



Requirements Management and Legacy Systems

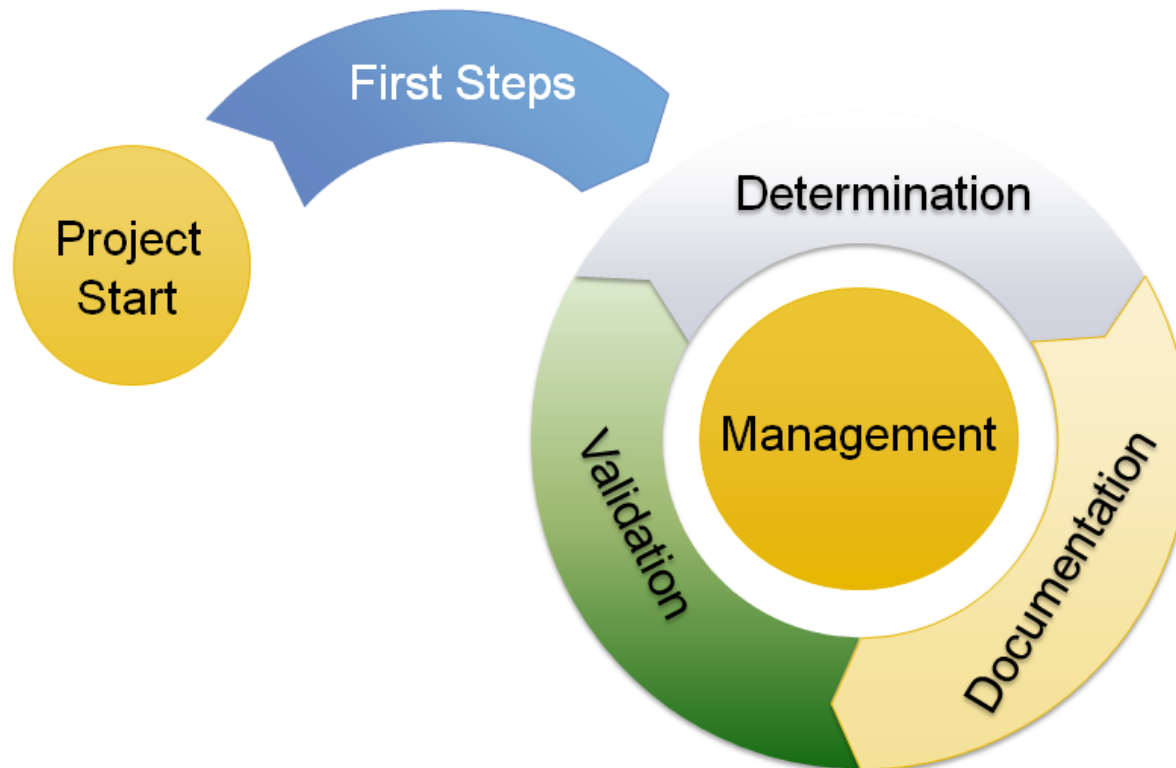
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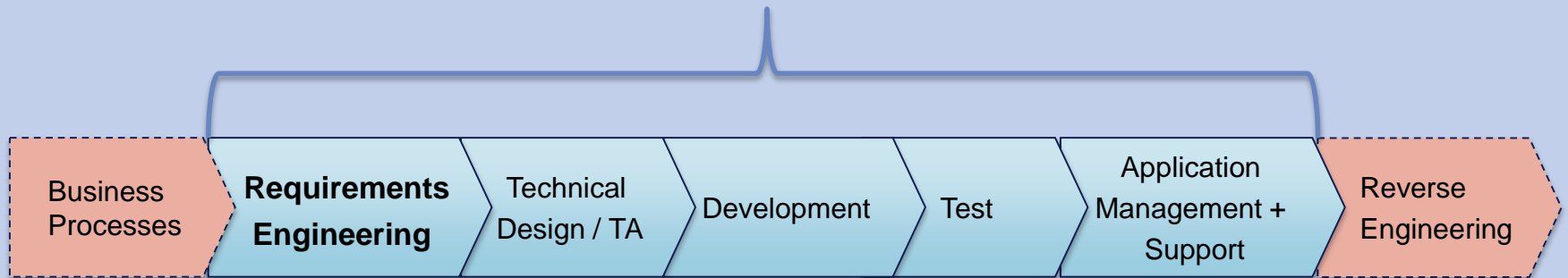
Short definition:

A systematic approach to determine, document, validate and manage the requirements of the system.

Process Model Requirements Engineering



Software Engineering Lifecycle



Assets

- Trustworthy
- Reliable
- Useful
- Users are familiar with it

Burden

- A barrier to innovation
- Unflexible
- Often very little documentation
- High maintenance costs
- Low scalability
- Integration problems

