

# SEFS Customer Context

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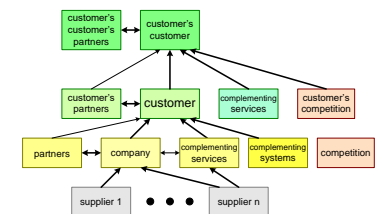
## Abstract

Systems engineers need to understand many aspects about the customer context where the system-of-interest will be operating in. This nugget introduces the CAFCR model to understand the relation between customer and system. Then it introduces a number of questions and techniques for eliciting and capturing the customer context.

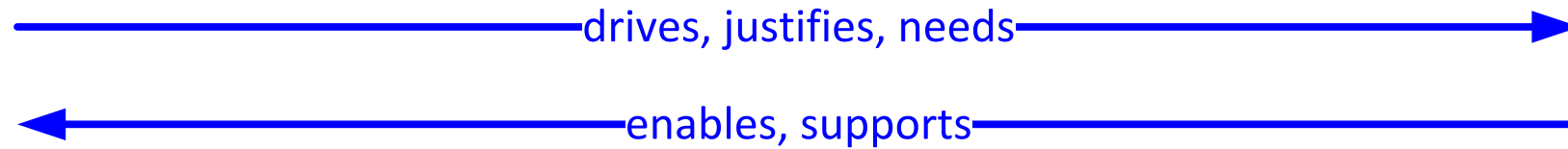
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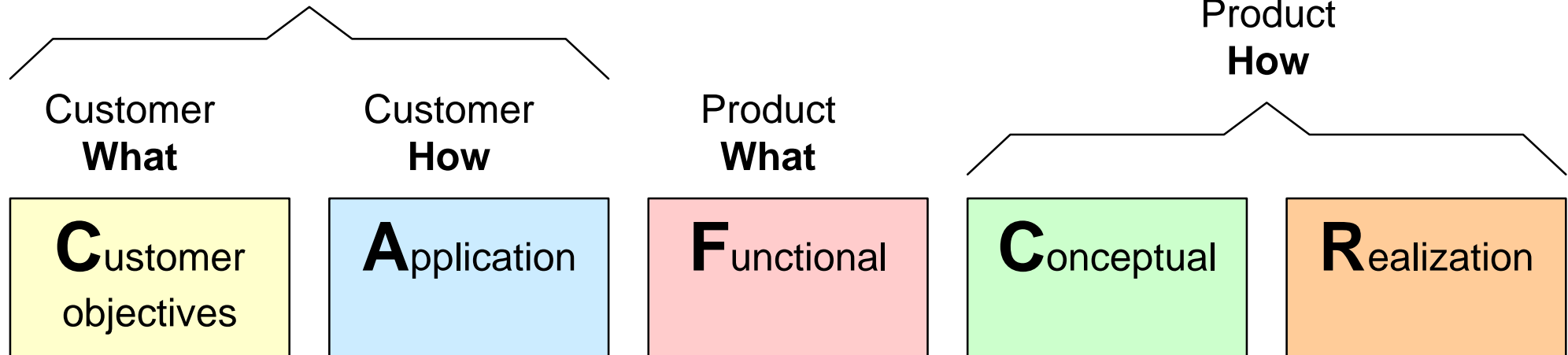
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# The "CAFCCR" model



