

June 1, 2022



The Hitchhikers Guide to Requirements Engineering

How to solve the daily 42 problems with feature based requirements engineering

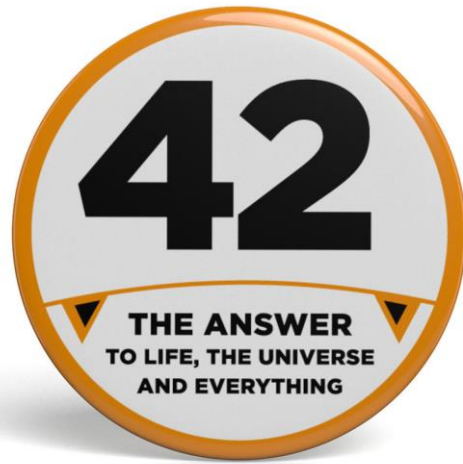
42 – the answer to everything



Arthur Dent



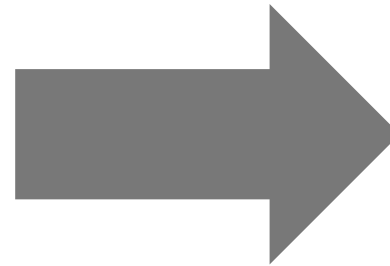
Ford Prefect



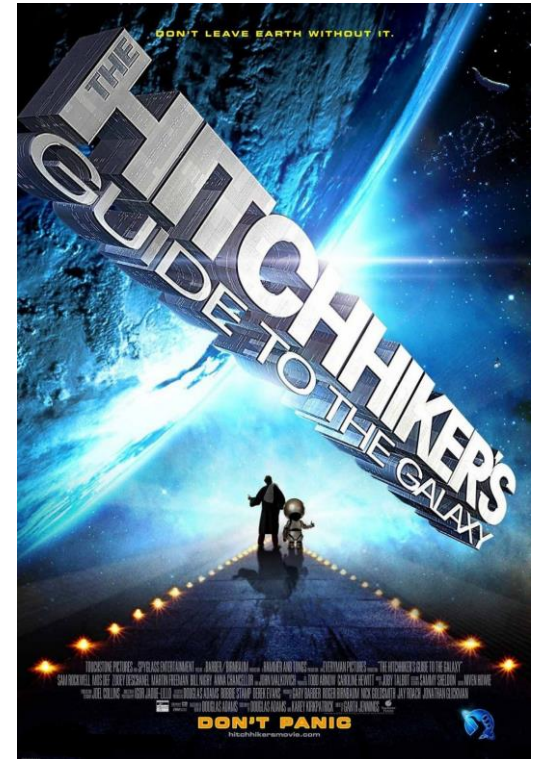
Deep Thought



Marvin



Prostetnik Vogon Jeltz



The 42 problem in a Product Creation Process



- “One of the things Ford Prefect had always found hardest to understand about humans was their habit of continually stating and repeating the very very obvious.” Like – we need better product documentation ?
- “We demand rigidly defined areas of doubt and uncertainty!” – Like products we do not know much about?
- The 42 problem – we have products and solutions. Answers to questions. But what was the question why we did it? And for whom?

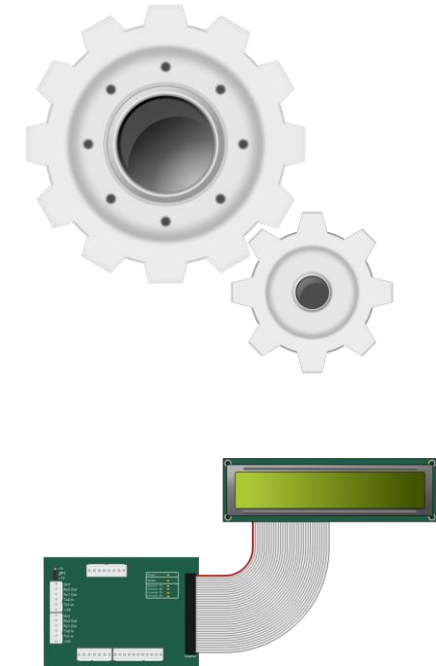
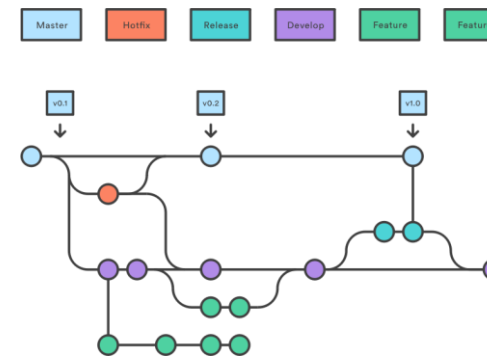
The 42 problem in a Product Creation Process

