

Communicating via CAFCR; illustrated by security example

by *Gerrit Muller* University of South-Eastern Norway-NISE

e-mail: `gaudisite@gmail.com`

`www.gaudisite.nl`

Abstract

One of the main bottlenecks of developing complex products is communication between the many involved stakeholders. The "CAFCR" model is explained as one of the means to help communicating. The views of the "CAFCR" model are integrated amongst others by many qualities. This is illustrated by means of a mobile infotainment product and zooming in on the quality security.

The bilateral communication is analyzed and the importance of interaction for fruitful communication is explained

Distribution

This article or presentation is written as part of the Gaudí project. The Gaudí project philosophy is to improve by obtaining frequent feedback. Frequent feedback is pursued by an open creation process. This document is published as intermediate or nearly mature version to get feedback. Further distribution is allowed as long as the document remains complete and unchanged.

January 21, 2022

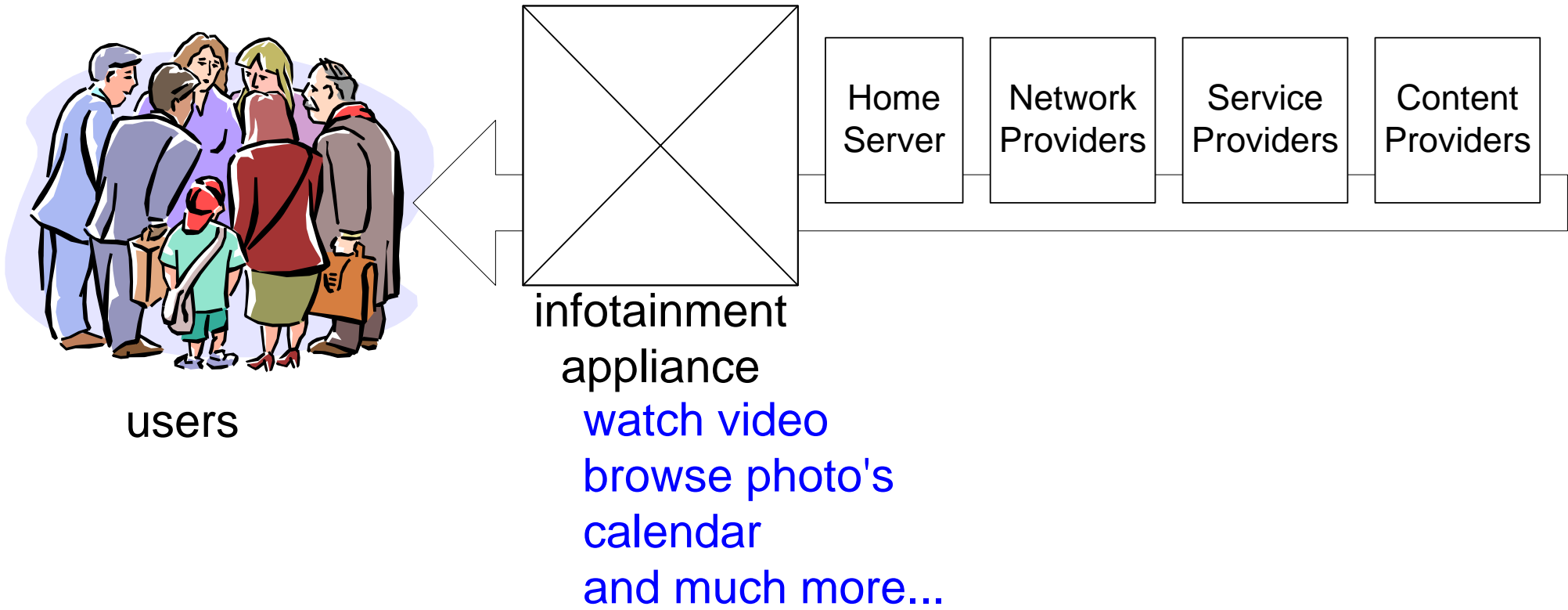
status: preliminary

draft

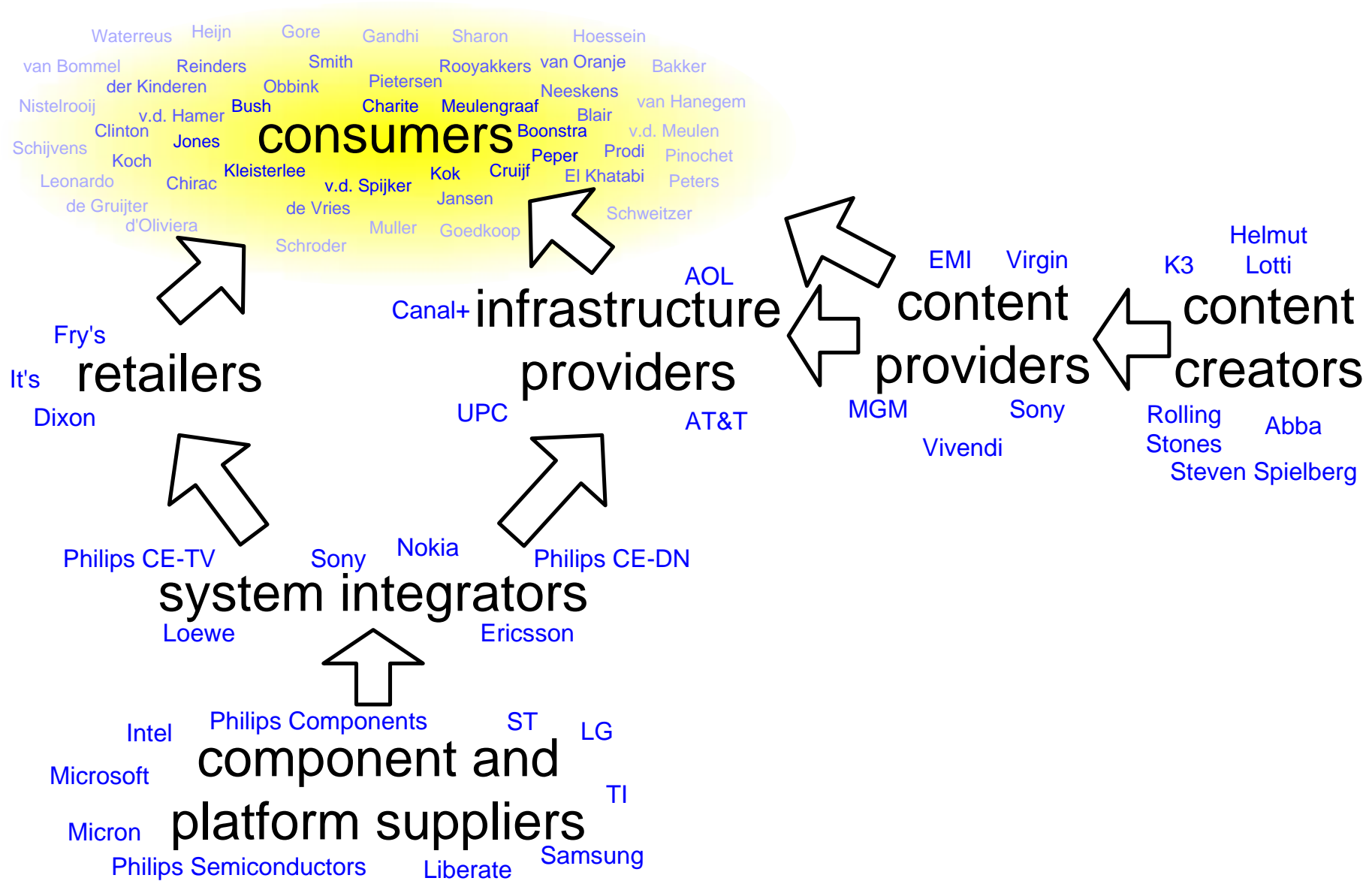
version: 0.1



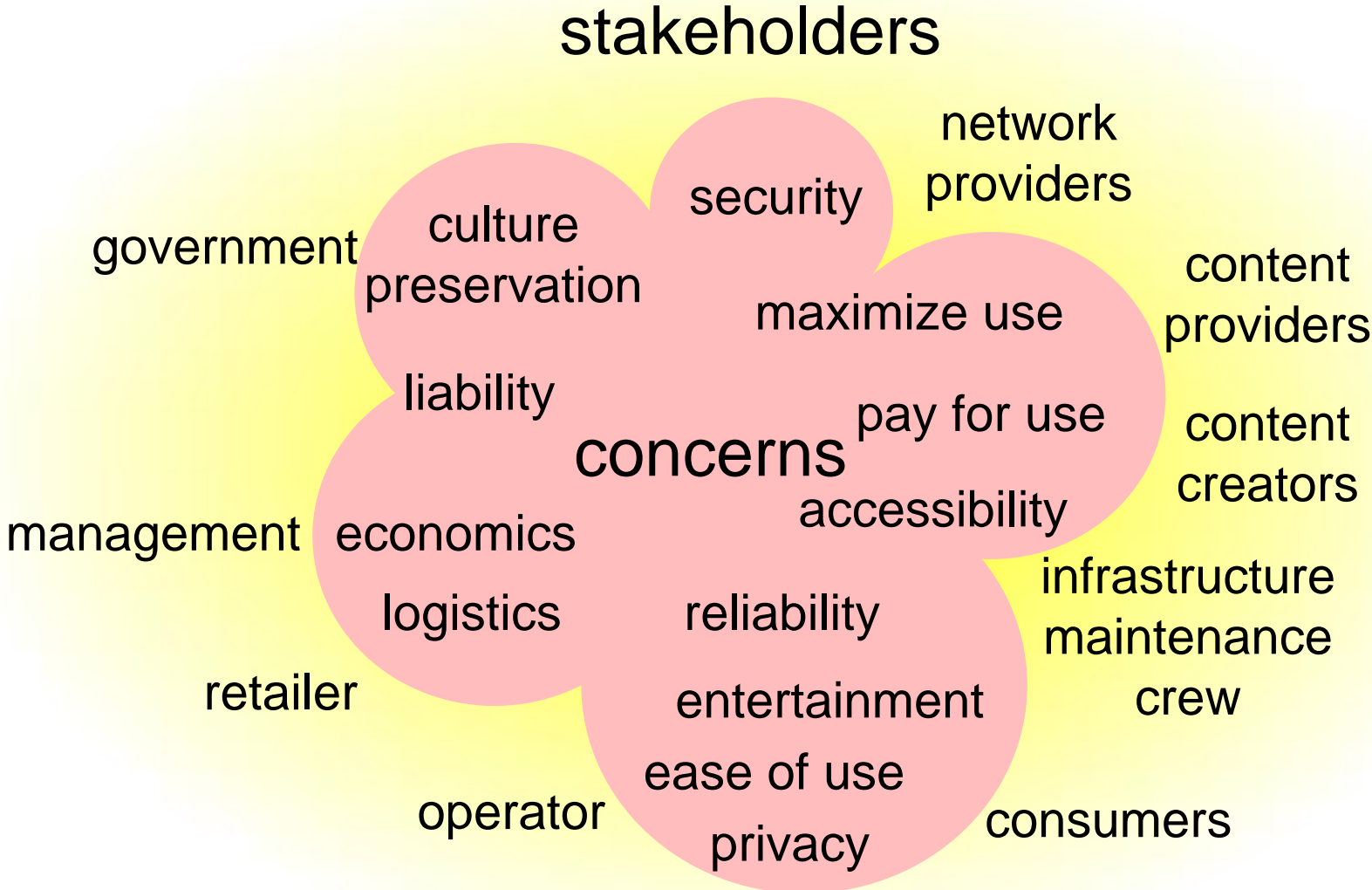
Example product: mobile infotainment



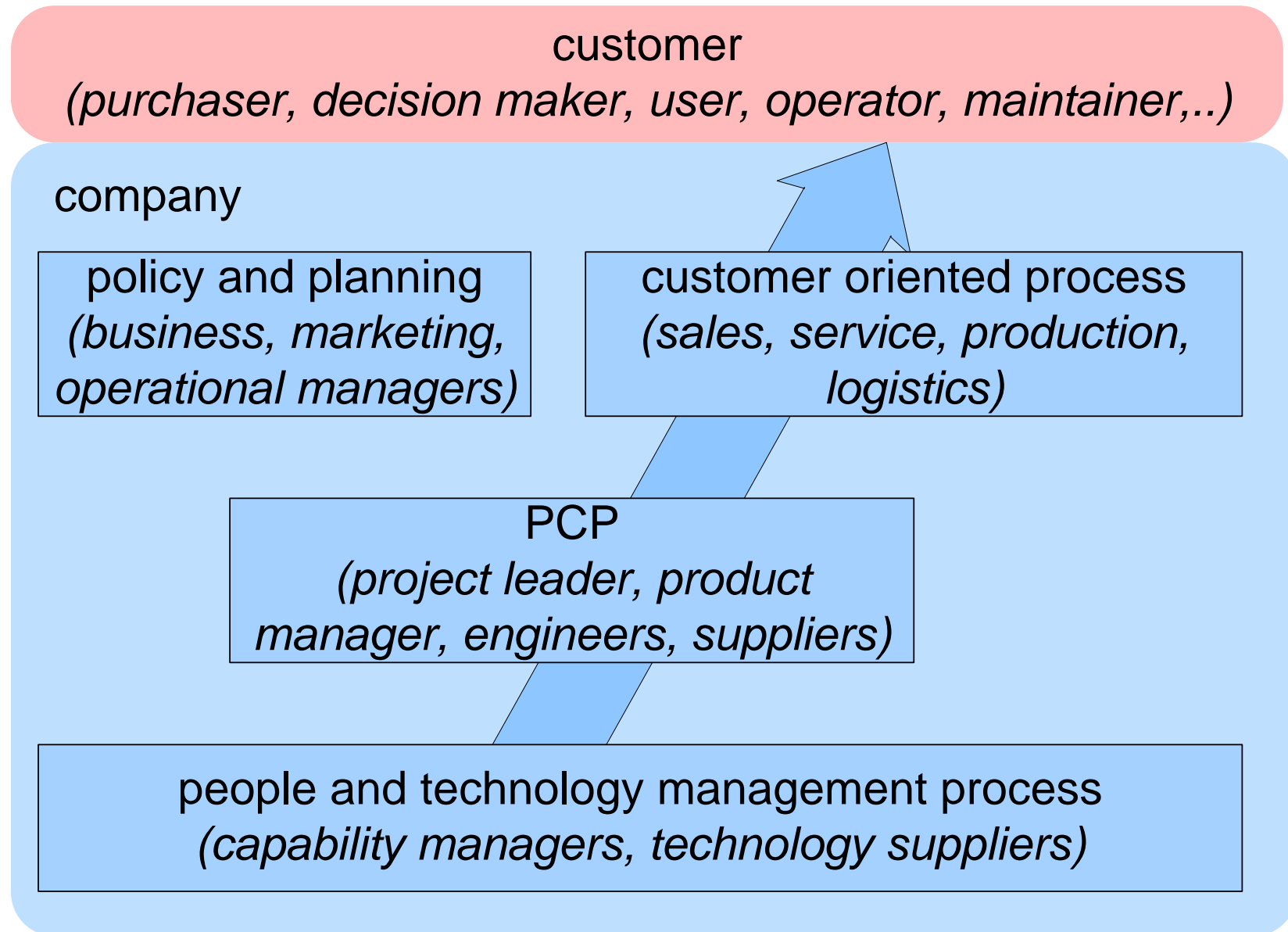
