



**Environmental Product Declarations (EPDs) as a
competitive parameter within sustainable buildings
and building materials**

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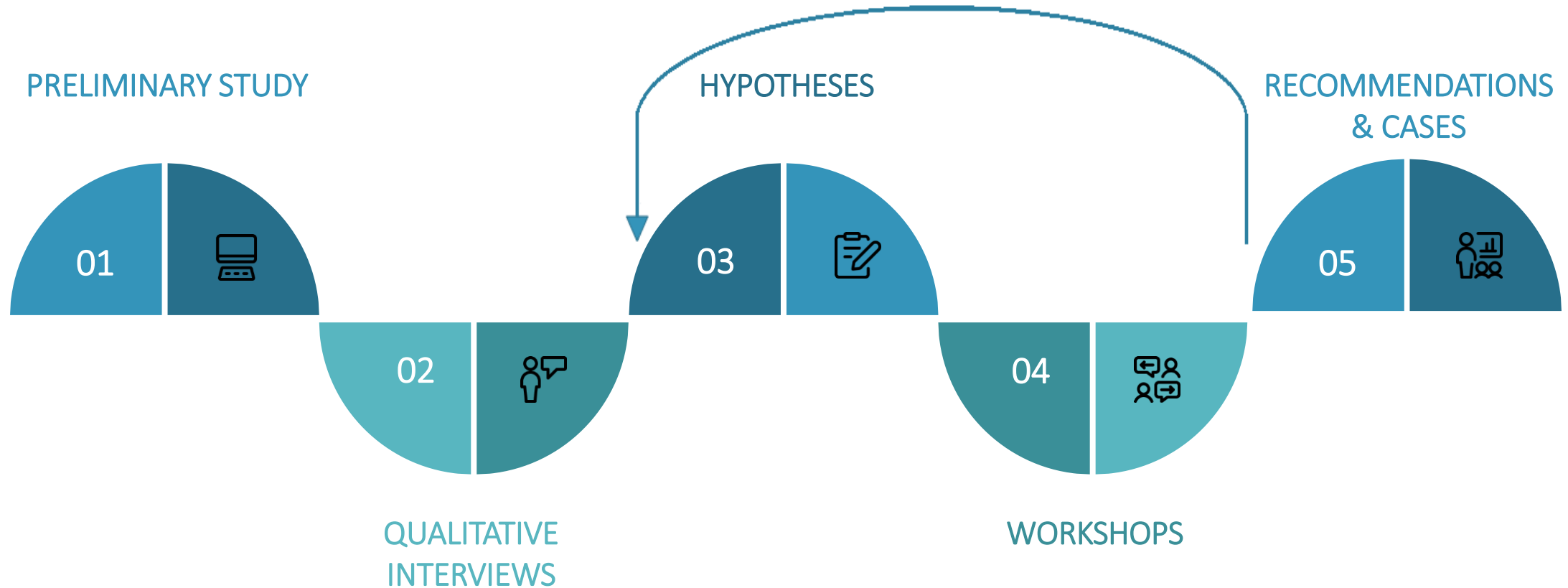
Introduction

Project partners



1. How can EPDs be used as a competitive parameter within the sustainable built environment?
2. How can product specific EPDs, used as an input to building-level LCAs, help to quantify the concept of 'circular economy'?
3. How do some countries seem to succeed in introducing EPDs to industry while others only succeed to a lesser extent?

