Development

1DV420 Nätverksprojekt
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The Customer

- Add value

    - By implementing a requirement specification ?

    - By working as a resource ?

    - By Helping, leading and directing ?
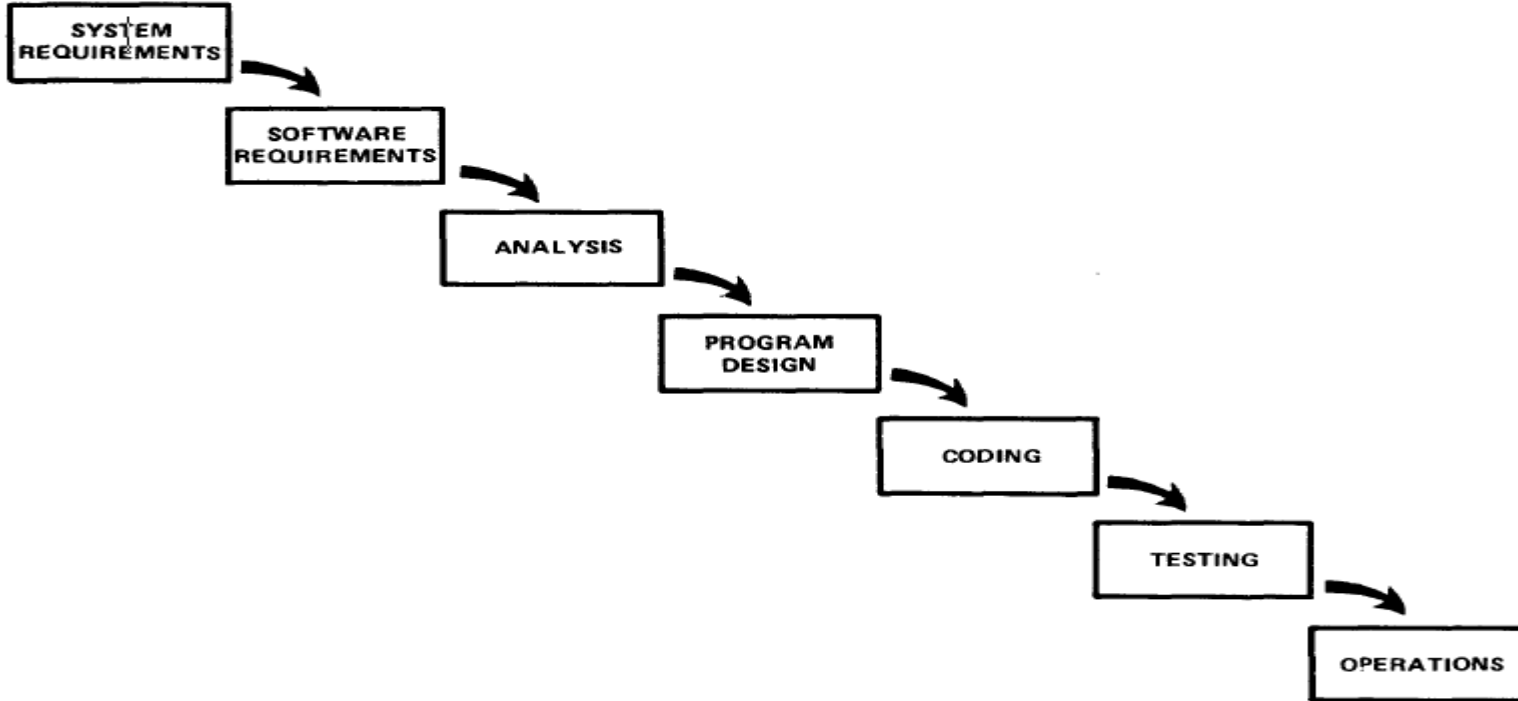
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Some Processes