What we often know about products and solutions:

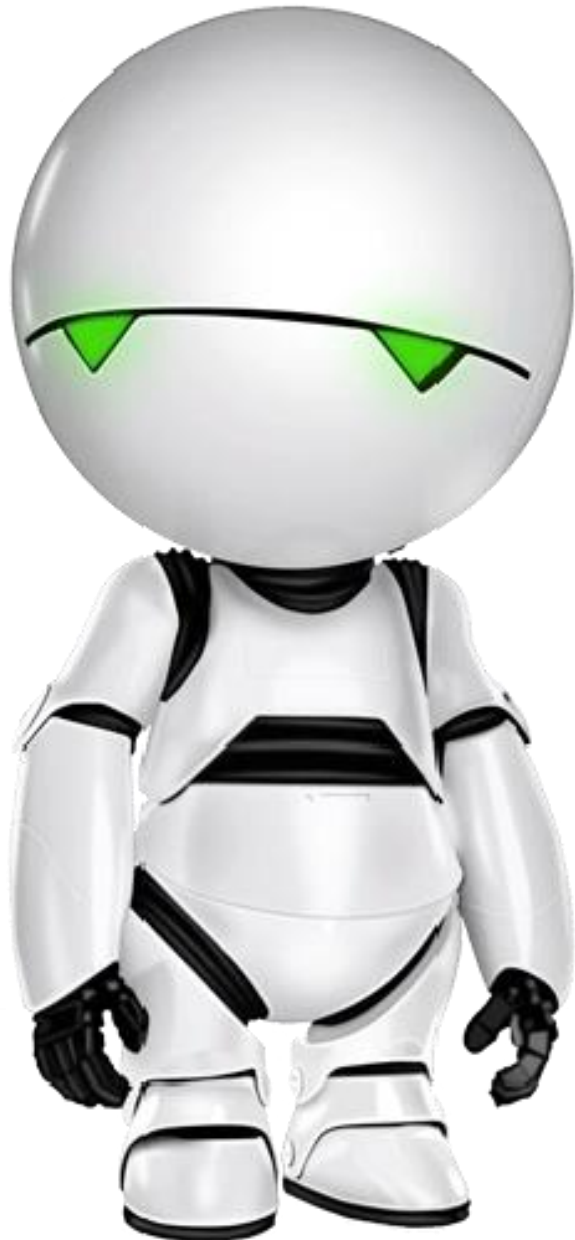
- Which software it has
- Which gears we used
- Which cables and sockets are in place
- Who to ask for issues

What we do not know:

