

Fakultät Informatik - Institut Software- und Multimediatechnik - Softwaretechnologie - Prof. Aßmann - Software as a Business

## 22. Product Management

Prof. Dr. Uwe Aßmann
Softwaretechnologie
Fakultät Informatik
Technische Universität Dresden
2020-1.1 12/5/20
http://st.inf.tu-dresden.de/teaching/saab

- 1) What is "Operational Product Management"?
- 2) What is "Strategic Product Management"?

### Literature

#### 2 Software as a Business

- Free books
  - https://www.pro-productmanagement.com/tools/product-management-books-fre
- ► Harry Sneed. Software Produktmanagement.: https://www.researchgate.net/publication/221215931





Fragen: wie kann man das spannender machen?

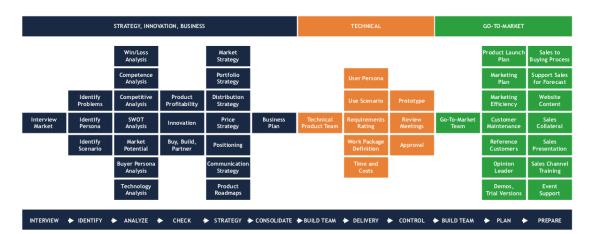
## Steps in Product Management (Without Evolution)

Software as a Business

Von Frank Lemser - https://open-pmw.org/, CC BY-SA 4.0, https://commons.wikimedia.org/w/index.php?curid=85756179

#### Open Product Management Workflow™

A market-driven step by step model for developing and managing innovative products & business.



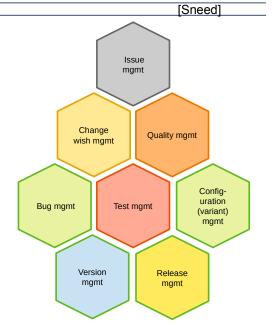
Open Product Management Workflow™ is community project, a trademark of Frank Lemser and licensed under a Creative Commons Attribution-ShareAlike 4.0 International (CC BY-SA 4.0) License and www.open-pmw.org/license.html

### **Products Must be Evolved**

Release management needs many different activitiesmust be continuous activity

Visit our other courses!

Software as a Business

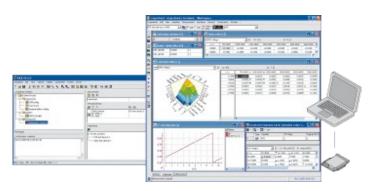




## Product Management (Car Diagnosis Software)

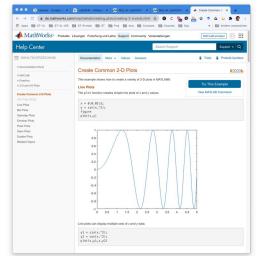
#### 6 Software as a Business

- https://de.wikipedia.org/wiki/INCA\_(Software)
- http://www.etas.com/de/products/inca.php
- How many releases can your recognize? How often? https://www.etas.com/de/portfolio/inca\_software\_products-inca\_service\_packs.php



Von Filiz1982 - Eigenes Werk, CC BY-SA 3.0 de, https://commons.wikimedia.org/w/index.php?curid=22732388

- Website with many of the items of a product landing page
- https://de.wikipedia.org/wiki/The\_MathWork s
- https://de.mathworks.com/company/newslet ters/articles/the-origins-of-matlab.html
- http://www.mathworks.com/tagteam/72887 \_92020v00Cleve\_Growth\_MATLAB\_MathW orks\_Two\_Decades\_Jan\_2006.pdf
- Analyze the pricing models
  - https://de.mathworks.com/pricing-licensi ng.html?s\_iid=hp\_ff\_t\_pricing
- How many tutorials? https://de.mathworks.com/help/examples.ht ml?s\_tid=hp\_ff\_l\_examples
- User conferences https://de.mathworks.com/company/events. html?s\_tid=gn\_ev



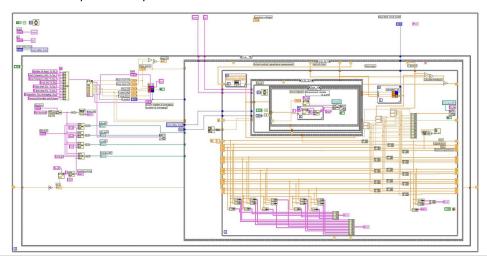


### National Instruments LabView

8 Software as a Business

Von Labvi - Eigenes Werk, Gemeinfrei, https://commons.wikimedia.org/w/index.php?curid=4783196

- Visual editor for Simulink specifications (simulations, continuous simulations)
- https://www.ni.com/de-de/shop/labview.html
- ► How many releases can you count? https://de.wikipedia.org/wiki/LabVIEW
- How many books? Explanation videos?





