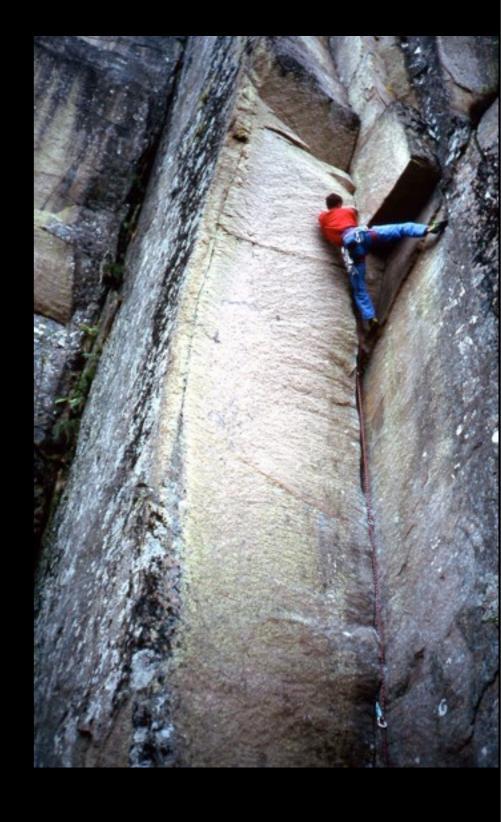




Strategies for replacing systems in agile projects

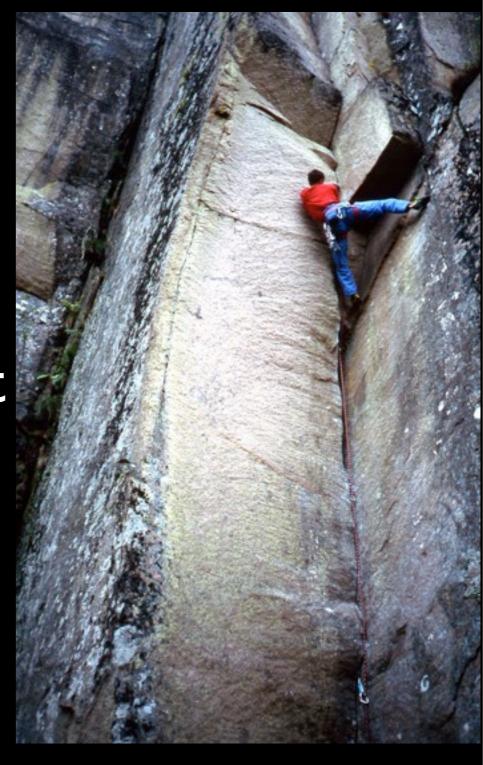
Niklas Bjørnerstedt, <u>niklas@leanway.no</u> twitter: smalltalk80

Professional product owner



Professional product owner

- incremental development
- private and public organizations
- I-3 years duration



