

Part-Centric Manifesto

Definition

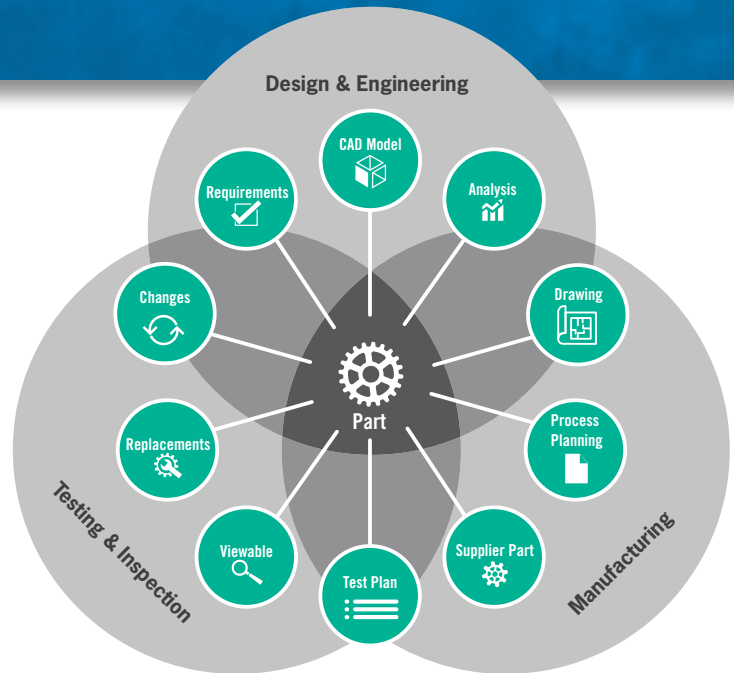
An organizing principle that enables product data management to relate all product data and process data to a single point of reference.

Objective

A part-centric approach unites the broad set of product development information, enabling enterprise users to access the right information at the right time. Part-centric is considered a foundational requirement for transition to Model-based Enterprise (MBE).

Manifesto Purpose

Establish the foundations of a Part-Centric approach to product lifecycle management. Motivate the transformation from document-centric, drawing-based practices to a digital, part-centric, model-based paradigm.



GOAL (what we prefer)	CURRENT (not preferred)
Product data organized about a part object .	Product data organized by file or document identification .
Product data accessed from trusted, connected, authoritative sources .	Product data is accessed from disconnected stores that can have uncontrolled copies .
Data entered once and reused as a traceable artifact.	Data uplicated manually in disparate systems.
Complete, digitally-connected, hierarchical product structure with bills of materials (BOM).	Fragmented, manually entered , single level bills of materials (BOM).
All product information accessed through the part object as a single entry point .	Product information is obtained through multiple entry points in which each separately view a portion of the product data.
A product's identification is machine readable, consistent and persists throughout the enterprise.	Product's identification is human readable and inconsistent between sites.
Using data in its native form.	Using data in unverified derivative forms.
Product information schemas are consistent throughout the enterprise.	Product data organized as specialized set-ups
Responsive part change management common throughout product lifecycle.	Disconnected sites react manually to change through documents.

