

# Change Management in Software Development Organizations DIT035, 7.5 credits

#### Lecture 1: Success Factors and Obstacles

Examiner: Agneta Nilsson

Course Assistant: Hamdy Michael Ayas

#### **Agenda**

- ☼ Innovation Process
- Determinants and Consequences of Implementation Effectiveness
- Why Change Efforts Fail 8 steps to transforming organizations

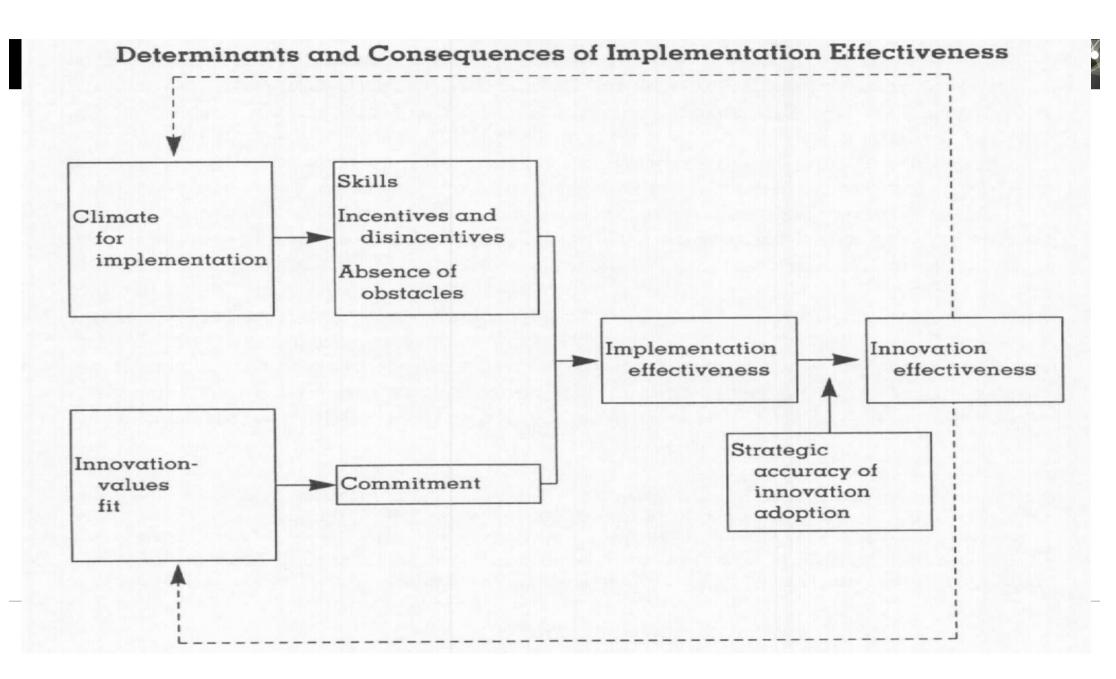


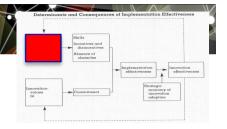


# The Challenge of Innovation Implementation (Klein & Sorra, 1996).

#### **Innovation**

- Source-based innovation: a new product or service created for market.
- ☼ User-based innovation: a technology or a practice being used for the first time by members of an organization, regardless of if other organizations have used it previously.
- ☼ Implementation: the transition between the decision to adopt the innovation and the routine use of the innovation within an organization.
- Implementation effectiveness: "[...] the consistency and quality of targeted organizational members' use of a specific innovation" (Klein & Sorra 1996, p1058).
- Innovation effectiveness: the benefits an organization receives as a result of its implementation of a given innovation.





#### **Climate for implementation**



#### **Innovation values fit**









Skills - incentives & disincentives

#### Applying for a job at IKEA



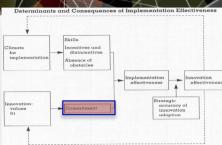






#### Commitment





#### Commitment





### Implementation Effectiveness

GOLDING



#### **Implementation**

the transition between the decision to adopt the innovation and the routine use of the innovation within an organization.

#### Implementation effectiveness

the consistency and quality of targeted organizational members' use of a specific innovation



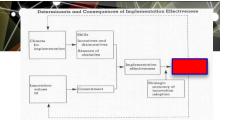
#### Strategic Accuracy of Innovation Adoption

