

# IDM General Overview

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# Deployment Challenges

- What motivates someone to ask for/deliver a BIM/IFC ?
- How can BIM requirements be specified and validated?
- Does it make any sense to certify a IFC compliant “electrical short circuit calculation software” for it’s ability to handle and display round wall’s in 3D ?
- How can we be sure that “IFC compliant software” to be used for a business process can use and deliver information in IFC ?
- Can delivery of information be put into contracts for business processes ?
- How can users of software make sure they deliver what is requested, without a detailed understanding of BIM and IFC?

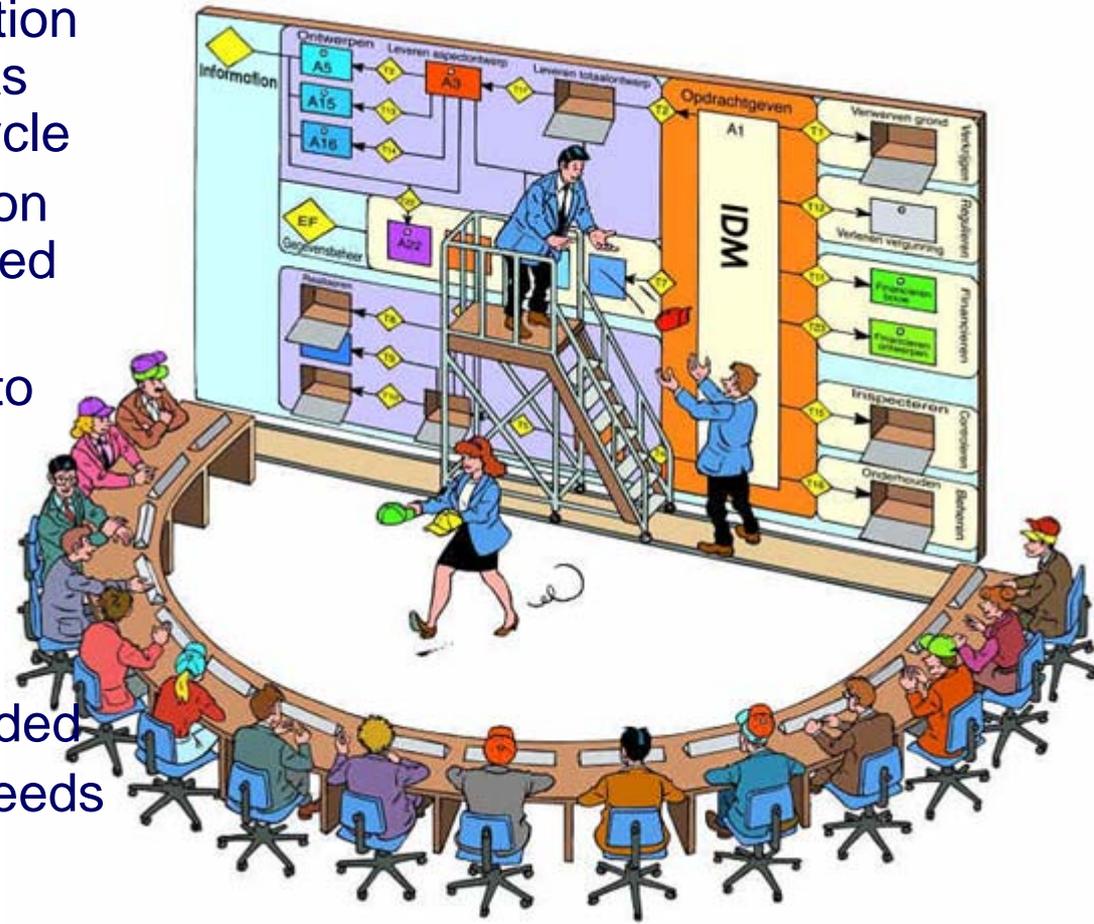
# Current Business Info Exchange Process

- You can't automate what you don't understand
  - Each day information is exchanged by teams, but in different ways and with different content for the same purpose.
  - Based upon a paper-centric process, email, phone, RFI's
- This isn't a process which can take advantage of BIM and automation.



