



College voor Toetsen en Examens

Linked Data ontwikkelingen en IMS standaarden

12 oktober 2017
Utrecht

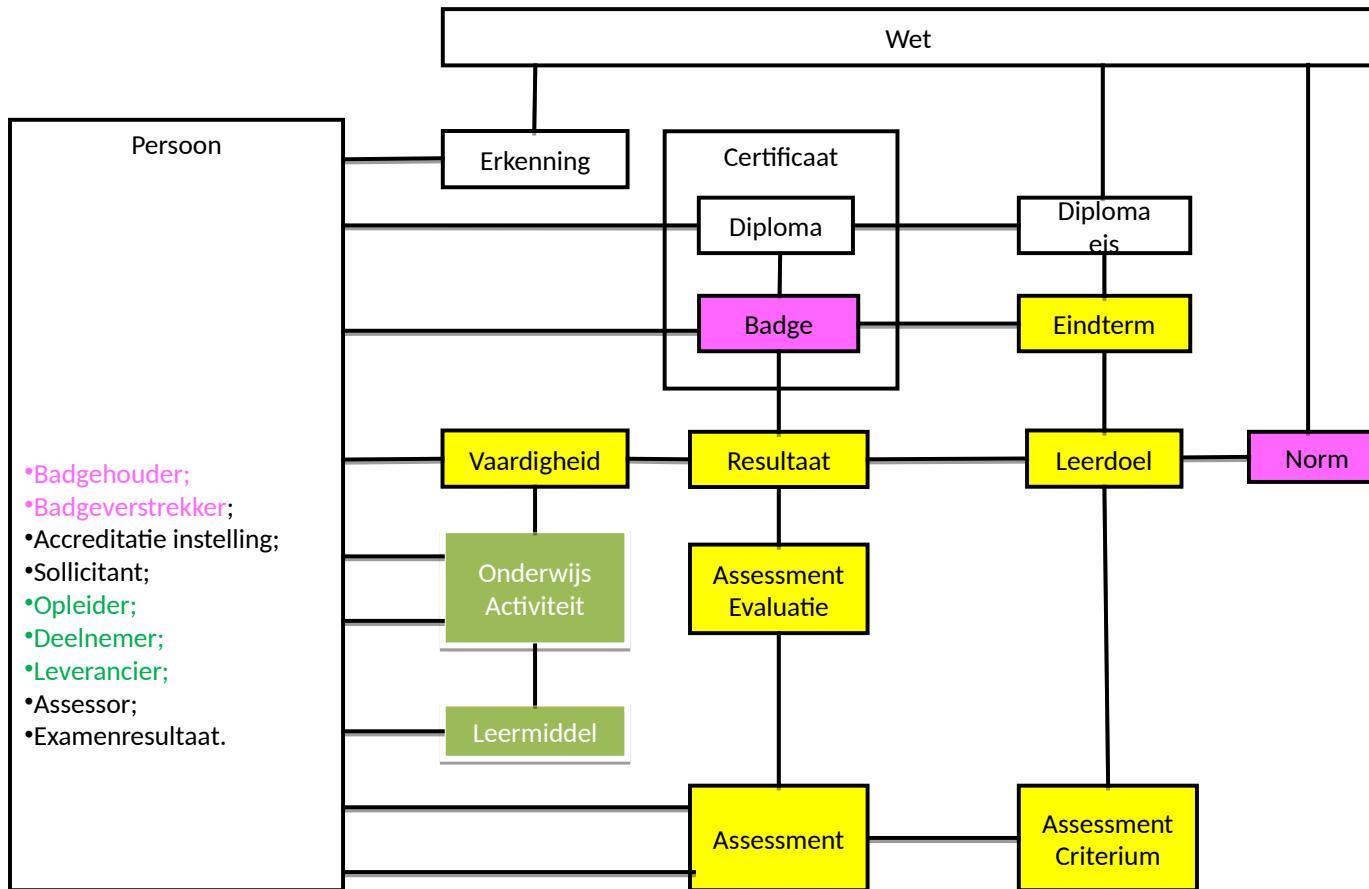


AGENDA

- IMS Aandachtsgebieden
- IMS kijk op datamodellen
- Context
- IMS Standaarden
- Linked Open Data toegepast
- CASE Standaard
 - CASE: Competence Framework
 - CASE: Structure of Rubric
- Open Salt
- IMS standaarden geplot op linked data