Value chain



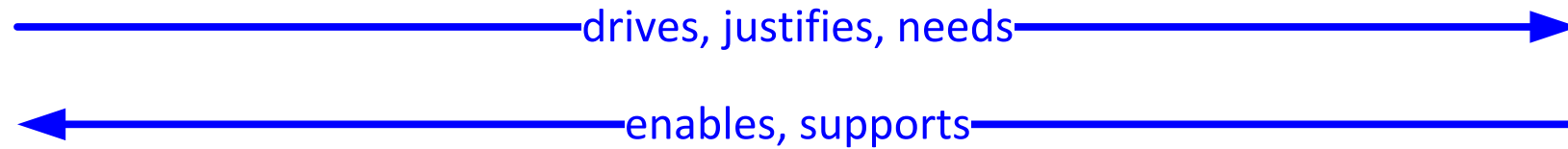
Stakeholders and concerns



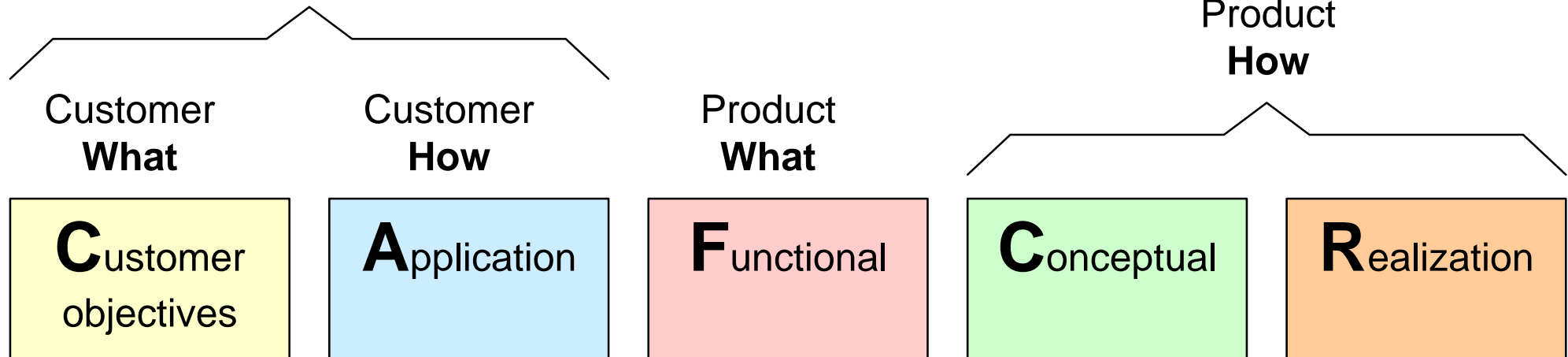
Internal stakeholders



The "CAFCR" model

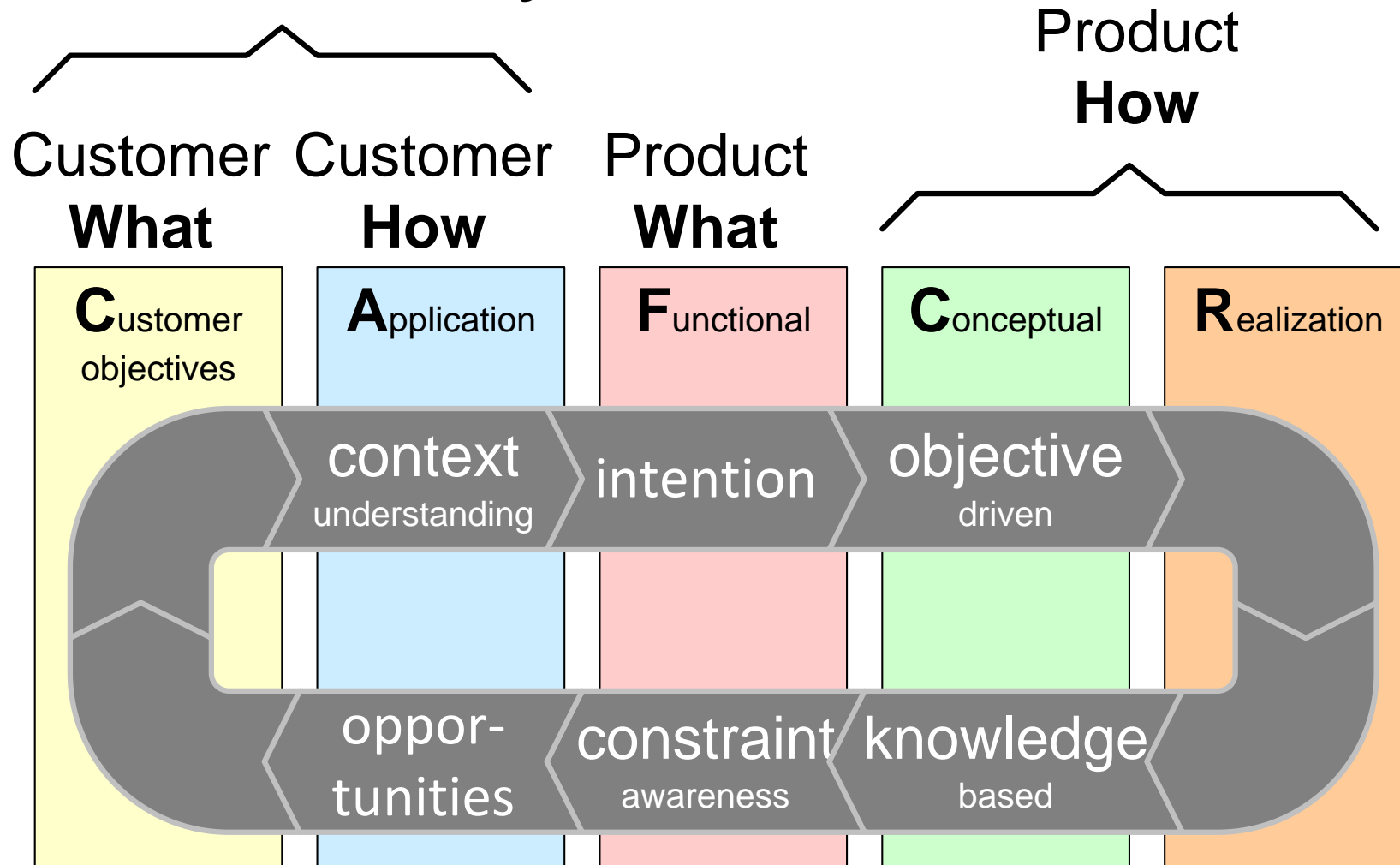


What does Customer need
in Product and **Why?**

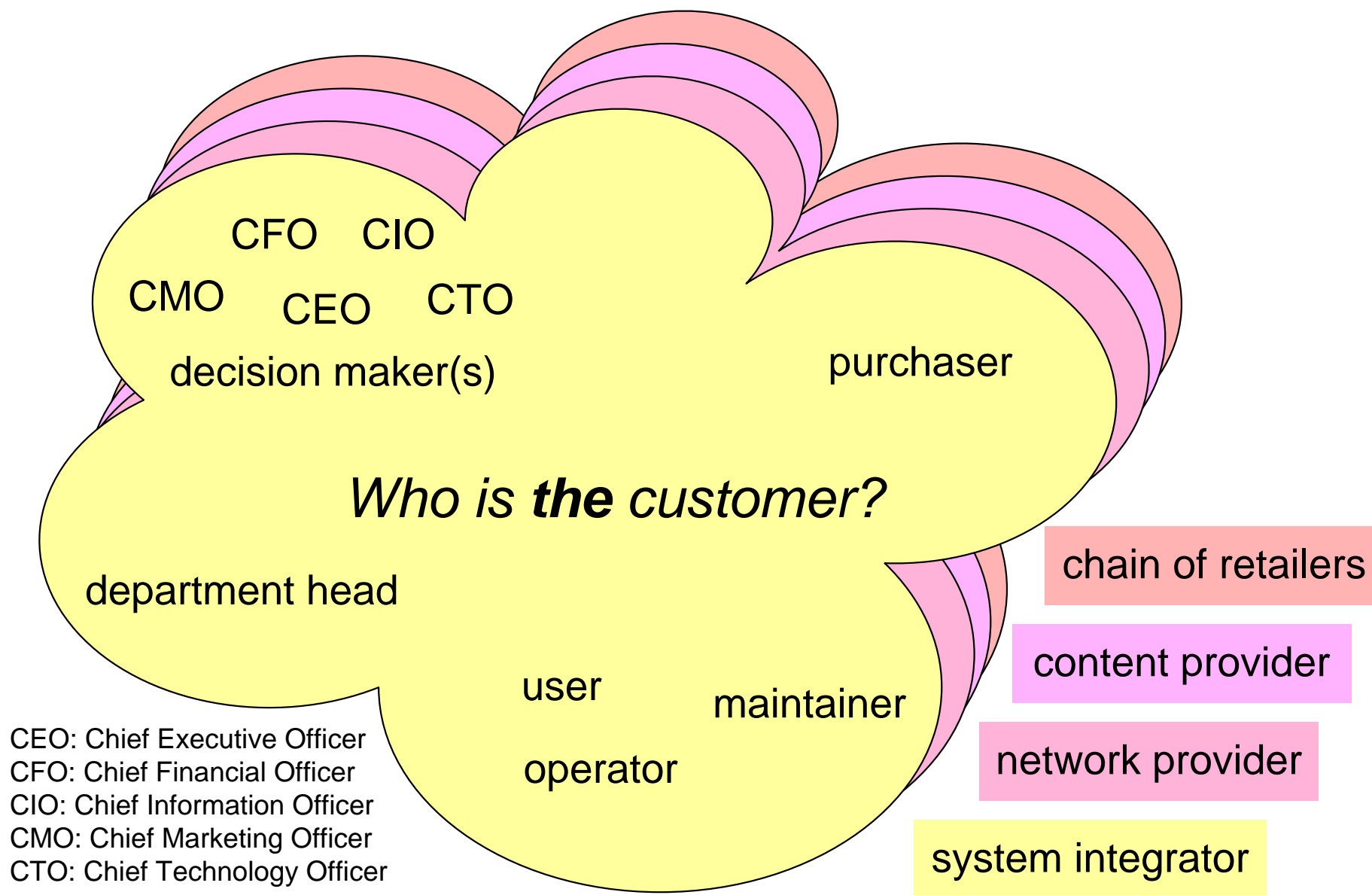


Integrating CAFCR

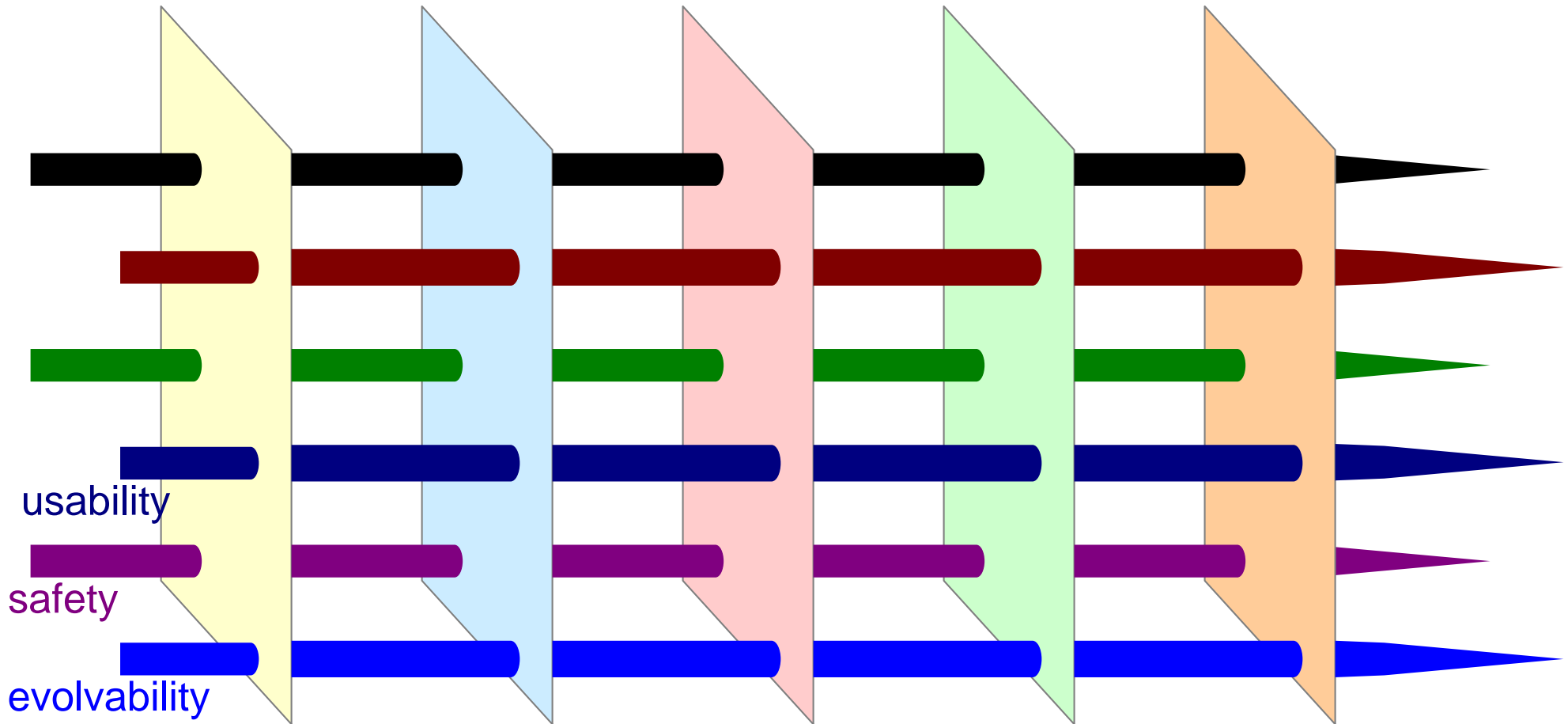
What does Customer need
in Product and **Why?**



