

Definition of a Specification

Project History

- Long version – Oct. 2013
 - Defines various types of specifications in terms that might be applied internationally and to various sectors of the construction industry
 - Classification
 - Stage (part of the construction process lifecycle)
 - Method of specification
 - Purpose of issue, both pre- and post-procurement
 - Definition: A specification is a written description of an object or thing. The description might be of the required properties for an object, if it hasn't been procured yet. Or it might be of the delivered and operational properties of an object, after it has been procured and put to use.

Project History

- Short version – Feb. 2015
 - Same as the long version
 - Definition: A written description of an object

Project History

- Mind map – Mar. 2016

Time for a new approach...

...back to basics

Geometry

Requirements (objects) that describe a project:

- Shape/form
- Size/dimension
- Volume
- Relationships
- Physical properties

Non-Geometry

Requirements (data) that describe a project, e.g.:

- Specifications
- Cost
- Product data
- Etc.

Specifications

Non-geometrical requirements that describe the materials and products of a project, focused on:

- Quality
- Workmanship

Specs also address construction procedures

Specifications

Example topics:

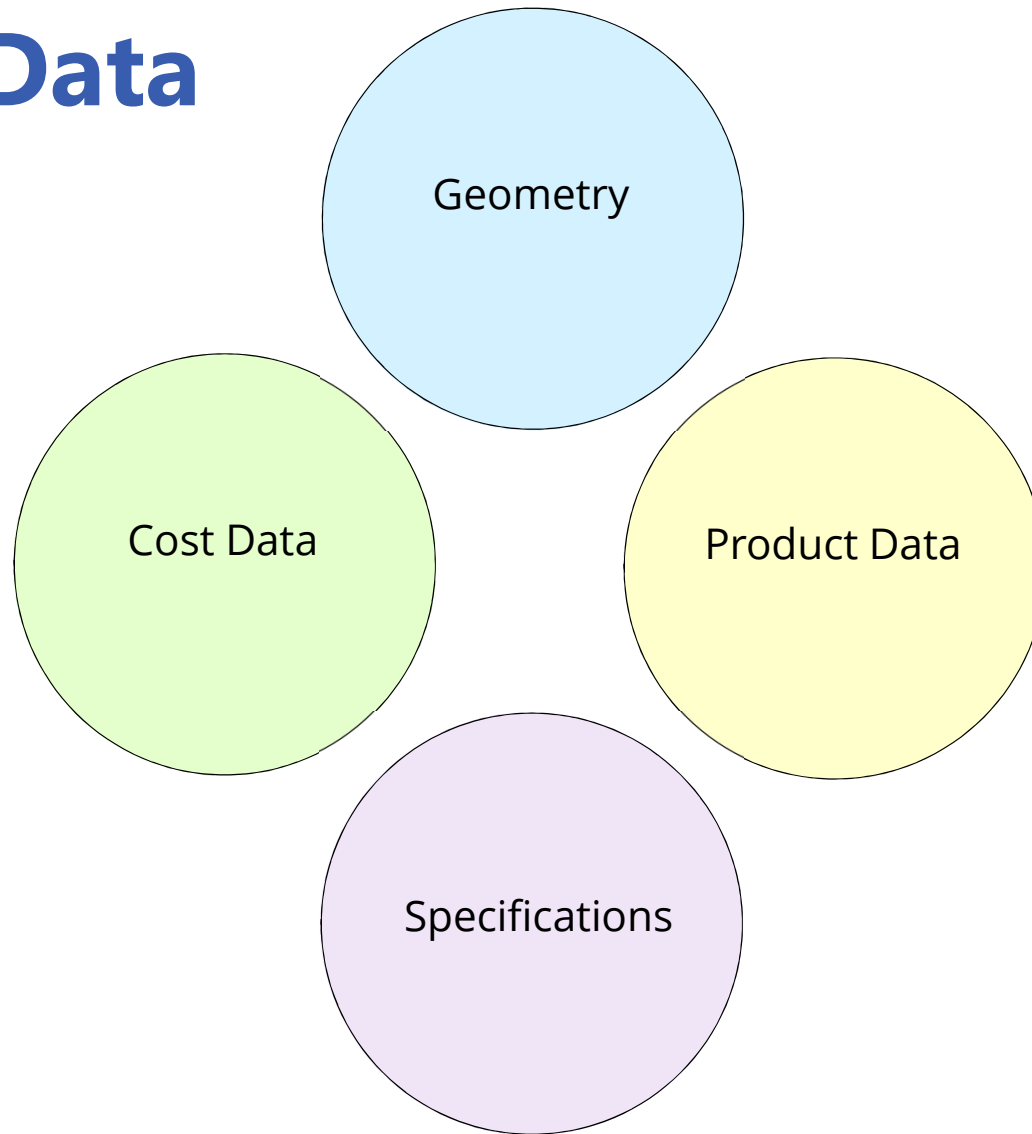
- General descriptions
- Administrative procedures, such as submittals, payments, temporary facilities
- Quality assurance requirements
- Warranty provisions
- Contract provisions, such as extra stock
- Source quality control and field quality control testing requirements
- Scheduling and sequencing requirements
- Installation requirements
- Operational requirements
- Startup provisions