# IDM – Information Delivery Manual

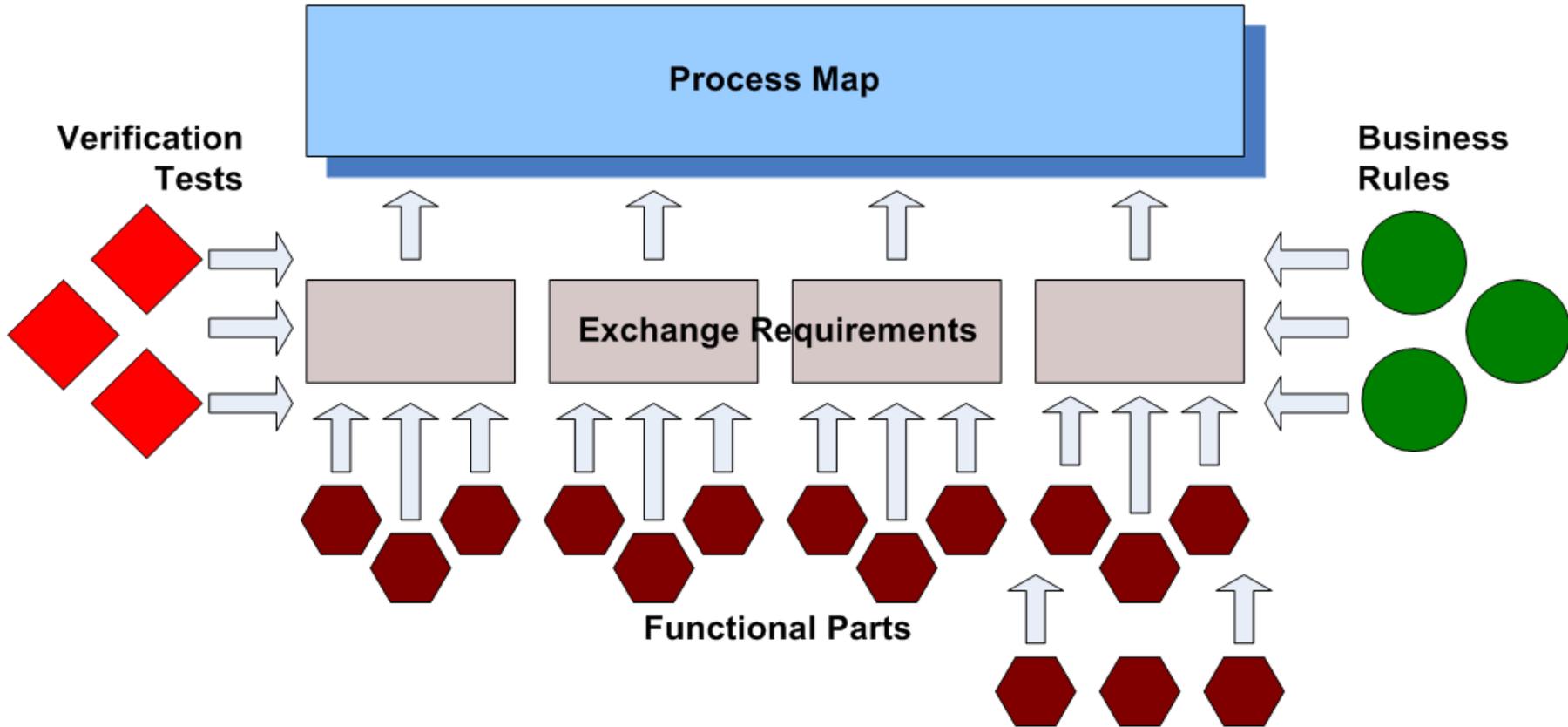
- Requirement & Goal
  - Standardize on information needed for specific tasks within the building lifecycle
  - Development based upon open data standards used by all
  - Provides requirements to software companies
- To improve the construction process:
  - Information must be available when it is needed
  - Quality of information needs to be appropriate



