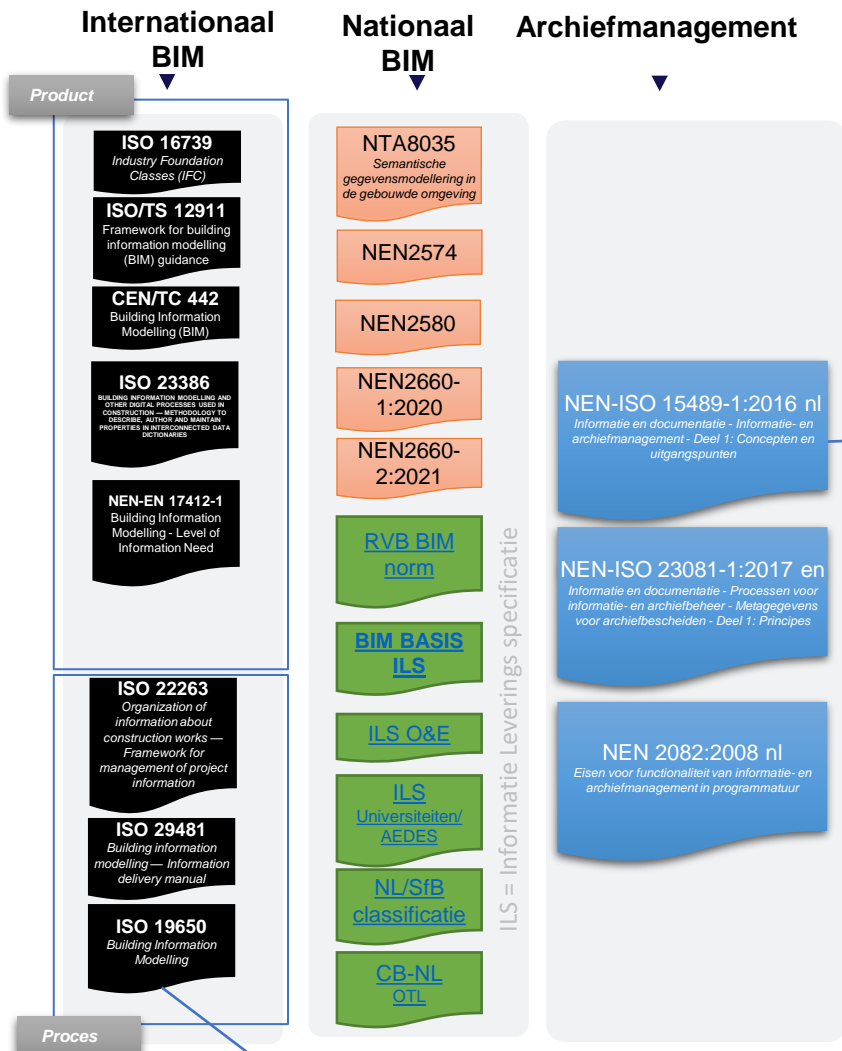


# Standaarden en praktijkrichtlijnen BIM - archiefstukken

*Aangemaakt t.b.v. project:*  
*Initiatiefnemers:*

## Duurzaam Hergebruik van Ruimtelijke Data (3D BIM-modellen)

Gemeente Amsterdam (regie), Waterlands Archief (mede-aanvrager), Stadsarchief Amsterdam, Technische Universiteit Eindhoven, RWTH Aachen University, Universiteit van Amsterdam, Waternet, Picturae, Bvolve en GOBAR.



## Wat betekent archiveren?

<https://www.nationaalarchief.nl/archiveren/kennisbank/wat-betekent-archiveren>

## Duurzaam Toegankelijk (Doel)

<https://www.noraonline.nl/wiki/Duurzaam> Toegankelijk (Doel)

## Duto (eisen)

<https://www.nationaalarchief.nl/archiveren/duto>

## Mara

[https://www.noraonline.nl/wiki/MARA\\_\(Model\\_Architectuur\\_voor\\_Rijks\\_Archiefinstellingen\)](https://www.noraonline.nl/wiki/MARA_(Model_Architectuur_voor_Rijks_Archiefinstellingen))

**Nora**

[https://www.noraonline.nl/wiki/NEN-ISO\\_15489-1](https://www.noraonline.nl/wiki/NEN-ISO_15489-1)

