What is Systems Architecting in an Industrial Context?

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Abstract
Architecting is the creation of an architecture by the product creation team. The next question is: “What is an architecture?”.

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What is Systems Architecting in an Industrial Context?

Architecting = creating an architecture

problem knowledge

preceeding architecture

solution knowledge

stakeholders
expectations, needs, concerns, constraints

architecting

PCP team
architect, project leader, engineers, product manager

legend
human context
business context
technology context

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WARCHArchitecting
Architecture = tangible (internal) + intangible (external)

- Performance
- Behaviour
- Functionality

The perception of, experience with, the system by all stakeholders in all phases of the system life-cycle.

- Structure
- Construction

external

internal
The business context of architecting methods

What is Systems Architecting in an Industrial Context?

Business
  \[\text{sets targets}\]
  \[\text{supports}\]

Architecting method
  \[\text{enables}\]
  \[\text{perform}\]
  \[\text{fits in}\]
  \[\text{supports}\]

Product creation

People

Process Organisation
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WARCHInternalStakeholders

Internal stakeholders

- Business
  - sets targets
  - supports

- Architecting method
  - product creation
  - enables
  - perform
  - fits in
  - supports

- People
- Process Organisation

- policy and planning
  - business, marketing, operational managers

- customer-oriented
  - sales, service, production, logistics

- product creation
  - project leader, product manager, engineers, suppliers

- people, process, and technology
  - capability managers, technology suppliers