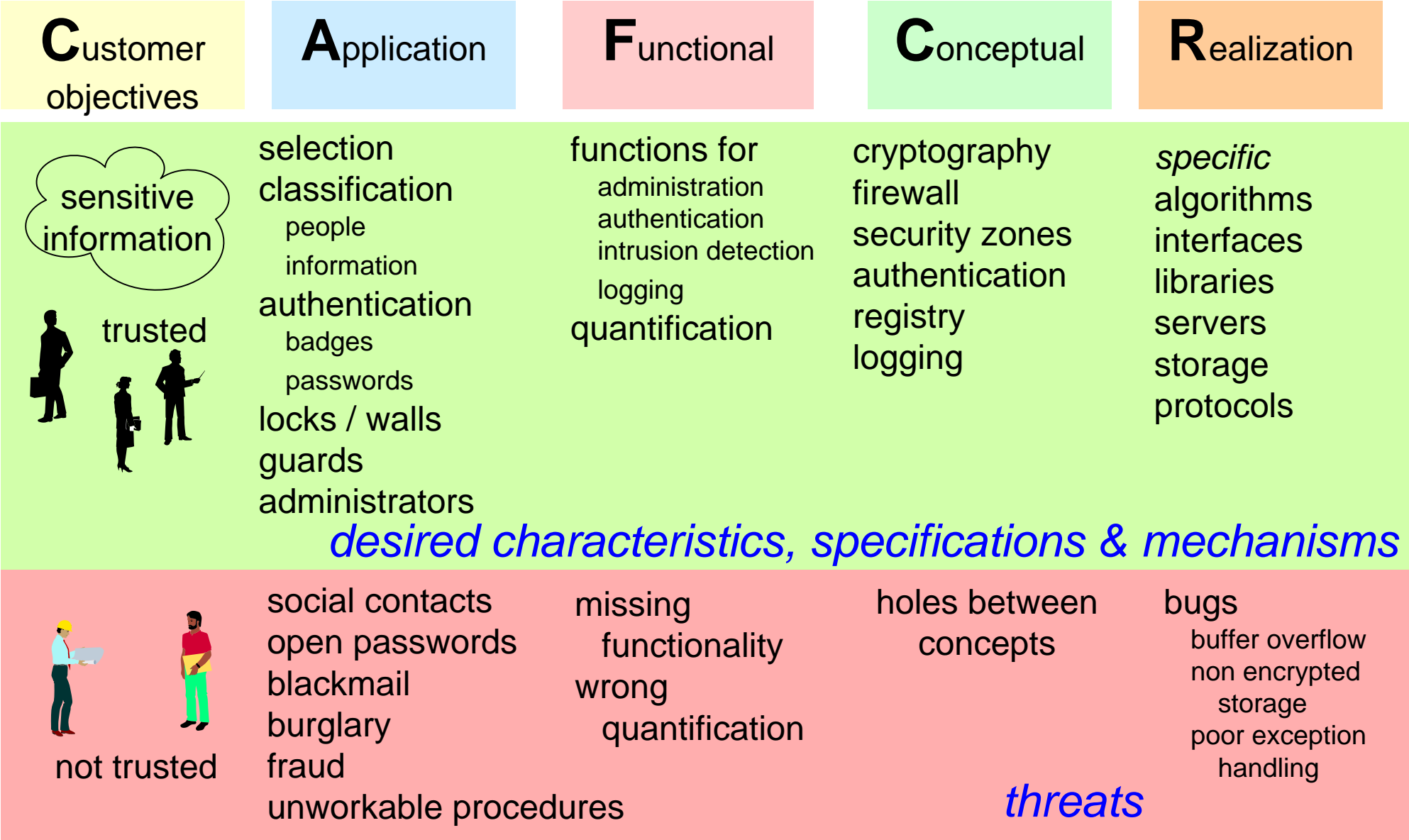
The abstracted customer



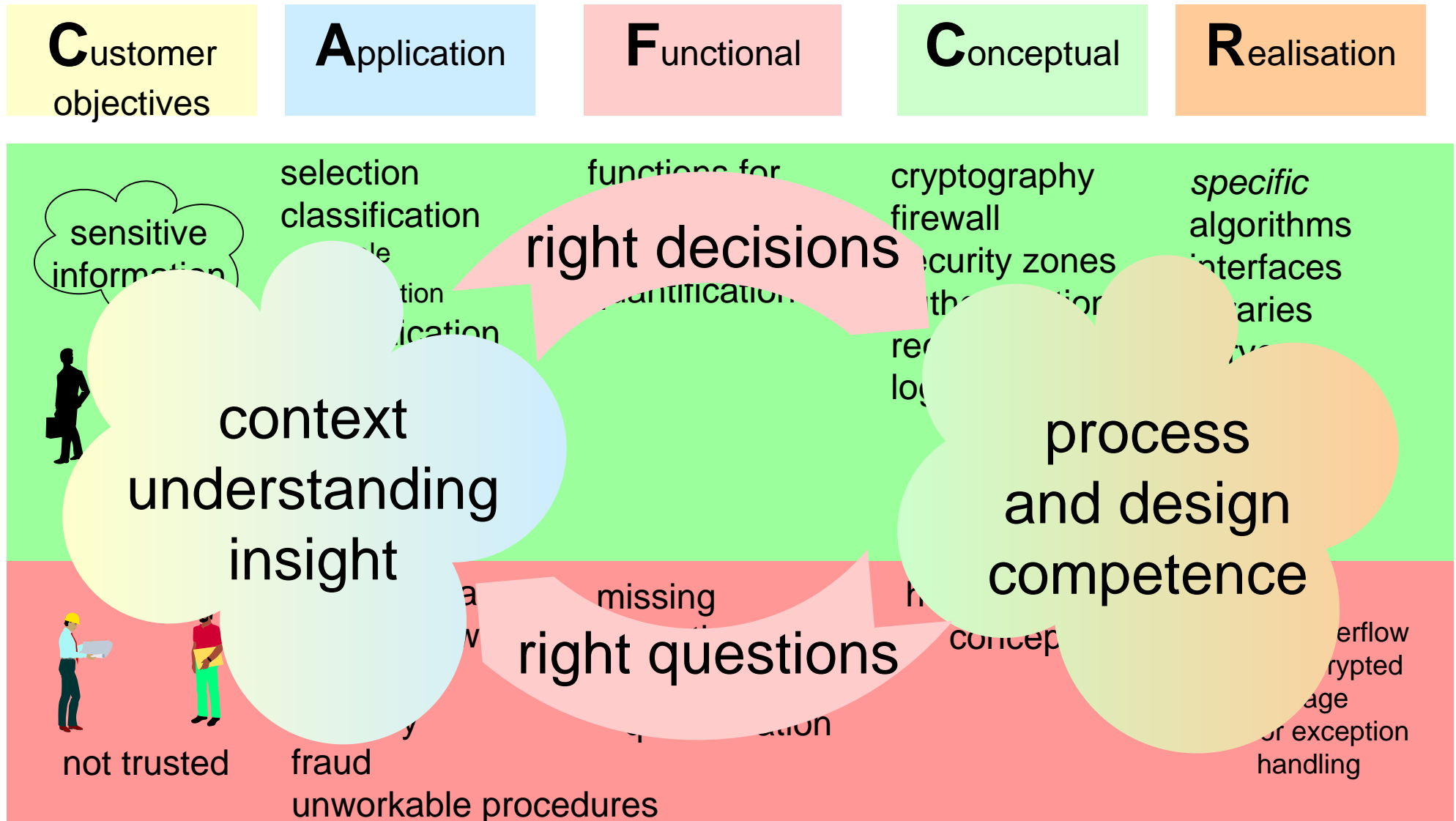
Quality needles as generic integrating concepts



