Project Management (PRO)

Kandidatekursus CS/INF





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- Know about different ways of implementing systems in the organisation
- Be able to select among these
- Know about different problems/risks
- Be able to design an implementation strategy

Implementation strategies (1/2)

Big Bang

* The entire target group shifts to the new system all at once on a given date

Parallel application

 The old system continues to function for a certain period after the new system has been launched

Phased introduction

- * The system is divided into phases:
 - Either the entire target group starts to apply part of the system and then gradually other parts of the system
 - Or part of the target group applies the entire system and the rest of the group gradually follows

Experimental diffusion

 The system is tested by part of the target group. Then it is decided how it should be diffused to the rest

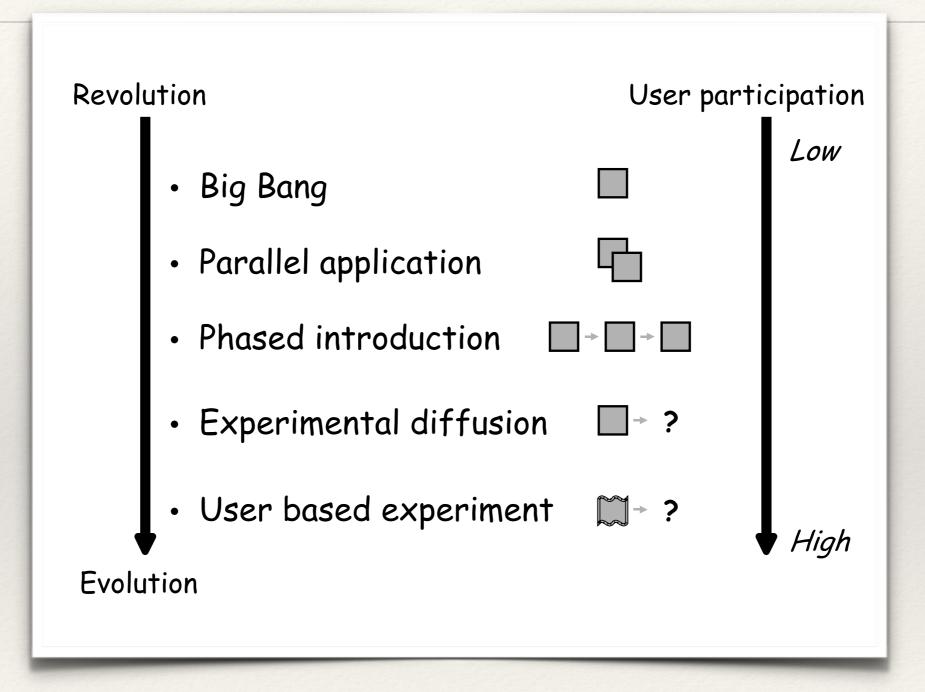
User-based experiment.

Part of the target group tests the system to determine what they can achieve using it

[Eason K. (1988), Information Technology and Organisational Change, Taylor & Francis]



Implementation strategies (2/2)



Pries-Heje, J. & S. Tryde (2001), Diffusion and adoption of IT products and processes in a Danish bank, In: Ardis, M.A. & B.I. Marcolin (Eds.), Diffusing Software Product and Process Innovations, IFIP TC8 WG 8.6 Fourth Working Conference, Banff, Canada

Implementation plan contents

What is being implemented

Name of the individual elements, short description of these, where are they transferred from, and where are they transferred to

Assumptions, dependencies and constraints

• What must be in place for the system to be put into operation, f.ex. other systems or other projects, that the implementation must be coordinated with

* Risks

Potential risks with the implementation

Checks

* Which checks should be performed before/after the implementation

* Schedule for the implementation

Start and end date for the individual activities, who is responsible for the execution, who should be involved/approve/heard/informed

Procedure for roll-back

* How and when should be reacted, if the new system fails and roll-back to the previous state is necessary

Implementation tools

- * Examine users' current knowledge and skills
 - * Determine their educational needs
- * Select effective implementation tools, f.ex:
 - * Seminars, workshop and courses
 - User documentation and media
 - * Train-the-trainer
 - On-the-job training
 - Super users
 - * Change agents (ambassadors)
 - * Job rotation
 - * Hot-line support for a period after start-up
- * Involve the users actively in the implementation, possibly user-driven
- * Follow up on the implementation
 - Identify and remove barriers for the implementation
 - * Change strategy and tools if they turn out not to be efficient



Implementation roles and responsibility

Use a stakeholder analysis to identify:

- * Who should be involved
- How (informed/heard/approve)
- * When
- Resistance and other barriers

Define roles and responsibility for the implementation for e.g.:

- Management (own as well as client organization)
- People with domain knowledge
- * People with knowledge about the new system
- Change agents (ambassadors)
- Users/clients
- * Supporters
- * Operations

Follow up on roles and responsibility for the implementation

- * Identify and remove barriers for the implementation
- Change strategy and tools if they turn out not to be efficient

Problems/risks for the implementation

- Lack of backing from management (owners)
- * Insufficient resources
- Lack of motivation in the target group
- Resistance to change amongst the target group
- Target group feels that the product does not include existing organizational knowledge and experience
- Lack of product quality
- Lack of budget for support during and after implementation
- * Target group feels that their efforts exceed the outcome
- * There is no real need for the product
- * The product depends on other products/systems/structures not in place

Use a risk analysis to assess the risks

Priority = Probability * Consequences

Why do many implementations fail?

Source: Kotter (1996): Leading Change.

See also Kousholt (2012e: 405)

YOUR ORGANIZATION

- Establishing a Sense of Urgency
 - Examining market and competitive realities
 - Identifying and discussing crises, potential crises, or major opportunities
- Forming a Powerful Guiding Coalition
 - Assembling a group with enough power to lead the change effort
 - Encouraging the group to work together as a team
- Creating a Vision
 - · Creating a vision to help direct the change effort
 - Developing strategies for achieving that vision
- Communicating the Vision
 - · Using every vehicle possible to communicate the new vision and strategies
 - Teaching new behaviors by the example of the guiding coalition
- Empowering Others to Act on the Vision
 - Getting rid of obstacles to change
 - · Changing systems or structures that seriously undermine the vision
 - . Encouraging risk taking and nontraditional ideas, activities, and actions
- Planning for and Creating Short-Term Wins
 - Planning for visible performance improvements
 - Creating those improvements
 - Recognizing and rewarding employees involved in the improvements
- Consolidating Improvements and Producing Still More Change
 - Using increased credibility to change systems, structures, and policies that don't fit the vision
 - Hiring, promoting, and developing employees who can implement the vision
 - · Reinvigorating the process with new projects, themes, and change agents
- Institutionalizing New Approaches
- Articulating the connections between the new behaviors and corporate success
 - Developing the means to ensure leadership development and succession

Exercise 1: Implementation

Talk together in pairs

- * (Re)read the SAP case in Kousholt (2012e: 44 & 52)
- Which implementation strategy do you suggest?
- * Which implementation tools will you use?
- * Who should be involved in the implementation (roles and responsibility)?
- * How will you follow up on the implementation?
- * How will you avoid the implementation failures reported by Kotter (1995)?

Summary in the plenary