Development of Information Delivery Controlling Tool based on Process Modelling

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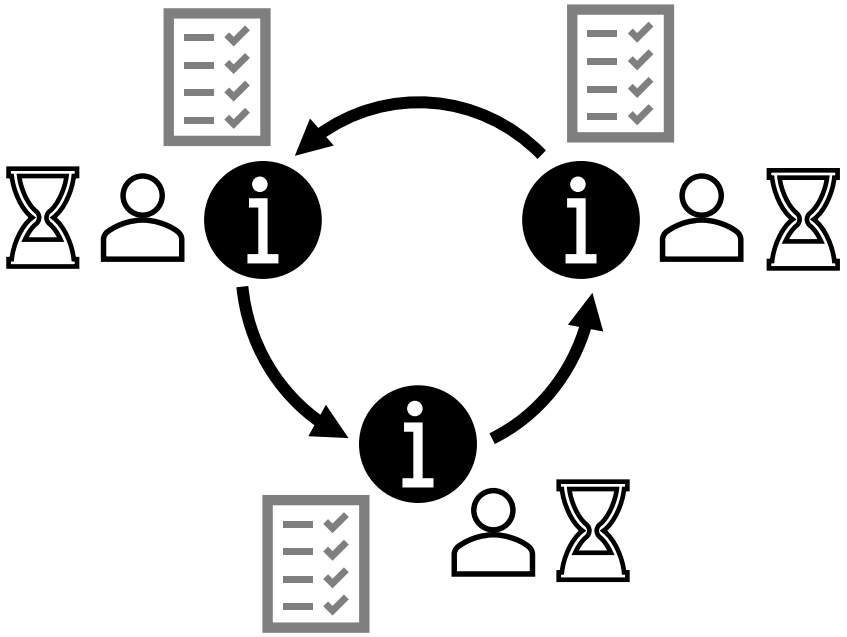
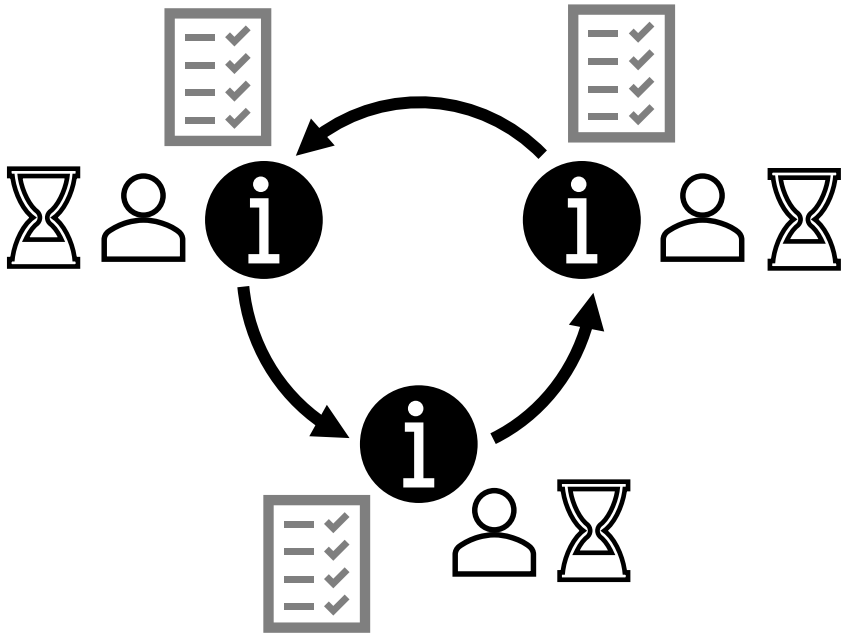
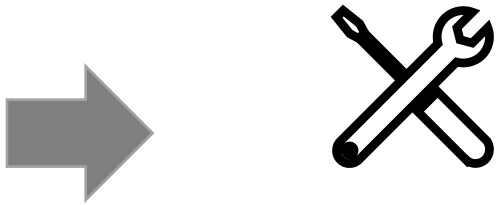
Research Motivation