Release management

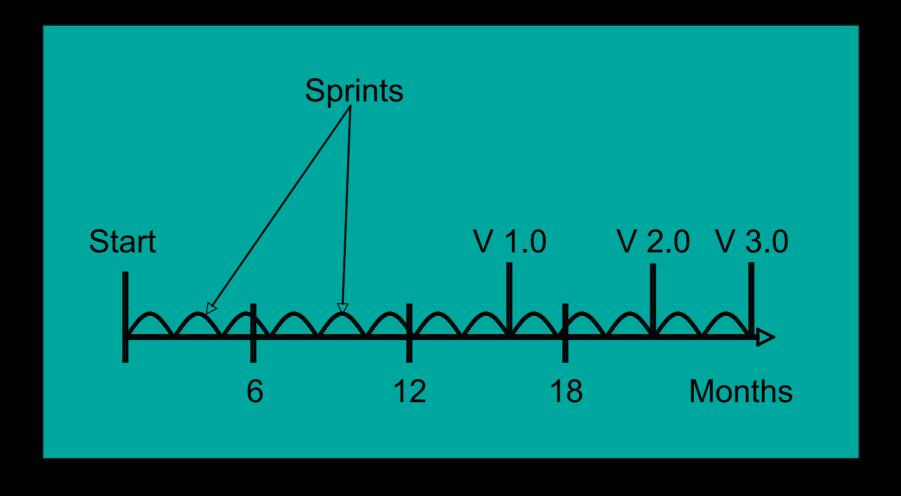
Release management

 poor release management regularly kills projects

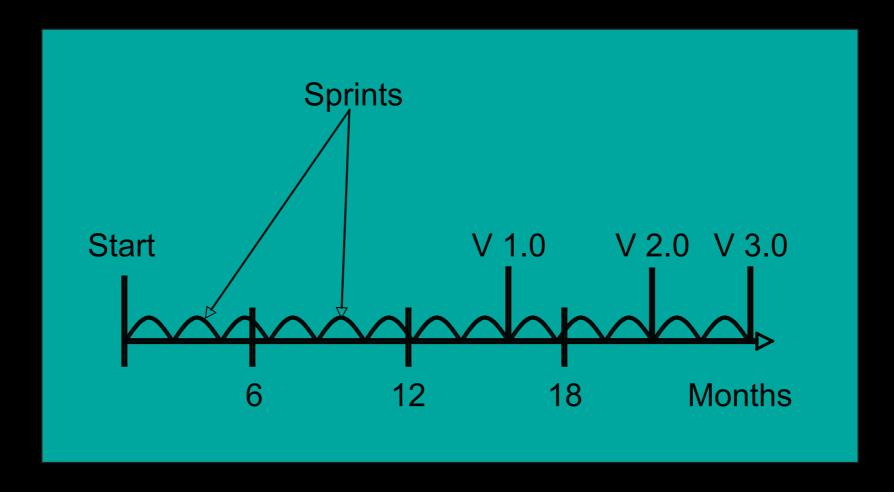
Release management

- poor release management regularly kills projects
- «potentially shippable» not good enough

The replacement project's dilemma



The replacement project's dilemma



Minimal Deployable Entity

MDE vs. MMF (Minimal marketable feature)

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MMF ⇒ which function has greatest value?

MDE vs. MMF (Minimal marketable feature)

- MMF ⇒ which function has greatest value?
- MDE ⇒ how do we minimize project risk?

Case I: research application system

Case 1: research application system

context: «introvert» legacy system

Case 1: research application system

- context: «introvert» legacy system
- goal: more efficient processes and openness to external parties

shared database

- shared database
- releases followed workflow

- shared database
- releases followed workflow
- limited releases

- shared database
- releases followed workflow
- limited releases
- tight scope control

Case 2: book club system

Case 2: book club system

 context: legacy system leased as an ASP service

Case 2: book club system

- context: legacy system leased as an ASP service
- goal: increased cross-selling between channels

