

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

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





22.1 Operational (Technical) Product Management

- Release management (planning)
- Quality control
- Version management
- Testing
- Documentation
- Experience recording

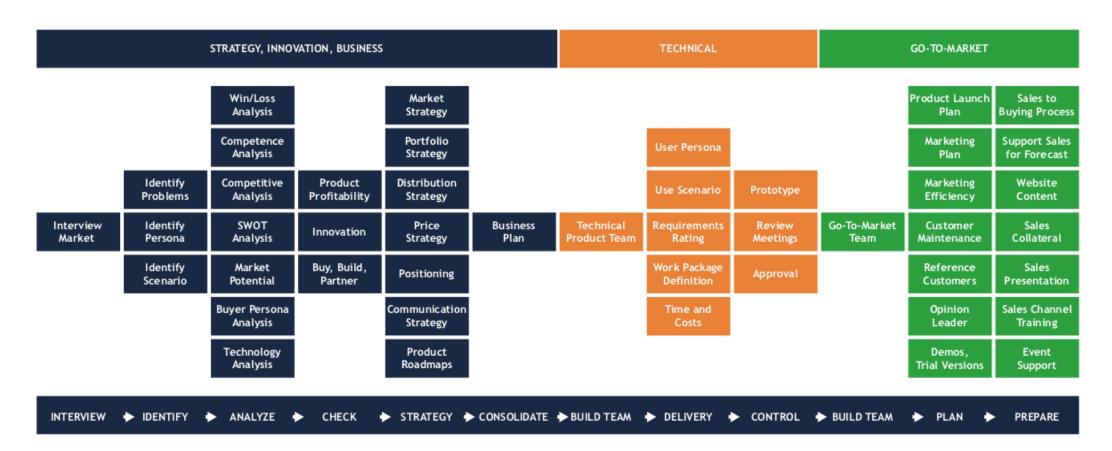
Steps in Product Management (Without Evolution)

4 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™

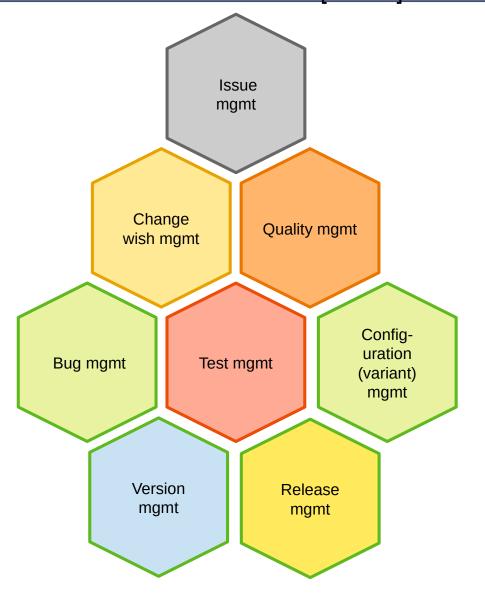
A market-driven step by step model for developing and managing innovative products & business.



Products Must be Evolved

5 Software as a Business [Sneed]

- Release management needs many different activities
 - must be continuous activity
- Visit our other courses!

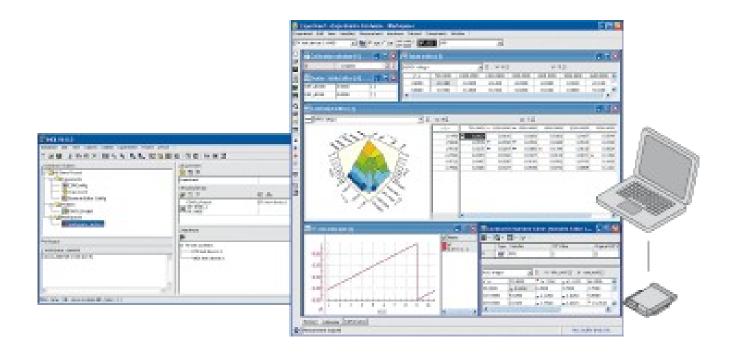




Product Management (Car Diagnosis Software)