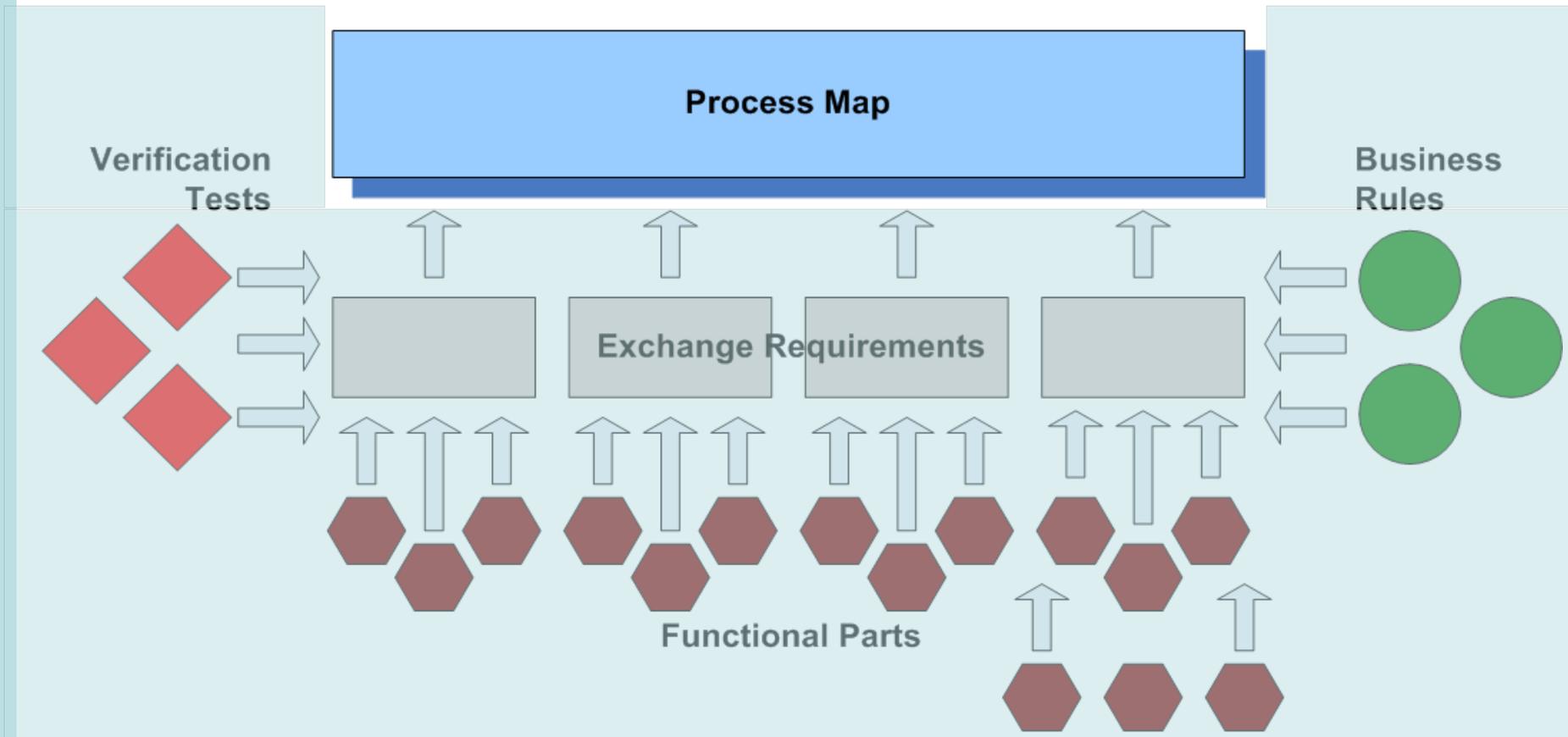
# IDM

- IDM targets both BIM users and solution providers
- For BIM users
  - simple to understand, plain language description of building construction processes
  - requirements for information to be provided
  - additional information that may need to be provided by the user
- For BIM solution providers
  - identify and describe the detailed functional breakdown of the process
  - describe IFC capabilities needing to be supported for each functional part in terms of the entities, attributes, property sets and properties required