Framework



Previous literature

Barriers

Market demand

Knowledge of documentation

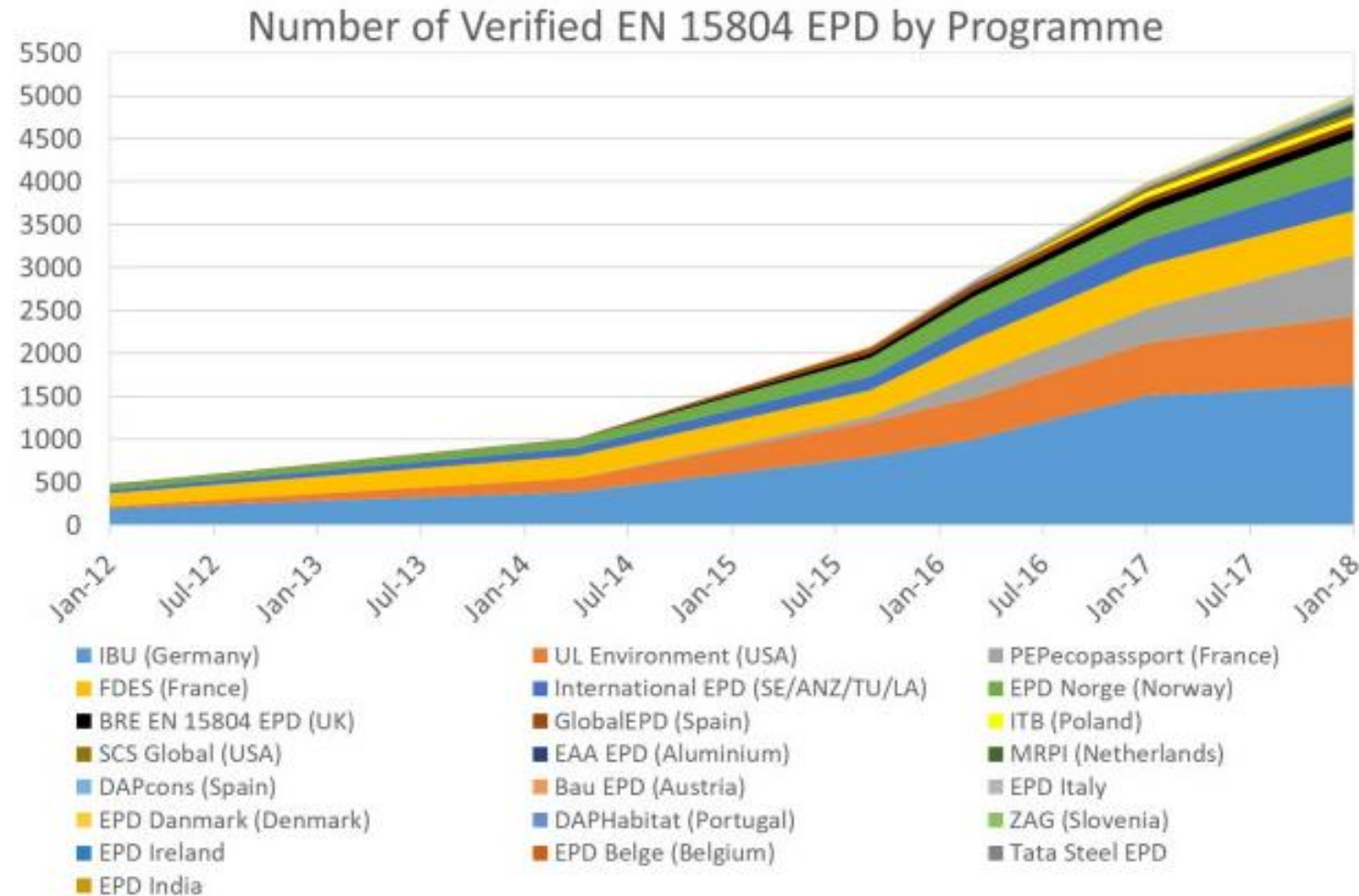
Harmonisation

High cost

Drivers

Building certification schemes

EPD development and drivers



*Infographic, showing the numbers of verified EPDs for construction products which align to EN15804 from 2012-2018.
Reprinted by permission of Jane Anderson, ConstructionLCA Ltd.*