**What** does Customer need  
in Product and **Why?**

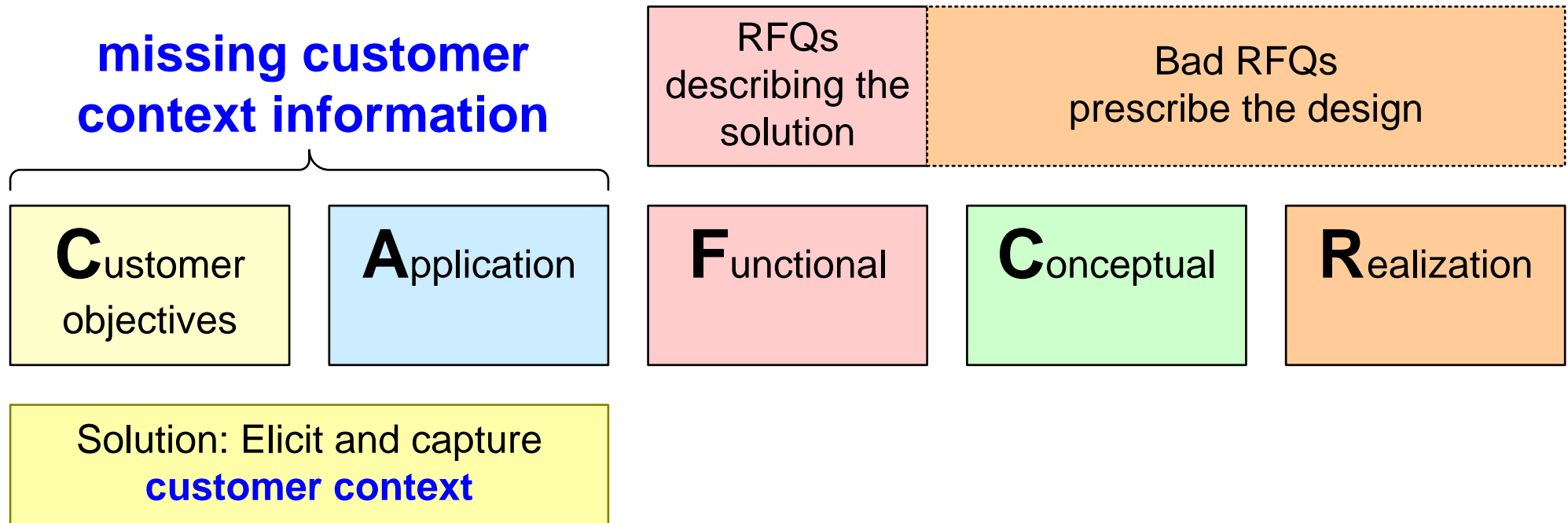


# Problem Statement

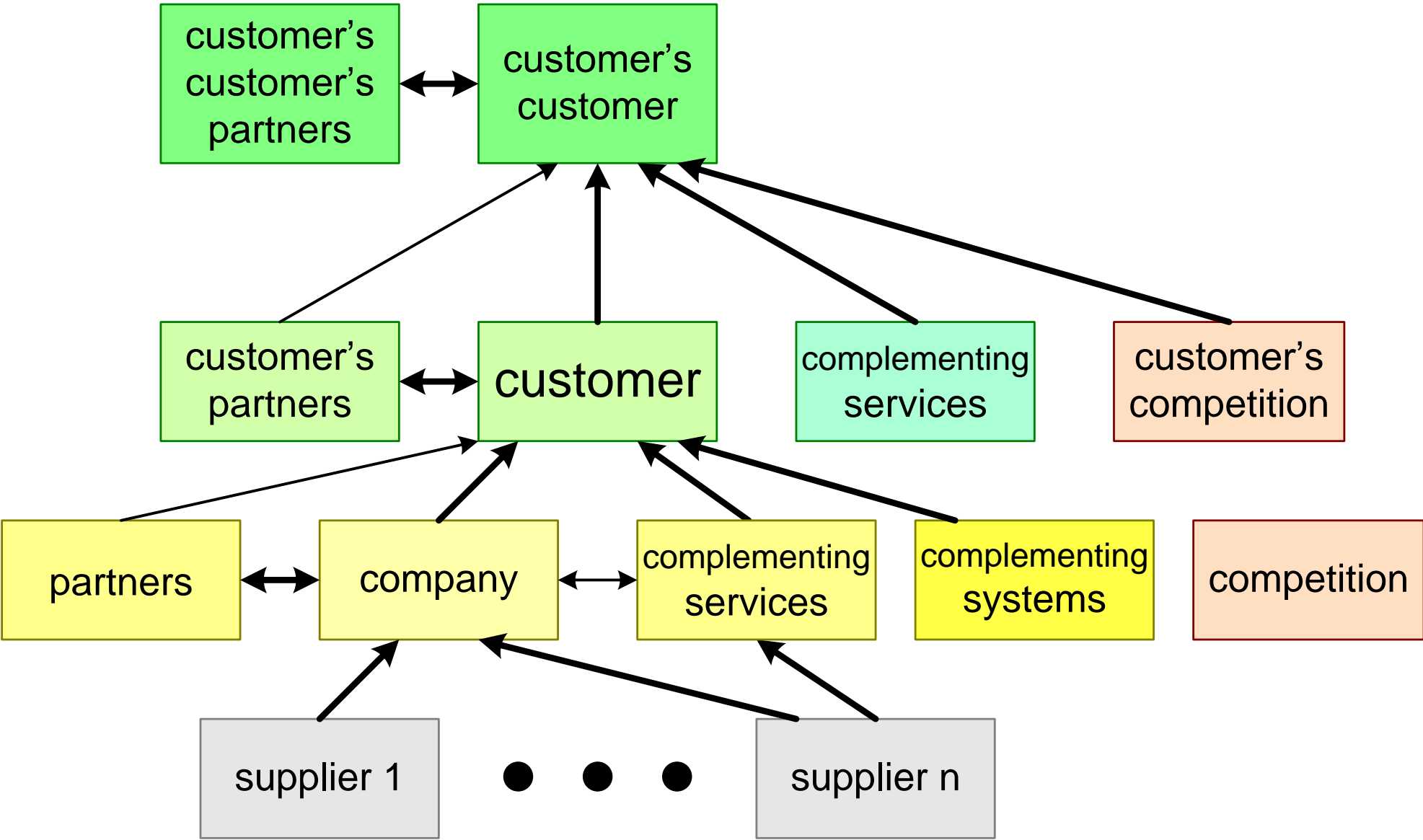
## Problem statement

A typical Request for Quotation (the starting point of the tender) asks for a **solution**, without describing the problem and needs.