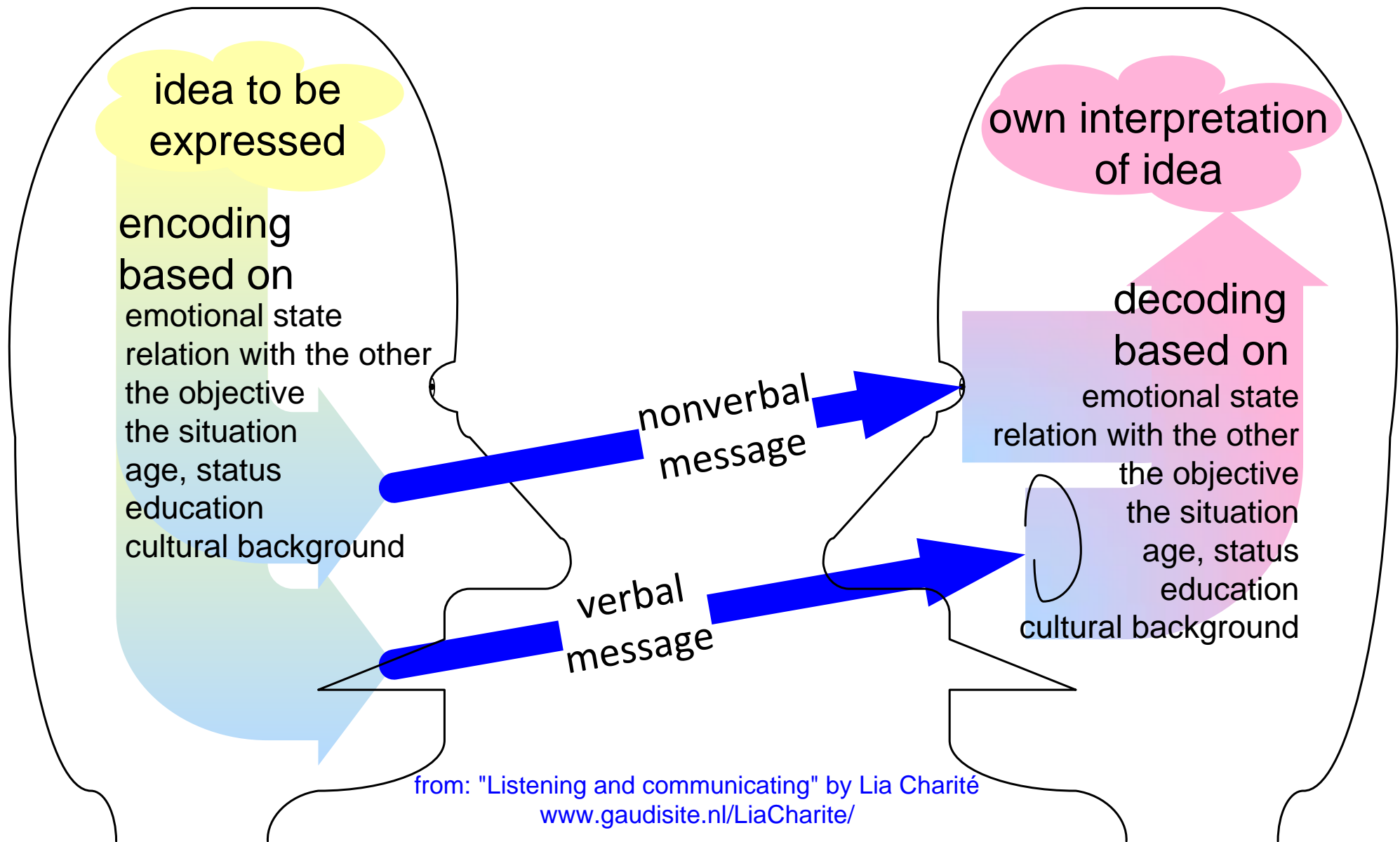
Security as example through all views



Role of the views

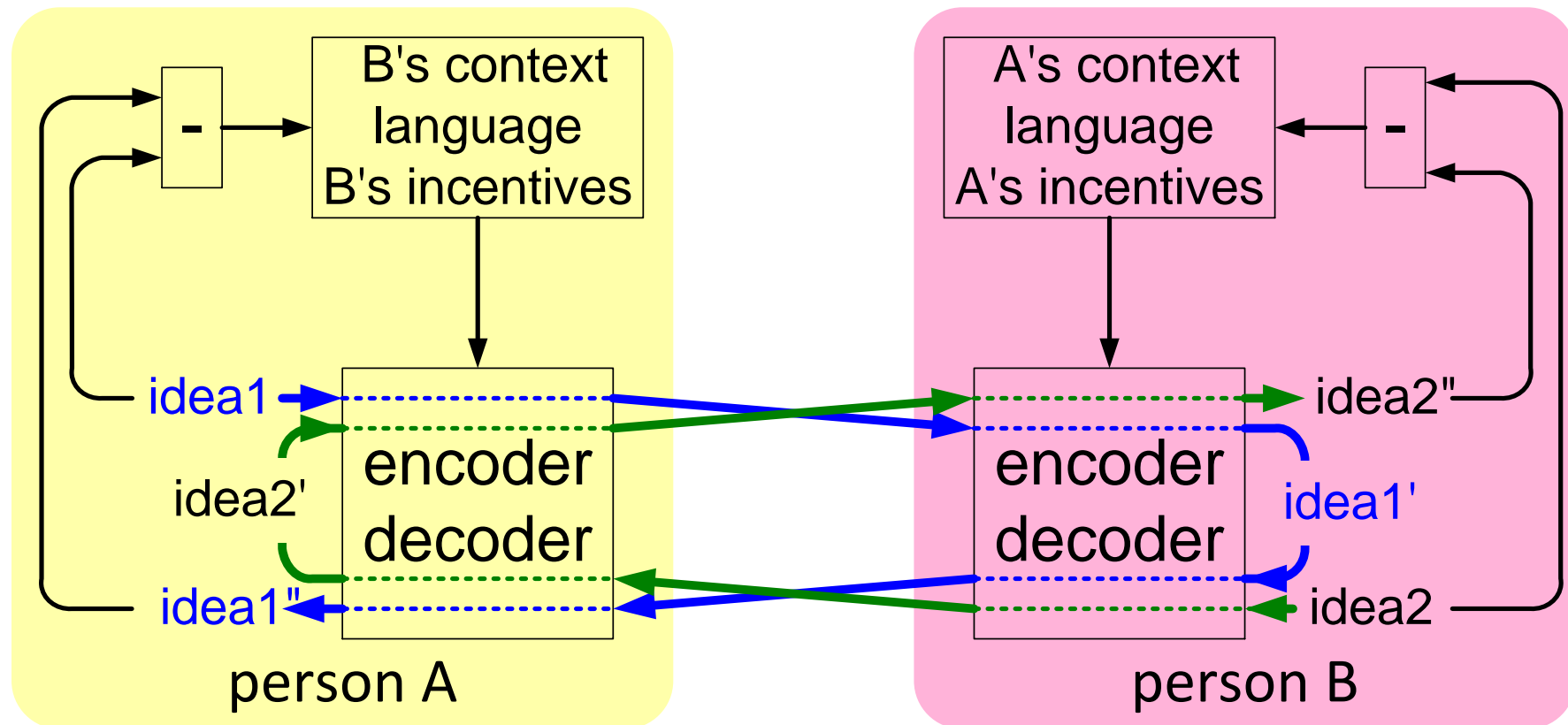


Active listening: the art of the receiver to decode the message

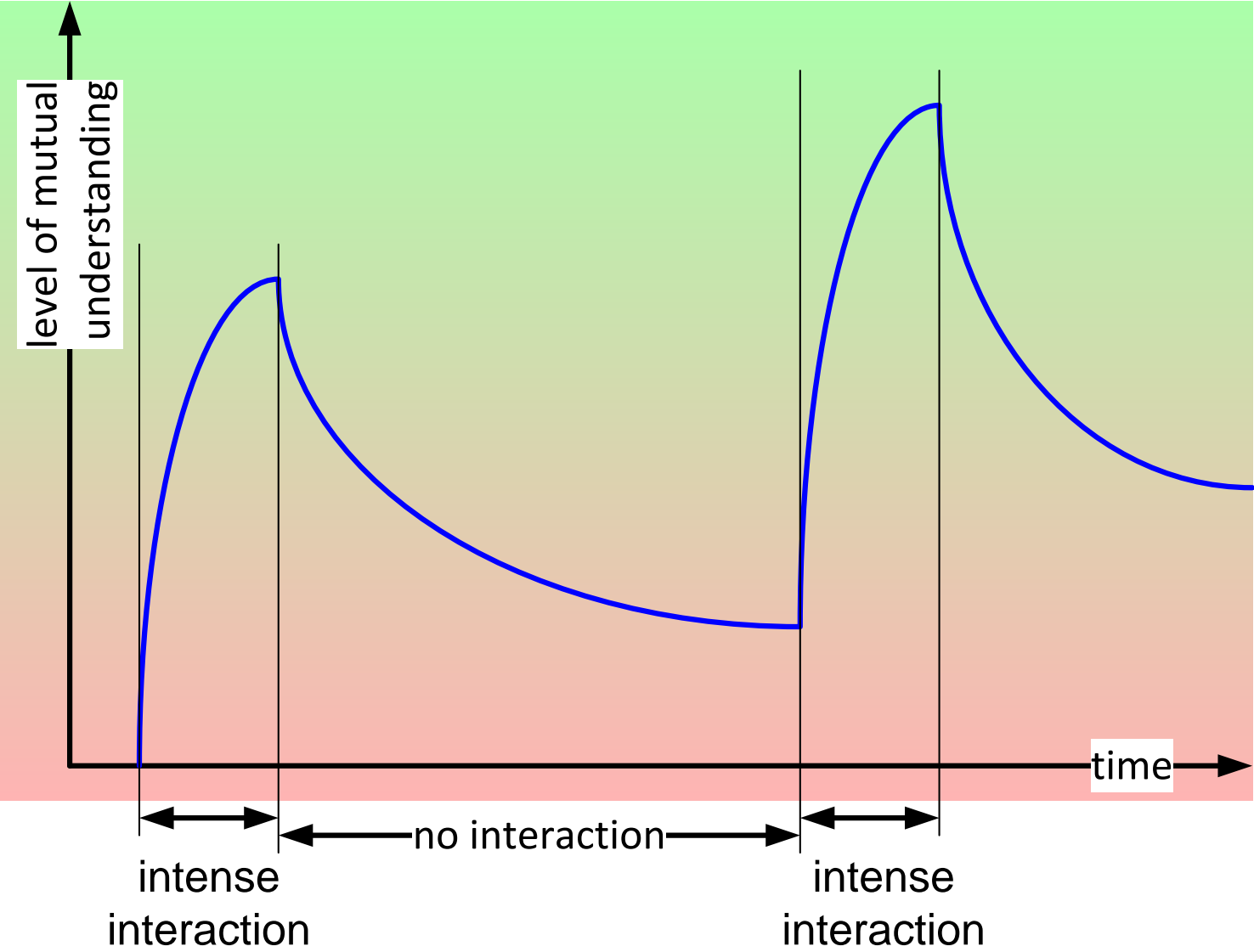


Intense interaction needed for mutual understanding

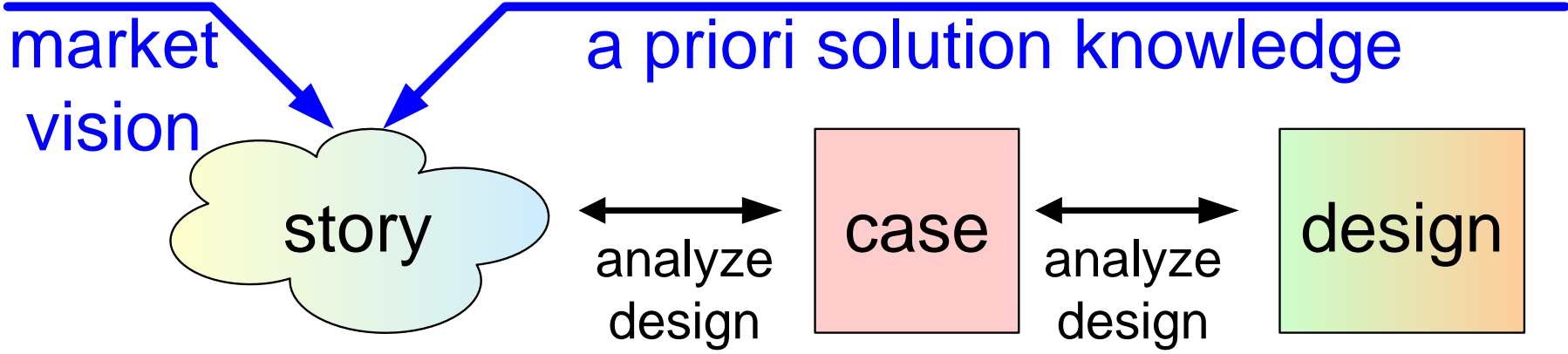
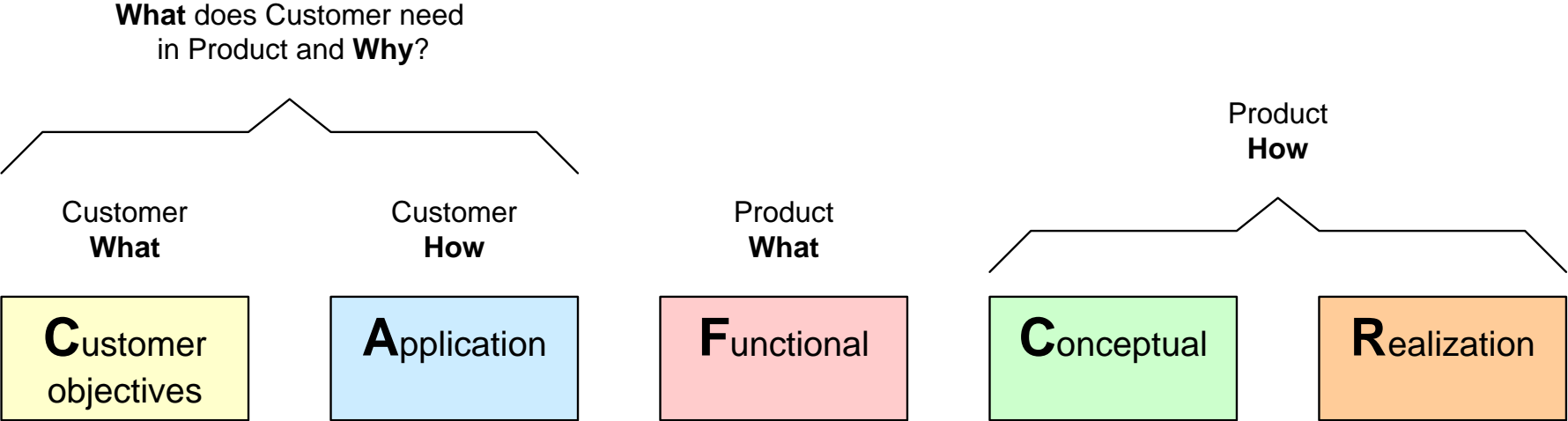
to calibrate:
repeat many times with different
