

# Process and use cases

Concept  
Simulation  
Definition  
Manufacturing  
Support

# Domains

Product specification  
Configuration  
Document structure  
Effectivity  
Delta change  
Physical structure  
Part, version, view identification  
Geometric shape  
Transformation  
Person, organization and address  
Date and time  
Approval, contract and project  
Activity  
Work management  
Requirement  
Property  
Breakdown  
Identification  
Name and description  
Multi linguism  
Material  
Classification  
Information right  
Process plan  
Part occurrence  
Assembly structure

# Concerns

\* Requirements  
\* Translations (languages not geometry !)  
\* Materials  
\* Prices  
Dimensions, Tolerances and Checks/Metrology  
Annotations  
\* Coatings  
\* Composites  
\* Simulations  
\* Units  
\* Supply / suppliers  
  
**Physical model**  
**Kinematics / Joints**  
**Anchors**  
**Parts libraries**  
→ 3D exact vs 3D tessellated vs 3D history/parametric  
  
*Electrics / electronics*  
  
(BOMs), auto generated  
→ Building process  
→ Tooling  
Manufacturing / CAM files

## Constructing an information system around a product is a data modeling problem

Text only → versionnable

20% of a complex model (e.g. AP242) should cover 80% of the needs (Pareto)

Topology and geometry handled by scripts and neutral files

The single location of truth is the data model and its content, scripts and Uis only act on the model and its content

Some parts of the data model are specific to a project, others are generic (e.g. languages, units, materials ...)