Best case it specifies **system requirements** (F-view; what must the system do with what performance), worst case it prescribes many **realization aspects**



# Context of the Context



- What is the role of the customer in the value network?
- How do they earn their money, what is their business model?
- SWOT analysis; what are their Strengths, Weaknesses, Opportunities and Threats?
- VUCA analysis; what is Volatile (changing fast), what is Uncertain, what is Complex, and what is Ambiguous?

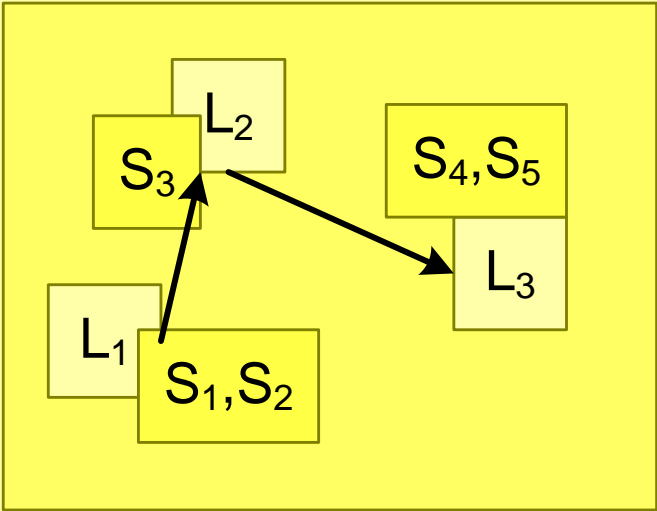
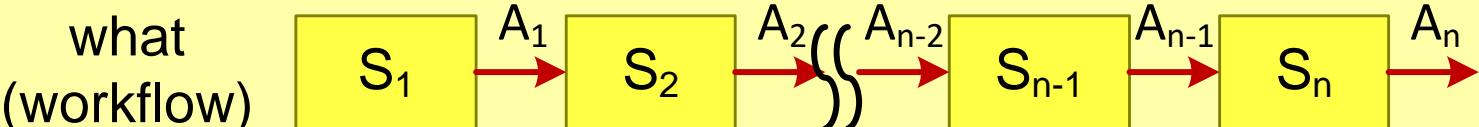
# Capturing the Context

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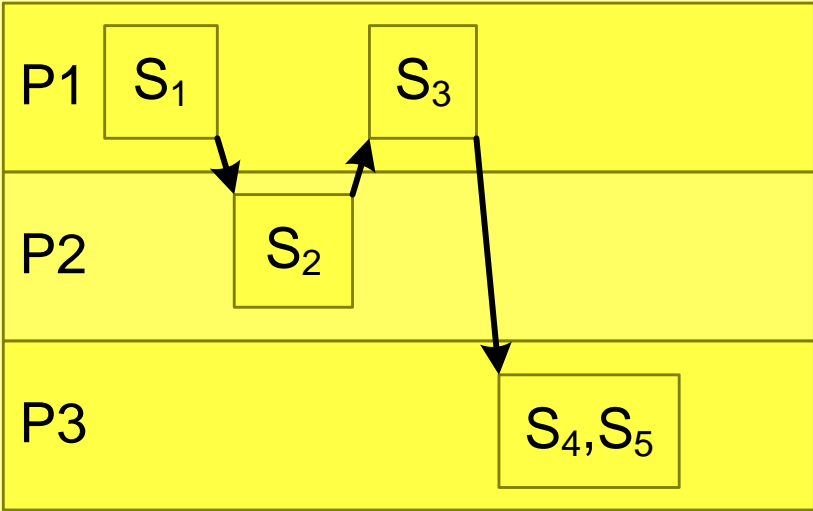
what	ConOps, story telling, scenario
who	stakeholders and concerns <i>humans</i> <i>organizations</i>
how	system context diagram <i>human-made artifacts</i> workflow
when	timeline <b>from seconds to years</b>
where	map <b>from nanometers to kilometers</b>
why	customer key drivers, customer value proposition
financial	productivity model cost of ownership model money flow value network

## Concept of Operations (ConOps)

An envisioning of how the stakeholders will run their operation in relation to the system.



where (map)



who (swimming lanes)