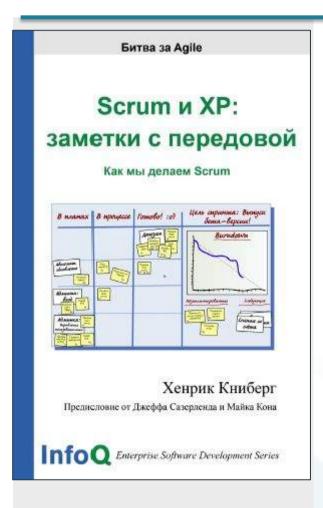
Everyone wants Change, but nobody likes to Be Changed

AgileDays Keynote, Moscow 2011-03-04



Henrik Kniberg

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SCRUM и KANBAN: ВЫЖИМАЕМ МАКСИМУМ

ХЕНРИК КНИБЕРГ И МАТТИАС СКАРИН

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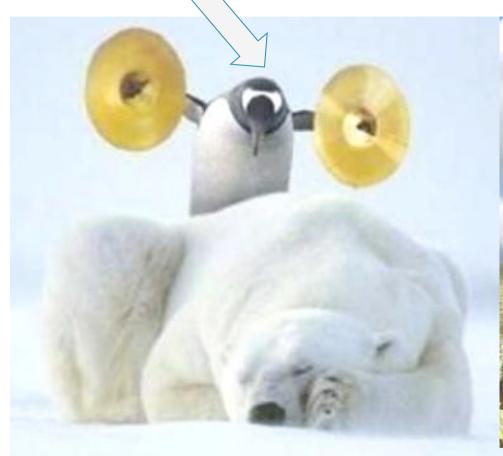
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All slides available at: http://www.crisp.se/henrik.kniberg/

Agile coach

Father





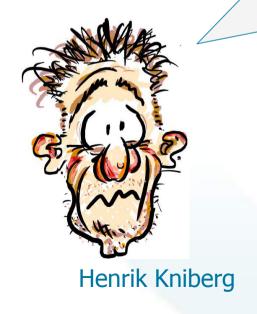
Both jobs involve Change



Have you ever felt that:

Yes, I understand Agile.

But how do I convince my manager/customer/team/etc?





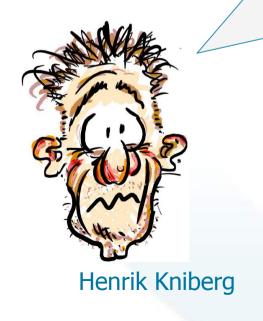
Purpose of this presentation

Help you understand
what YOU can do
to trigger organizational change
and help your company become more agile.



Yes, I understand Agile.

But how do I convince my manager/customer/team/etc?



Short answer:









Change starts with YOU

The only person you can control is YOU

(but barely)

If you can't change yourself, how can you expect to change anyone else?





Your change

Spend less time doing Email

- Write down one thing that you want to change about yourself
- Why?

So I can go on a 6 month round-the-world trip with my family, without having to be online



Get more exercise

Treat other people better

Get a better job

?

Spend more time with your kids

Earn more money

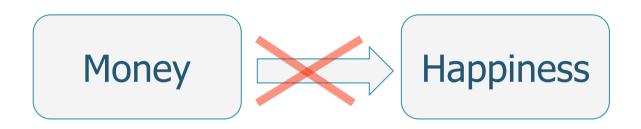
Be happier

Learn how to fly



crisp

Beware of false assumptions



Most research shows little or no connection between Money and Happiness!



Key elements of change

CURRENT LOCATION

Where am I right now?



NEXT STEP

What is the next step towards this destination?



PROGRESS METER

How will I know if I am moving in the right direction?

DESTINATION

What is the destination?

MOTIVE

Why do I want to go there?



Agile-манифест разработки программного обеспечения

Мы постоянно открываем для себя более совершенные методы разработки программного обеспечения, занимаясь разработкой непосредственно и помогая в этом другим. Благодаря проделанной работе мы смогли осознать, что:

Люди и взаимодействие важнее процессов и инструментов Работающий продукт важнее исчерпывающей документации Сотрудничество с заказчиком важнее согласования условий контракта Готовность к изменениям важнее следования первоначальному плану

То есть, не отрицая важности того, что справа, мы всё таки больше ценим то, что слева.

