

# WORKSHOP AGILE

Inspect & Adapt

Empirical Process Control

Transparency & Smart Empowerment

**SUMMARY**

Remember, the AGILE methods are not agile in themselves, but if applied correctly they enable teams to be more agile.

**Workshop: AGILE**

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Workshop  
AGILE

- ▶ My Background and first Exposure to Agile
- ▶ Agility in the Workshop
- ▶ What does Agile mean?
- ▶ How to enable Agility?
- ▶ Excercise
- ▶ History of Agile Development
- ▶ The Agile Manifesto
- ▶ Agile Steerability

My background  
and first Exposure  
to Agile Methods

- ▶ **First Job in IT – Programmer & Streaming Tech in Media Production**
  - ▶ Non-planed Deskside Requests
  - ▶ No Prioritization
  - ▶ No Peace of Mind
- ▶ **Rebuild and Update of Platform**
  - ▶ Extended time without requirements review or access to tech lead
  - ▶ Some items were obsolete at completion
  - ▶ Other items had been misunderstood and were completed incorrectly.
- ▶ **Combining two systems from separate markets to one global solution**
  - ▶ 18 months spent on gathering requirements
  - ▶ Required to include all existing features and all new features before release.
  - ▶ Already at startup of development some old features were obsolete and others would be end-of-life long before the new solution could be released.
  - ▶ Emerging techniques were missed to be included in the requirements
- ▶ **Acquired a company with an existing platform and agile development**
  - ▶ Recurring requirements review to catch current needs and prioritization.
  - ▶ Small increments of value were defined and developed through 4 week "sprints".
  - ▶ Cross-functional team covering requirements, developers, testers, educators.
  - ▶ Recurrent interaction between development and operations.

Empirical Process Control - Inspect & Adapt

The first diagram, titled 'EMPIRISK PROCESSKONTROLL', illustrates a feedback loop. At the top, 'Granska & Anpassa' (inspect & adapt) is written in blue and green. Red arrows indicate a cycle: from 'Granska & Anpassa' down to 'TRANSPARENS' (in a red box), then right to 'MARKEDNING (FÖRMÅGA + MANDAT)' (in a red box), and finally up back to 'Granska & Anpassa'. The second diagram is a more detailed handwritten sketch of an agile process. It includes a 'Sprint' cycle with 'PLANING', 'Sprint', and 'Review' stages. It also shows a 'Retrospective' stage and a 'Sprint Team' box. Various icons and notes are scattered around, representing a practical application of agile principles.

## Agility in the Workshop

- ▶ Who are you?
- ▶ What are your expectations?
- ▶ What are your needs?
  
- ▶ Framework need to be set in advance
- ▶ Time spent & In-depth coverage could be customized to the audience
- ▶ A team of educators would need recurring interaction between classes
- ▶ Some slack allows for adjusting detail to the audience, the end-user

## What does Agile mean?

### Synonyms for Agile (Swedish)

- ▶ Lättrörlighet
- ▶ Smidighet

### What should be Agile?

- ▶ Methods: No
- ▶ Structure: No
- ▶ Interactions: Yes

### Traits

- ▶ Flow
- ▶ Flexibility
- ▶ Deliver Increments of Value

## How to enable Agility

### Solid Methods & Structure

- ▶ Agree on solid structure for how and when to interact & collaborate
  - ▶ Recurring review of requirements - Inspect & Adapt
  - ▶ Recurring interaction between individuals
  - ▶ Frequent iterative delivery of small increments of value
  - ▶ Transparency & Empowerment of the Development Team
- ▶ Rough plan to provide structure
- ▶ Details are worked out as the project evolves and deeper insight is acquired

## Exercise – "Bollhavsballar"

### Beskrivning

- ▶ Det finns 50 bollar i en container och den andra är tom.
- ▶ Ni skall flytta bollar, en-och-en, från den fyllda containern till en tom container
- ▶ Alla i gruppen måste ha vidrört en boll innan den hamnar i containern för att den skall vara giltig
- ▶ Bollar som tappas på golvet får inte tas upp
- ▶ Tappade bollar kommer dras av från det antal ni lyckats förflytta.
- ▶ Ju fler bollar som gruppen lyckas flytta desto högre resultat för gruppen

### Planering

- ▶ Ni samlas och planerar tillsammans inom gruppen för att optimera ert samarbete
- ▶ Målet är att lyckas flytta så många bollar som möjligt
- ▶ Ni skall även tillsammans komma överens om hur många bollar ni bedömer att gruppen kommer lyckas förflytta.

### Genomförande

- ▶ Ni får 1 minut på er för att flytta så många bollar som möjligt enligt beskrivningen.
- ▶ Innan start skall ni först uppge det antal bollar ni bedömer att gruppen kommer lyckas förflytta.
- ▶ Gruppens resultat kommer bedömas:
  - ▶ Hur många bollar har gruppen lyckats förflytta
  - ▶ Hur väl har ni bedömt detta antal i förväg

## History of Agile Development

- ▶ Agile methodology is Not a new method for programming & systems development
- ▶ Agile development in Modern History
  - ▶ The Wright Brothers – 1890:ies
  - ▶ Mobile nuclear warhead delivery systems – 1950:ies
    - ▶ Polaris Project – Nuclear submarines
  - ▶ Race to the Moon – Apollo Project 1960:ies
- ▶ Growing complexity in systems development
  - ▶ Rigorous project development systems 1970-1990
  - ▶ Increased awareness of requirement for iterative delivery 1990:ies

## The Agile Manifesto (2001)

[www.agilemanifesto.org](http://www.agilemanifesto.org)

- |                              |                               |
|------------------------------|-------------------------------|
| ▶ WORKING SOFTWARE           | > Comprehensive Documentation |
| ▶ INDIVIDUALS & INTERACTIONS | > Processes & Tools           |
| ▶ CUSTOMER COLLABORATION     | > Contract Negotiation        |
| ▶ RESPONDING TO CHANGE       | > Following a Plan            |
- 
- ▶ Incorrectly perceived as the start for the concept of "Agile" development
  - ▶ Processes that have evolved throughout the 20:th century

## Agile Steerability (Styrförmåga)

- ▶ Steerability with the "all-knowing genius"
  - ▶ Lack of perfect all-knowing geniuses
- ▶ The Development Team has the largest combined understanding of the systems
- ▶ Smart empowerment of the Development Team
- ▶ Radical Transparency of the Goal
  - ▶ The whole group should be aware of the changing requirements
  - ▶ Where are we standing?
  - ▶ Where do we need to go next?

## Handout

### References for further reading

- ▶ [www.agilemanifesto.com](http://www.agilemanifesto.com)
- ▶ [www.scrum.org](http://www.scrum.org)
- ▶ [smidigt.blogspot.se](http://smidigt.blogspot.se) (Ola Berg)
- ▶ [www.mountaingoatsoftware.com/agile](http://www.mountaingoatsoftware.com/agile) (Mike Cohn)

### Take Home Messages

- ▶ Inspect & Adapt
- ▶ Empirical Process Control
- ▶ Transparency & Smart Empowerment of Self-Organizing Teams