

# Example: VSS fundamental design components

In this example, the methodology is used in two different levels:

- **Project**
  - Provide a high-level view of the project itself.
  - The description here is rather general and shows the alignment of the project with the COVESA's goals.
- **Artifacts**
  - Provide a detailed view of the main artifacts that belong to the project.
  - The description here is mostly technical.

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## Project

### Problem

Inconsistent data representation of vehicle properties across the automotive industry.

### Goal

To lead the global standardisation of vehicle data, fostering innovation and collaboration in the automotive industry.

### Artifacts

- VSS Data model
- VSS Tools

### Causes

- Different vehicular systems use disparate data models for concepts of common interest.
  - Examples of vehicular systems: applications, databases, streaming platforms, , etc.
  - Examples of data models (or elements of): terms, hierarchies, meaning, language, datatypes, etc.

The project's goal is inherit from the goals of the whole organization.

### Effects

- Interoperability issues.
- Repetition in data engineering processes.
- Increased complexity and maintenance costs.
- Waste of time and resources.
- Slow innovation.

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## Artifact - VSS Data model

### Problem

Inconsistent data representation of vehicle properties across the automotive industry.

### Goal

To unify descriptions, meaning, and relevant metadata for vehicle properties.

### Artifact

- VSS Data model

### Requirements

Feature	Functional	Non-funcional	Scope
	A common controlled vocabulary for referring to vehicle properties		

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## Artifact - VSS Tools

### Problem

The data specification alone is not machine readable.

### Goal

To enable machines to interpret and use the specification in real systems.

### Artifact

- VSS Tools

Requirements

Feature	Functional	Non-funcional	Scope