Основополагающие принципы Agile-манифеста

Мы следуем таким принципам:

Наивысшим приоритетом для нас является удовлетворение потребностей заказчика, благодаря регулярной и ранней поставке ценного программного обеспечения.

Изменение требований приветствуется, даже на поздних стадиях разработки. Agile-процессы позволяют использовать изменения для обеспечения заказчику конкурентного преимущества.

Работающий продукт следует выпускать как можно чаще, с периодичностью от пары недель до пары месяцев.

На протяжении всего проекта разработчики и представители бизнеса должны ежедневно работать вместе.

Над проектом должны работать мотивированные профессионалы. Чтобы работа была сделана, создайте условия, обеспечьте поддержку и полностью доверьтесь им.

Непосредственное общение является наиболее практичным и эффективным способом обмена информацией как с самой командой, так и внутри команды.

Работающий продукт — основной показатель прогресса.

Инвесторы, разработчики и пользователи должны иметь возможность поддерживать постоянный ритм бесконечно. Agile помогает наладить такой устойчивый процесс разработки.

Your change

By October I only need to do email once per week for max 2hrs, and I still don't feel behind on anything. And there's no big pile of email waiting for me when I get home

Describe the "destination" of your change. What does success look like? Feel like?



What is your current situation?

I usually check many times per day, and total time is 10+ hrs per week. If two days pass without checking email, I have over 100 emails waiting for me & I feel behind on things.



Example: cleaning up room

How do you get a 6-year old to clean his room?

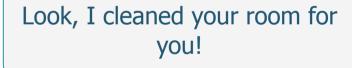


Bad strategies

I'll give you ice-cream if you clean your room



You have to clean up your room now! Or else...







Goal / destination:

Clean room? ... well, not really.



My son takes responsibility for his room, and enjoys keeping it clean by himself without me having to remind him.

... so that I save time, and he learns a valuable skill for life.





Why it worked

First step: change myself

"Coach"-mode instead of "Father"-mode

- => Don't force him to do anything
- => Don't do any of his work

CURRENT SITUATION

Stuff everywhere No clear space



NEXT STEP

Pick up any single item, decide where it lives, put it there now (GTD)



PROGRESS METER

"Look how clean THIS part of the room is now!"



Clean room

MOTIVE

Won't lose toys Won't step on things More space to play & create





Pride of work: "Look <sister> at how clean my room is! Wouldn't you like your room to be as clean as mine? I can help you if you like"

Henrik Kniberg

Finding the path of least resistance

Who else is affected by this change?

And why should they want to change?