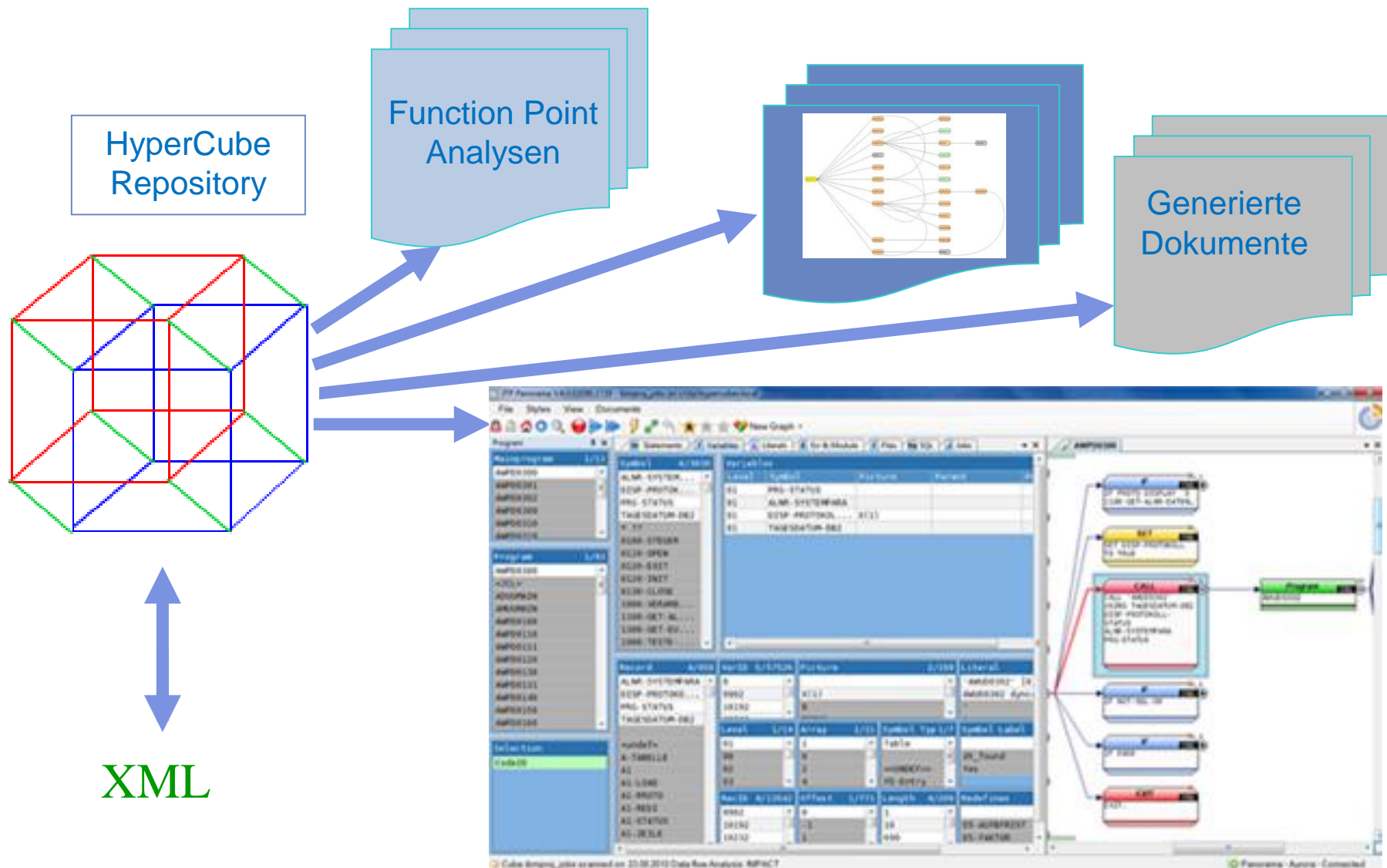
Something has to be done to overcome the burden



Modernisation and further use
Replacement by an of-the-shelf product
New development

The Precondition (for all alternatives)







▶ Precondition: good documentation or Reverse Engineering

Opportunity	Risk
<p>☺ Low short-time costs</p>	<p>☹ Modernization options are limited</p> <p>☹ Inadvisable if requirements are changing frequently</p>

Reduce the Risk by:

- ✓ Automatically translate from old programming language to a modern one, then re-engineer to a modern structure
- ✓ Choosing one of the other alternatives



▶ Precondition for successful selection and launch: professional RE

Opportunity	Risk
<p>☹ Introduction of a stable system</p>	<p>☹ Internal processes might have to be changed in order to fit the functionality of the product</p> <p>☹ Higher costs if product has to be adapted to the internal processes</p>

Reduce the Risk by:

- ✓ Choosing a modular system → easier to adapt to process needs
- ✓ Finding a good compromise between costs and process changes



▶ Precondition for successful implementation: professional RE

Opportunity	Risk
<p>☺ System fits the needs of the customer (e.g. internal processes, technology)</p>	<p>☹ High costs</p> <p>☹ The bigger the system or the IT project, the bigger the risk of a failure</p>

Reduce the Risk by:

- ✓ Agile development
- ✓ Split in modular systems → smaller projects
- ✓ Well trained IT team (e.g. SCRUM, Requirements Engineering etc.)

- ▶ In order to stay competitive on the market - e.g. with new insurance products - the legacy systems have to be modernised at some point
- ▶ 3 alternatives were introduced with their advantages and disadvantages
- ▶ Different forms of Requirements Engineering are always a precondition for a successful IT project
- ▶ Please come and get to know some basics of Requirements Engineering in my workshop in the afternoon

Thank
You!

A hand holding a black marker is shown in the process of writing the words 'Thank You!' in a cursive script on a white background. The word 'Thank' is on the top line, and 'You!' is on the bottom line. The hand is positioned to the right of the text, with the marker tip touching the end of the exclamation point.