- Why we did it
- How everything relates to each other
- Who we are satisfying



The big picture is missing - 42



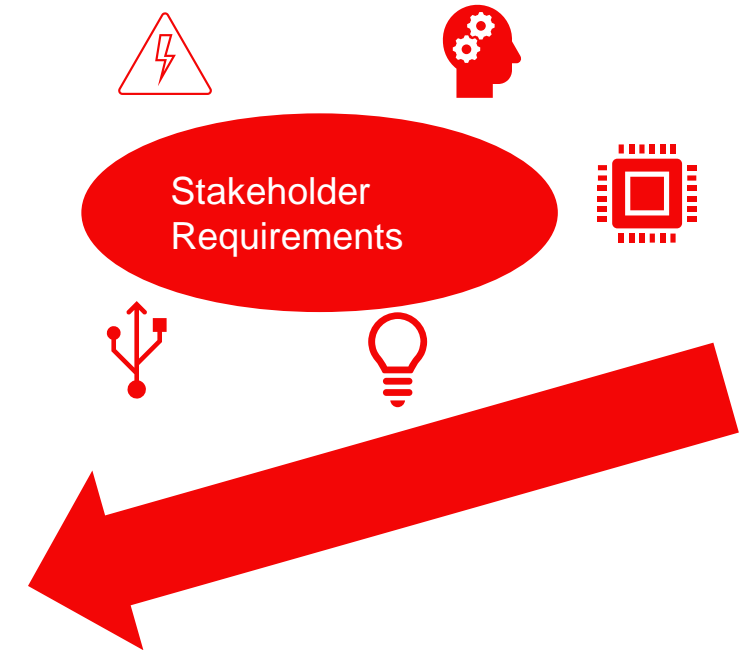
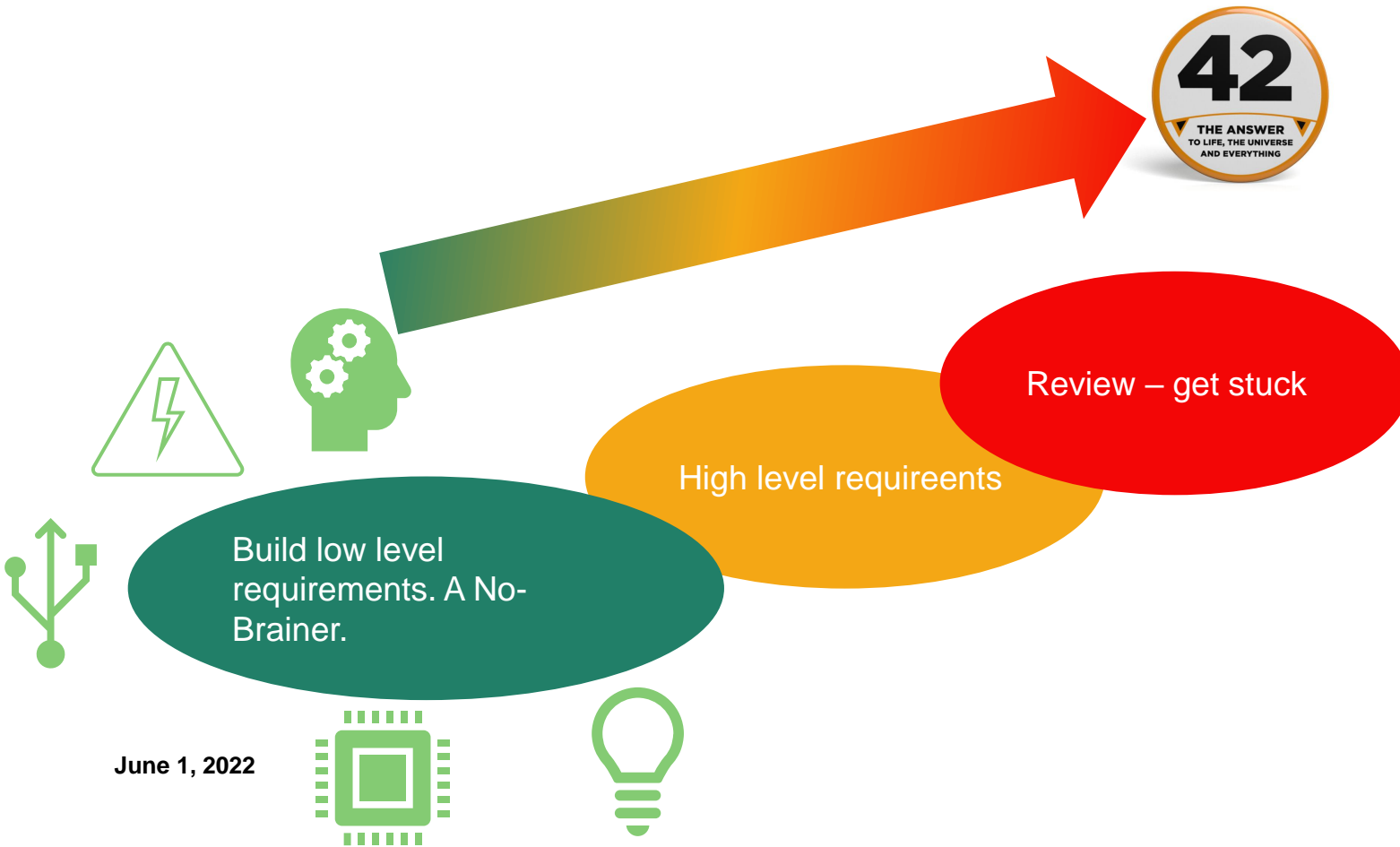
The Marvin mindset in RE

Here I am, brain the size of a planet, and they tell me to take you up to the bridge. Call that job satisfaction? 'Cos I don't.

- We want to build products because we are very good at it.
- We want to deal with wheels, gears, MCUs, and software because we are good at it.
- Requirements - what for if we already have the answer
- There is daily business which is more important – schedule and costs

Disclaimer: Belimo demonstrates a clear mindset towards modular requirements and reusability throughout the company.