LINKED DATA IMS AANDACHTSGEBIEDEN





IMS KIJK OP DATAMODELLEN

Er is geen overkoepelend data model binnen IMS



IMS KIJK OP DATAMODELLEN

... Maar er is wel Kees



IMS KIJK OP DATAMODELLEN

... Maar er is wel ~~Kees~~ CASE

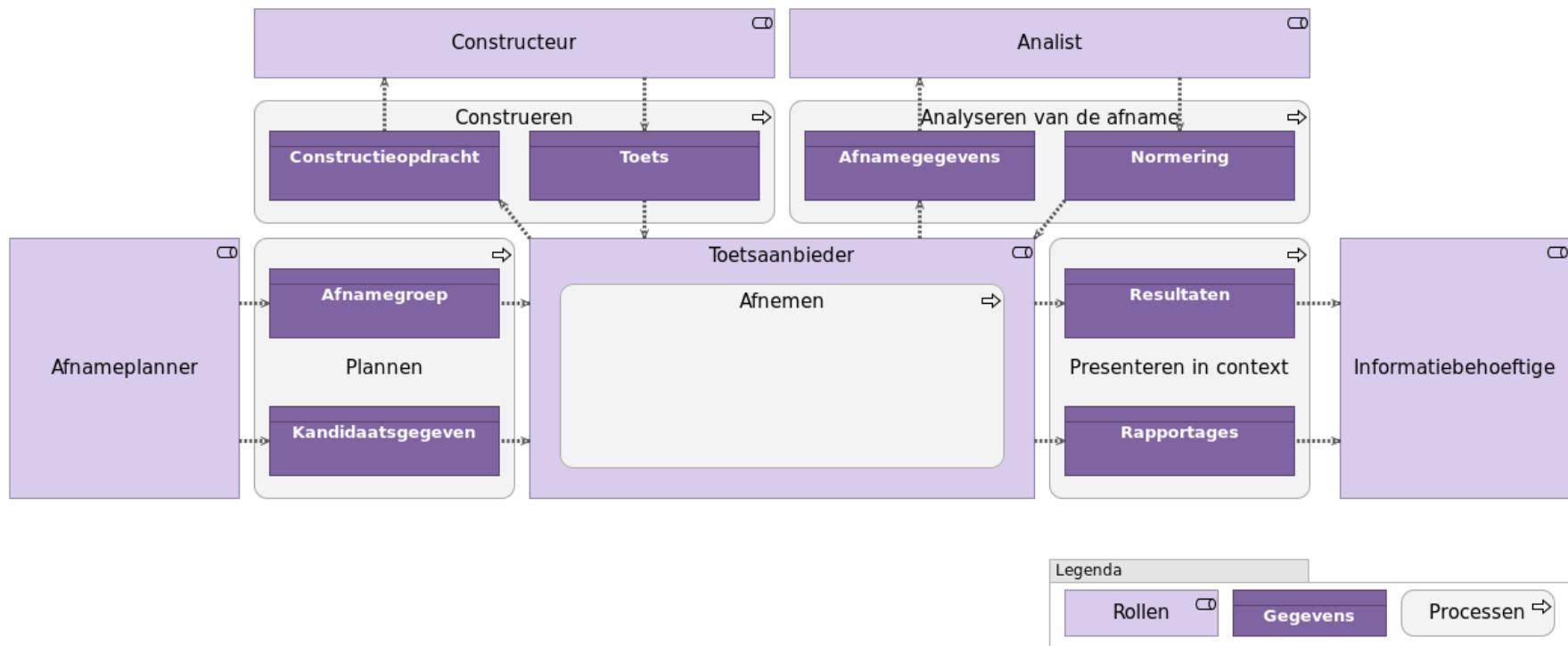


IMS KIJK OP DATAMODELLEN

Competencies and Academic Standards Exchange

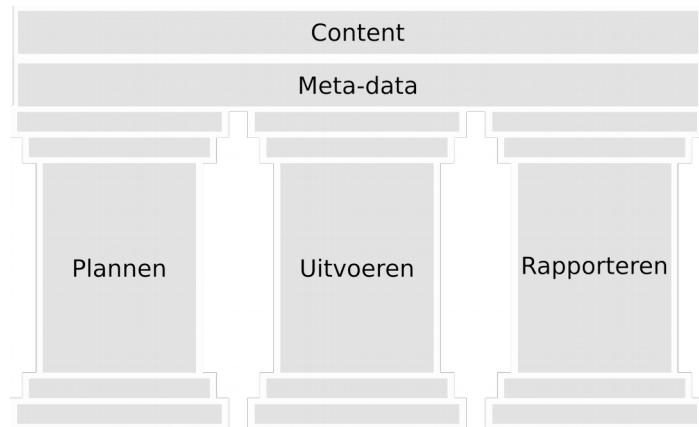
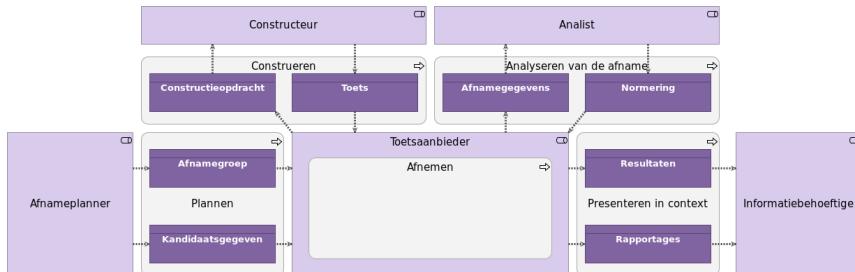


CONTEXT





IMS STANDAARDEN (INTEROPERABILITEIT)