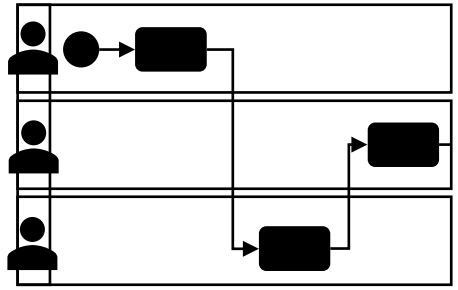
- **WHO, WHAT, WHEN working process**

Research Motivation

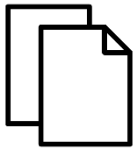




Tool for process related model checking



Working process of project participants



exchange requirements at each stage

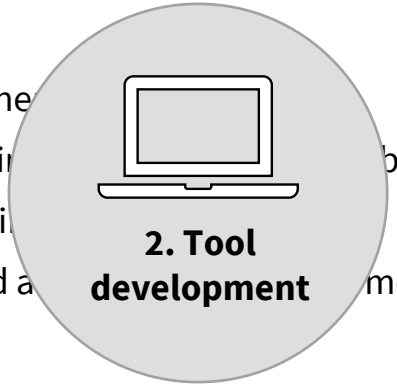
Methodology

1. Workshop

- Practitione
- Nominati
- Consideri
- Classified a

ble tool functions

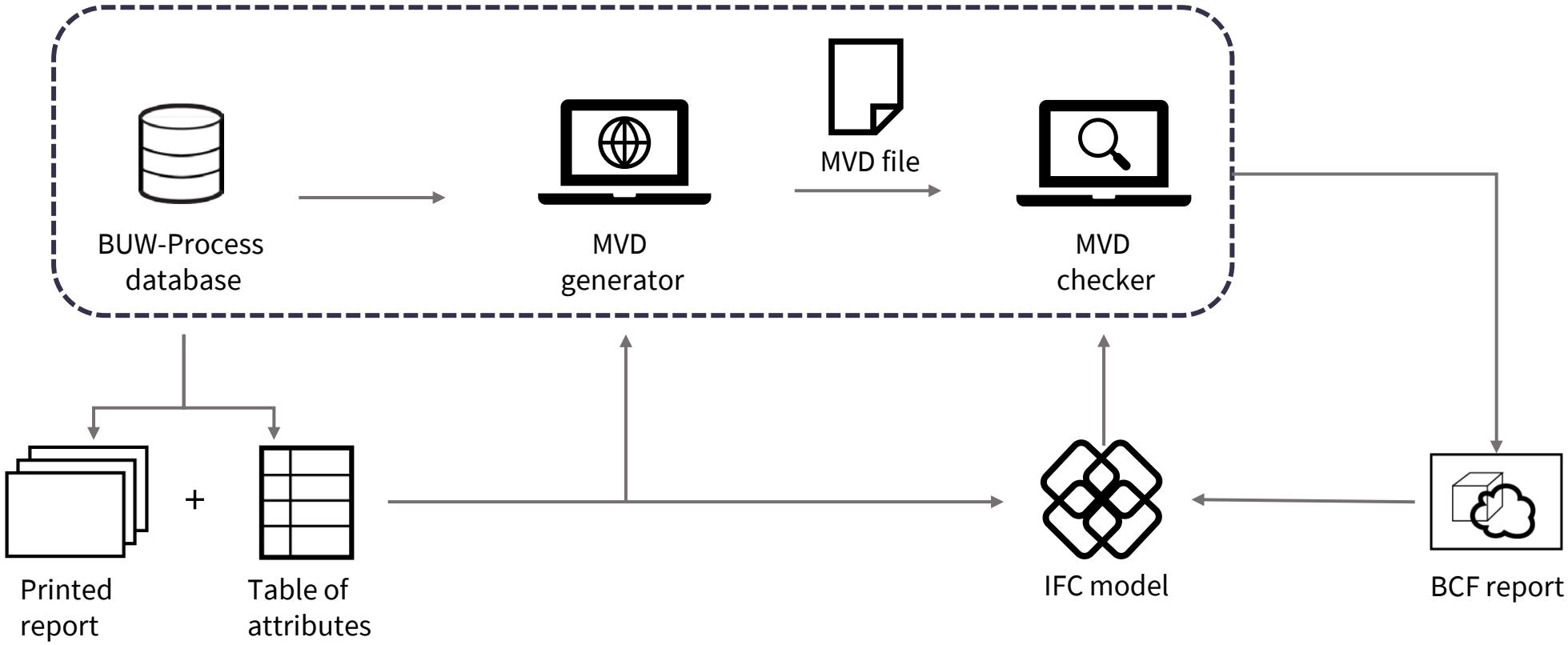