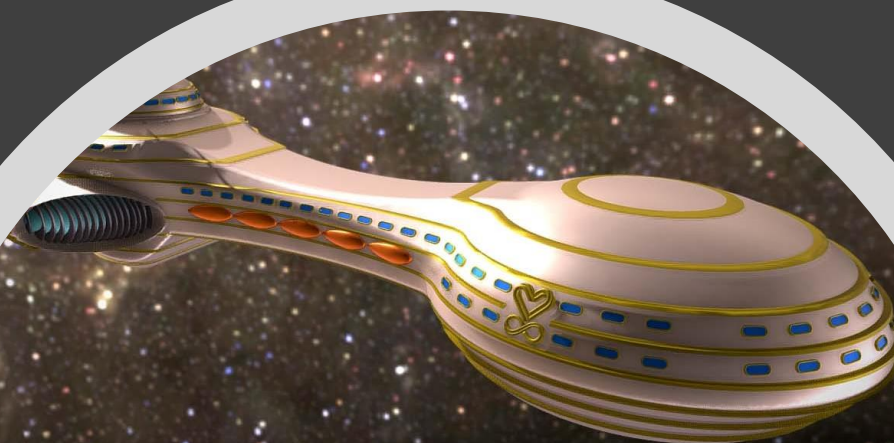
Top down or bottom up – what is the answer to everything?



“As a Facility Manager I want a 9600bps serial line with RTS/CTS handshake.”

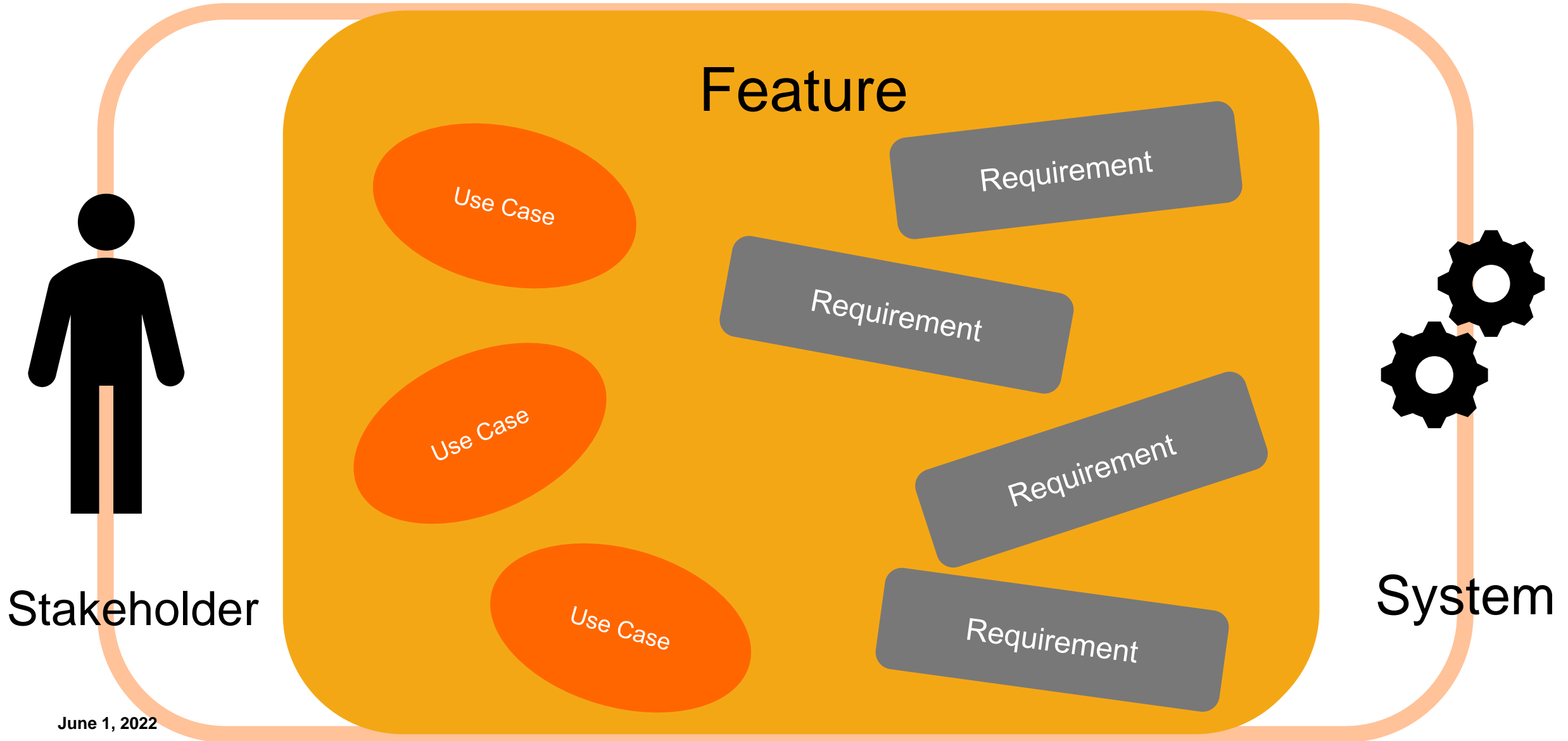
Chaos in the universe – the Infinite Improbability