Causes of resistance



CURRENT SITUATION

Doesn't see the current situation



Doesn't see any path





PROGRESS METER

Don't see that we are making progress

DESTINATION

Doesn't understand the destination **MOTIVE**

Doesn't want to go there



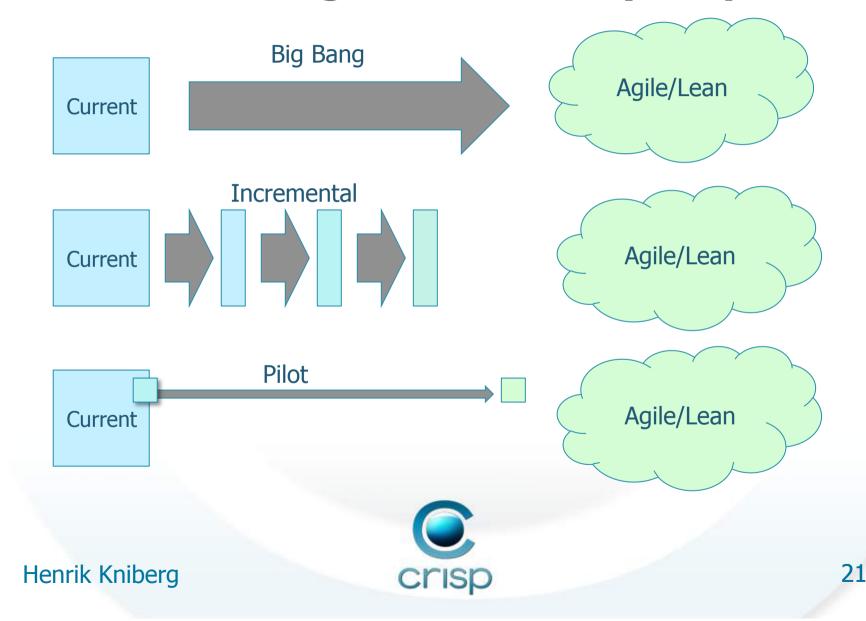


The path differs depending on where you come from

less docs less control mechanisms less planning Agile/Lean shorter release cycle Big company Waterfall company more docs more control mechanisms more planning longer release cycle Small startup company with growth pain

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Choose the length & width of your path



Strategy: Avoiding the "Not Invented Here" syndrome

Not Invented Here syndrome



Do you want to go Agile?

Of course we do.
But our managers will
never let us.



Developers



Do you want to go Agile?

Of course we do. But our customers will never let us.



Managers



Do you want to go Agile?

Of course we do. But the developers will never manage it.







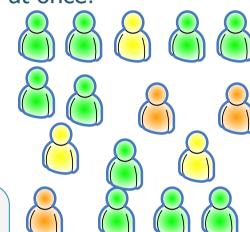
Customers



Let me tell you about Agile.
I'm not telling you that you must work
this way. I'm showing you what it is, so
that you can decide for yourself



Developers + Managers + Customers All at once!



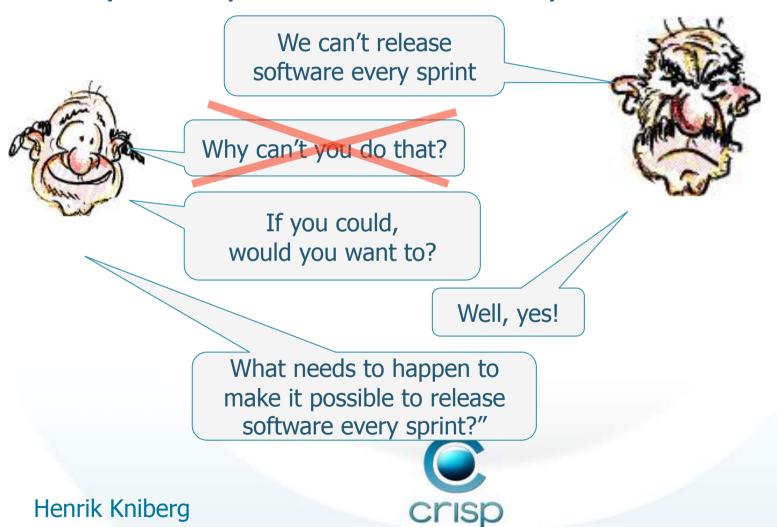
So what do you think?
Are you interested in moving in this direction?
Never mind How for the moment.

Yes!

OK what would be the first steps? Let's brainstorm some options.

Ask the right question

"Why can't you" => "How can you?"



"Wildfire method" / guerilla change

- Find combustible material in your local work area
- Set it on fire
- Once you see flame, pour gasoline on them
- Encourage multiple small fires to merge.
- The large fire will begin to spread itself



Strategy: Make the current situation painfully visible

During the last few years, a new understanding of the process of organizational change has emerged. It is not top-down or bottom-up, but participative at all levels, aligned through a common understanding of a system.

