



Start

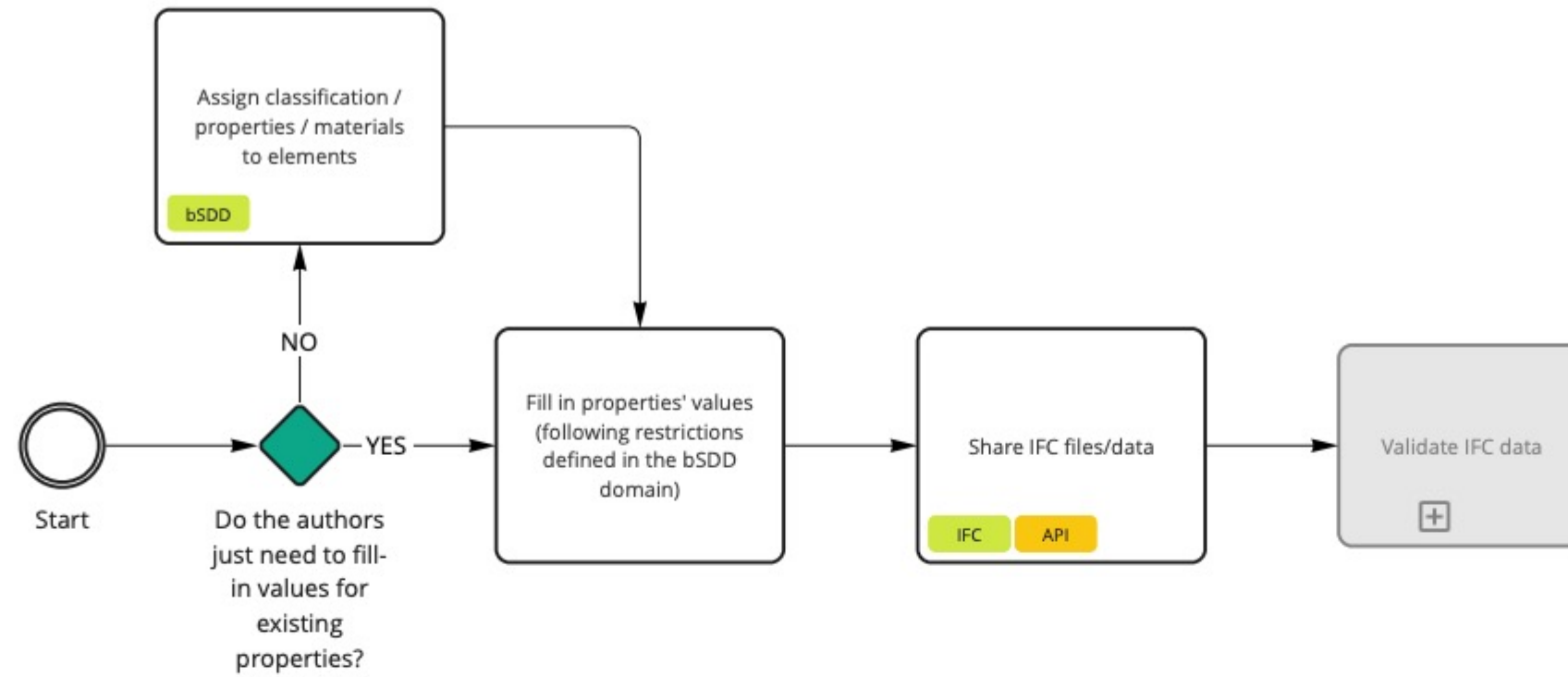
Receive software  
requirements

Test & Implement  
required  
capabilities

Provide evidence  
for implemented  
functionalities

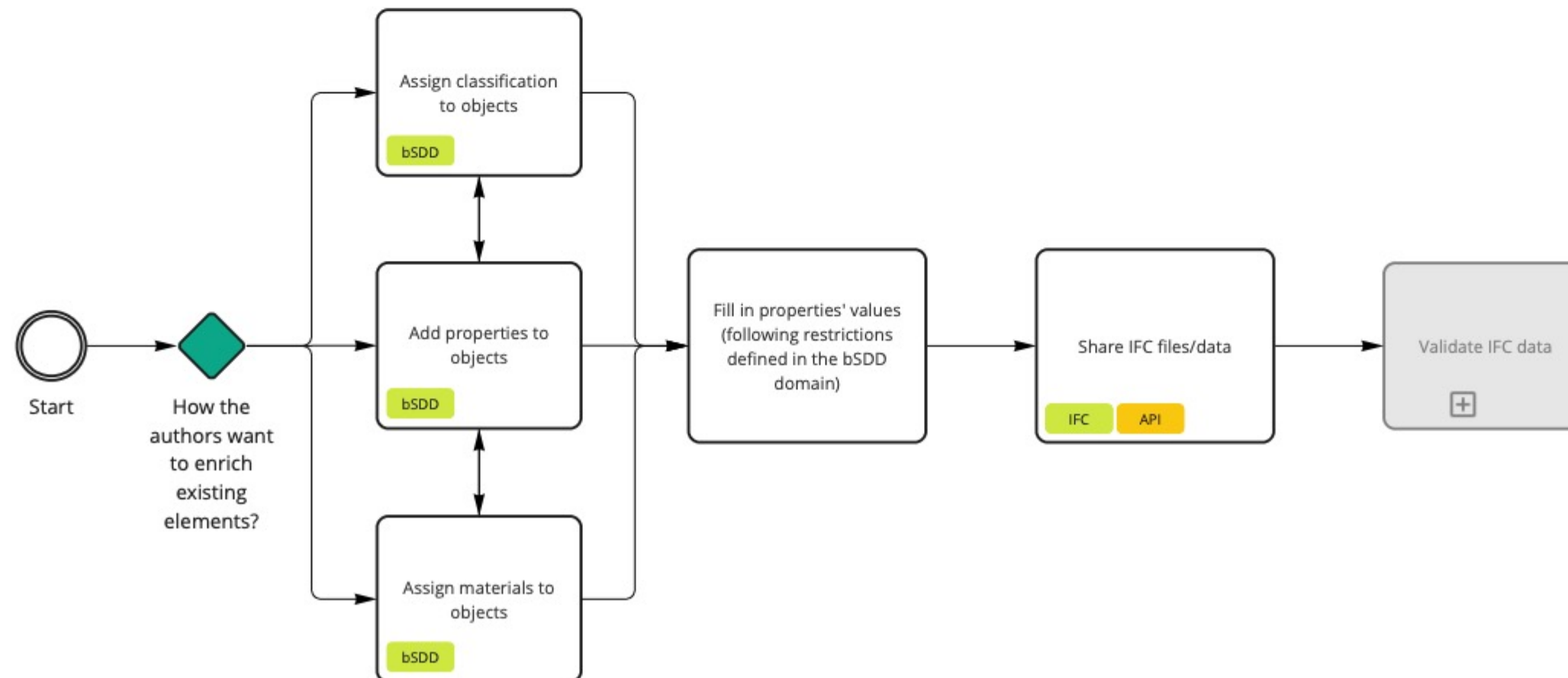
### Simple version

bSDD can be used to further enrich objects with additional: (1) classifications, (2) properties, and (3) materials. This figure group the three alternatives in one generic task.



### Articulated version

bSDD can be used to further enrich objects with additional: (1) classifications, (2) properties, and (3) materials. This figure distinguish the three alternatives, allowing to follow different paths.

