

ENVIRONMENTAL DATA

NMD ACADEMY

St. Nationale Milieudatabase

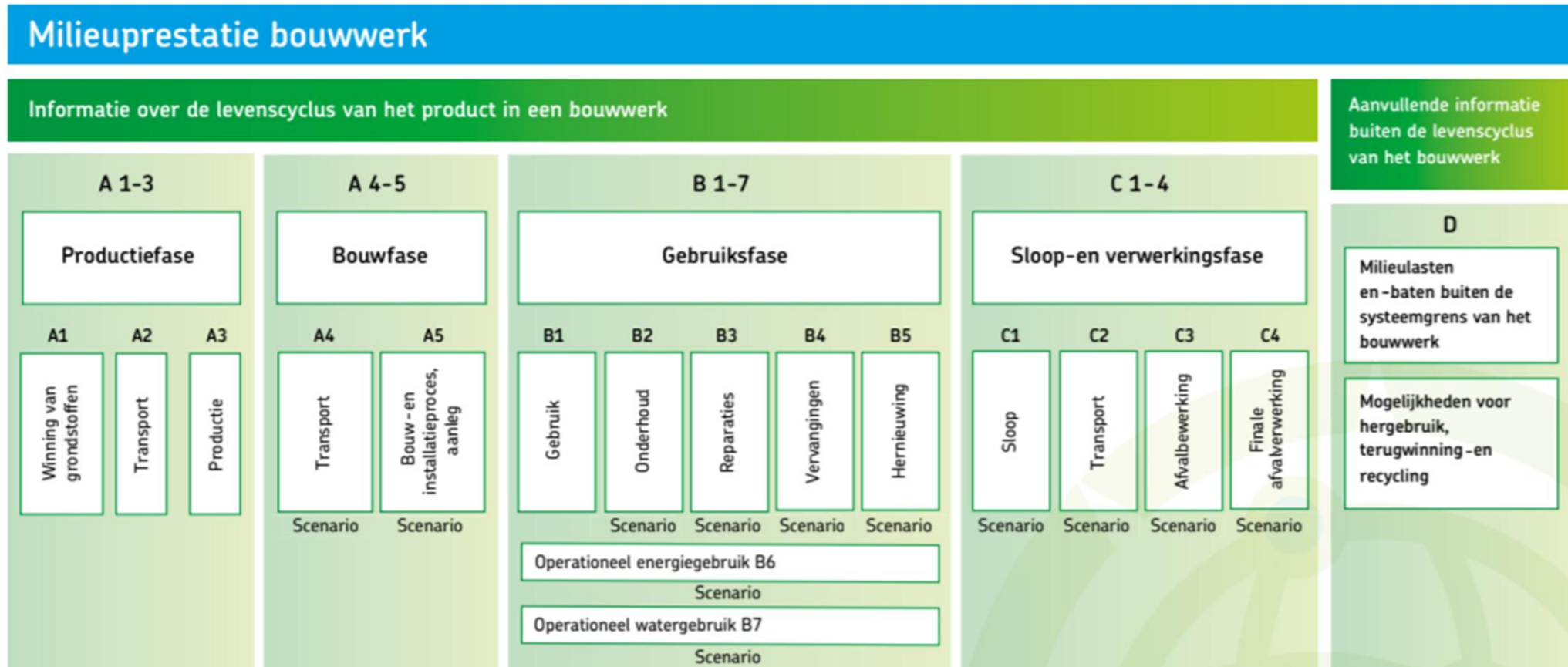


Life Cycle Assessment (LCA)

- Construction products have an impact on the environment throughout the entire life cycle
- A life cycle assessment (LCA) measures this environmental impact