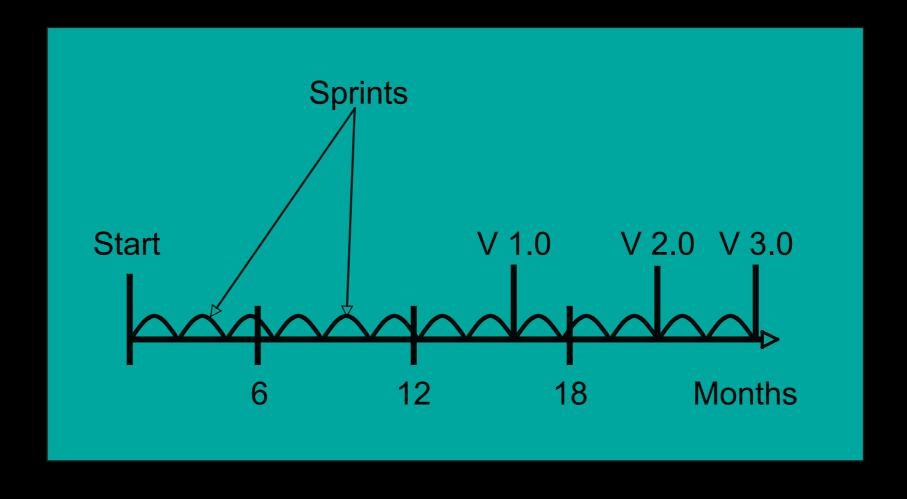
New book club strategy

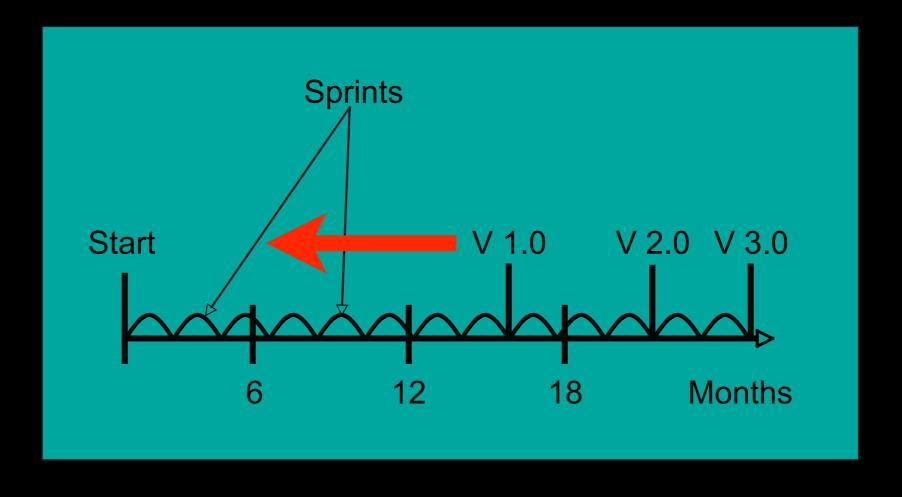
New back club strategy

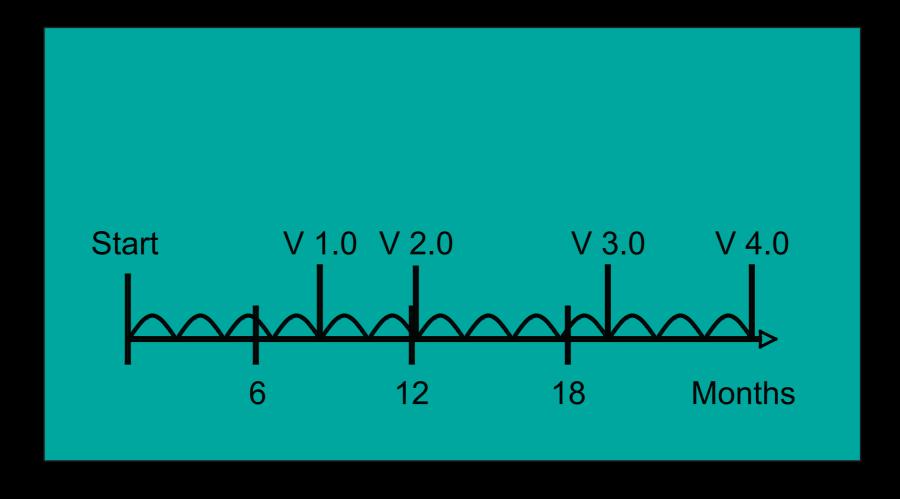
- New back club strategy
- New business strategy

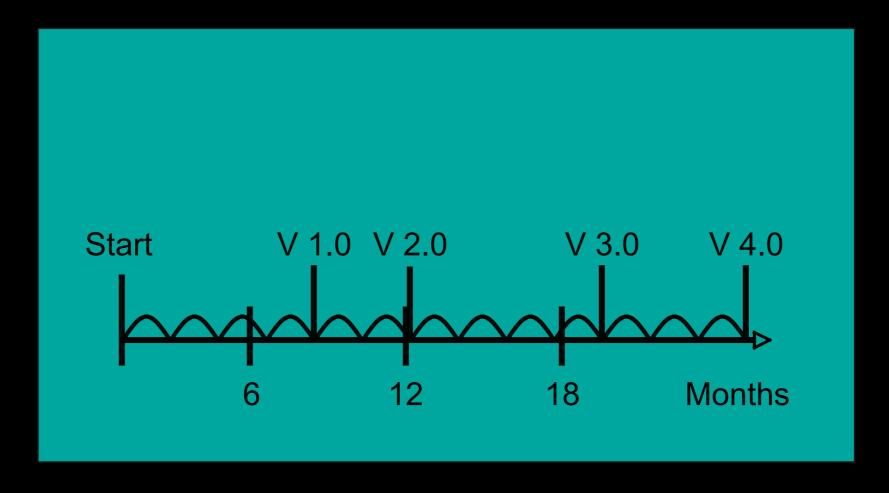
- New book club strategy
- New business strategy

- New back club strategy
- New business strategy
- Club by club strategy









principles + patterns = strategy

Principles

Principles

distilled advise

Principles

- distilled advise
- applicability can vary

Limited deployment

• 6-8 users is often enough

Limited deployment

- 6-8 users is often enough
- MDE reduced

Limited deployment

- 6-8 users is often enough
- MDE reduced
- less turbulence

Pain!

