



A first Digital Product Passport for cement: lessons from a Norwegian pilot

Construction products are first in line under the ESPR: the Digital Product Passport turns structured product data into a legal requirement

Ecodesign for Sustainable Products Regulation (ESPR)

- Introduces the Digital Product Passport (DPP) as the standard digital carrier of product data, for almost all products
- A cornerstone of sustainable product development in the EU's green transition

Revised Construction Products Regulation (CPR)

- Harmonises and digitalises the sale of construction products across the EU and EEA
- Gives construction products their own DPP rules: a digital Declaration of Performance and Conformity (DoPC) and compatibility with BIM

Applies to every construction product placed on the European market, wherever it is made

Authorities and market surveillance

Access to data that makes enforcement of the rules efficient

Merchants and contractors

Easier to confirm that products meet regulatory requirements, and a better basis for climate-smart choices

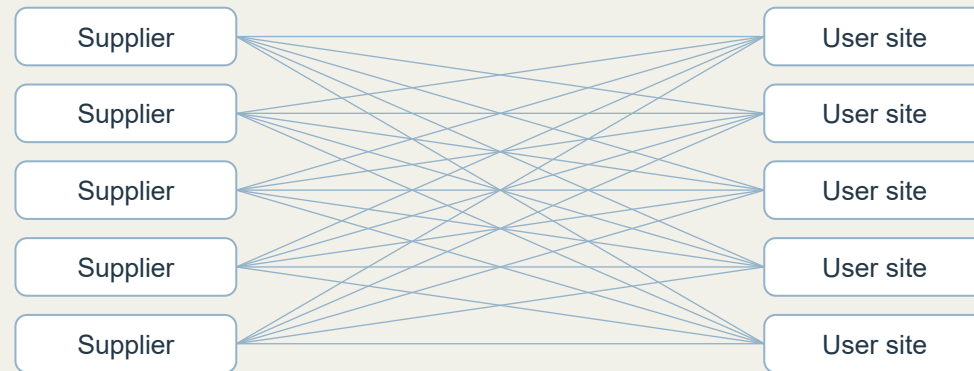
Consumers and end users

Safe products that are sustainable in production and throughout their life cycle

For 30 years, NOBB has linked many suppliers to many users through one hub built on standardised data templates

Without a common platform

Every supplier integrates with every user's system

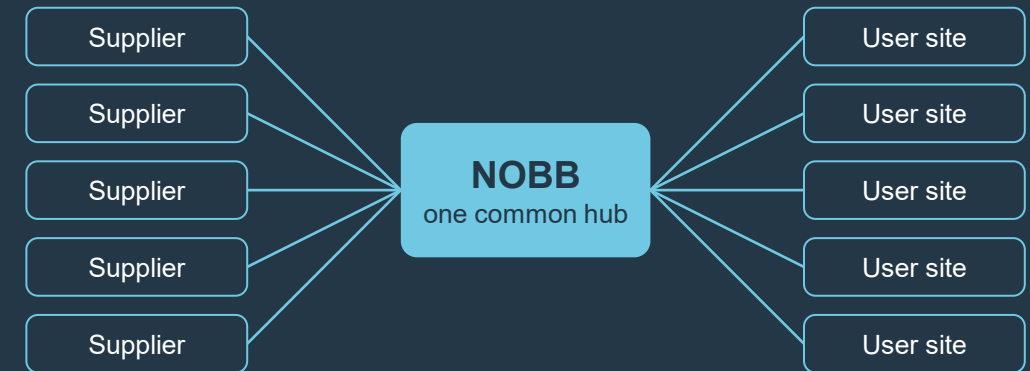


1,000 suppliers × 1,500 user sites = 1.5 million connections



With NOBB as the common platform

Each party connects once, in one place



1,000 suppliers + 1,500 user sites = 2,500 connections

33 years

in continuous operation

3 million

products registered in total

1 million

active construction products

The same principle as the DPP:

standardised data templates connect those who produce the data with those who use it

Three organisations share one goal: to be the first to submit a Digital Product Passport for cement

Project goal: submit a DPP for cement, built on the data template for the new harmonised standard, to the test environment of the DPP registry



Heidelberg Materials

- Leading European cement producer
- Strong R&D environment in Norway and the Nordic countries

Role in the pilot

Cement expertise. Future creator and owner of DPP data.



