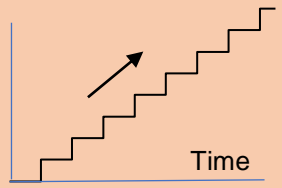


Made by
Hessel Visser ©
2020 V.2

Kaizen



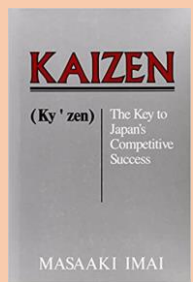
Core: IMPROVEMENT IN SMALL STEPS

Emphasis:

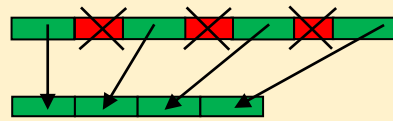
- Kai= change
- Zen= for the better
- Continuous improvement
- Fast small improvements
- Deming circle (PDCA)
- Simplicity is key
- Act on the shop floor
- Production and distribution
- 5S-approach

Initiated by: Masaaki Imai
Lives from-to: 1930 -
Country, Year: Japan, 1986
Origin: Industry

Book:
 Kaizen
ISBN:
 9780075543329
Website:
 www.kaizen.com



Lean

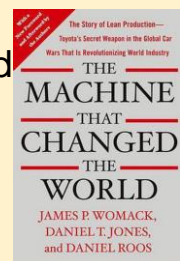


CUSTOMER VALUE THROUGH WASTE REDUCTION IN THE SUPPLY CHAIN

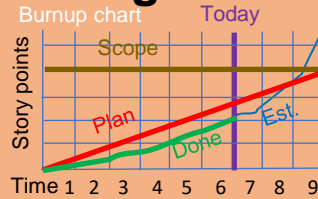
- Customer value first
- Eliminate waste (Muda)
- No overload (Mura)
- Balanced production (Muri)
- Implement standards
- Short setup times > flow
- From Push to Pull
- Kanban delivery
- The Toyota way TPS/TPM
- QRM for low vol. high var.

Jim Womack & Dan Jones
 1949 - & 1949 -
 USA/UK, 1990
 MIT/Automotive industry

The machine that changed the world
 9780743299794
 www.lean.org



Agile

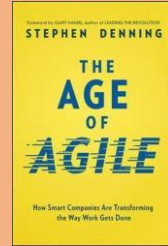


ALERT REACTION IN CHANGING ENVIRONMENTS

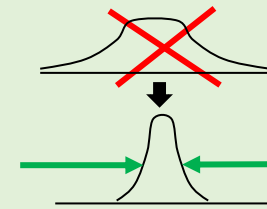
- Mindset to embrace change
- Autonomous teams
- Adjustments and feedback
- Flexibility and cooperation
- Short time to market
- Fickle customers
- Unpredictable behaviour
- Scrum framework
- Kanban boards
- SAFe-model as a next step

Manifesto for Agile Soft. Dev.
 Kent Beck & 16 authors
 USA, 2001
 Software Development

The Age of Agile
 9780814439098
 www.agilemanifesto.org



Six Sigma (6σ)

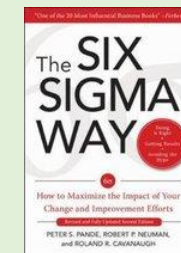


ELIMINATE AND REDUCE VARIATION

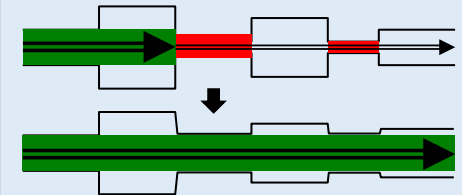
- DMAIC-process
- Complex problems
- A lot of statistics (SPC)
- Almost flawless
- <3.4 mistakes of 1,000,000
- Reduction of variety
- Experiments
- Almost everywhere
- Top down approach
- Black/Green/Yellow Belt

Bill Smith (Motorola)
 1929 - 1993
 USA 1986
 Electronics industry

The Six Sigma Way
 9780071497329
 www.sixsigma-institute.org



Theory of Constraints (TOC)



MAXIMISING OUTPUT

- Discover critical path
- Eliminate bottlenecks
- Effect constraint on chain
- Effect-Source-Effect
- Drum-Buffer-Rope
- Evaporating clouds
- OPT-software
- Continuous replanning
- Think as Jonah
- Do as Alex

Eliyahu M. Goldratt
 1947 - 2011
 Israel/USA/NL 1984
 Industry

The Goal
 9780884271956
 www.goldratt.com