method



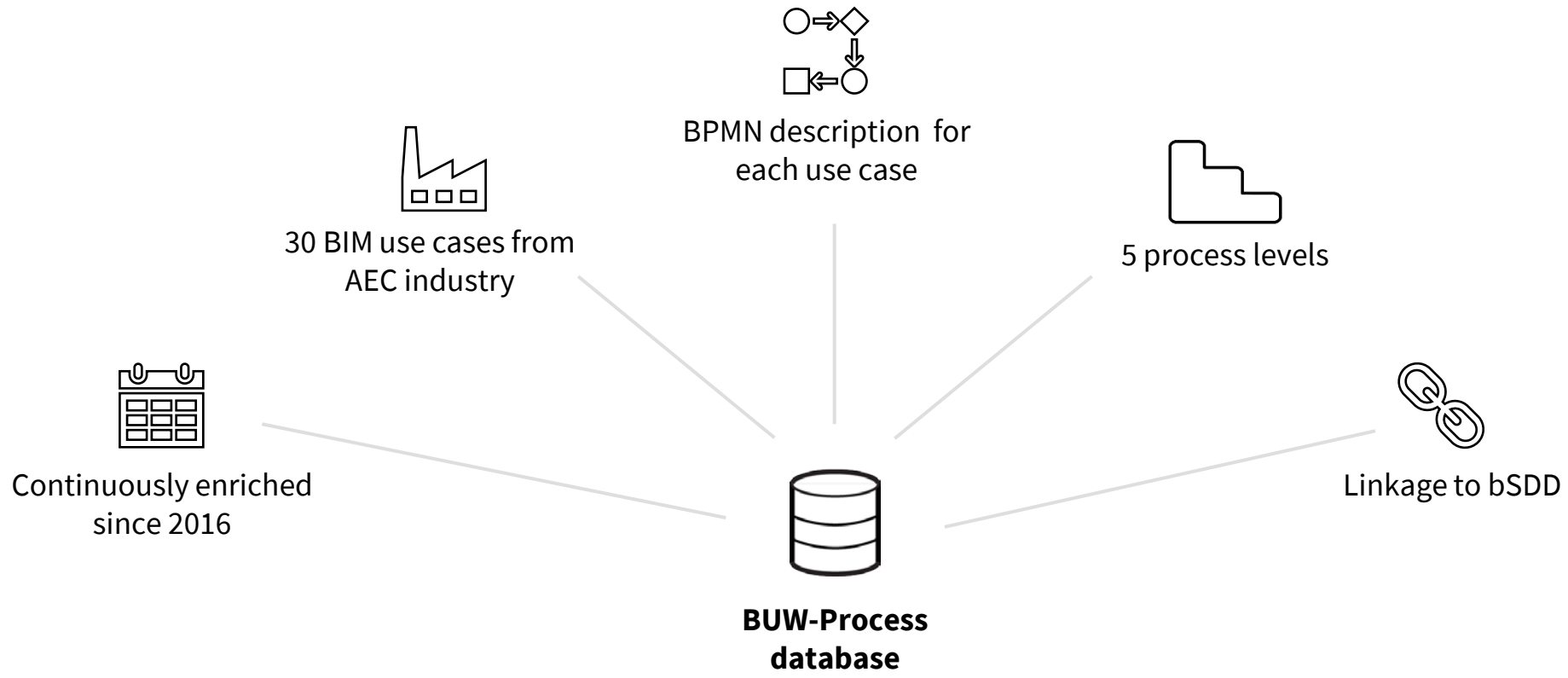
2. Tool development

Methodology

- ILC System

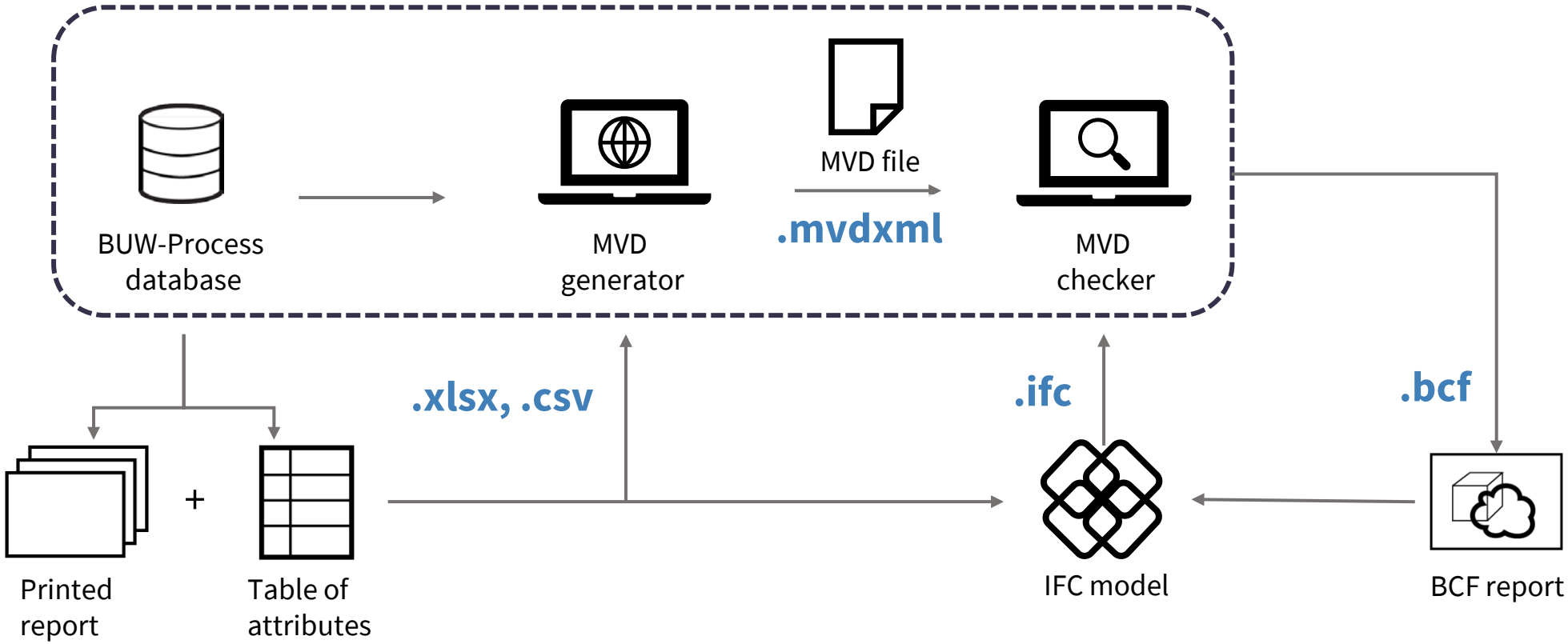


Methodology



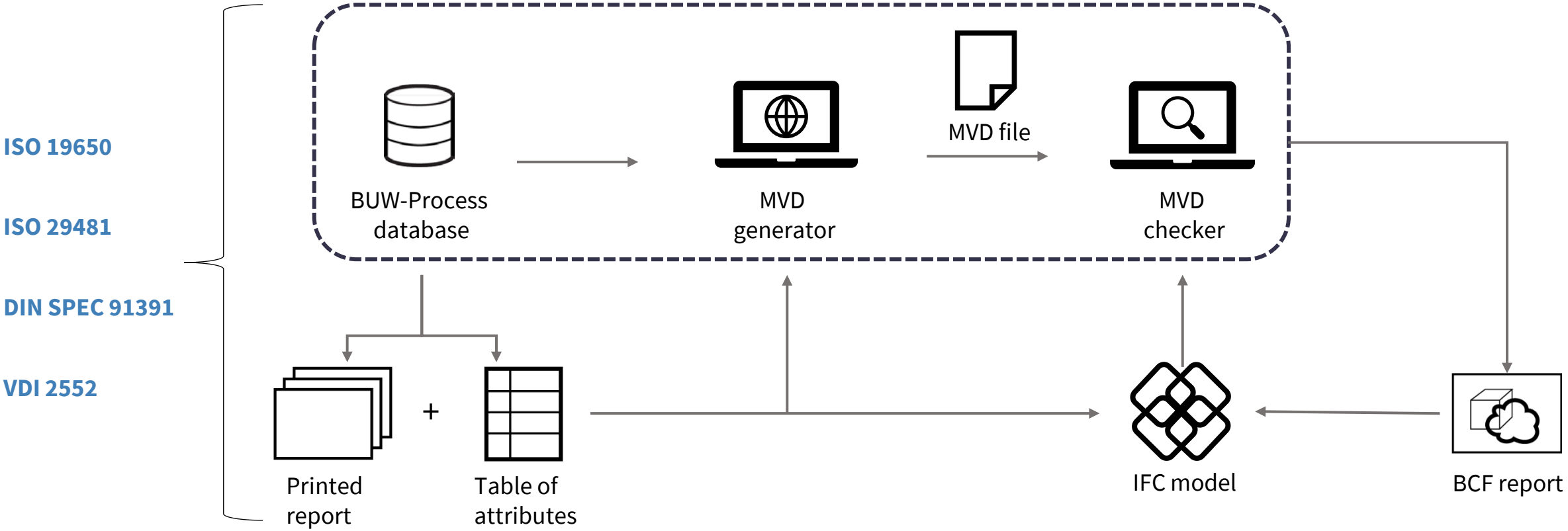
Methodology

- ILC system