## Tara

<https://www.noraonline.nl/wiki/TARA> (Toegankelijke Archieven Referentie Architectuur)

## Lijst met Open Standaarden – Aanbevolen

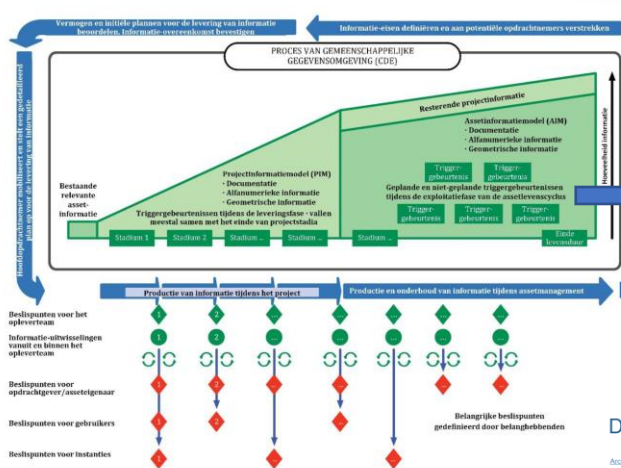
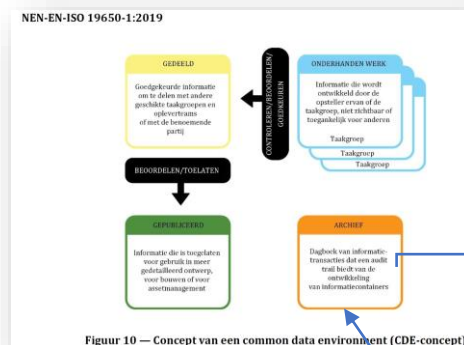
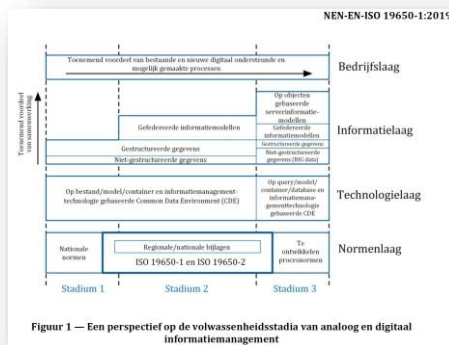
[https://www.noraonline.nl/wiki/Lijst\\_Open\\_Standaarden\\_-\\_Aanbevolen](https://www.noraonline.nl/wiki/Lijst_Open_Standaarden_-_Aanbevolen)

## Gemma - Metagegevens

<https://www.gemmaonline.nl/index.php/Metagegevens>

## Gemma – Overzicht standaarden

[https://www.gemmaonline.nl/index.php/Overzicht\\_standaarden](https://www.gemmaonline.nl/index.php/Overzicht_standaarden)



## BIM project

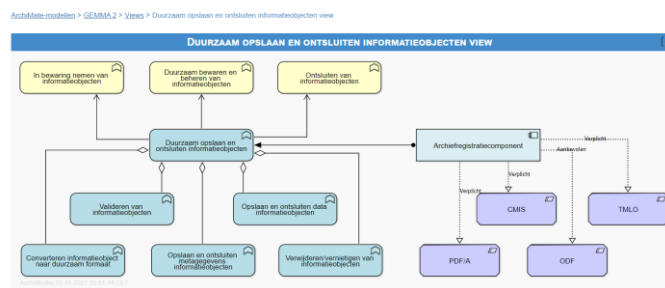


Documentatie

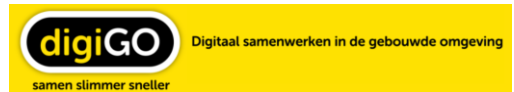
Alfanumerieke  
informatie

Geometrische  
informatie

## Duurzaam opslaan en ontsluiten informatieobjecten view



Advies: Aansluiten bij ontwikkelingen digiGO  
Programma's DSG0 , Leren & veranderen  
[DSGO \(Digitaal Stelsel Gebouwde Omgeving\)](#)



**Figuur 11 — Overzicht en illustratie van het informatiemanagementproces**

**Duurzaam Hergebruik van Ruimtelijke Data (3D BIM-modellen)**  
Gemeente Amsterdam (regie), Waterlands Archief (mede-aanvrager), Stadsarchief Amsterdam,  
Technische Universiteit Eindhoven, RWTH Aachen University, Universiteit van Amsterdam, Waternet, Picturae, Bvolve en GOBAR.

