Processing Models ntegration

What to do with a...

- Thing Description
- Resource Directory Entry
- Data Set
- → Processing Model!

Processing Steps

- Ingestion
- Generation
- Transformation...

Levels of Processing

- Semantic
- Structural
- Lexical (Serialization, Compression)

Example: JSON-LD

- Information model: sea of triples (RDF)
- Data model: JSON tree
- Serialization: JSON

Ingestion

- Usually framed in terms of RDF ingestion
- Could be done on the JSON tree level

Generation

- Needs to map data at the information model level to the data model level
- Tree building
- Possibly combine multiple sources
 - manufacturer (class), installation/configuration (instance), context (foi)
- Prepare next processing step (ingestion)

"Framing"

- Building a tree that is good for the next processing step
- Decide what to include (on what basis?)
- Map some RDF links to JSON subordination

— Generally a hard problem