6 Software as a Business

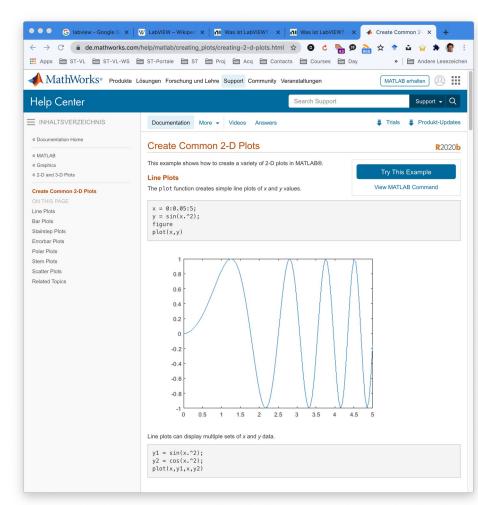
- https://de.wikipedia.org/wiki/INCA_(Software)
- http://www.etas.com/de/products/inca.php
- How many releases can your recognize? How often? https://www.etas.com/de/portfolio/inca_software_products-inca_service_packs.php



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

MathWorks / Matlab

- 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-licensing.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

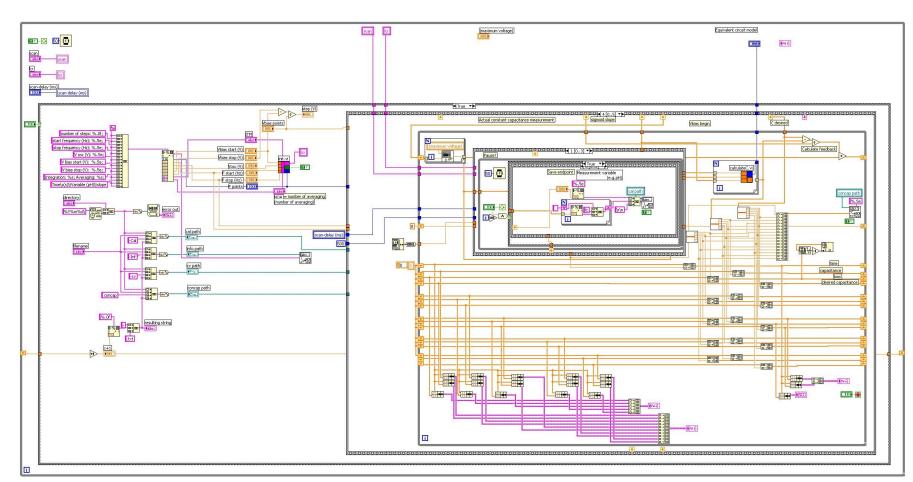




- Visual editor for Simulink specifications (simulations, continuous simulations)
- https://www.ni.com/de-de/shop/labview.html

National Instruments LabView

- How many releases can you count? https://de.wikipedia.org/wiki/LabVIEW
- How many books? Explanation videos?

