What is Systems Architecting in an Industrial Context?

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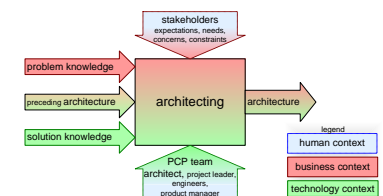
Abstract

Architecting is the creation of an architecture by the product creation team. The next question is: "What is an architecture?".
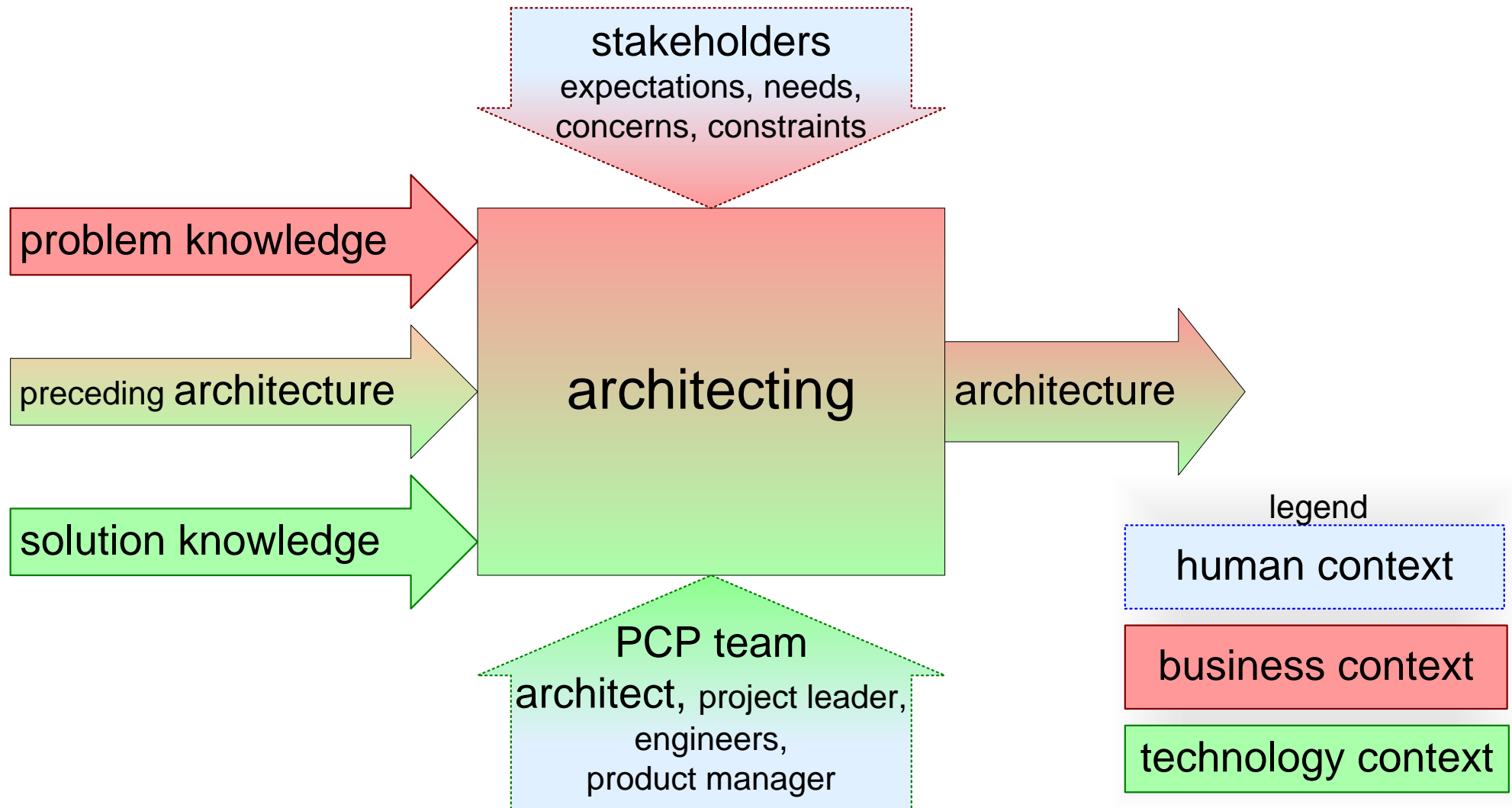
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Architecting = creating an architecture

stakeholders
expectations, needs, concerns, constraints

problem knowledge

preceding architecture

solution knowledge

architecting

architecture

PCP team
architect, project leader, engineers, product manager

legend

human context

business context

technology context

Architecture = tangible (internal) + intangible (external)

external
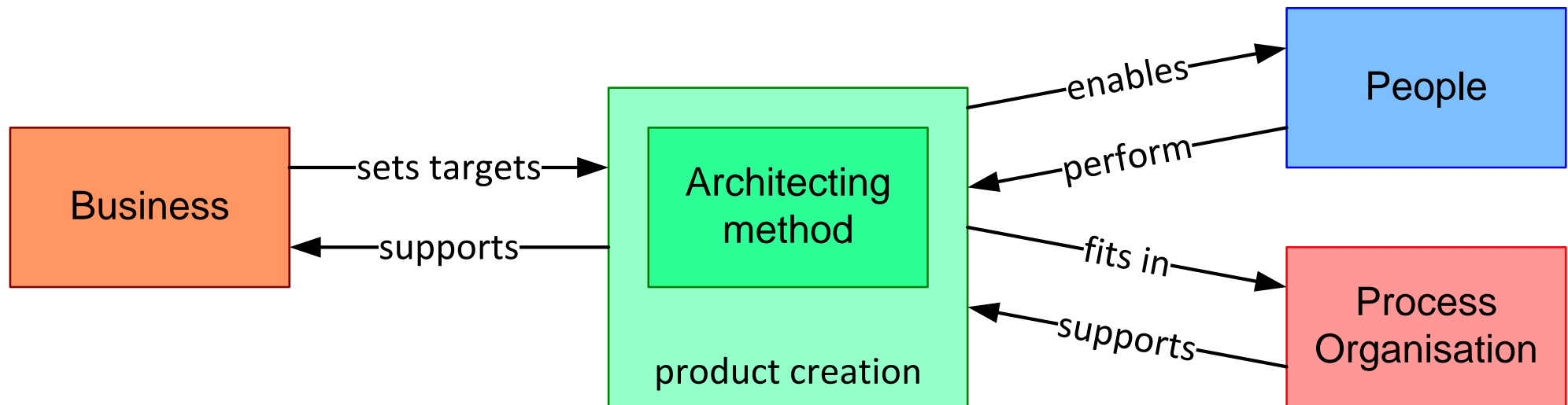
performance   *behaviour*   *functionality*

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

structure   *construction*

internal

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The business context of architecting methods

Internal stakeholders

Business —sets targets→ Architecting method (product creation)

Architecting method —supports→ Business

Architecting method —enables→ People

People —perform→ Architecting method

Architecting method —fits in→ Process Organisation

Process Organisation —supports→ Architecting method

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

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