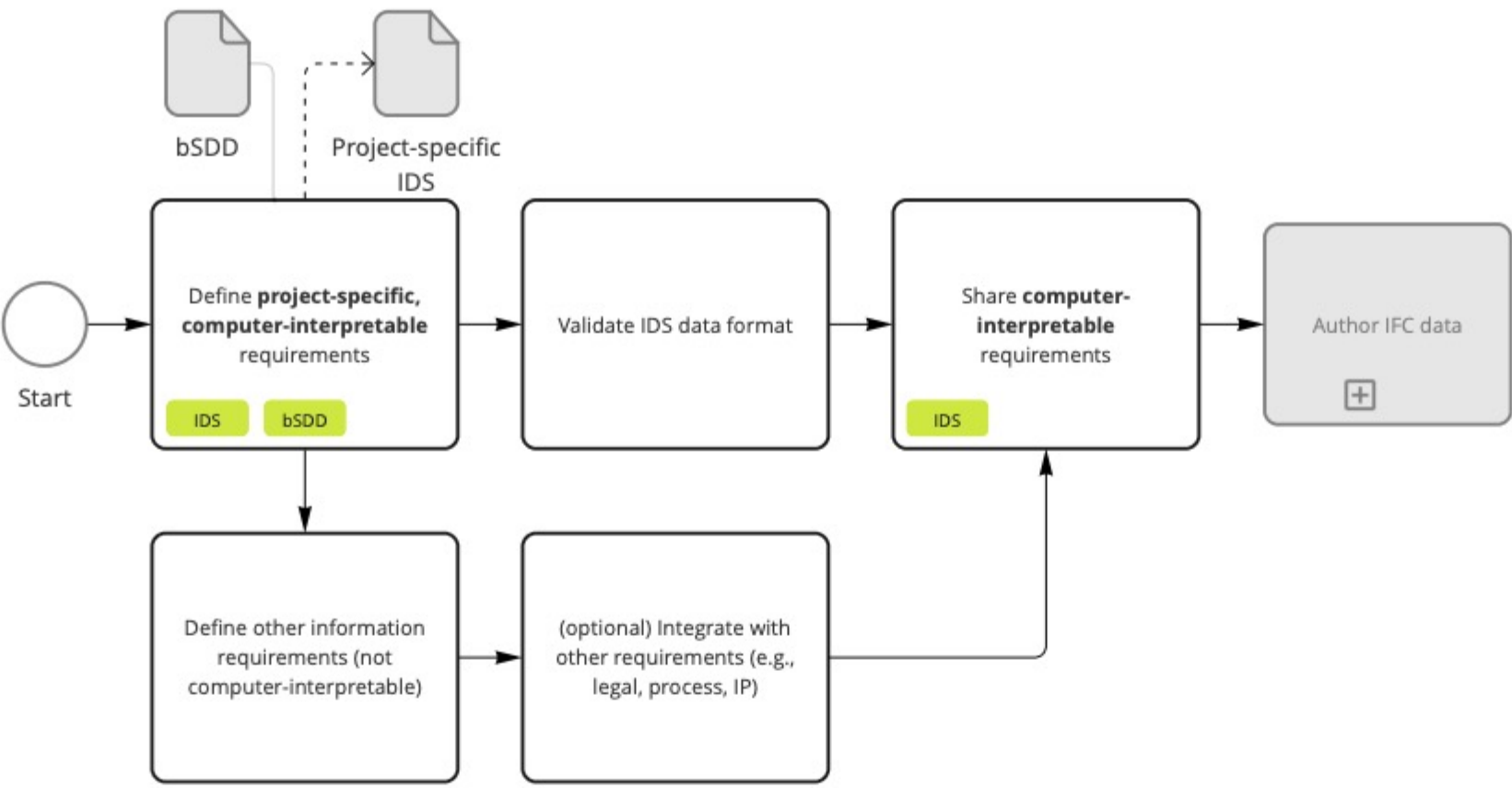


#### LEGEND

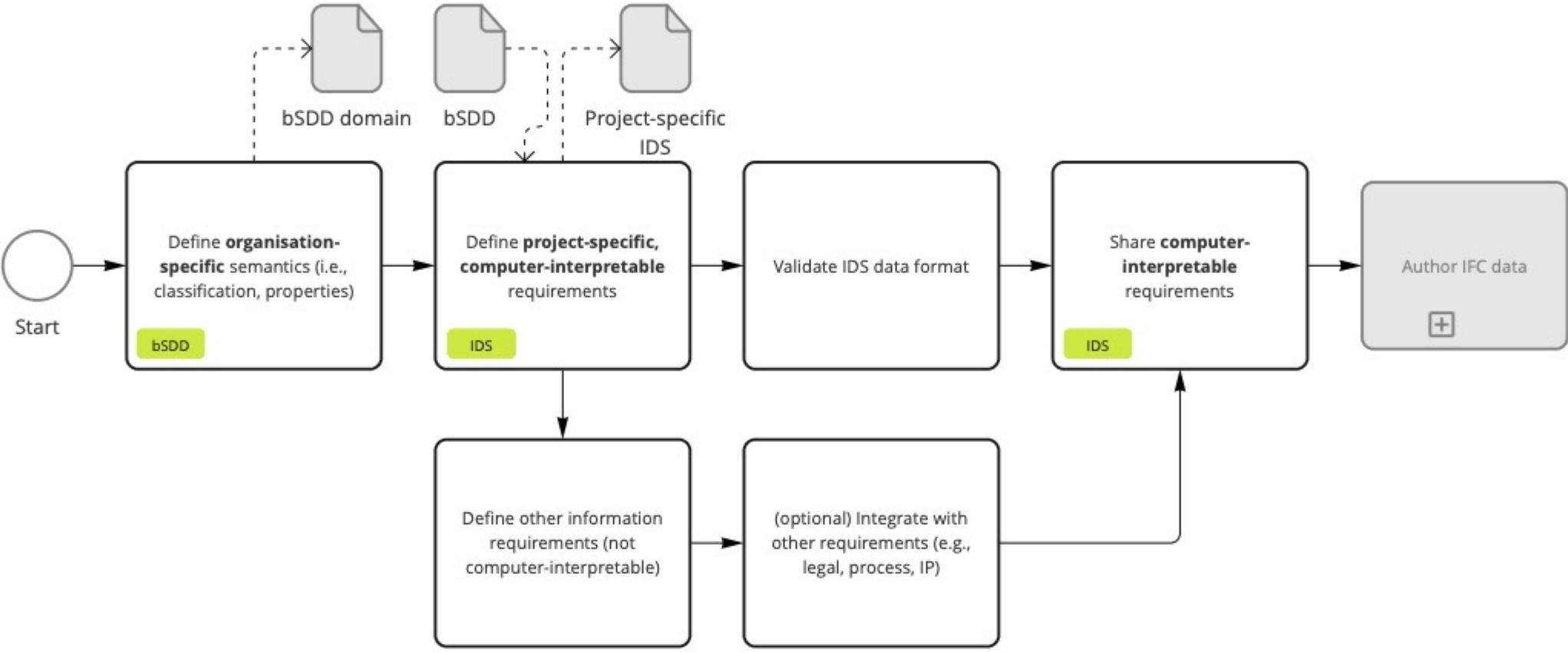
IFC	Industry Foundation Classes
bSDD	buildingSMART Data Dictionary
IDS	Information Delivery Specification
UCMS	Use Case Management Service
BCF	BIM Collaboration Format
VS	(bSI) Validation Service
API	openCDE API