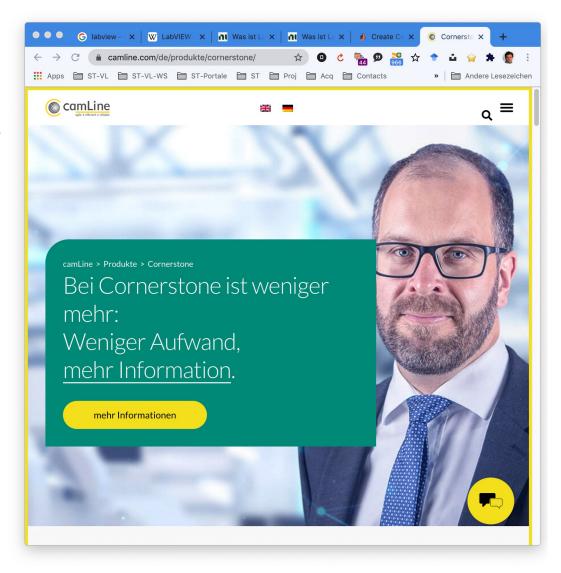






CamLine Cornerstone

- 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







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

22.2. Strategic Product Management and Change Analysis



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

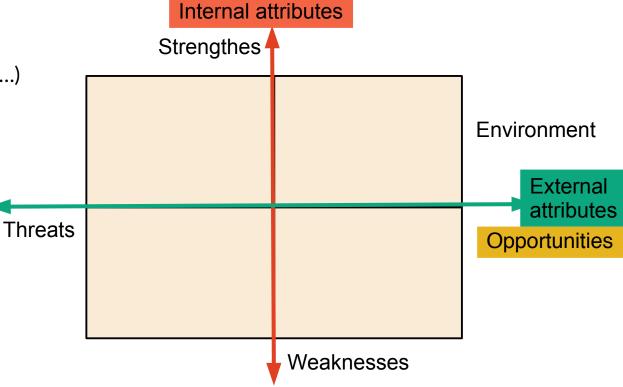
12 Software as a Business

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

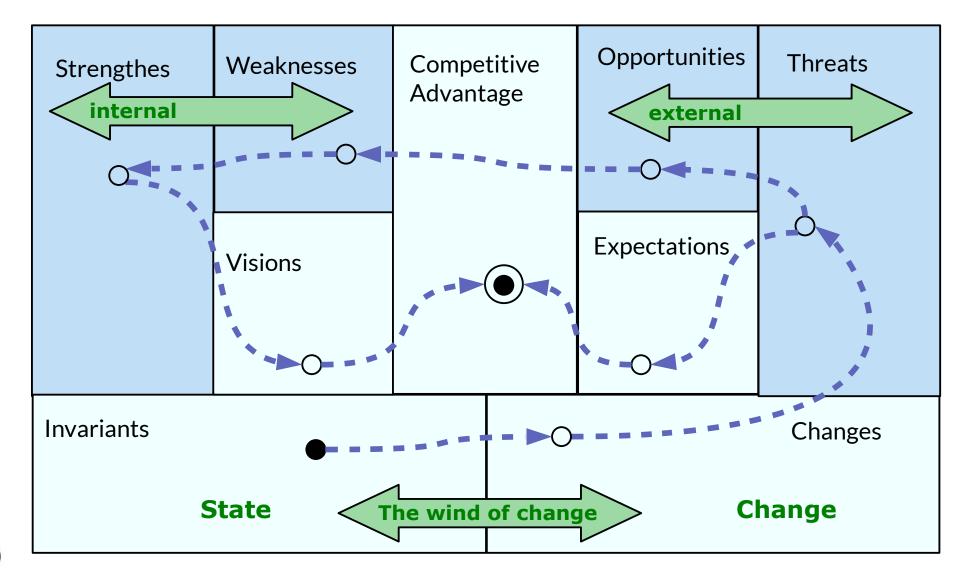




Software as a Business, © Prof. Uwe Aßmann

Derived from SWOT

SWOT Change Canvas



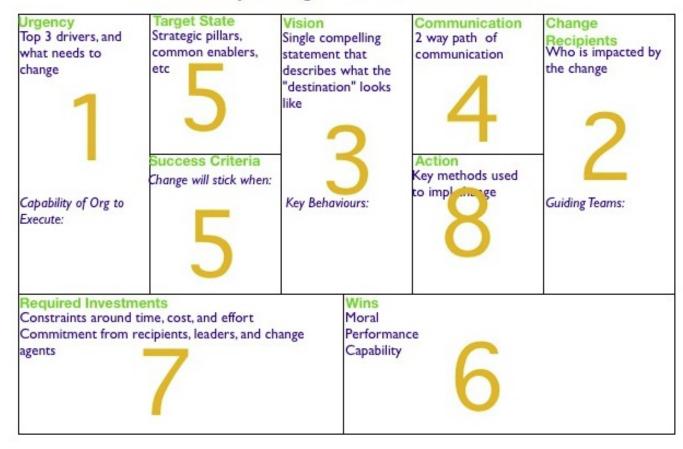


Lean Change Canvas

14 Software as a Business

- http://agileconsulting.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

- 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.