# IDM Components

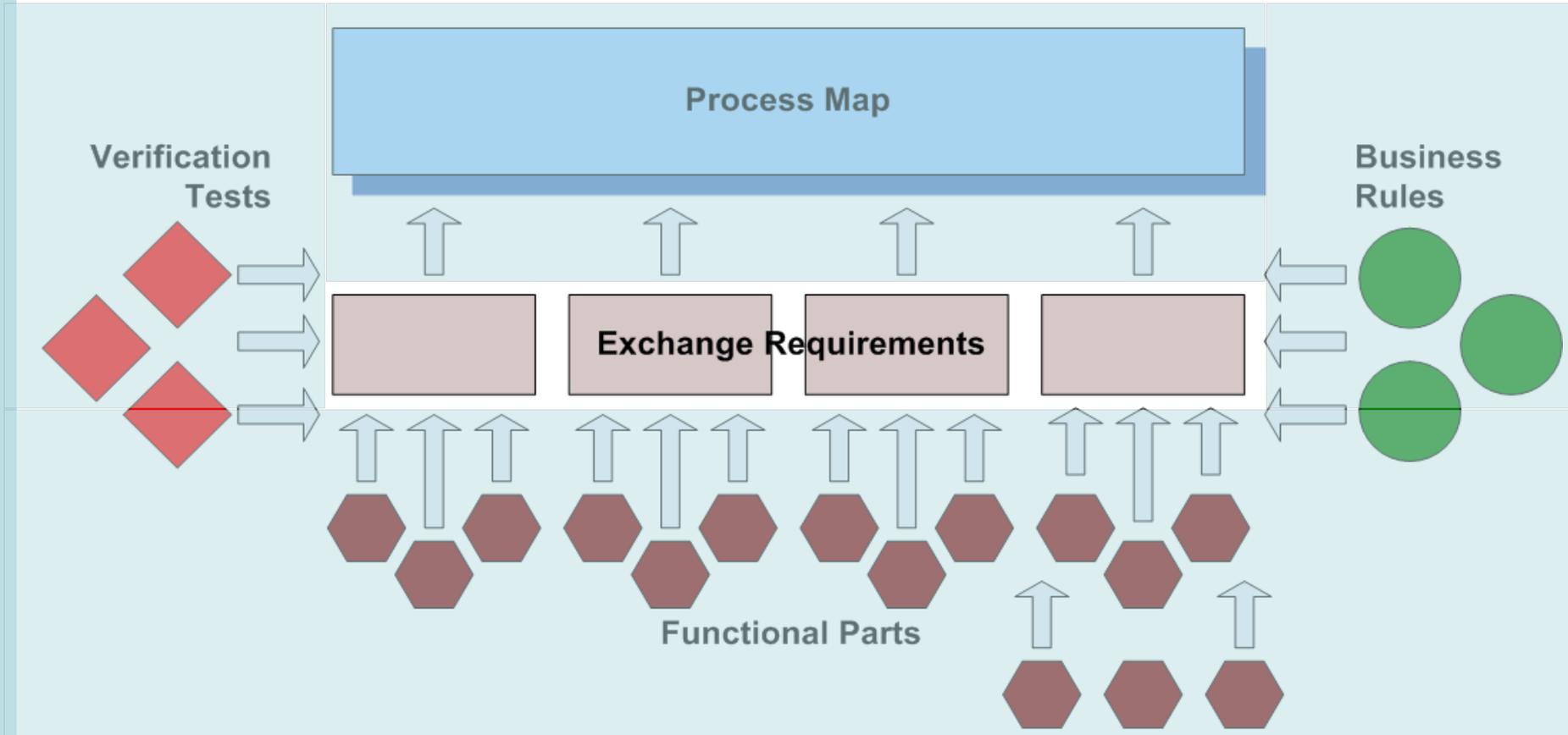


# Process Map



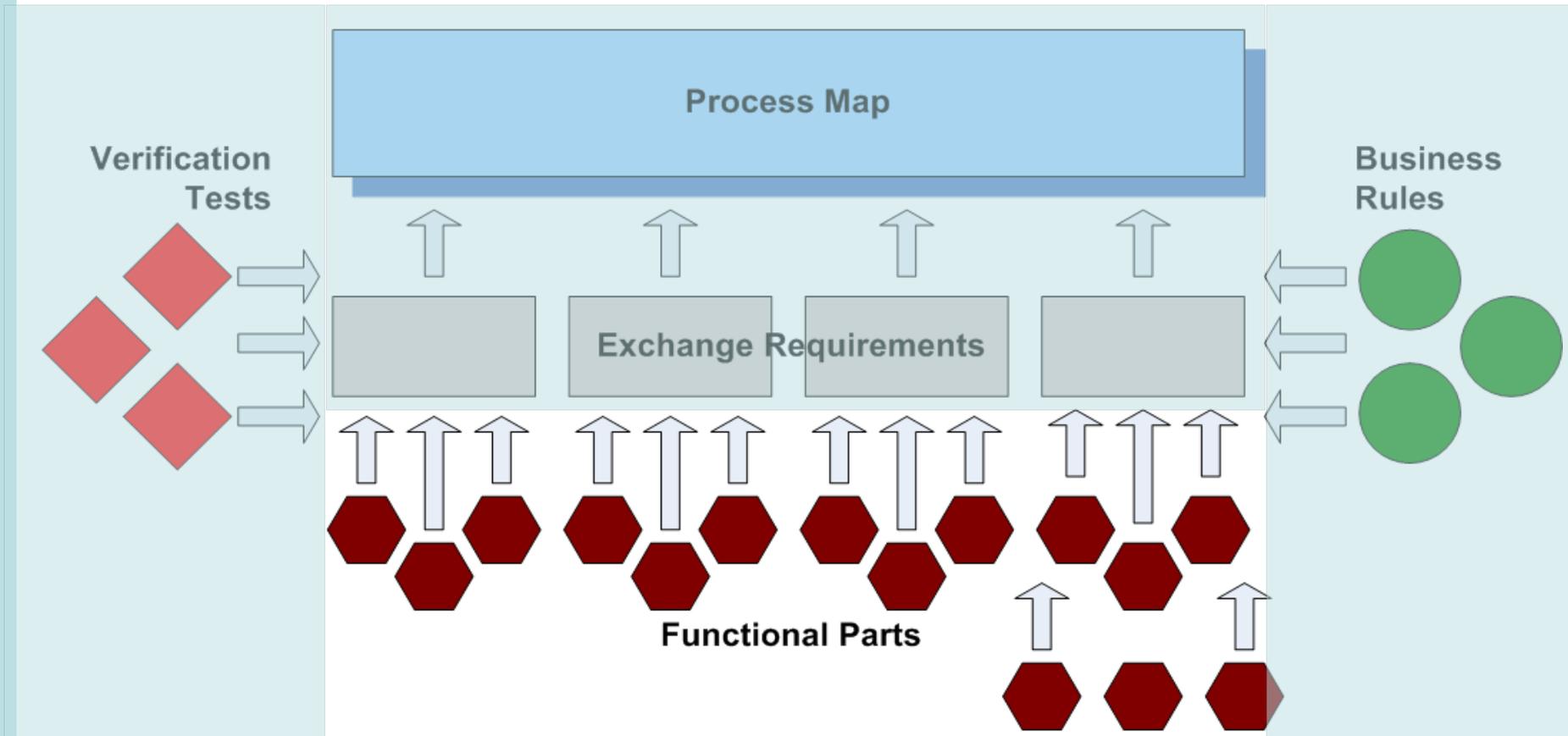
- describes the flow of activities for a particular business process.
- enables understanding of the configuration of activities that make it work, the actors involved, the information required, consumed and produced.