Norwegian Building Authority (DiBK)

- National market surveillance authority for construction products

Role in the pilot

DPP expertise. As supervisory authority, a future large-scale user of DPP data.



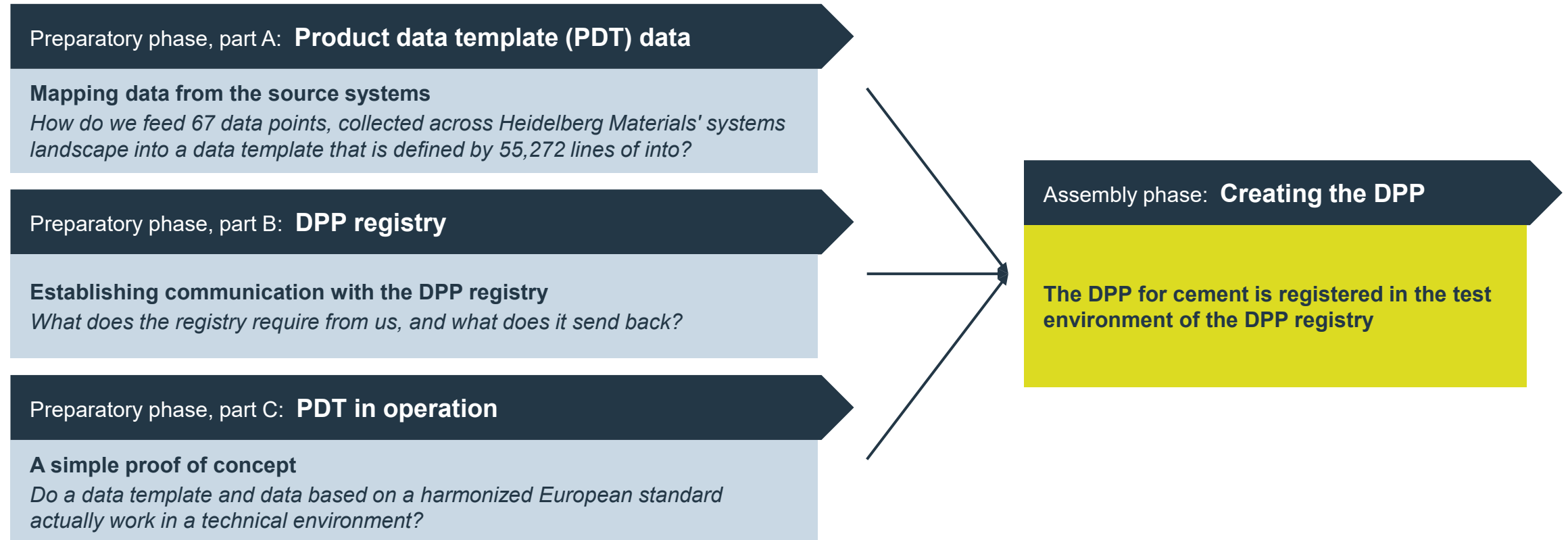
Norsk Byggtjeneste

- Industry-owned operator of NOBB, the de facto product data standard in Norway
- 30 years running a product data ecosystem akin to the EU DPP system