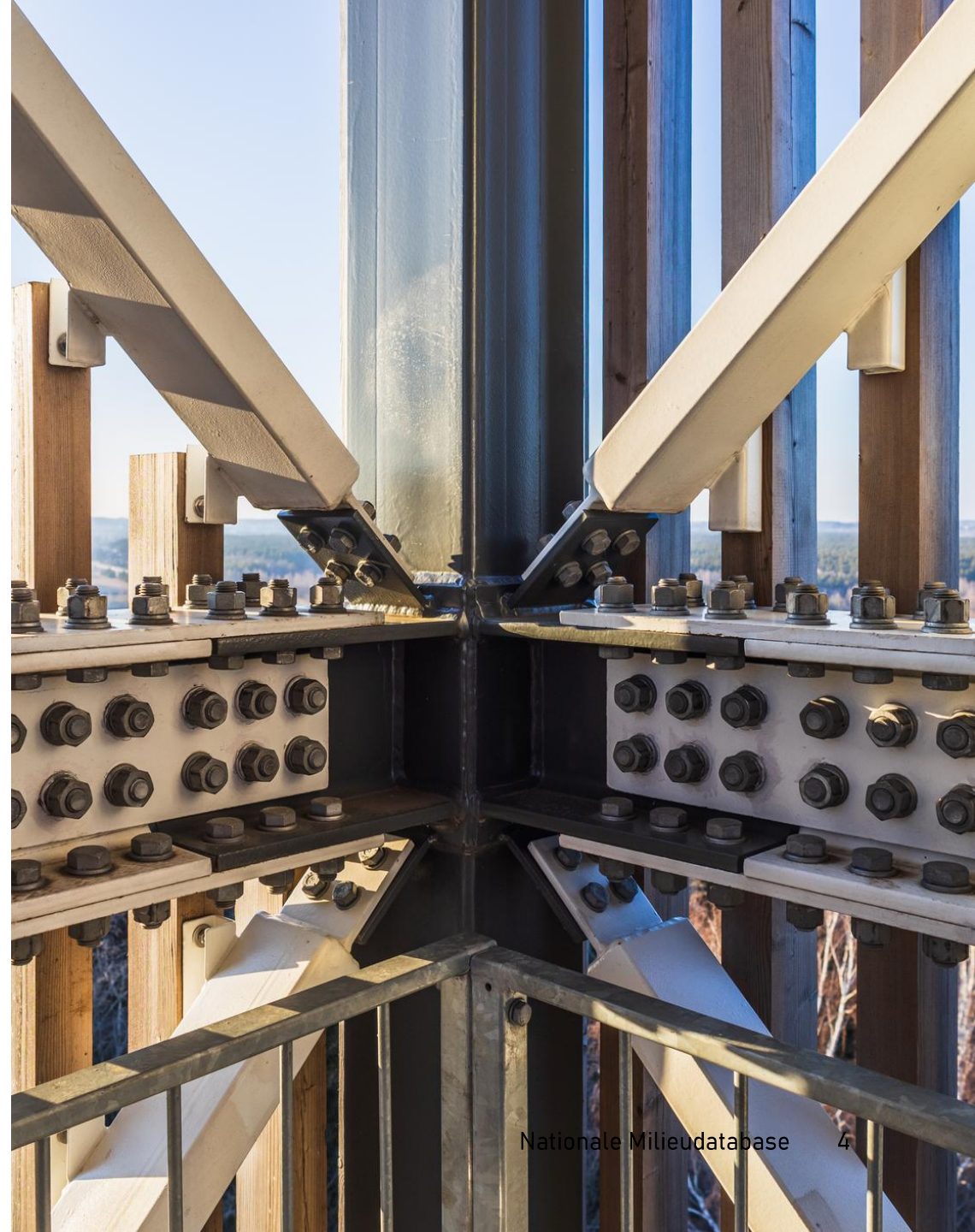


Modules of a life cycle assessment (LCA)



Outcomes LCA = Environmental profile

An LCA therefore measures the environmental impact of a construction product, which is expressed in an environmental profile



Environmental impact categories

- Until 2019, there was only one environmental profile per product, consisting of **11 impact categories (set A1)**
- In 2019, this was expanded with a new set (**set A2**), which contains **19 environmental impact categories**
- Currently, the environmental performance of a construction work is calculated using only the **set of 11 impact categories (set A1)**

Climate change – total	kg CO ₂ -eq.
Climate change – fossil	kg CO ₂ -eq.
Climate change – biogenic	kg CO ₂ -eq.
Climate change – land use and change to land use	kg CO ₂ -eq.
Ozone layer depletion	kg CFC11-eq.
Acidification	mol H ⁺ -eq.
Freshwater eutrophication	kg PO ₄ -eq.
Seawater eutrophication	kg N-eq.
Land eutrophication	mol N-eq.
Photochemical ozone formation	kg NMVOC-eq.
Depletion of abiotic raw materials, minerals, and metals	kg Sb-eq.
Depletion of abiotic raw materials Fossil fuels	MJ, net cal. val.
Water use	m ³ world eq.
Fine particulate emissions	Illness incidence
Ionizing radiation	kBq U235-eq.
Ecotoxicity (freshwater)	CTUe
Human toxicity, carcinogenic	CTUh
Human toxicity, non-carcinogenic	CTUh
Land-use related impact/soil quality	Dimensionless



LCA meets NMD

- The **environmental profile** of the **entire life cycle** is stored as an **environmental declaration** (formerly: product card) in the NMD
- In addition to the environmental profile, environmental declarations also contain **general information** about the product, and important **assumptions made during the LCA**



NMD meets environmental performance

- Environmental declarations are used to calculate the environmental performance of construction works (ECI/MPG)
- The environmental performance is used as a **policy instrument** and tool in making construction projects more sustainable



Environmental data in 2 Databases

- Environmental declarations are registered in the NMD including the impact of the entire life cycle
- Environmental data is registered as processes in the **Processes database** per part of the life cycle
- Environmental data is valid for 5 years, after which it is deactivated





Different types of environmental declarations

Category 1: Reviewed, brand specific data (owned by the manufacturer).

Category 2: Reviewed, industry/sector specific data (owned by the industry).

Category 3: Non brand specific data from Stichting NMD, with a 30% mark up factor.

Category 3a: Non brand specific data from Stichting NMD, specifically focused on energy carriers.

Want to know whether a product has an environmental declaration? Look it up in the [Viewer](#)!

Assessment of cat 1, 2 data

- Data is registered in the database, it is reviewed by a Stichting NMD recognised reviewer
- Assessment of cat 1 and 2 data according to the **Assessment Protocol**
- Assessment of submitted environmental data in accordance with the **Assessment Method**



Versie 1.2 (augustus 2024)

NMD-Toetsingsprotocol Opname data in de Nationale Milieudatabase

Op basis van de Bepalingsmethode
Milieuprestatie Bouwwerken

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Category 3 environmental data

- Generic environmental data managed by Stichting NMD
- Regular updates in collaboration with the market
- Compiled and reviewed according to specific protocols





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