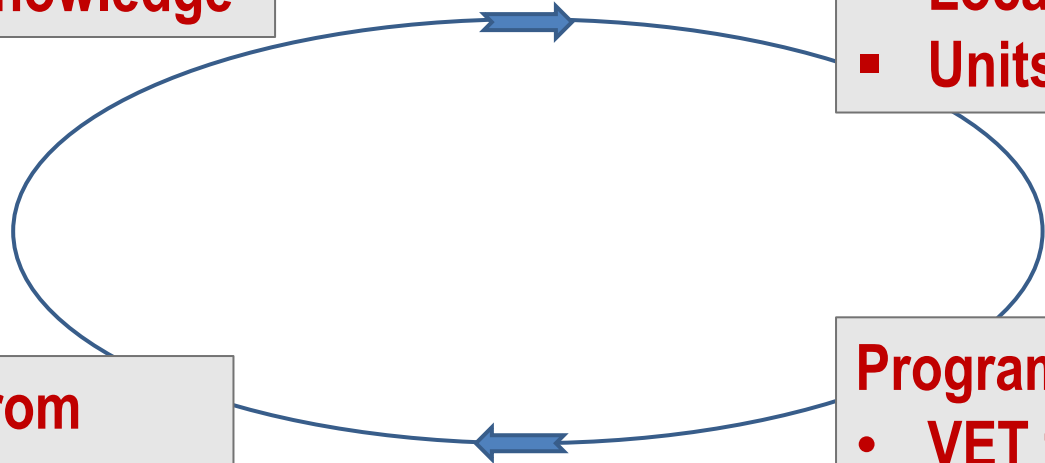
Qualifications

- **Locally adjusted**
- **Units versus full qualifications**

Feedback from employers, providers, students

Programme delivery

- **VET teachers familiar with the new technology**
- **Available work places with companies**





Thank you!

MORE INFO

Contact: Malgorzata.kuczera@oecd.org