# Exchange Requirement



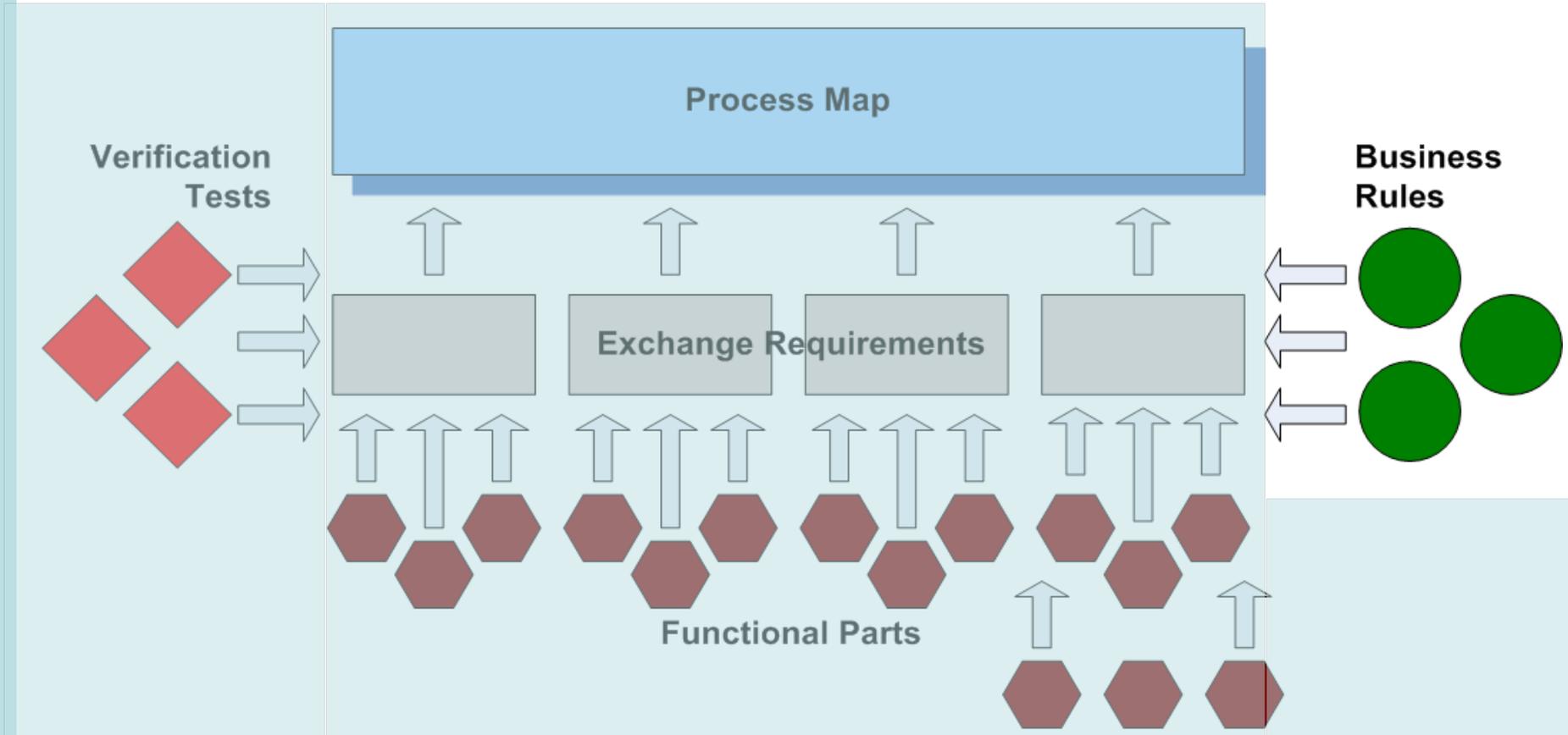
- A set of information that needs to be exchanged to support a particular business requirement at a particular stage of a project
- provides a description of the information in non technical terms