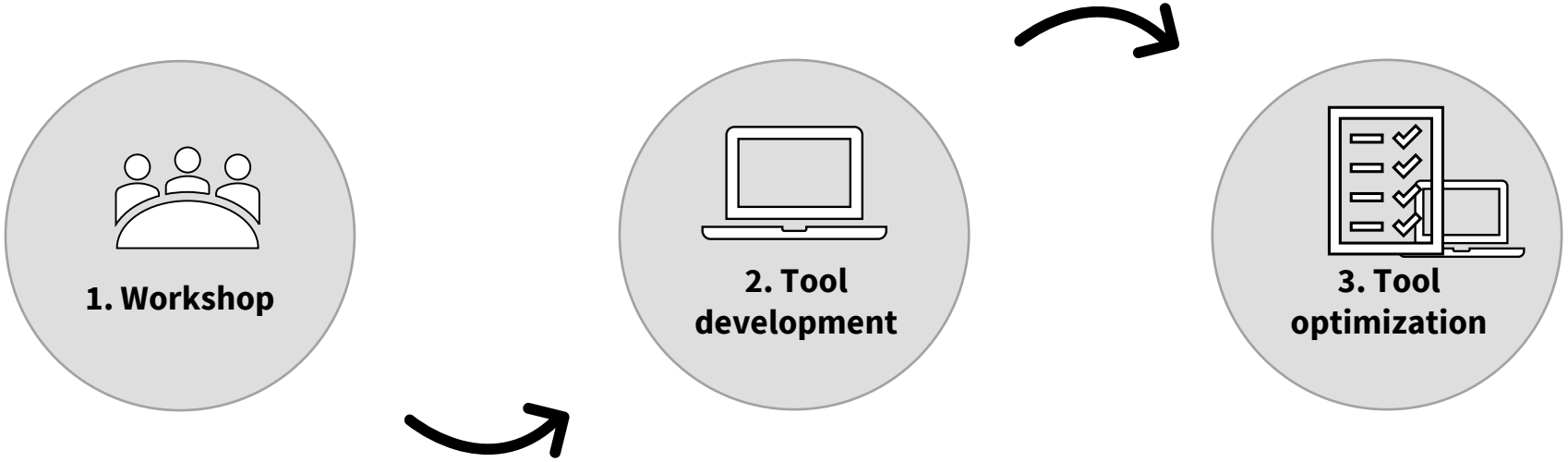


Methodology

- ILC system



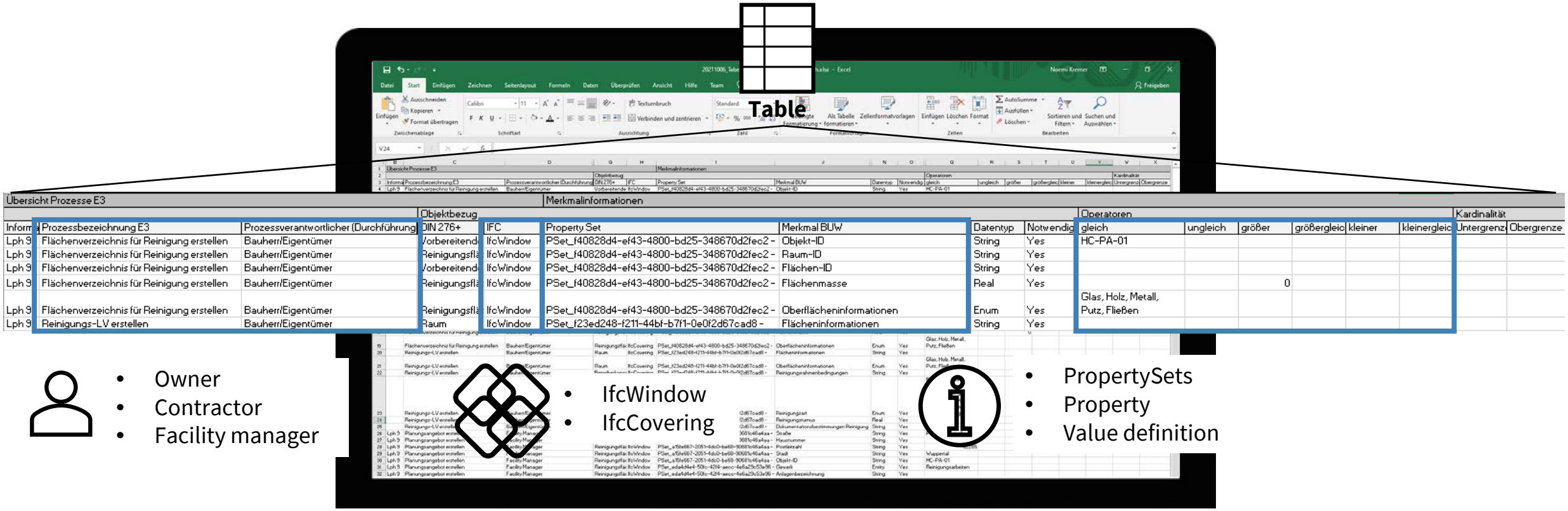
Methodology



- Testing and optimization
- Two use cases:
  - Maintenance management
  - Cleaning management