Ready to use
Under development
Not developed

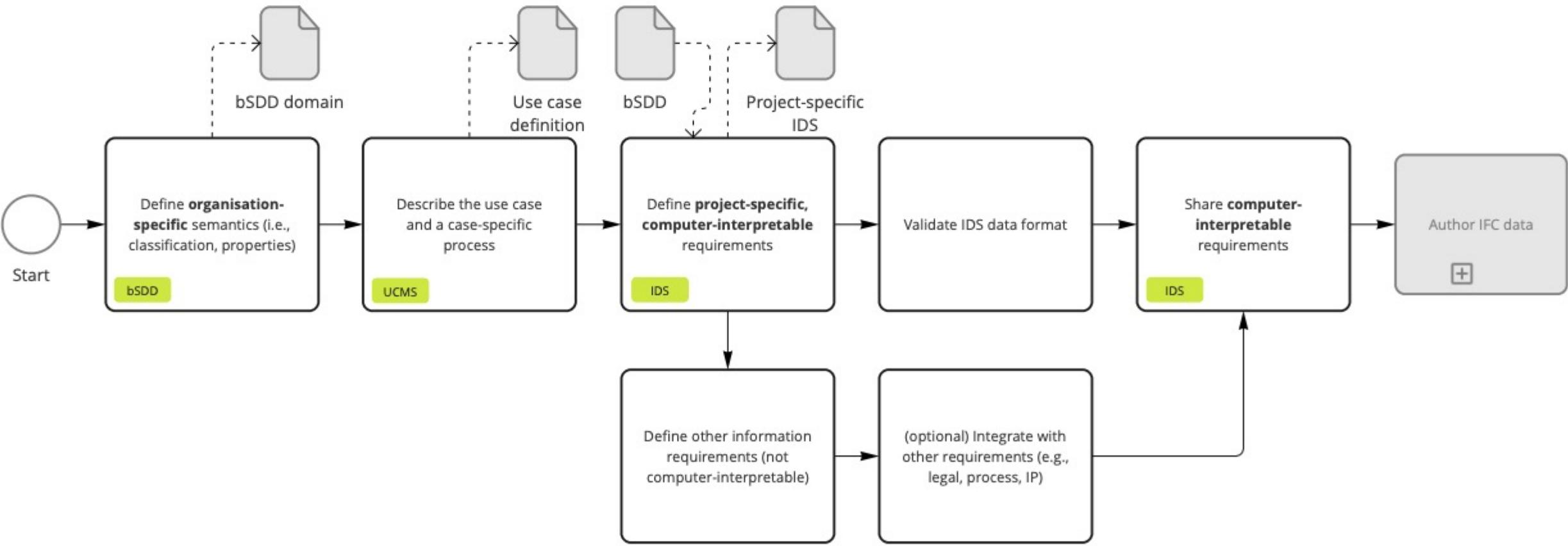
**Single-project option**  
You have project-specific information requirements that can be described using IDS