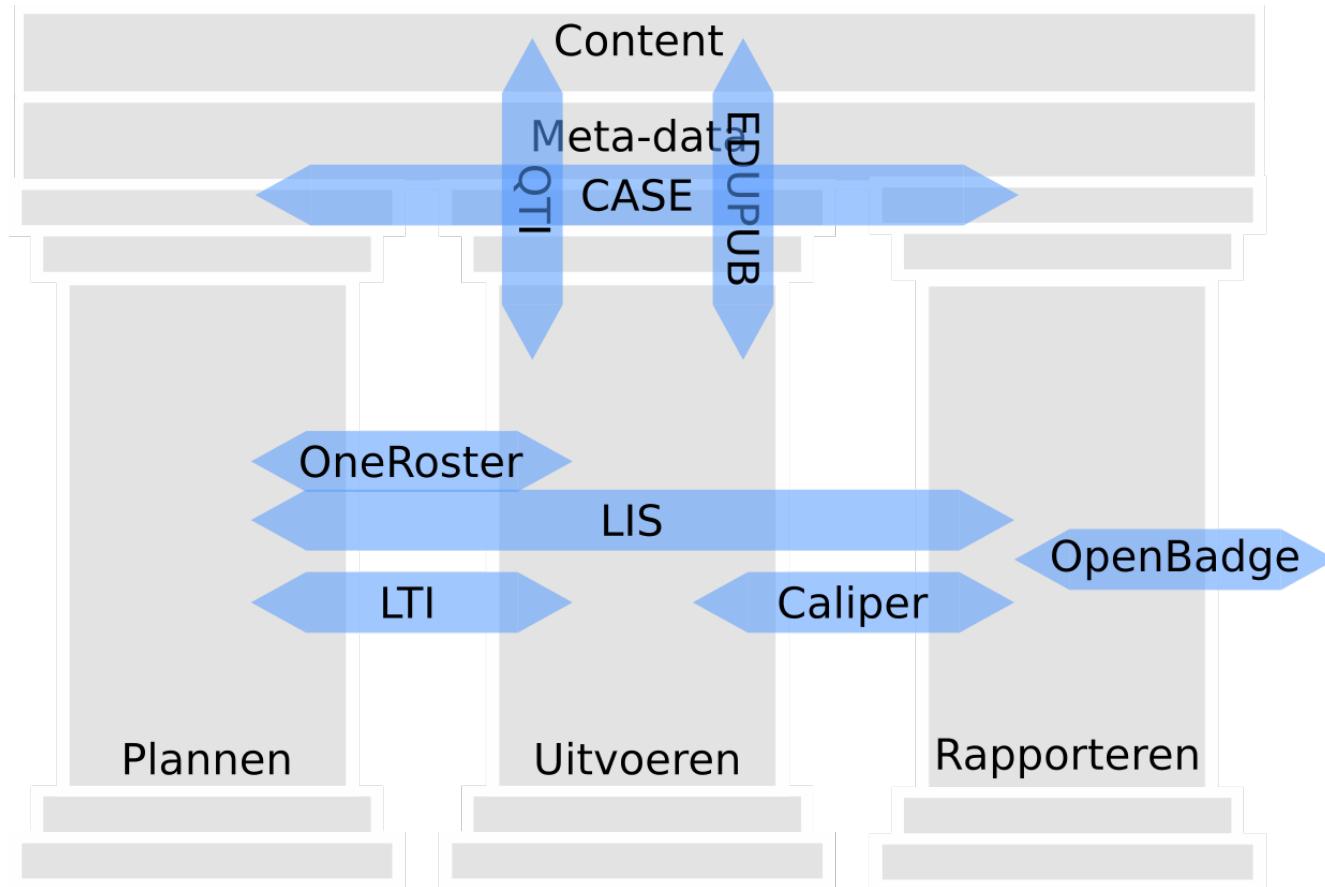


Complex, maar belangrijk voor goede informatie-uitwisseling!