A methodology or a process...
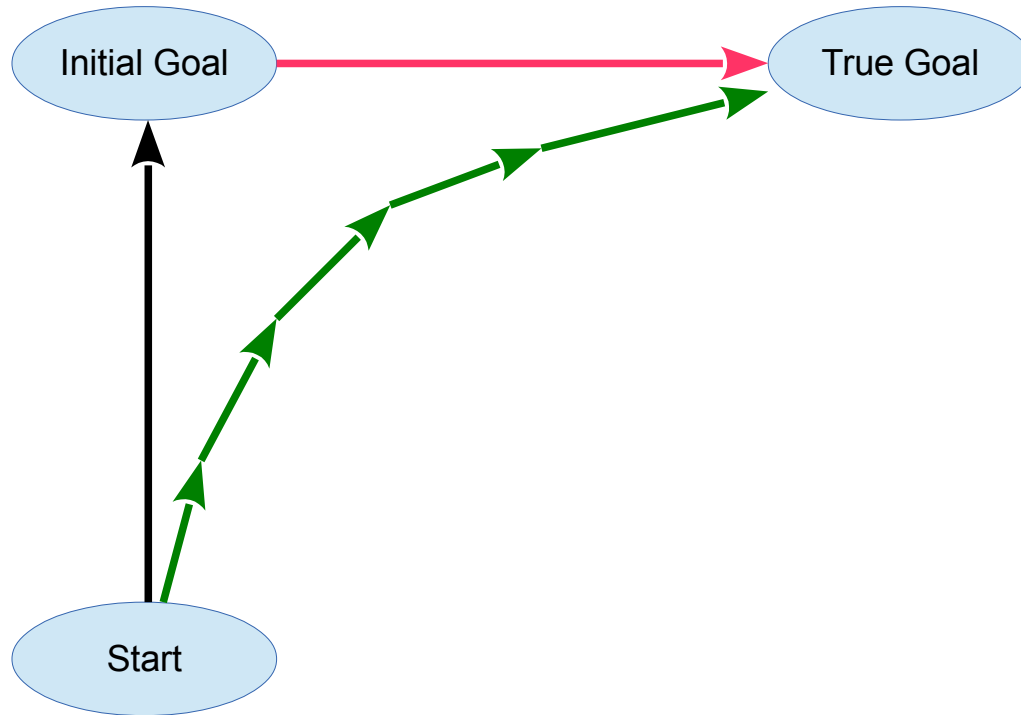
isn't doing the thinking.
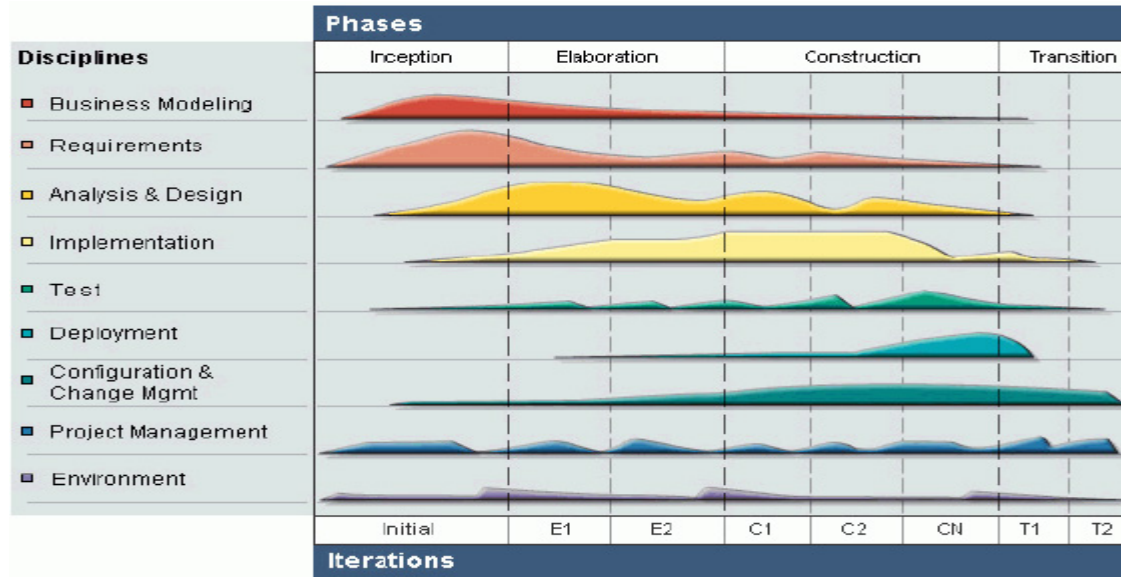
You are.

Waterfall Process

- "Managing The Development Of Large Software Systems"
  - Dr Winston W. Royce, 1970
- Sequential
- Many have gone bezerk on both the process and Dr Royce (including myself)
- But wait, read it again!!