Methodology

- Use case cleaning management



Übersicht Prozesse E3			Objektbezug		Merkmalinformationen				Operatoren						Kardinalität	
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Lph 9	Reinigungs-LV erstellen	Bauherr/Eigentümer	Raum	IfcWindow	PSet_f23ed248-f211-44bf-b7f1-0e0f2d67cad8 -	Flächeninformationen	String	Yes								

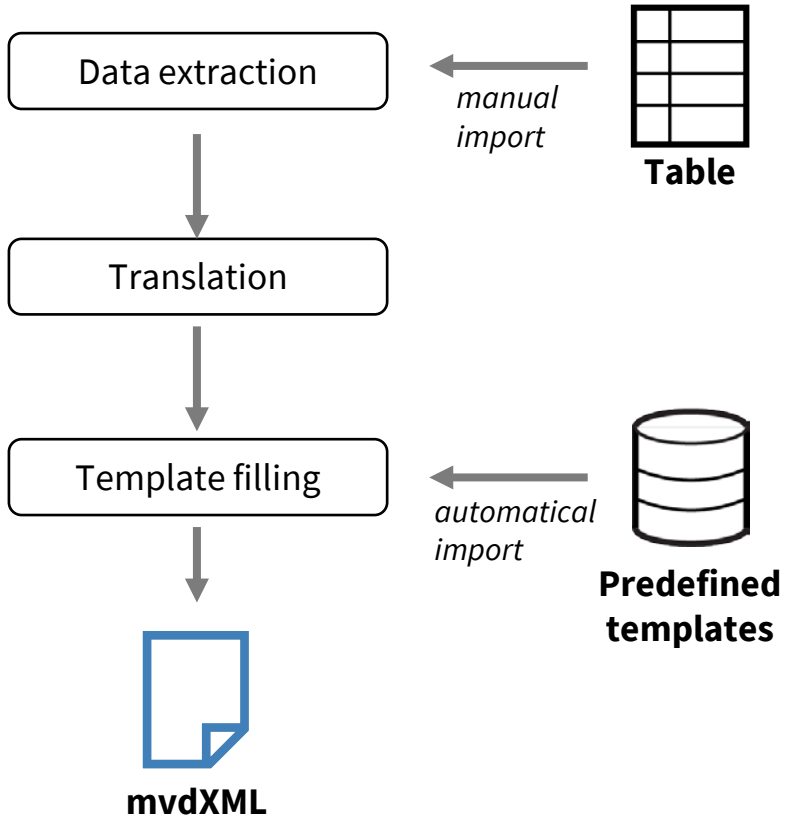
- Owner
- Contractor
- Facility manager

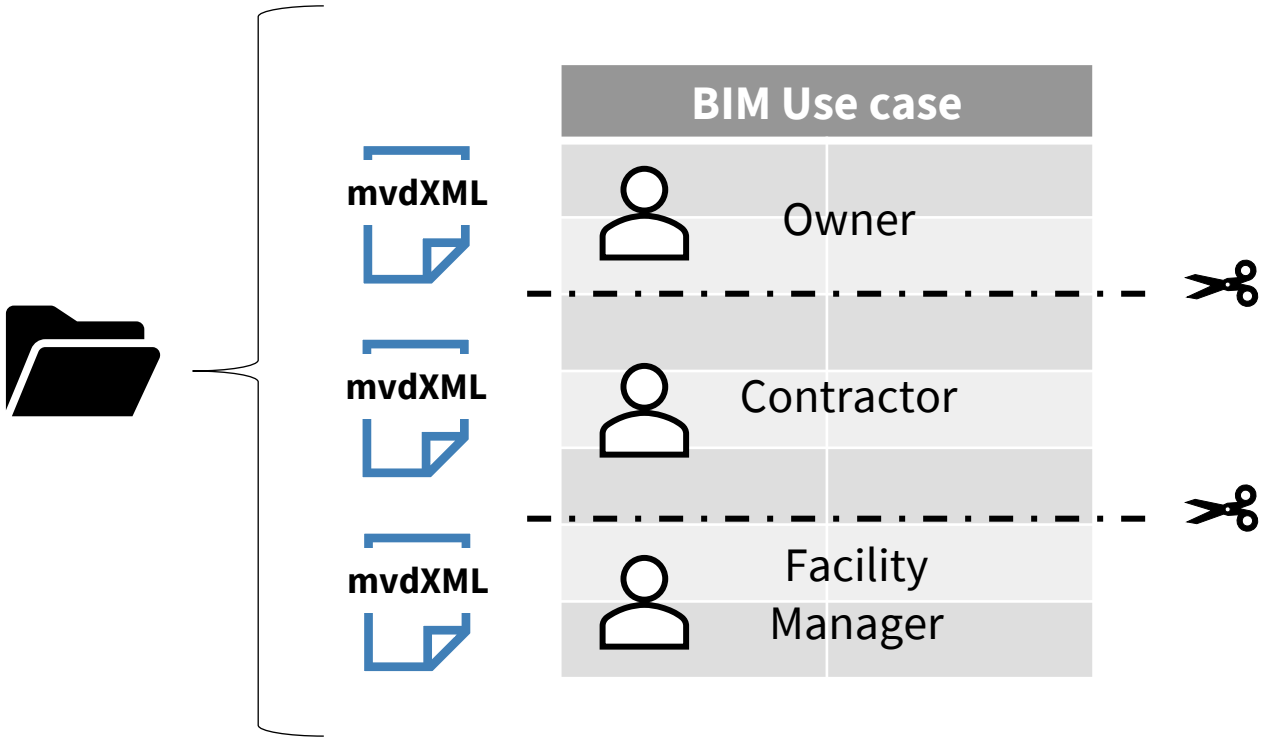
- IfcWindow
- IfcCovering

