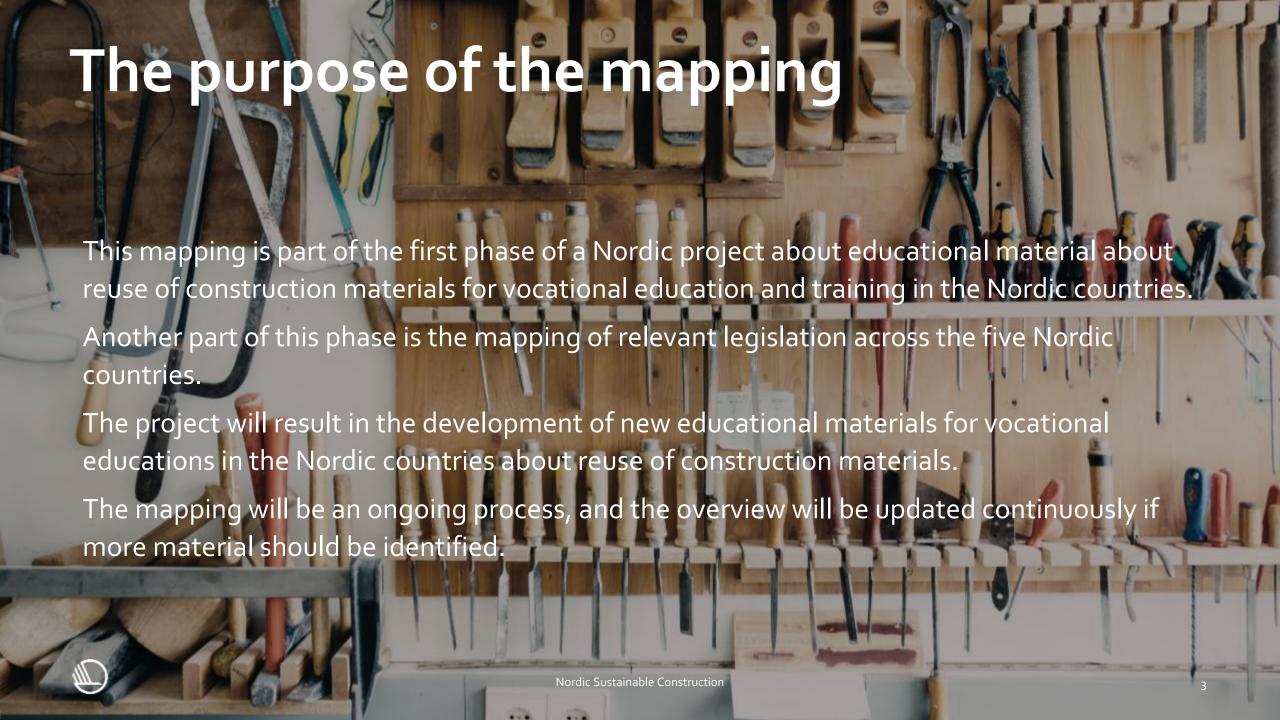


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Method – the online screening for materials

The desk-study

- A broader screening than the specific subject of 'reuse of construction materials' for vocational education and training.
 - On topic Including: circular economy, sustainability, SDG's
 - On target group Including In-service training, adult education, high school

Outreach to relevant actors within the field in the Nordic Countries

- Teachers within vocational education
- Vocational education institutions
- Organisations concerning sustainable construction and/or vocational education
- Ministries







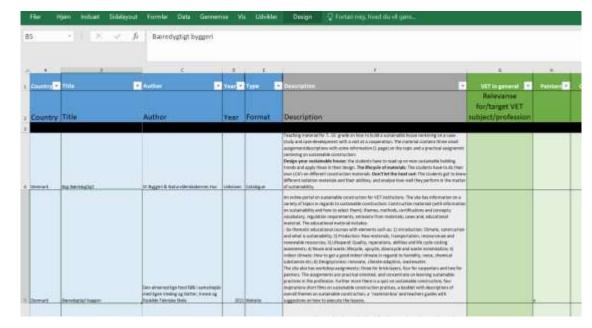
Method – the mapping process

The framework

The mapping process has been structured based on a framework of relevant criteria in order to map the material systematically, to form an overview and to establish a sorting mechanism.

Some of the most significant sorting criteria in the framework are:

Country, profession, theme and didactic approach.



Method – the mapping process (professions)

Themes

- Reuse of construction materials
- Recycling of construction materials
- Sustainable construction
- Circular economy
- General sustainable education (ESD)

Didactics

Knowledge

- Regulation/policies
- Sustainable construction practices and materials
- Life cycle analysis

Ability

Construction practices within reused materials

Opinions

- Circular economy
- Climate and climate changes
- SDG's
- ESD in general

Professions

Professions within vocational education and training:

Vocational education in general / no more specific target group within vocational education than construction professions.

- 1. Painters
- Construction workers
- R. Pavers
- 4. Bricklayers
- 5. Roofers
- 6. Carpenters
- Primary School
- High School
- In-service training / adult education



Findings – in numbers

A total of 61 different teaching materials from Sweden, Norway, Finland, Iceland or Denmark have been identified.

Denmark: 46 materials. 36 of these materials all come from the same source.

Finland: 2 materials Iceland: 4 materials Norway: 4 materials Sweden: 5 materials







Findings – what has been located?

Denmark:

- Most of the material stem from Videnscenter for Håndværk og Bæredygtighed (The Knowledge Center on Crafts and Sustainability). This material is of varying length, depth and thoroughness. Some of the materials reference other materials in the mapping.
- The materials are rarely specifically designed for a profession, but are more generic
- The materials mostly concern broader subjects and do not have 'reuse of construction materials' as their main focus. Instead reuse of construction materials is an underlying chapter of bigger themes
- Most of the material concerns the development of 'knowledge' and 'opinions'. Less of the material concern the development of 'abilities'.

Sweden, Finland, Norway Iceland

- There is a lack of relevant educational material for the teachers to use in teachings of reuse of construction materials
- There are a couple of interesting didactical approaches and methods, but not either/or developed for the target group or on the specific theme

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Conclusions

- There is a lack of educational material in the Nordic countries with a focus on reuse of construction materials
- There is a substantial amount of educational material in Denmark, but not enough material that specifically concerns reuse of construction materials for the specific professions (with a focus on gaining abilities to exercise reuse in practice)
- The Danish materials should however be held in mind and/or used, when developing new materials
- There are examples of different didactic methods that could be used, when developing new materials









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