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Building Information  
Modelling"] --> B["ISO 19650  
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Concepts"]; B --> C["ISO 19650  
Guidance Part 2  
Delivery phase"]; B --> D["ISO 19650  
Guidance Part 3  
Operational phase"]; B --> E["ISO 19650  
Guidance Part 4  
(To be confirmed)"]; B --> F["ISO 19650  
Guidance Part 5  
(To be confirmed)"]; C --> G["ISO 19650  
Guidance A  
The information  
management function &  
resources"]; C --> H["ISO 19650  
Guidance B  
Open data,  
buildingSMART  
and COBie"]; D --> I["ISO 19650  
Guidance C  
Facilitating the  
CDE (workflow  
and technical  
solutions)"]; E --> J["ISO 19650  
Guidance D  
Developing  
information  
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Guidance E  
Tendering and  
appointments"]; F --> L["ISO 19650  
Guidance F  
Information  
delivery  
planning"];
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ISO 19650  
Building Information  
Modelling

Proces

ISO 19650  
Guidance Part 1  
Concepts

ISO 19650  
Guidance Part 2  
Delivery phase

ISO 19650  
Guidance Part 3  
Operational phase

ISO 19650  
Guidance Part 4  
(To be confirmed)

ISO 19650  
Guidance Part 5  
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ISO 19650  
Guidance A  
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ISO 19650  
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ISO 19650  
Guidance E  
Tendering and  
appointments



ISO 19650  
Guidance F  
Information  
delivery  
planning



Figure 1: ISO 19650 guidance framework


### ISO 19650 Standards:


 **PART 1 Concepts and principles:** ISO 19650-1 2018 (en) Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling


 [Concepts Guidance \(Edition 2\) from UK BIM Framework](#)

 **PART 2 Delivery phase of the assets:** **ISO 19650-2:2018** (en) Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling  [Delivery Phase Guidance \(Edition 6\) from UK BIM Framework](#)


 **PART 3 Operational phase of the assets:** ISO 19650-3:2020 (en) Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling  **Operational Phase Guidance (Edition 2) from UK BIM Framework**


 **PART 4 Information exchange: ISO/CD 19650-4: UNDER DEVELOPMENT** Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling

 Information Exchange Guidance – NOT YET AVAILABLE


 **PART 5 Security-minded approach to information management: ISO 19650-**

**5:2020** (en) Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) — Information management using building information modelling

 Security Guidance – NOT YET AVAILABLE

 **PART 6 / ISO 19650-6 / PAS 1192-6:2018 Health and Safety: PAS**

**AVAILABLE** (Publicly Available Specification) Specification for collaborative sharing and use of structured Health and Safety information using BIM

 Health + Safety Guidance – NOT YET AVAILABLE

Information management according to BS EN ISO 19650  
Guidance Part 6  
The information management function and resources

Links to Guidance Parts A to F:

Guidance A – Information Management Function – Edition 2

– Guidance B – Open Data and COBie – Edition 1

Guidance C – CDE Workflow and Solutions – Edition 1

Guidance D – Developing Information Requirements – Edition 2

Guidance E – Tendering and Appointments – Edition 2

Guidance F – Information Delivery Planning – Edition 1

Generally, data produced within software can be categorized as proprietary data or open data. Open data can be defined as:

**Open data**  
data available/visible to others and that can be freely used, re-used, re-published and redistributed by anyone<sup>1</sup>

Put simply, the ability to read open data is not restricted while proprietary data is restricted to specific software solutions.

For example, this distinction is significant for archiving purposes because it will affect how to record and store information. Assets, including building and infrastructure works, can be designed and constructed for significant lifespans. There is no guarantee that future software solutions will have the ability to access and interpret proprietary information about these assets. Using open data will resolve this issue.

In reality, open data is more prevalent than might be thought. Examples of file formats that utilize open data, known as open formats, include: HTML, PDF, DOCX, XLSX, PPTX, ODT, ODS, ODP, IFC, PNG, GIF, MP3, CSV, and ZIP.

It is important to establish what is meant by metadata as the ISO 19650 series offers no formal definition. Metadata is defined as "A set of data that describes and gives information about other data" (Oxford Dictionary, 2019).

[illegible]