examples, illustrations, and explanations



Mutual understanding as function of time



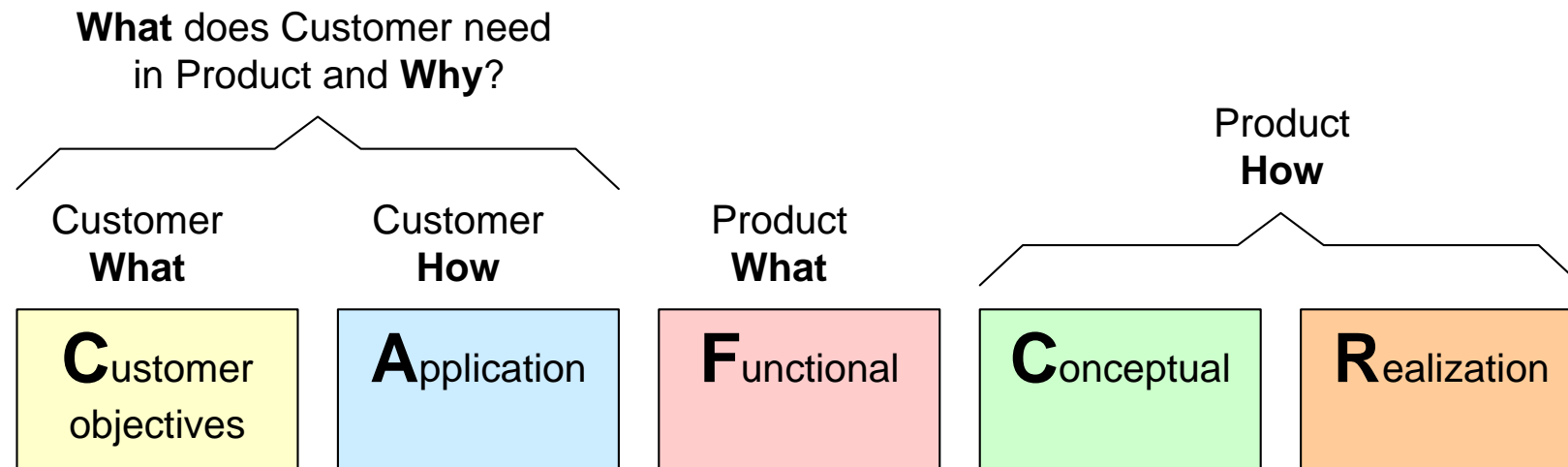
Story telling method



How do these stakeholders communicate?

| stakeholder | primary thought | threat |
|-------------------------|--|--|
| consumer | privacy | kill usability |
| content provider | DRM, consumer == pirate | kill usability kill market |
| Chief Financial Officer | how to stay in control | kill usability |
| operational manager | result in time, accessibility | security |
| web engineer | PHP only supports alphanumeric password | poor password protection |
| crypto engineer | 128 bit keys | no attention for key handling process |

Summary



CAFCR, as shared reference, enables:

- + Positioning of concerns, problems and solutions
- + Checklists per view
- + Reasoning top down and bottom up