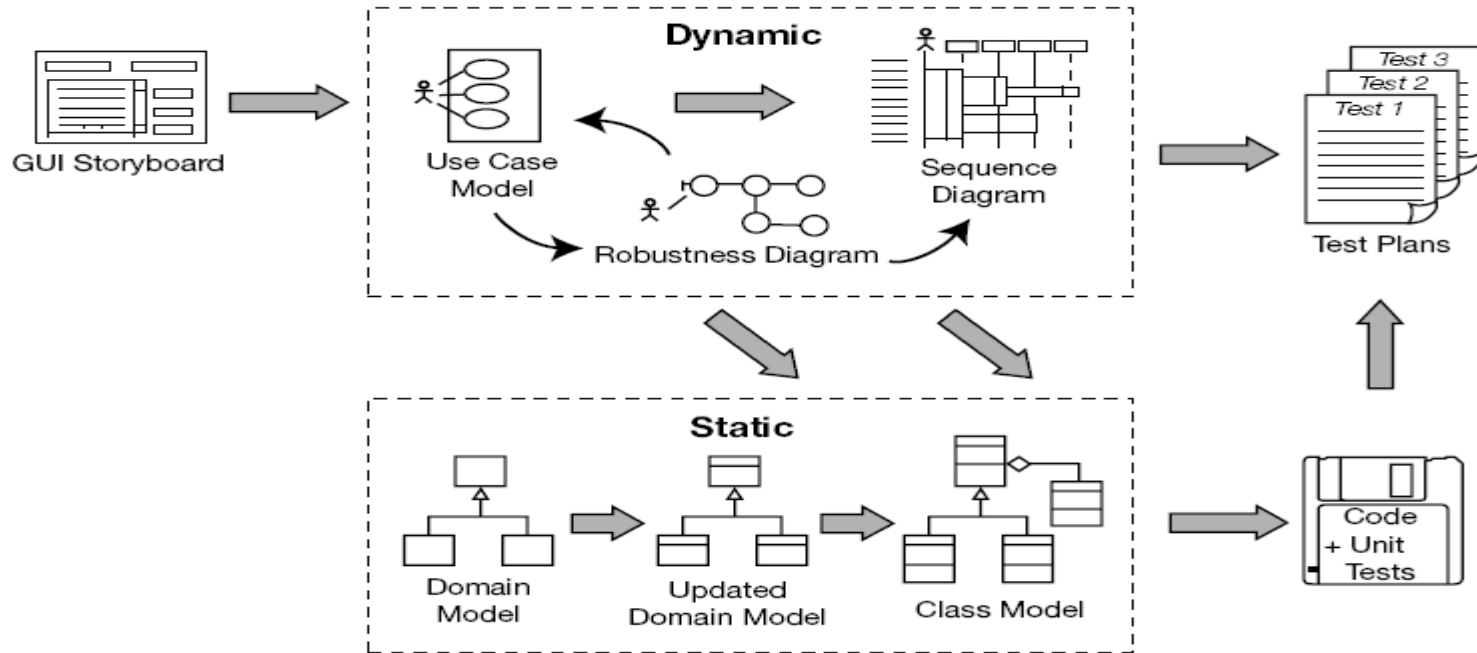SYSTEM REQUIREMENTS → SOFTWARE REQUIREMENTS → ANALYSIS → PROGRAM DESIGN → CODING → TESTING → OPERATIONS

6

On creating stuff

Unified Process

8

ICONIX

SCRUM (skeleton)