Building a bridge from two sides only succeeds if both ends meet exactly in the middle. Not 2m aside.

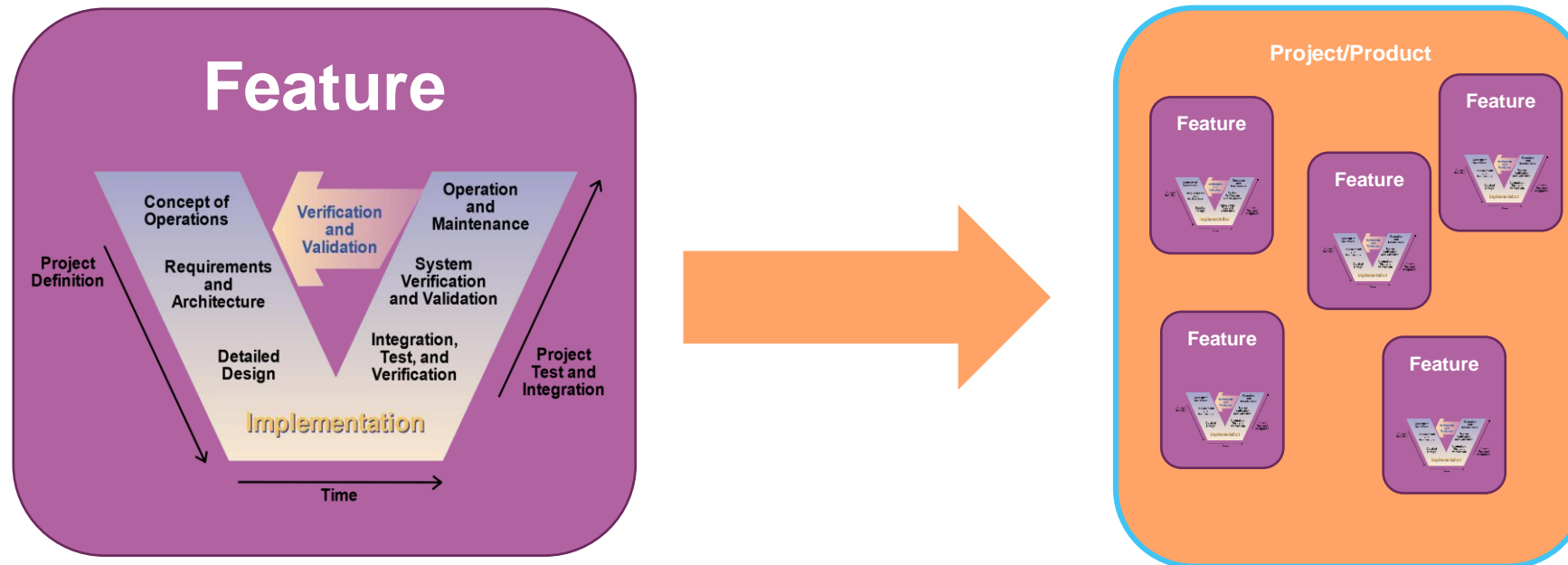


Requirements Engineering is like using an “infinite improbability drive” where anything can happen. Just not the expected.

Features – answer to life, the universe and everything



Features & the V model



A feature organizes functionality providing structure which should be realized inside its own V. The sum of all realized features then results in a final product.



**DON'T
PANIC**

Ask questions



So long
AND THANKS FOR ALL THE FISH

Belimo

**Requirements
Engineering**



BELIMO[®]