• first release should be inferior to existing system!

Pain!

- first release should be inferior to existing system!
- the product owner's most important (and difficult) task

Pain!

- first release should be inferior to existing system!
- the product owner's most important (and difficult) task
- use «pain relievers»

If in doubt, delay

If in doubt, delay

 "all problems go away in time, even the fear of death" Garrison Keillor

If in doubt, delay

- "all problems go away in time, even the fear of death" Garrison Keillor
- build a peripheral function first in order to gain insight

only replace as a last resort

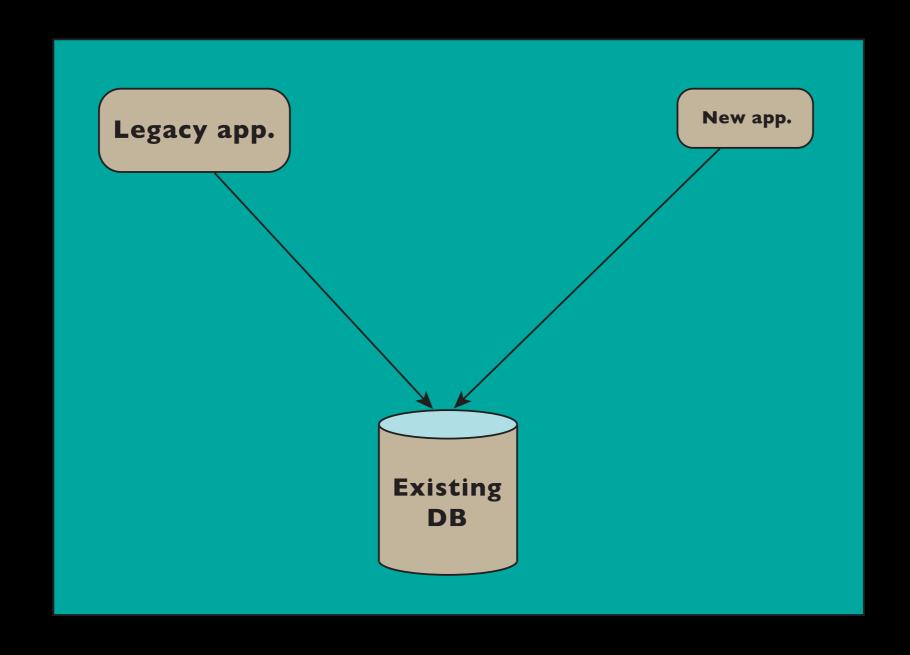
- only replace as a last resort
- tight scope control and buffer

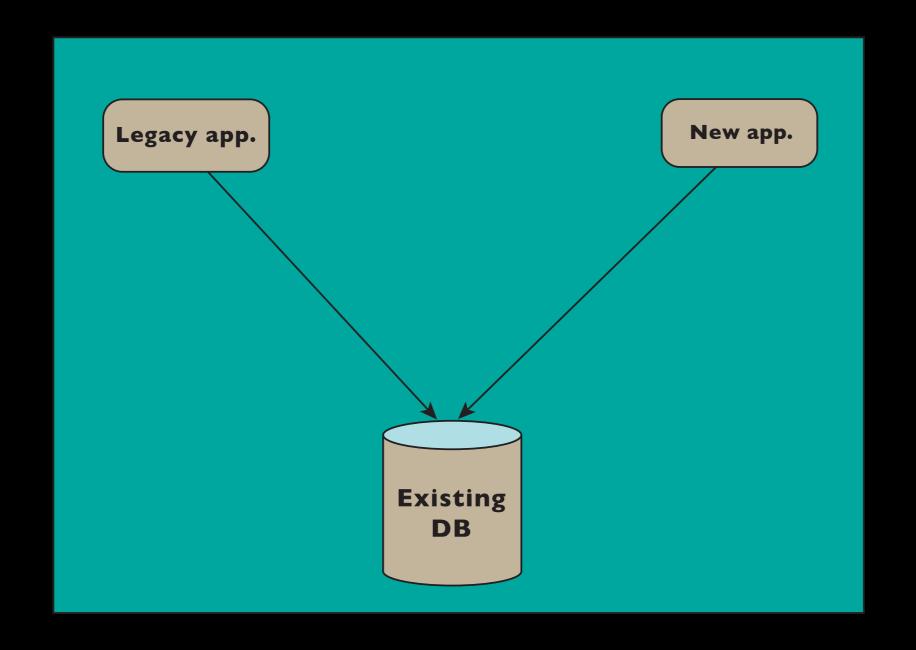
- only replace as a last resort
- tight scope control and buffer
- minimize migration