24 h

Daily scrum

Sprint

Product
Backlog
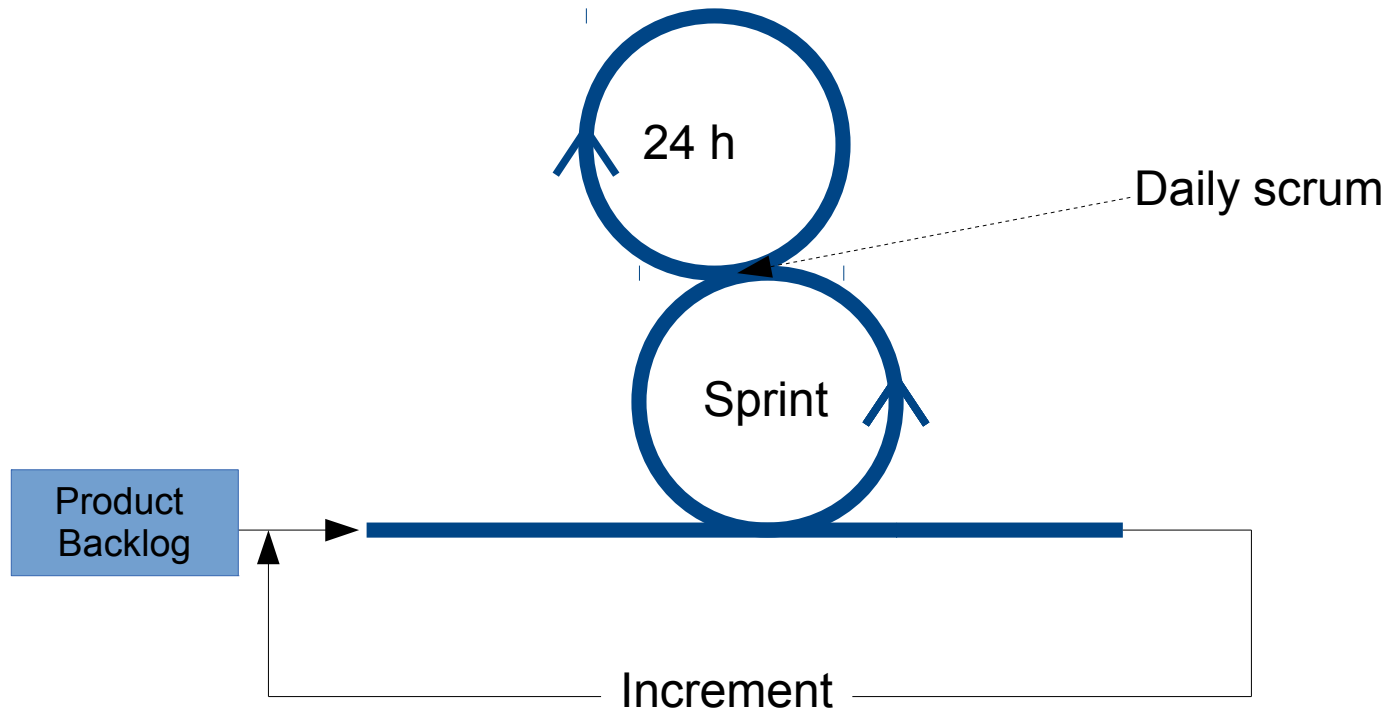
Increment

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Agile Manifesto[1]

Manifesto for Agile Software Development

We are uncovering better ways of developing
software by doing it and helping others do it.
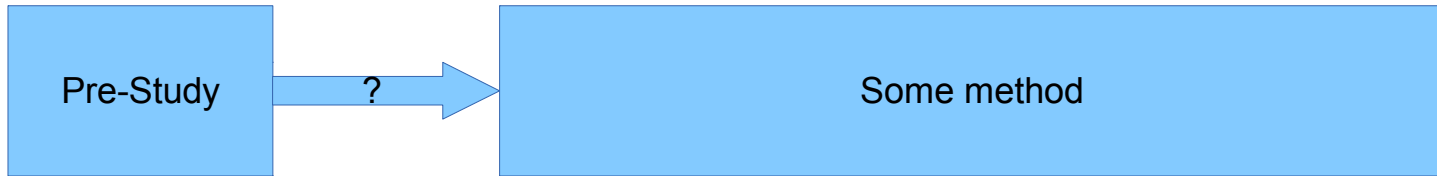Through this work we have come to value:

Individuals and interactions over processes and tools
Working software over comprehensive documentation
Customer collaboration over contract negotiation
Responding to change over following a plan

That is, while there is value in the items on
the right, we value the items on the left more.

[1]agilemanifesto.org

Method-Fanatic ?

- Nope.

- There is always a context. I use whatever works for the particular problem.

- And I (often) mix…

Why not use a Pre-Study ?

Some Personal Hints and Experiences

Projects

- A project manager going bezerk

- A psycopath

- Too much workload

- An uncontrollable customer

- A bad contract

15

Capacity utilisation

4 out 5 days

Never ...

ASSUME

That will make an ASS out of U and ME

Add value...

to the Customer!

You are supposed to...

make Your company profitable!