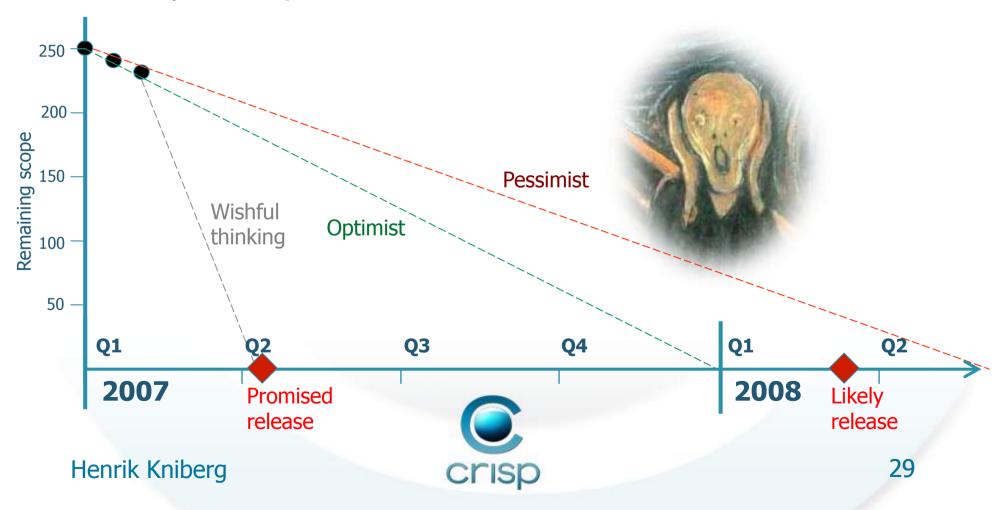


Peter Senge Author of "The fifth discipline"



Example: Late project

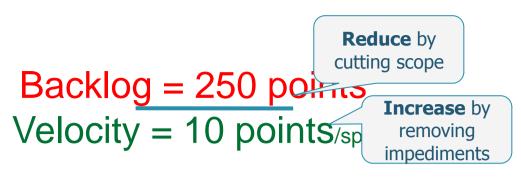
Backlog = 250 points
Velocity = 10 points/sprint 25 sprint > 1 year until release!

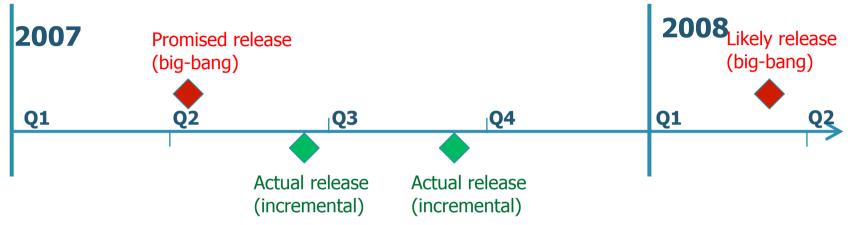


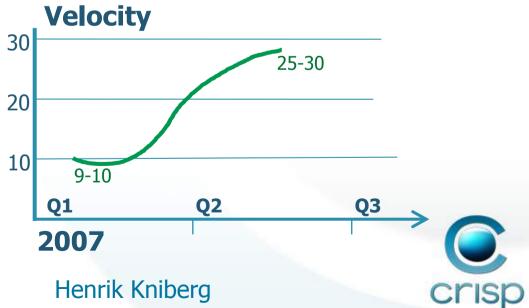
Death March











Sometimes subjective data is enough to

detect a death march



Do you believe the current goal is achievable?