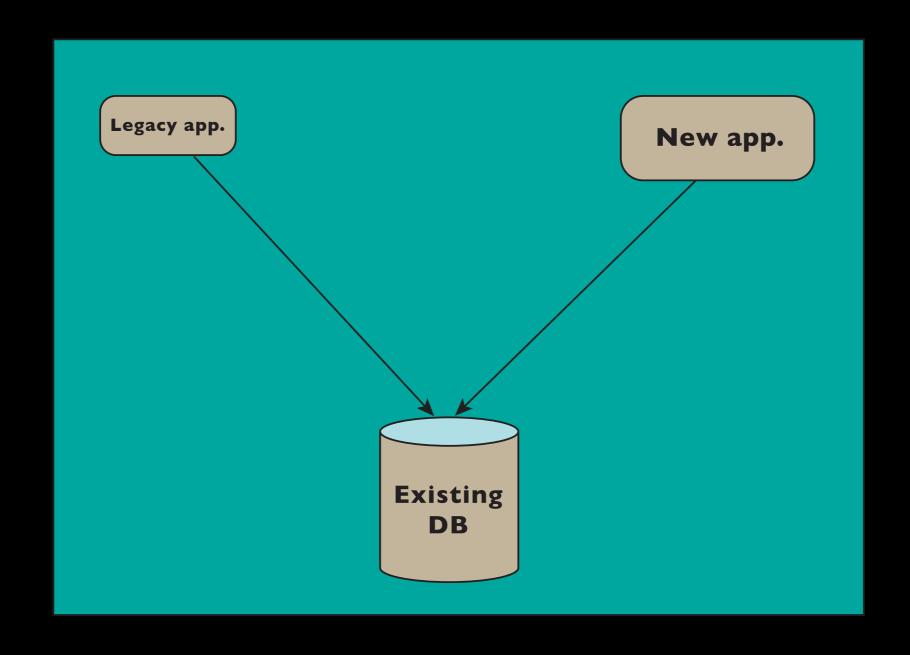
• concrete development strategies

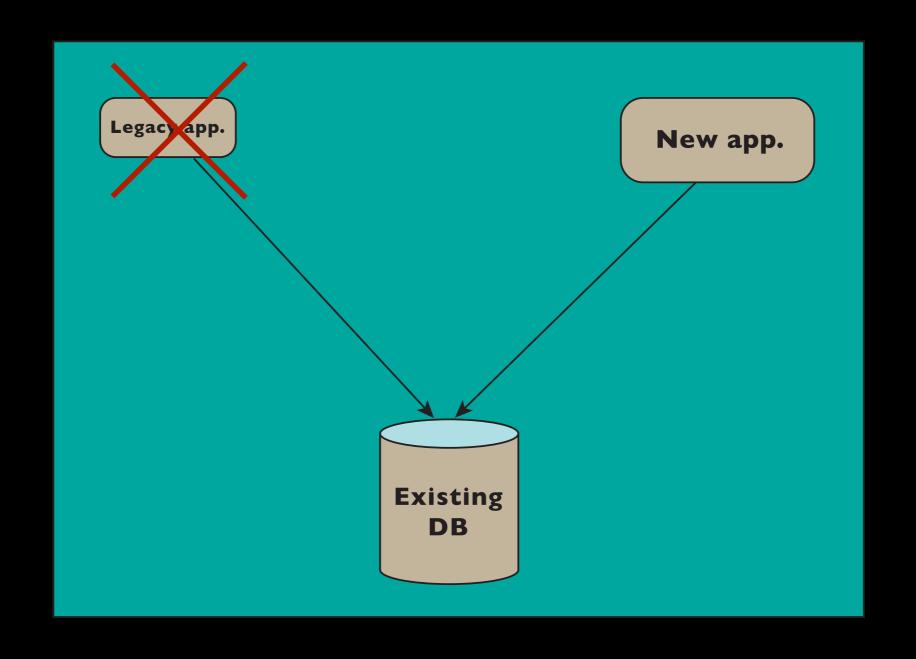
- concrete development strategies
- context is king