# Functional Part



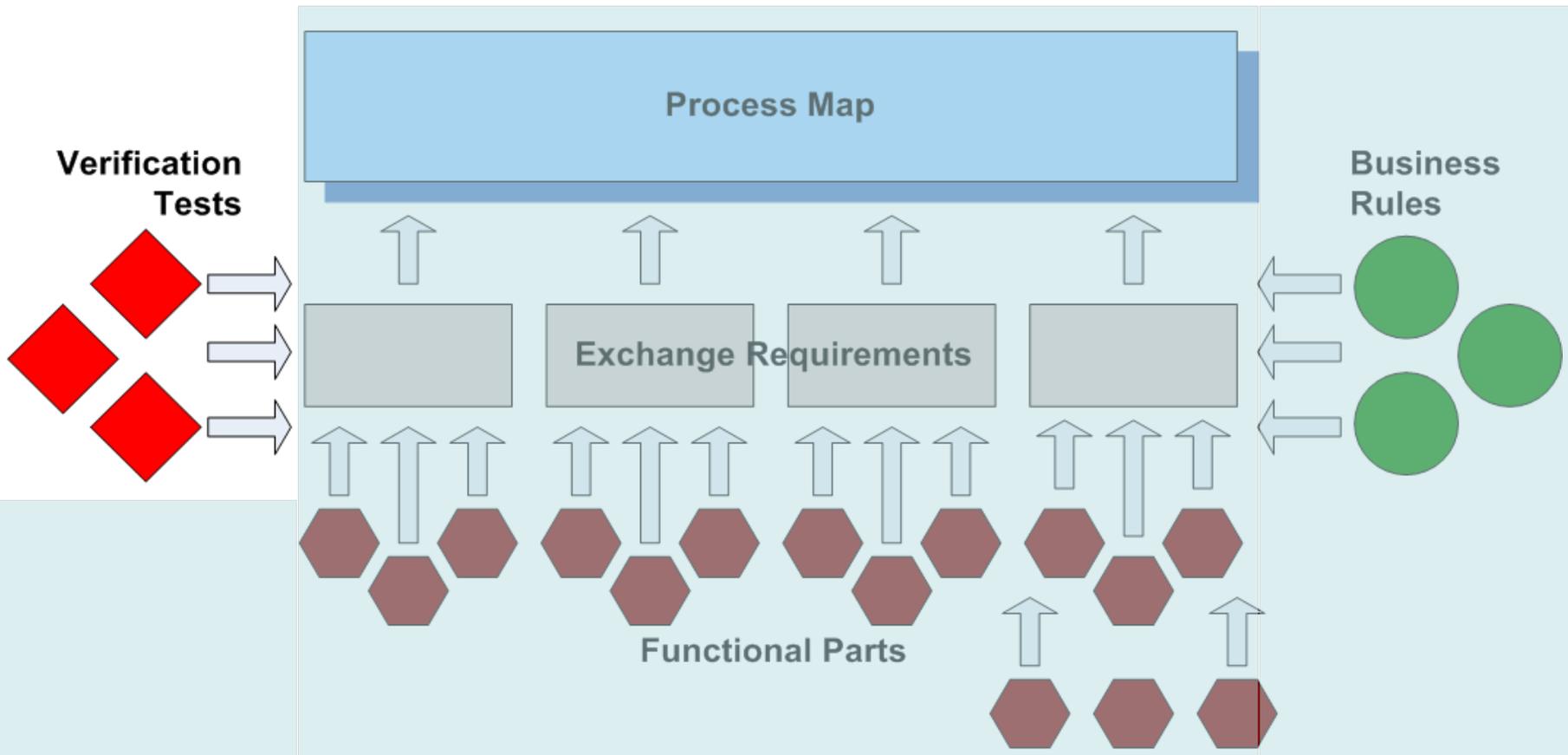
- A unit of information, or a single information idea, used by solution providers to support an exchange requirement
- A functional part is a complete schema in its own right as well as being a subset of the full standard on which it is based

# Business Rules



- Constraints that may be applied to a set of data used within a particular process
- Used to vary the result of using a schema without having to change the schema itself e.g. localizing an international standard

# Verification Tests



- Testing software to verify the accuracy of their support for exchange requirements

# Software Guidance



- Guidance provided by solution providers that describes how a software application meets the business needs expressed by an exchange requirement.
- May also include guidance on how to use the software in the circumstance of the exchange requirement
- May also describe how the results are presented and applied.

# Developing the BIM Value-Chain