5 = certainly

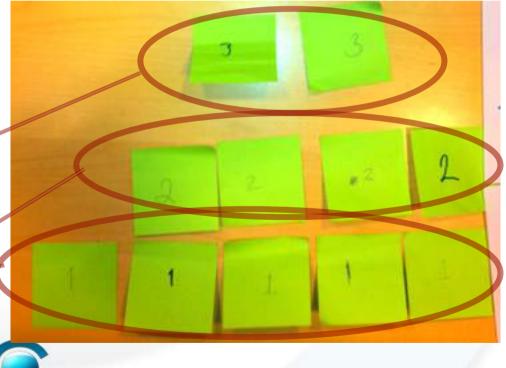
4 = probably

3 = barely

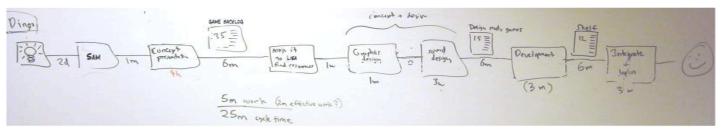
2 = probably not

1 = forget it





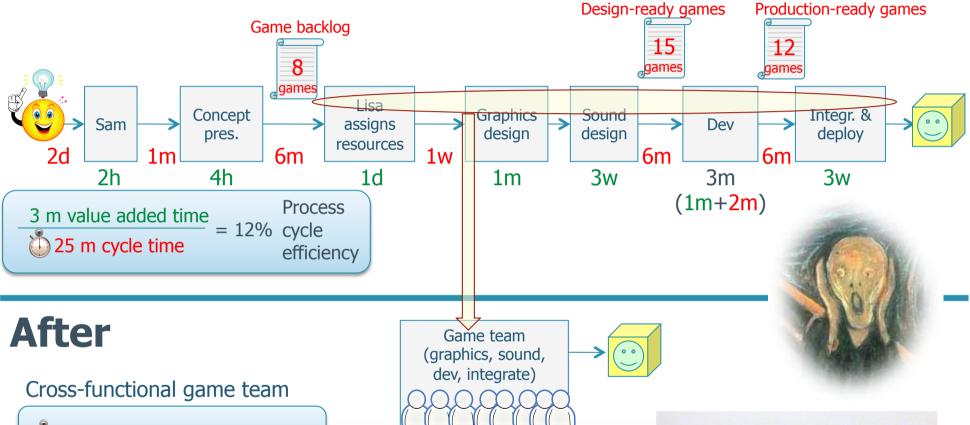
Before



1000001

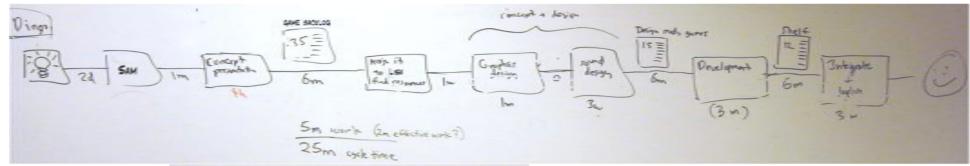
8 poogle

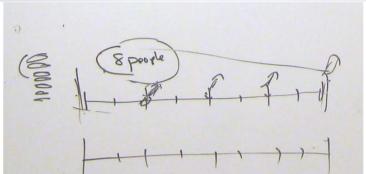
55



3-4 m cycle time = 6-8x faster

3-4 months
Crisp







This value stream was career-changing for me.

In the end, a two-hour exercise and some meetings had more impact than our two-year project