- concrete development strategies
- context is king
- patterns have intrinsic properties









dramatically reduced MDE

- dramatically reduced MDE
- new features can be created early

- dramatically reduced MDE
- new features can be created early
- partial replacement possible

• frozen database design and platform

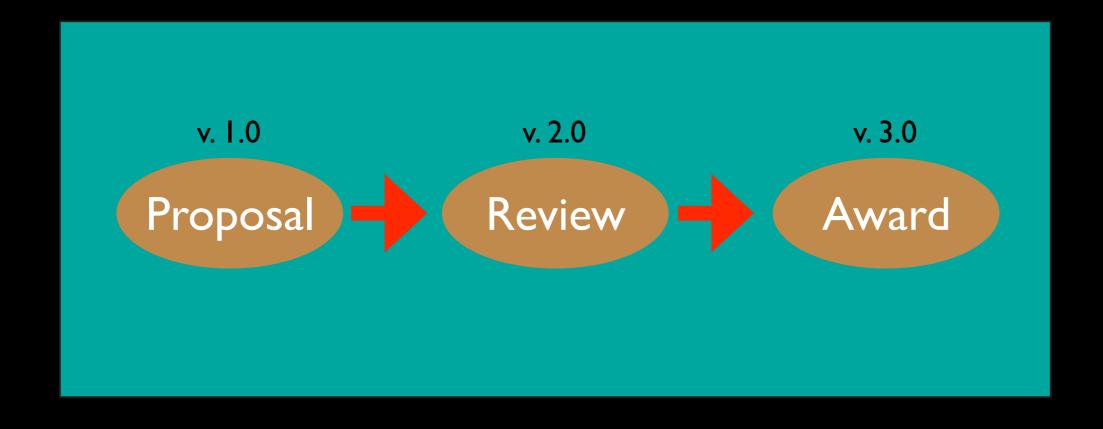
- frozen database design and platform
- documentation?

- frozen database design and platform
- documentation?
- testing

- frozen database design and platform
- documentation?
- testing
- corrupt data?

- frozen database design and platform
- documentation?
- testing
- corrupt data?
- users split between two systems

Follow the workflow



functionality delivered in a timely manner

- functionality delivered in a timely manner
- less need for migration

- functionality delivered in a timely manner
- less need for migration
- intuitive for users

Follow the workflow: weaknesses

Follow the workflow: weaknesses

• deadlines tend to harden...

Follow the workflow: weaknesses

- deadlines tend to harden...
- users split between two systems

workflow by workflow

- workflow by workflow
- product by product

- workflow by workflow
- product by product
- customer by customer

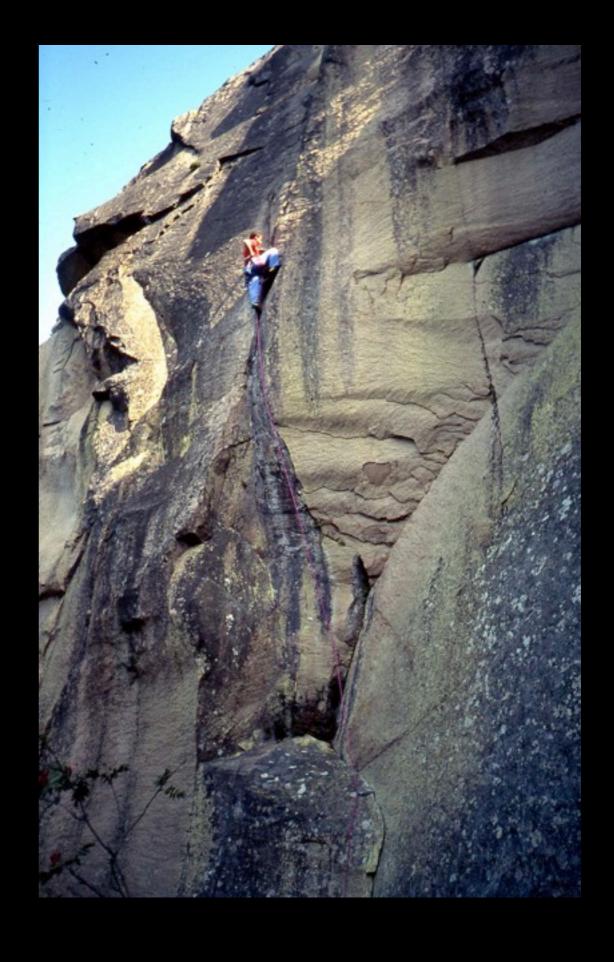
- workflow by workflow
- product by product
- customer by customer
- new business (run off)