Role in the pilot

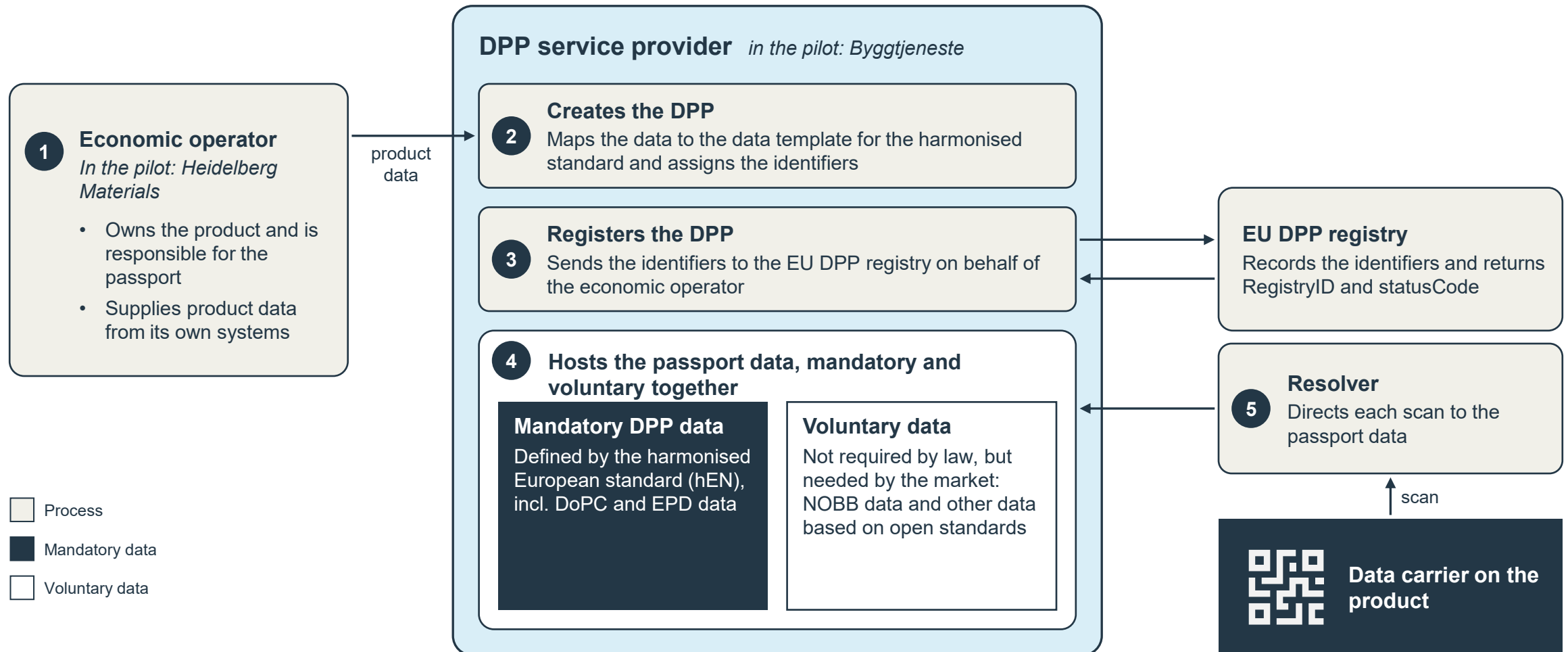
Project management and technical infrastructure for creating the DPP. Future DPP service provider.

No one has the full picture of the complexity an economic operator faces, so we set out to simulate a real DPP in detail



Simulating the creation of a DPP in full detail is the only way to separate desk theory from operational reality

The mandatory passport is only the core: most suppliers will need a DPP service provider to combine it with voluntary data



What we have learned so far from this pilot and a similar one

1

Mature suppliers are well positioned. Others must first build a future-proof foundation.

In a similar pilot with a smaller manufacturer the questions were basic: Do we have all the data points? Which source do they come from? Are they digital and machine-readable?

2

Harmonised standards, data templates and data dictionaries must be flawless and aligned

It takes 55,272 template lines to express 67 data points. Manufacturers ask how to read the new standard, and whether definitions have changed. We need both understanding and governance.

3

The DPP is a steep learning curve for everyone, including the European Commission

Regulatory uncertainty is high, and a robust, user-friendly and cost-effective set-up for stable production of DPP data still has to be proven.

Questions about the DPP? Please reach out to:



Martin Bondkall

Head of Customer, Concept & Standards

Email: martin.bondkall@byggjeneste.no

Phone: +47 970 80 675