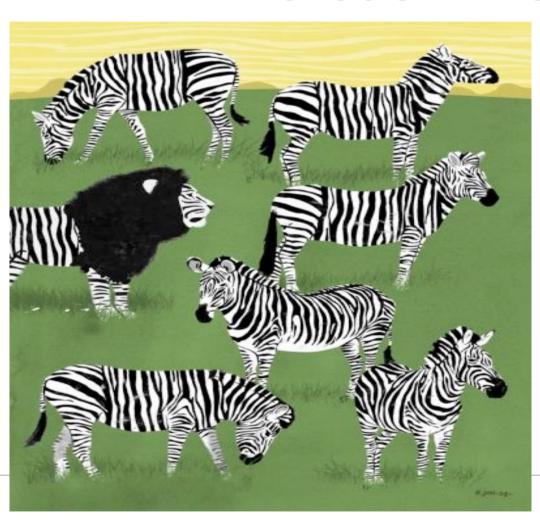






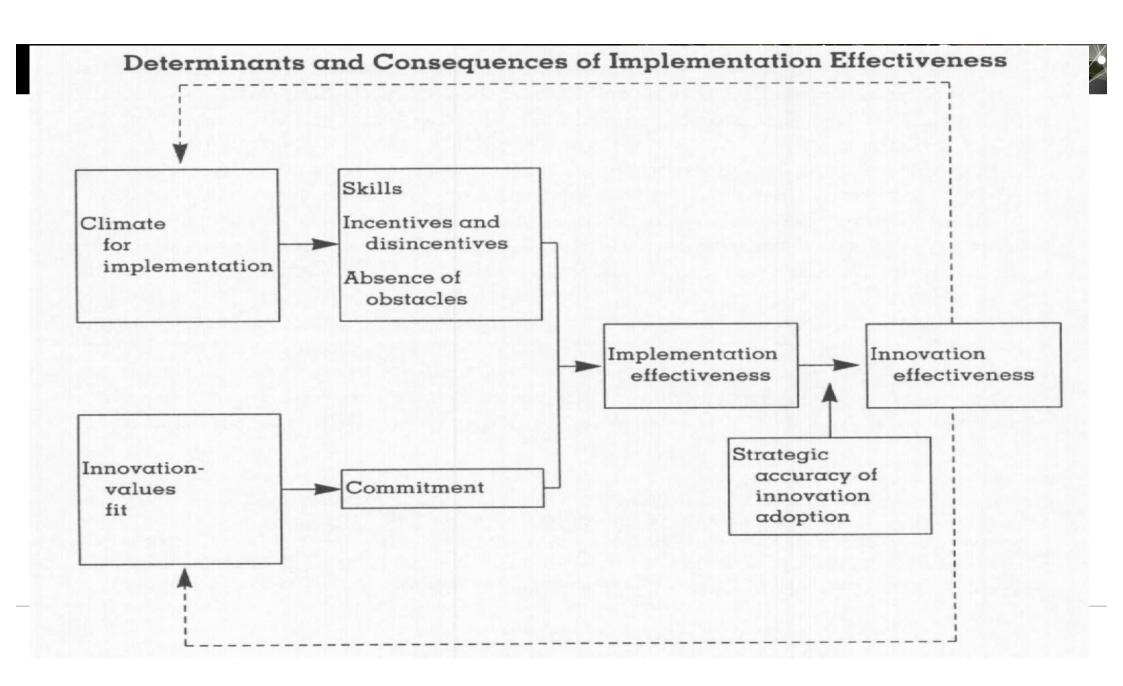
#### **Innovation Effectiveness**





#### Innovation effectiveness

the benefits an organization receives as a result of its implementation of a given innovation



#### **Effects**

TABLE 1
Implementation Climate and Innovation-Values Fit:
Effects on Employees' Affective Responses and Innovation Use

	Innovation-Values Fit		
	Poor	Neutral	Good
Strong implementation climate	Employee opposition and resistance	Employee indifference	Employee enthusiasm
	Compliant innovation use, at best	Adequate innovation use	Committed, consistent, and creative innovation use
Weak implementation climate	Employee relief	Employee disregard	Employee frustration and disappointment
	Essentially no innovation use	Essentially no innovation use	Sporadic and inadequate innovation use

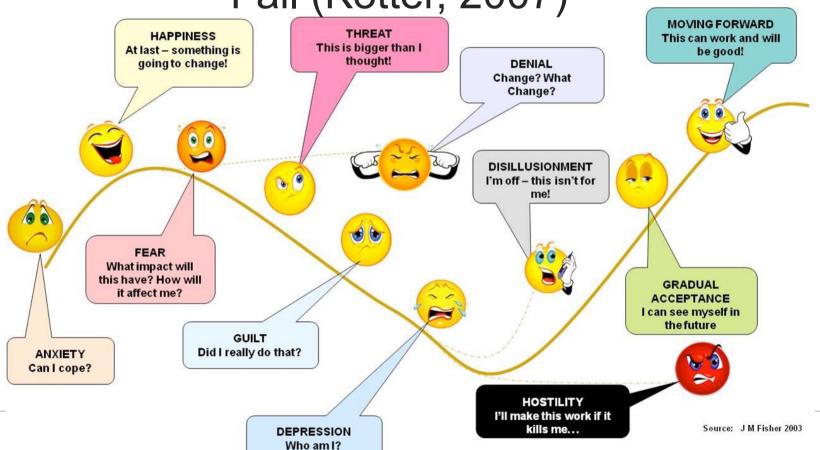
#### **Discussion**

- Give examples of determinants and consequences of implementation effectiveness
- ☼ How can determinants and consequences of implementation effectiveness be applied to IT-related change (either for software engineers or for endusers)?
- ☼ Take a few minutes to discuss! 2-4 people as you sit together
- Share highlights or emerged questions from your discussion