- PropertySets
- Property
- Value definition

Implementation

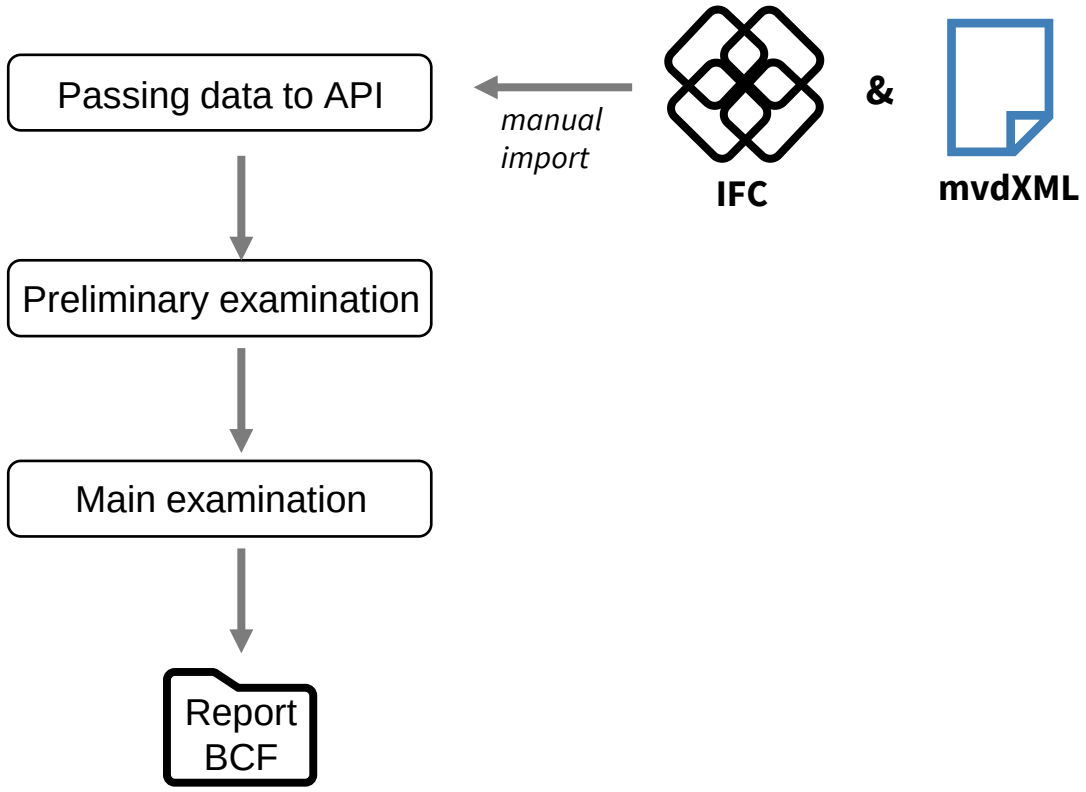
- Generating mvdXML





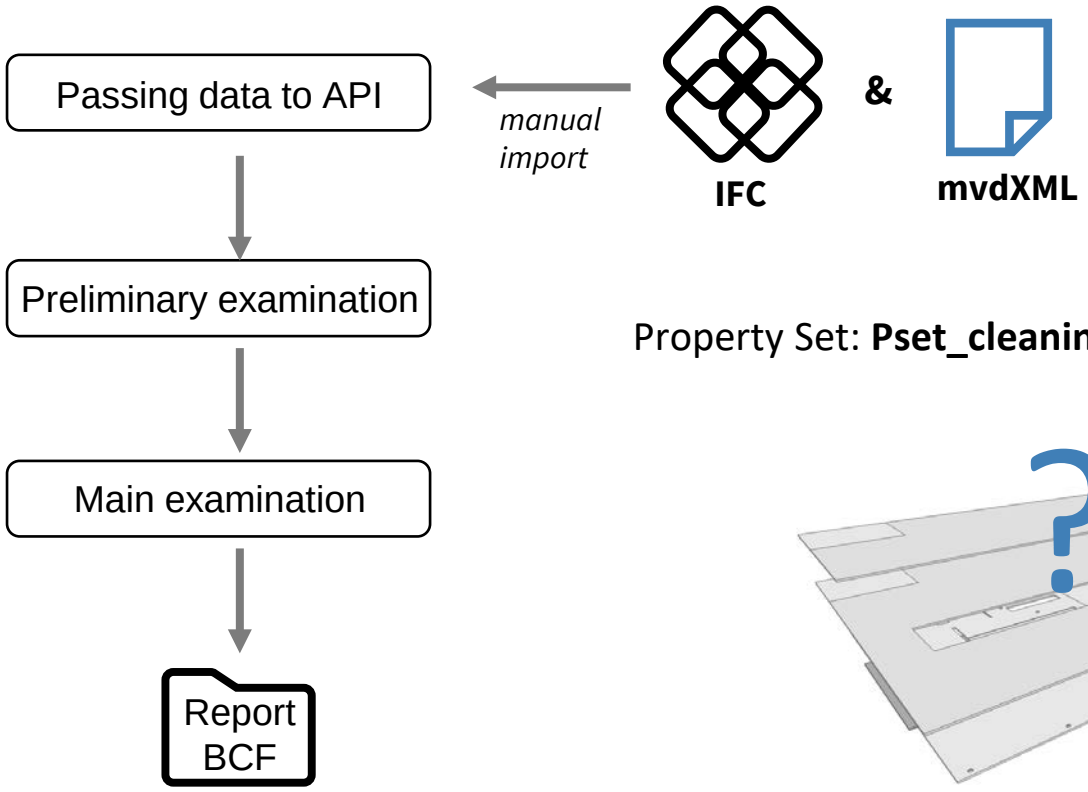
Implementation

- Checking IFC

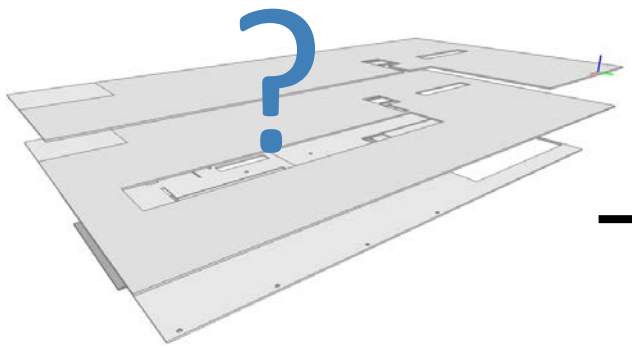


Implementation

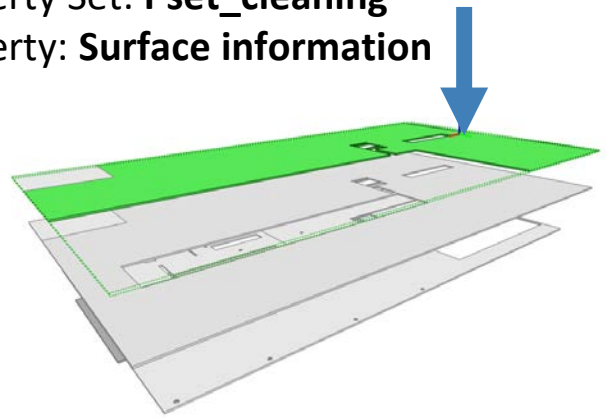
- Checking IFC



Property Set: **Pset_cleaning**



Property Set: **Pset_cleaning**
Property: **Surface information**
…



Conclusion and Limitations

Pros

- Process-oriented information delivery controlling system
- Open source standards
- Connection: process owner - exchange requirements

Cons

- Media discontinuity in workflow
- No delivery time checking
- Checking limited to properties
- Limitations of checking format (mvdXML)

Future work

- Media continuity
- Integration of process management technology:
  - CDE
  - idmXML
- Considering other control formats

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Thank you for listening!

Any questions?