Verifying a pattern

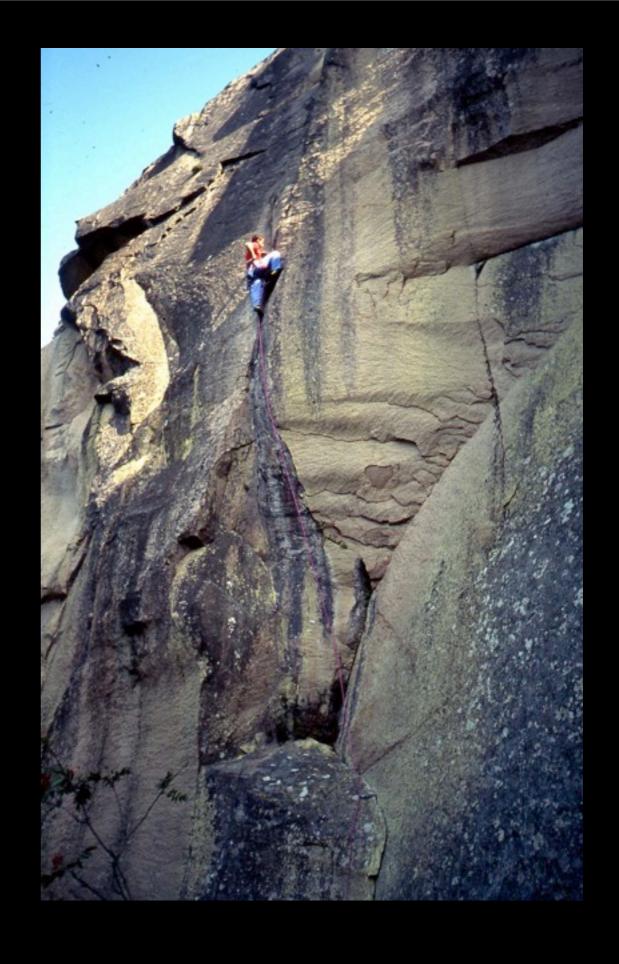
- intrinsic strengths/weaknesses
- user groups
- temporal problems

The optimal MDE strategy

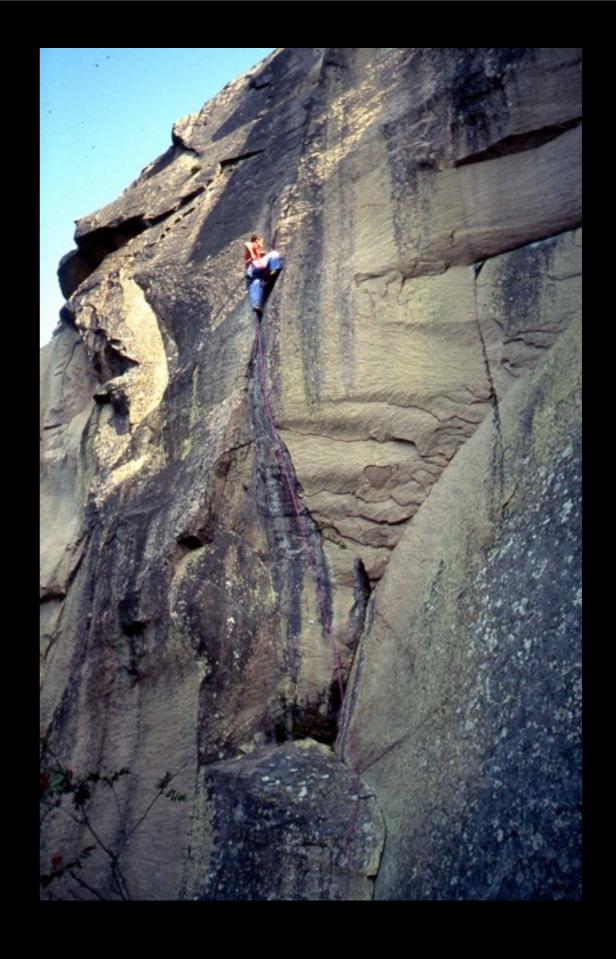
- is unique to every project
- requires knowledge of technology AND business
- is not free



open jam



- open jam
- wiki?



- open jam
- wiki?
- book...