EPDs in Denmark

~40 EPDs, medio 2019
Covering 90+ products



Earning credits through
EPDs and LCA

<http://www.dk-gbc.dk/dgnb>

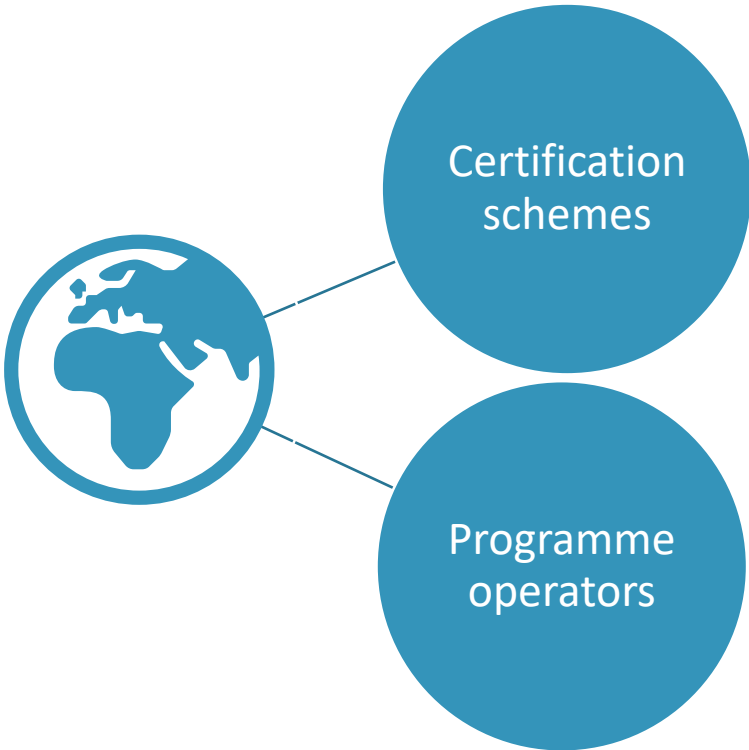
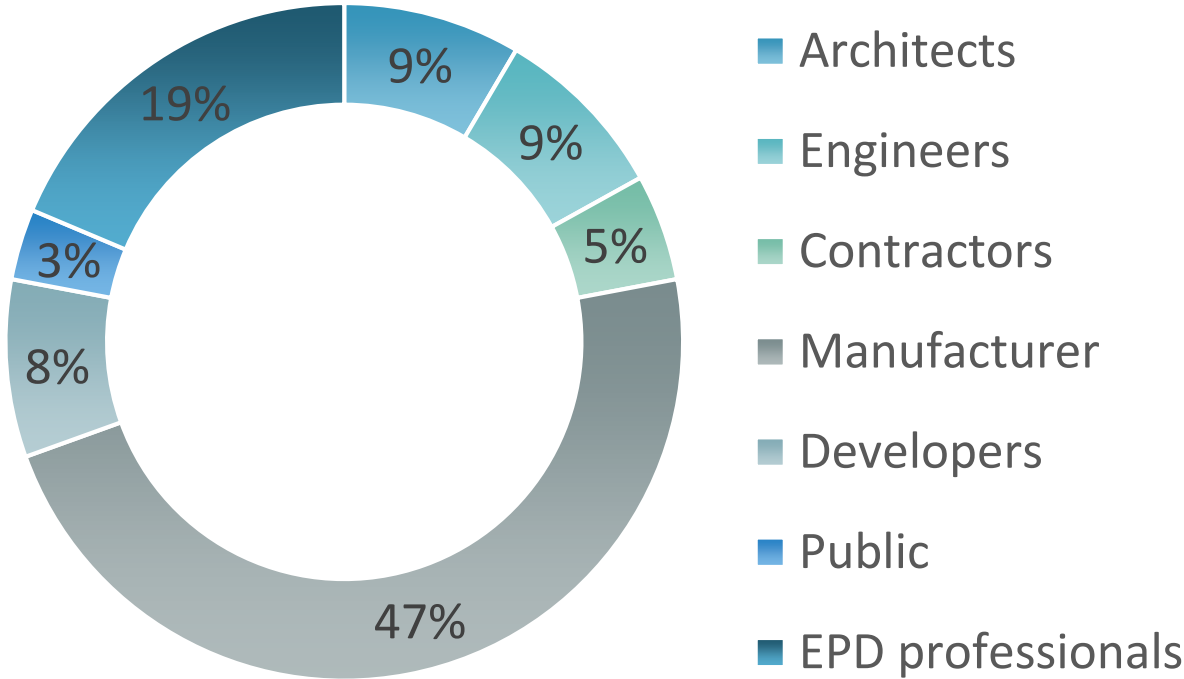


Voluntary Sustainability
Classification system

https://www.innobyg.dk/media/75595/frivillig-baeredygtighedsklasse-br-18_final-rapport.pdf

Method

Interview respondent



Framework questions and answers

1. How can EPDs be used as a competitive parameter within the sustainable built environment?

A QUESTION OF VALUE DETERMINATION

Framework questions and answers

1. How can EPDs be used as a competitive parameter within the sustainable built environment?
2. How can EPDs, used as an input to building-level LCAs, help to quantify the concept of 'circular economy'?

C AND D COULD QUANTIFY 'CIRCULAR ECONOMY'

Framework questions and answers

1. How can EPDs be used as a competitive parameter within the sustainable built environment?
2. How can EPDs, used as an input to building-level LCAs, help to quantify the concept of 'circular economy'?
3. How do some countries succeed in introducing EPDs to industry while others only succeed to a lesser extent?

PROGRAMME ESTABLISHMENT AND MARKETS

Outcome



Manufacturers

Contractors

Developers

Consultants

Municipalities

Industry associations

Recommendations and observations

1. Intensifying communication – being visible
2. Disseminate knowledge about use – including the LCA
3. Digitalisation of EPDs
4. Increase knowledge of environmental assessment schemes
5. Support and strengthen incentive – across the industry
6. Focus on the sustainability of materials – embedded emissions
7. Standardized documentation of the CE – value of EPDs
8. Mapping of existing EPDs

Thank you for your attention



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