- Focus op Uitwisselingsstandaarden
- Focus op Context
- Focus op Leermiddelen

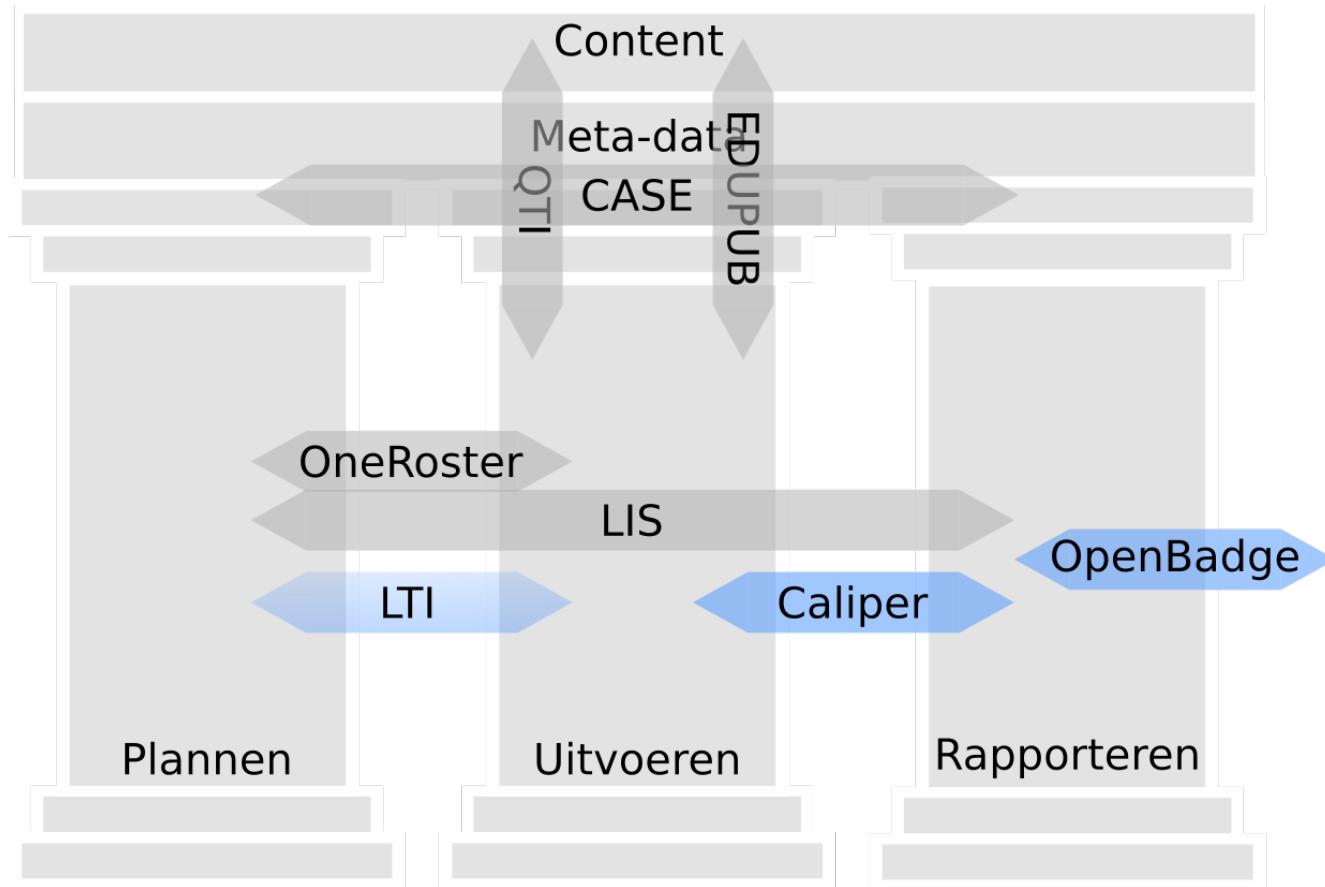


IMS STANDAARDEN



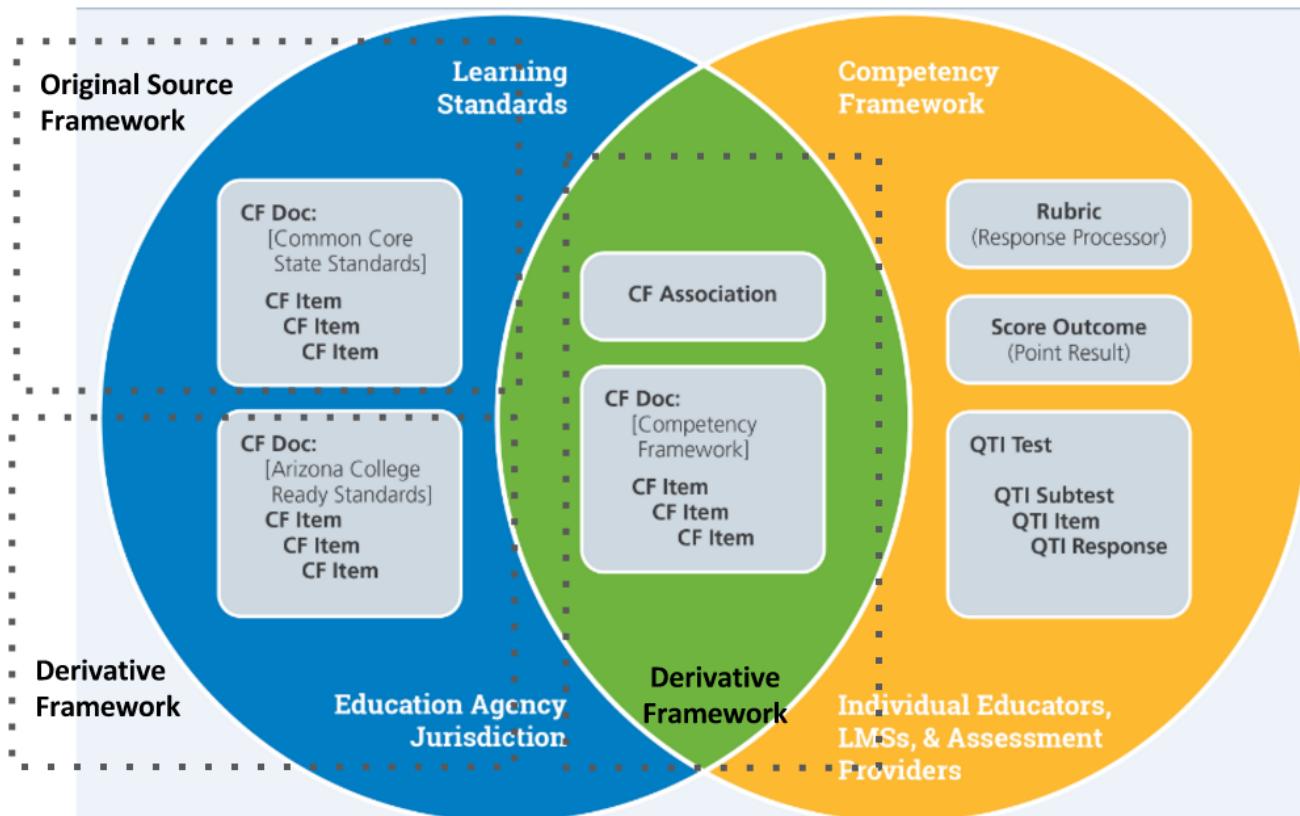


LINKED OPEN DATA TOEGEPAST





CASE STANDAARD





CASE: COMPETENCE FRAMEWORK

CFPackage
CFPDocument
CFItems
CFAssociations
CFDefinition
CFConcepts
CFSSubjects
CFLicenses
CFItemTypes
CFAssociationGroupings
CFRubrics
CFRubricCriteria
CFRubricCriterionLevels

- **CFPackage:** top-level container for the exchange of a single, complete, package of data
- **CFPDocument:** Root for associated academic standards or competency definitions.)
- **CFItems:** Describes the hierarchy of learning objects
- **CFDefinitions:** convert the logical CFDocument/CFItem structures into structures that have educational meaning
- **CFRubric:** a rubric as used in defining an academic standard/competency



CASE: STRUCTURE OF RUBRIC

Criteria	Weight	Levels			
		4 Points	3 Points	2 Points	1 Point