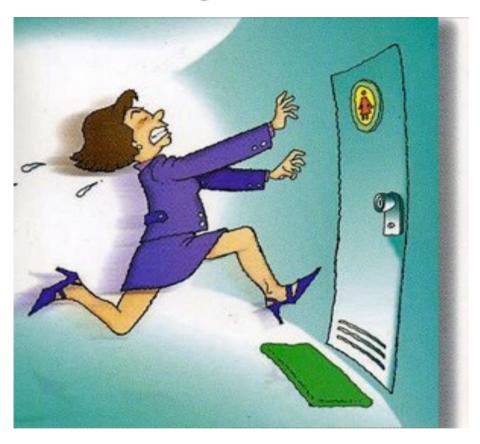
John P. Kotter is internationally known and widely regarded as the foremost speaker on the topics of Leadership and Change. His is the premier voice on how the best organizations actually achieve successful transformations. The Konosuke Matsushita Professor of Leadership, Emeritus at the Harvard Business School and a graduate of MIT and Harvard, Kotter's vast experience and knowledge on successful change and leadership have been proven time and again. (from the website of <a href="Harvard Business School">Harvard Business School</a>)

Leading Change: Why Transformation Efforts Fail (Kotter, 2007)





#### 1. (Not) Establishing a Sense of Urgency



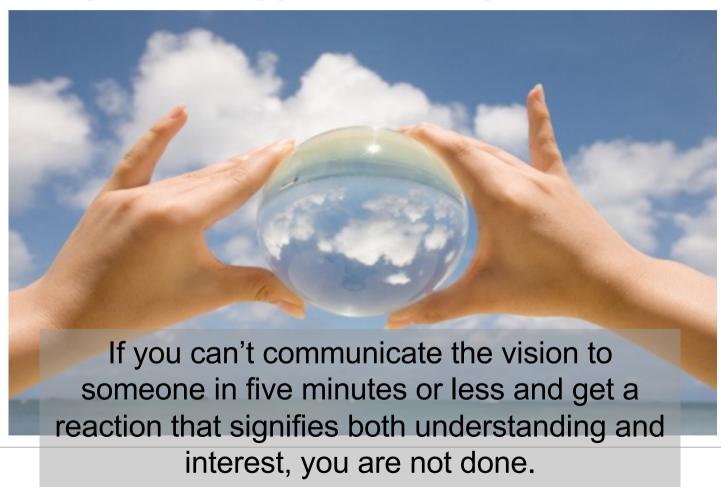


#### 2. (Not) Forming a Powerful Guiding Coalition





#### 3. (Lacking) Creating a Vision





#### 4. (Under)Communicating the Vision



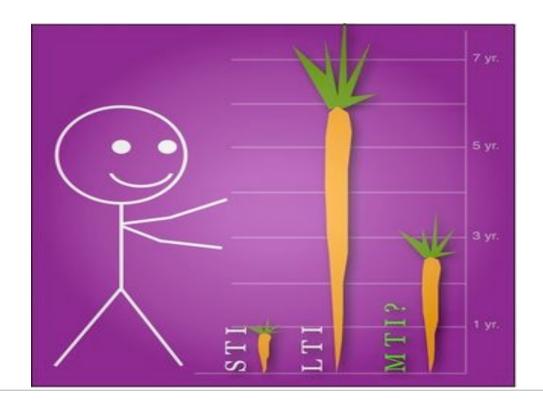


### 5. (Not) Removing Obstacles– Empowering Others to Act on Vision





#### 6. (Not) Planning for and Creating Short-Term Wins



#### 7. Declare victory too soon – Build on Change and Produce More Change



Source: Mike Lane, Baltimore Sun, June 30, 2005

After a few years of hard work, managers may be tempted to declare victory with the first clear performance improvement. While celebrating a win is fine, declaring the war won can be catastrophic.



#### 8. (Not) Anchoring change – Make Change Stick





#### EIGHT STEPS TO TRANS-FORMING AN ORGANI-ZATION

 Integrate into culture, make the change stick

Making it stick

7. Consolidate gains, use credibility to encourage more change

6. Plan for shortterm wins and demonstrate progress 1. Compelling reason to embrace change

2 Guiding Coalition of committed change agents

Create Vision and Strategy for direction and motivation

4. Communicate the Vision - Role models in guiding coalition

5. Empower employees to act, and remove obstacles

Making it happen

#### **Discussion**

- Think of an example of a successful change effort related to IT. What success factors can you identify?
- ☼ Take a few minutes to discuss! 2-4 people as you sit together
- Share highlights or emerged questions from your discussion

#### **Exercise**

- Define and explain the key concepts in the theory by Klein and Sorra (1996).
- ☼ Define and explain the key concepts in the theory by Kotter (2007).

Use correct citation and reference technique following the APA style.



# The American Psychological Association (APA) Referencing System

All writing shall use correct citation and reference technique following the APA Referencing System. There are numerous resources online to learn the reference system of APA, see e.g. <a href="https://student.unsw.edu.au/apa (Links to an external site.">https://student.unsw.edu.au/apa (Links to an external site.)</a>.