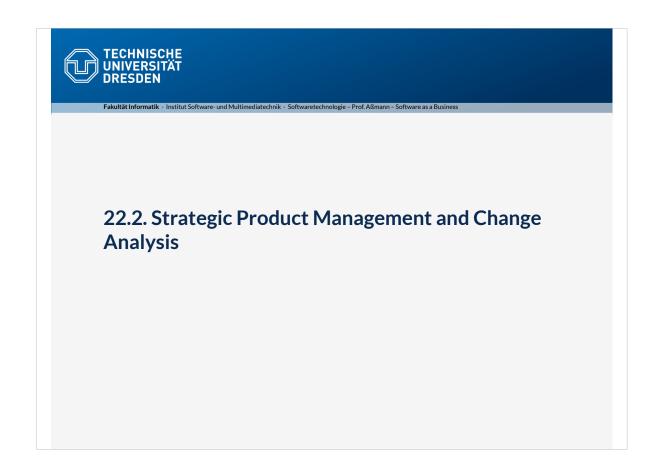


- https://www.camline.com/de/prod ukte/cornerstone/
- Blog-style landing page
- ▶ Benefit-oriented magnetic headline
- Opt-In Button "more infos"
- Reference Story
- Contact Form
- Demonstration of different domains for application of product









Fragen: wie kann man das spannender machen?



Fakultät Informatik - Institut Software- und Multimediatechnik - Softwaretechnologie - Prof. Aßmann - Software as a Business

# 22.2.1 Change Analysis with Change Canvases

- Value Proposition is about what customers need today
- Change analysis is about what customers will need tomorrow

# Change Patterns the Lean Innovator has to Know and the Opportunities in the SWOT Analysis

12 Software as a Business

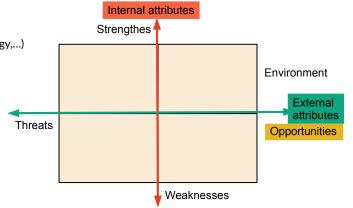
#### External factors of change:

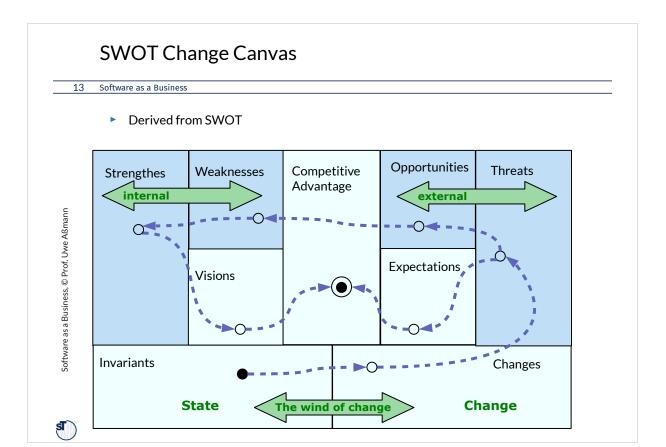
- Society
  - Finding new governance rules and laws (Sarbanes-Oxley, certifications)
  - Change of government, also in other countries (Wende, Treuhand...)
- Nature
  - Times of the year
- Technology
  - New technology (innovation waves, disruptive technology,...)
  - Digitalization
- Economics
  - Commodity pattern
  - Economic cycles

#### Internal factors of change:

- Supplier changes
- Patents expire





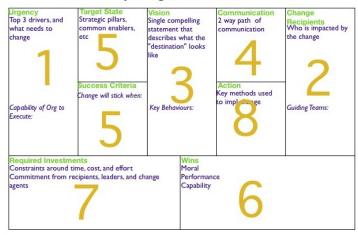


## Lean Change Canvas

#### 14 Software as a Business

- http://agile consulting.blogspot.de/2012/08/lean-change-part-1-combining-kotter-and.html?m=1
- https://canvanizer.com/new/lean-change-canvas
- https://leanchange.org/resources/canvases/

# Lean Change Canvas Brainstorm your organizational transformation





### The End

#### 15 Software as a Business

- Why is change analysis important in strategic management?
- How many releases of a product per year are reasonable?
- How will you organize testing for the releases?
- How do you ensure documentation for developers?
- Explain how you set up the activities for release management.