Has a plan for Investigation The student turns in a written plan for investigation.	1	Rubric Criterion Title The plan is thorough	The plan is a few details	Rubric Criterion Level Score Details Limited	
Use of Materials The student manages materials responsibly.	.5	Rubric Criterion Weight Manages all materials responsibly	Uses the materials responsibly most of the time	Mishandles some of the materials	Does not use materials properly
Collects the Data The student collects a sufficient number of data points to support the investigation and accurately records the data points.		Rubric Criterion Description Major portions of the data are missing	Data	Major portions of the data are missing	The data collection consists of a few points



OPEN SALT: IMPLEMENTATIE VAN CASE

The screenshot shows a web-based application interface for the Massachusetts Arts Curriculum Framework. At the top, there's a header with the PCG Education logo and a search bar. Below the header, a sidebar lists various arts disciplines and their sub-topics. The main content area displays a standard detail view for a learning standard: "1.1 Identify and demonstrate basic locomotor and non-locomotor movements". This view includes fields for Full Statement, Education Level, CASE Item URL, and Language. Below the statement, there's a "Linked Data" section with a large blue downward arrow pointing towards the bottom of the page. This arrow is labeled "Linked Data" and points from the standard detail view down to the "About this resource:" section. The "About this resource:" section contains detailed metadata about the standard, including Authority Status, Indexing Status, Education Level, Subject, Standard Label en-US, List Identifier, Description en-US, Local Subject en-US, Is Part Of, and Identifier. At the very bottom of the page, there's a footer with copyright information and links to the National Science Foundation and the Bill & Melinda Gates Foundation.