**Multi-projects option**  
You have multi-projects requirements that you want to reuse, and can be stored in bSDD

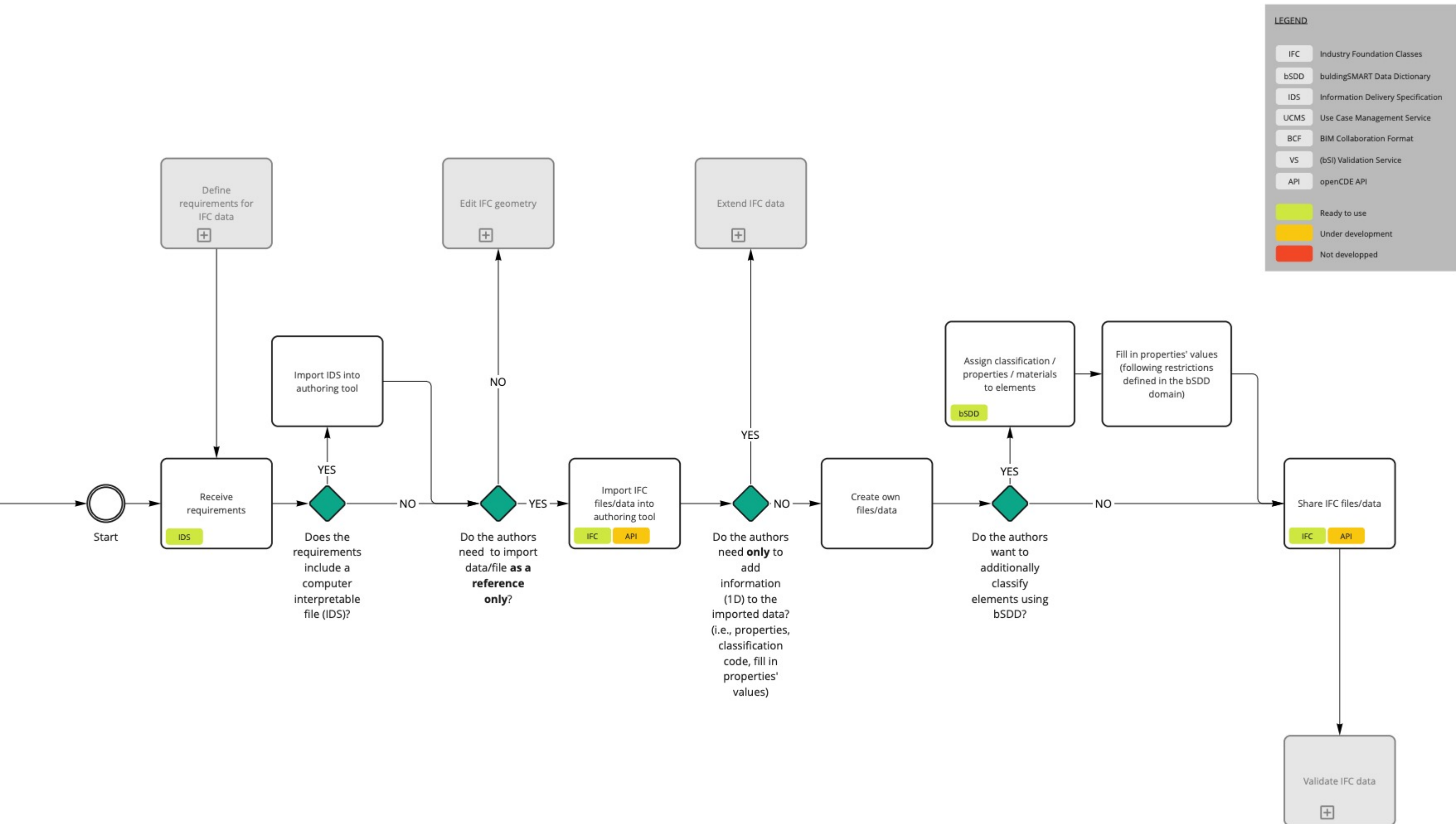


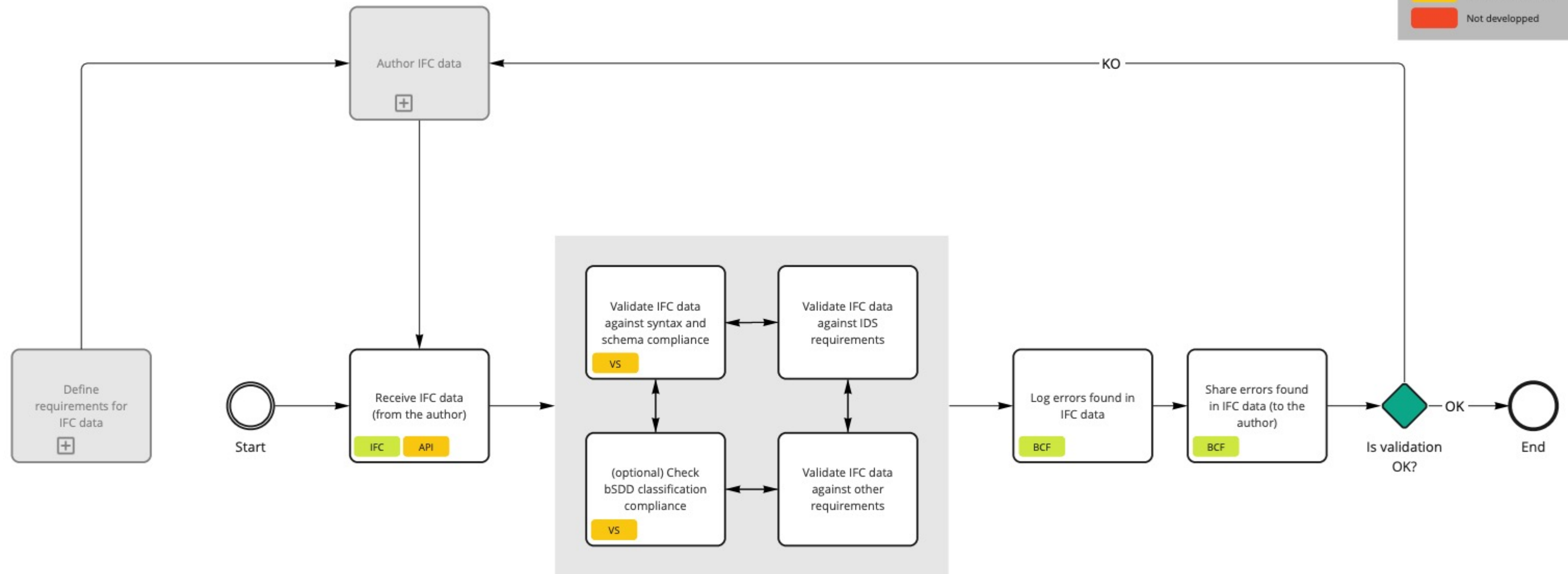
**Use case option**  
You need to formalise your use case & process, along with your information requirements



LEGEND

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# Which bSI solution can I use for my task?

Solutions functionalities

	UCM	bSDD	IDS	VS	IFC / openCDE API	BCF	Other tools
Define requirements for IFC data	<div>Describe the use case and a case-specific process</div> <div>UCMS</div>	<div>Define <b>organisation-specific</b> semantics (i.e., classification, properties)</div> <div>bSDD</div> <div>Define <b>project-specific, computer-interpretable</b> requirements</div> <div>bSDD</div>	<div>Define <b>project-specific, computer-interpretable</b> requirements</div> <div>IDS</div> <div>Share <b>computer-interpretable</b> requirements</div> <div>IDS</div>				<div>(optional) Integrate with other requirements (e.g., legal, process, IP)</div> <div>Define other information requirements (not computer-interpretable)</div> <div>Validate IDS data format</div>
Author IFC data		<div>Assign classification / properties / materials to elements</div> <div>bSDD</div>	<div>Receive requirements</div> <div>IDS</div>	<div>Check bSDD classification compliance</div> <div>bSDD</div>	<div>Import IFC files/data into authoring tool</div> <div>IFC API</div>		<div>Fill in properties' values (following restrictions defined in the bSDD domain)</div>
Extend IFC data					<div>Share IFC files/data</div> <div>IFC API</div>		<div>Create own IFC files/data</div> <div>Import IDS into authoring tool</div>
Validate IFC data				<div>Validate IFC data against syntax and schema compliance</div> <div>VS</div> <div>(optional) Check bSDD classification compliance</div> <div>VS</div>	<div>Receive IFC data (from the author)</div> <div>IFC API</div>	<div>Log errors found in IFC data</div> <div>BCF</div> <div>Share errors found in IFC data (to the author)</div> <div>BCF</div>	<div>Validate IFC data against IDS requirements</div> <div>Validate IFC data against other requirements</div>