Open Know-Where

classification data model
Helping experts collaborate and reach consensus faster

Tom Bartley
Co-founder & CEO
Recap

The Open Know-Where specification defines a data model to:

- Document the location of manufacturing capabilities globally.
- Share information about manufacturing facilities and the manufacturing capabilities.
- Improve networking within the manufacturing industry and maker communities.
Recap

The Open Know-Where specification defines a data model to:

- Document the location of manufacturing capabilities globally.
- Share information about manufacturing facilities and the manufacturing capabilities.
- Improve networking within the manufacturing industry and maker communities.

Intended audiences:
- Mappers
- Maker communities
- Governments
- Non-Government Organisations
- Aid Agencies
- Platforms listing local manufacturing capabilities
Open Know-Where provides a common way of describing key data that is important in mapping manufacturing capabilities.

It's extensive to cover all the use-cases we identified in the discovery phase.

It does not provide a design for a database or information exchange format.

We avoided creating new conventions and instead reuse existing standards where possible.
Conceptual model
- Five classes (concepts)
- 76 properties and sub-properties
- Seven new classification schemes
Standardised classifications

- Facility Properties
  - Facility Type
  - Facility Status
  - Access Type
  - Batch Size
- Manufacturing Processes
- Equipment Classification
- Material Classification
Standardised classifications

- Facility Properties
  - Facility Type
  - Facility Status
  - Access Type
  - Batch Size
- Manufacturing Processes
- Equipment Classification
- Material Classification
3.5. How do I use the classification system?

To aid consistency, Open Know-Where recommends using an existing classification system for Equipment, Manufacturing Processes and Materials. This being Wikipedia.

To classify equipment:

To reference a facility has a piece of equipment, for example a soldering iron, you would simply copy and paste the Wikipedia URL for a soldering iron into the relevant field.

Wikipedia article: https://en.wikipedia.org/wiki/Soldering_Iron

To classify a manufacturing process:

To classify a manufacturing process, for example soldering, you would simply copy and paste the relevant Wikipedia URL for soldering into the relevant field.

Wikipedia article: https://en.wikipedia.org/wiki/Soldering

To classify a material:

To reference a material, for example aluminium, you would simply copy and paste the relevant Wikipedia URL for aluminium into the relevant field.

Wikipedia article: https://en.wikipedia.org/wiki/Aluminium
Equipment

Classified by Type & Process to enable search for equivalent capabilities

38 recommended sub-properties mapped to equipment types
Material

Not in scope for OKW, but basic properties included to support other classes

41 "defined material types"
Agent

Supports people and organisations, mostly for contact details.