Standards Alignment Tool (SALT)

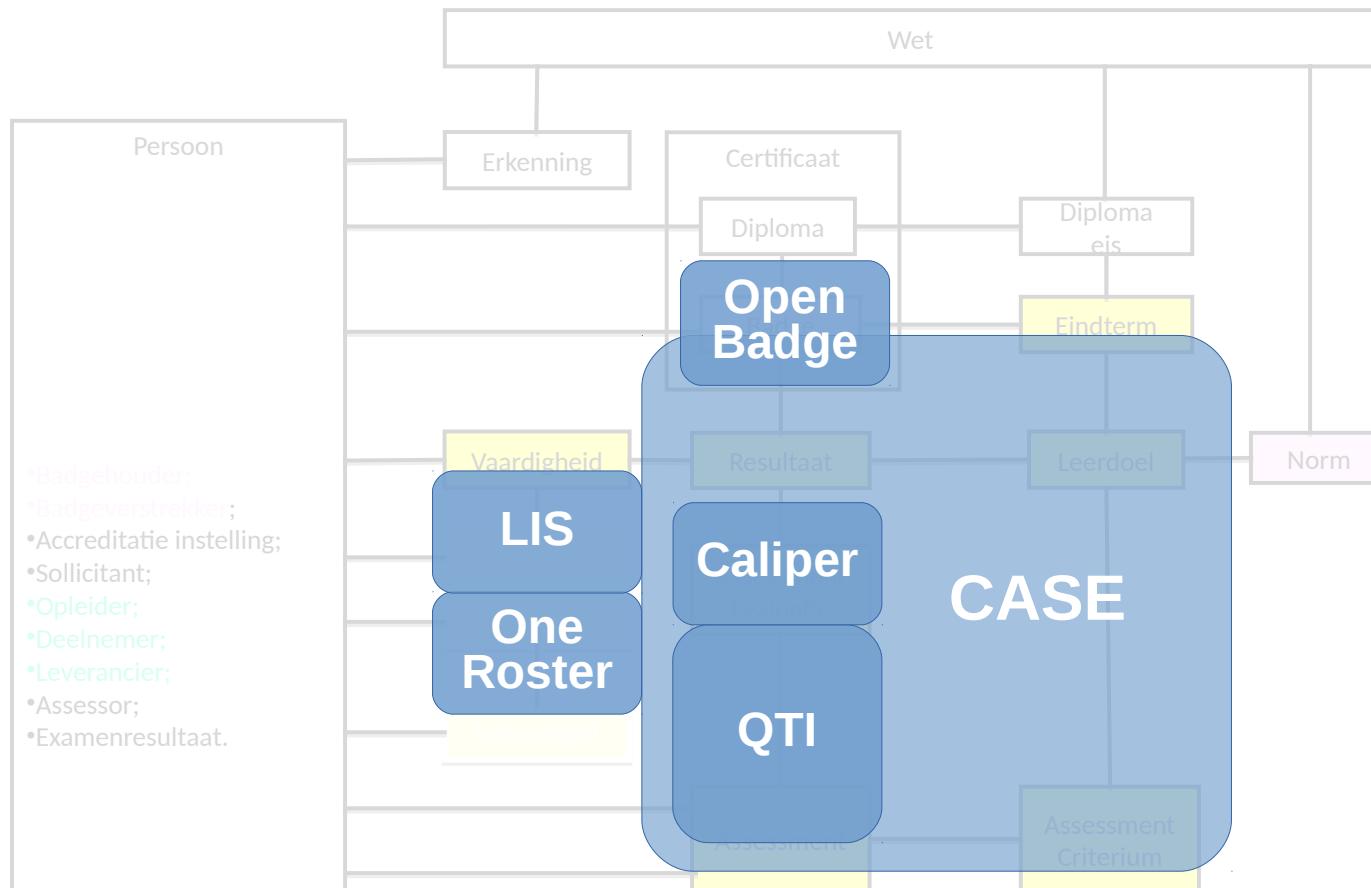
- This is a prototype for testing the IMS Global CASE Specification and proving its use in real-world scenarios based on various proof of concept and pilot projects.

www: <https://www.opensalt.net/>

git: <https://github.com/opensalt/opensalt>



IMS STANDAARDEN GEPLIT OP LINKED DATA





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