Other Non-Geometry Data

Non-geometrical requirements that describe other aspects of a project:

- Cost data
- Product data
- Schedule/phasing
- Energy
- Security
- Environmental data
- Asset management (operations and maintenance)

Project Data



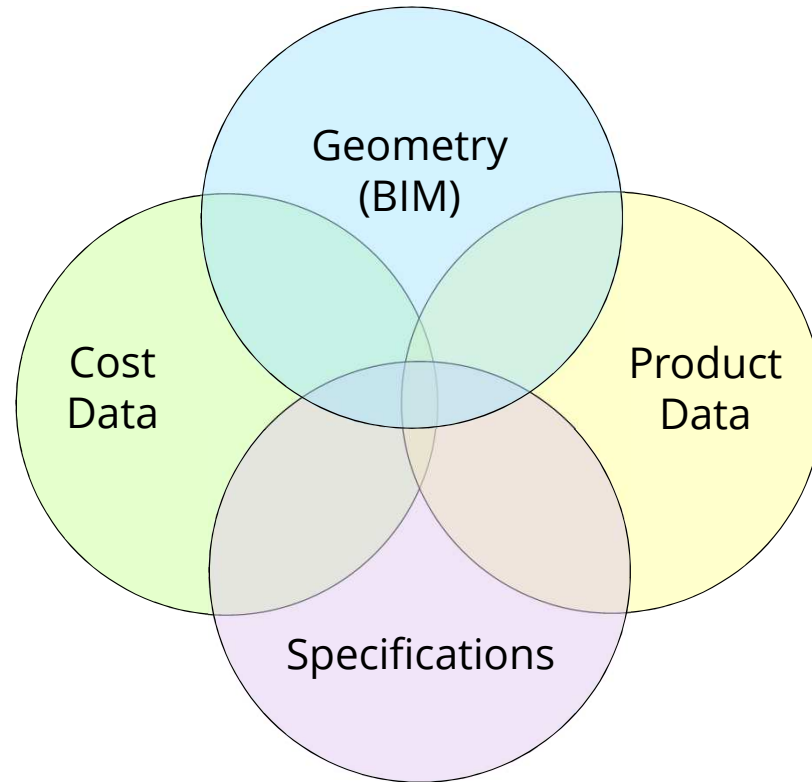
Location of Project Data – Specifications and BIM Project

Design (Compliance) Stage - Data Type	Geometry	Performance Specification	Descriptive Specification
Installation requirements			
Simple elements	X	X	X
Complex Elements	X	X	X
Complex element properties	X	X	X
Constituent products/materials	X	X	X
Constituent material properties			X
Spaces			
Dimensions and space properties	X	X	

Location of Project Data

	BIM	Specification	Either
Shape	X		
Workmanship		X	
Property			X

Location of Project Data



Discussion