Technical Debt - 1

"Like a financial debt, the technical debt incurs interest payments, which come in the form of the extra effort that we have to do in future development because of the quick and dirty design choice."[1,2]

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[1]http://www.codinghorror.com/blog/2009/02/paying-down-your-technical-debt.html
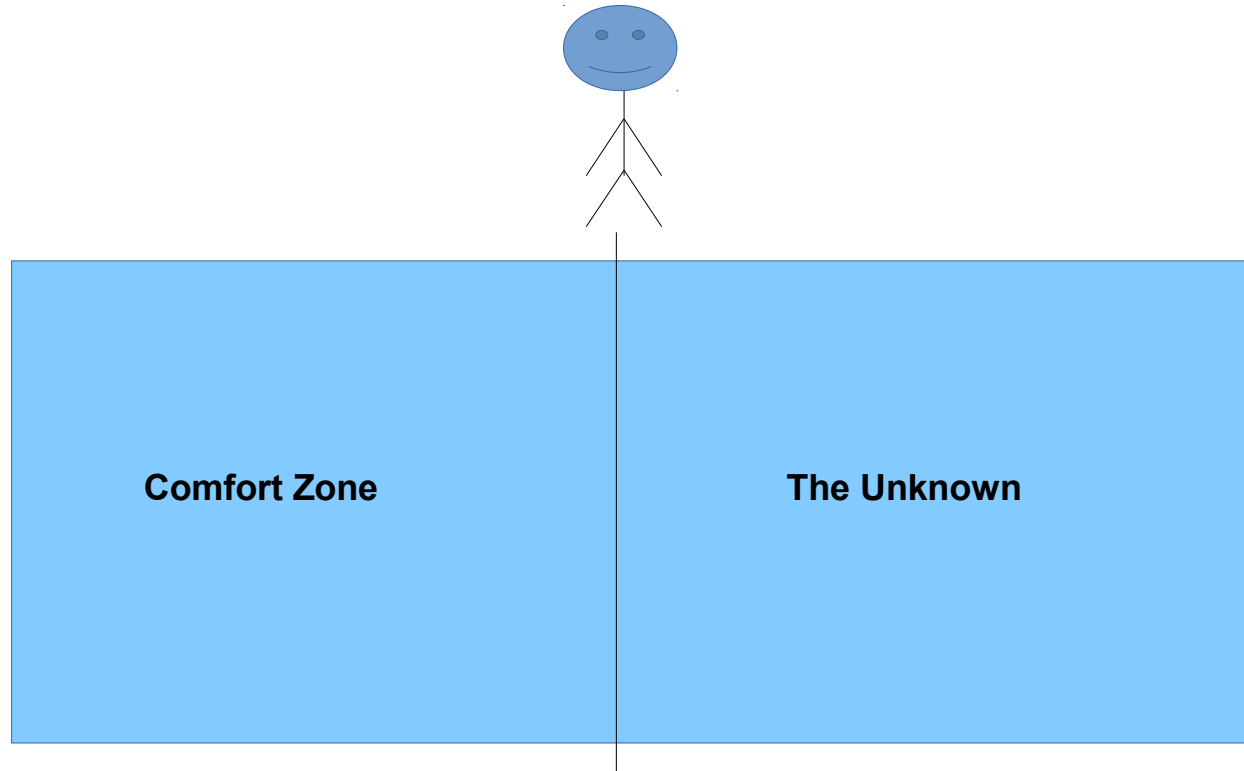
[2]http://www.c2.com/cgi/wiki?TechnicalDebt

Technical Debt - 2

Managers and custmers won't remember what You told them.

Are You a...

Manager or a Leader? There is a difference!

Constant personal development

Comfort Zone

The Unknown

Communicate

If You don't understand, ask again.

A few useful links

- Managing the development of large software systems.
http://www.cs.umd.edu/class/spring2003/cmsc838p/Process/waterfall.pdf

- Manifest for Agile software development. www.agilemanifesto.org.

- Software engineering method and theory (SEMAT). www.semat.org.

- Agile modeling – effectice practices for modeling and documentation.
www.agilemodeling.com.

- Scrum. www.scrum.org.

- What is Scrum. www.mountaingoatsoftware.com/topics/scrum.

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Books

- Arlow, Jim and Ila Neustadt. 2005. *UML2 and the unified process*. Addison-Wesley.

- Cockburn, Alistair. 2001.*Writing Effective Use Cases*. Addison-Wesley.

- Cohn, Brian. 2010. *Succeeding With Agile – Software Development Using Scrum*. Addison-Wesley.

- Rosenberg, Doug , Matt Stephens, and Mark Collins-Cope. 2005. *Agile development with ICONIX process – People, Process and Pragmatism*. Apress.

- Schwaber, Ken. 2004. *Agile Project Management With Scrum*. Microsoft Press.

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