Estimated vs actual velocity

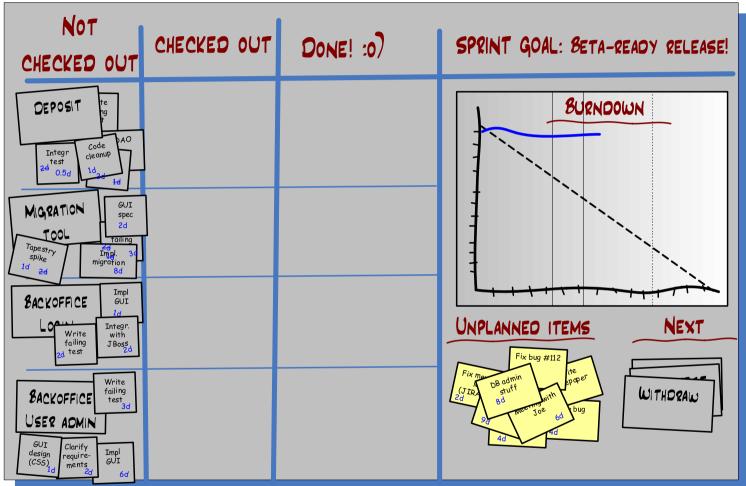
Estima	Actu
ted ₄₀	^{al} 30
40	30
40	30

Estima	Actu
ted 40	al 30
50	30
60	30





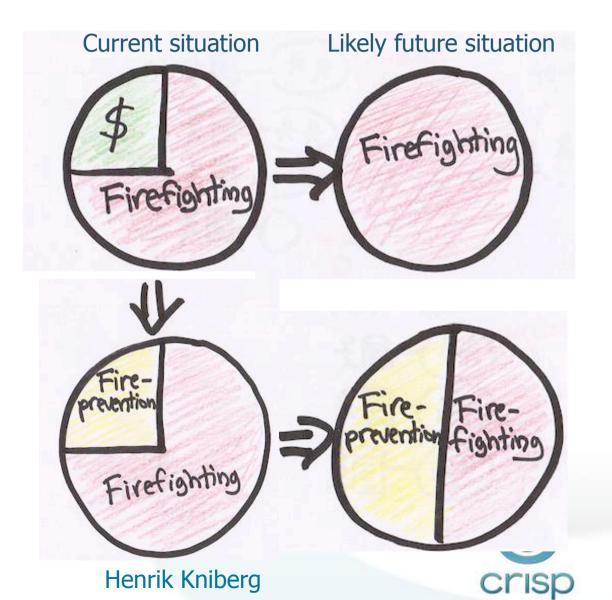
Dead Sprint Detection



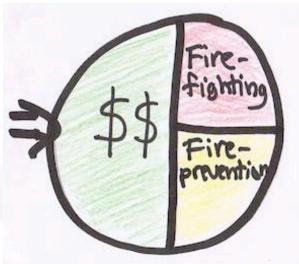




How do we spend our time?







Compare options (including the No Change option)

No, I don't want to try kanban



OK, let's try kanban.

No way! Too painful!

No way! Too difficult!

Option: Keep doing "broken Scrum"

- Sprints that don't end
- Features that can't be completed by any single team
- ...etc...

Option:

Do Scrum properly

- Features broken down small enough to fit in a sprint
- Feature teams that can start and finish a whole feature within 1 sprint
- Running, tested software after every sprint

Option:

Use Kanban to gradually improve the current process

- Big shared taskboard showing end-to-end progress
- Limit work in progress

Henrik Kniberg



Identify top 3 impediments (problems/blockers)

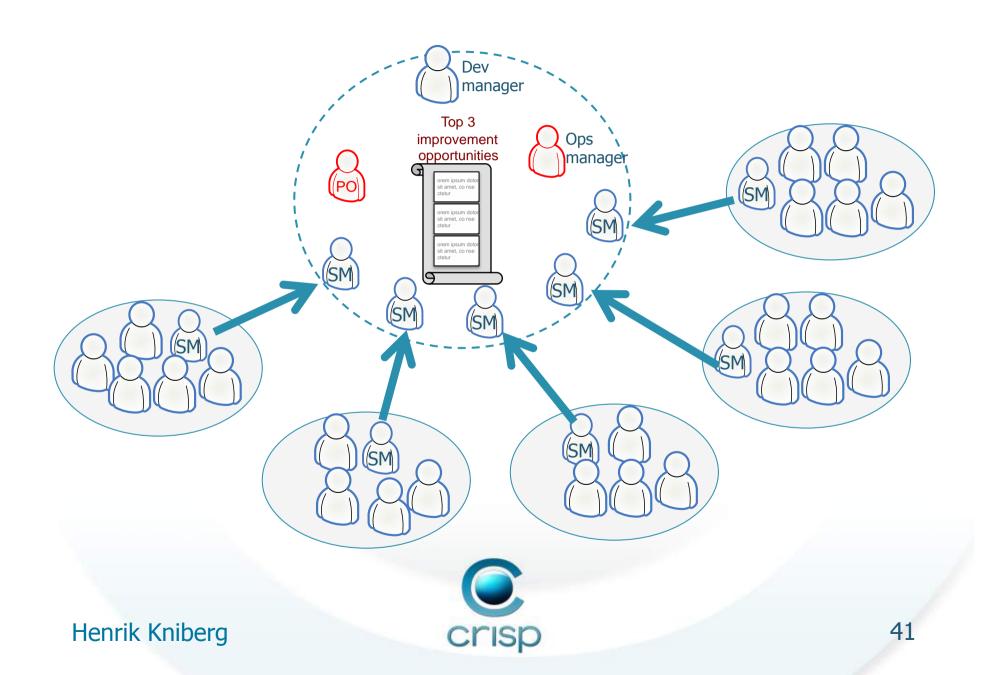
No clear Definition of Done

Increasing technical debt

Slow computers







Happiness Index

Lack of motivation

.

....



"How does it feel to come to work?" (scale 1-5)

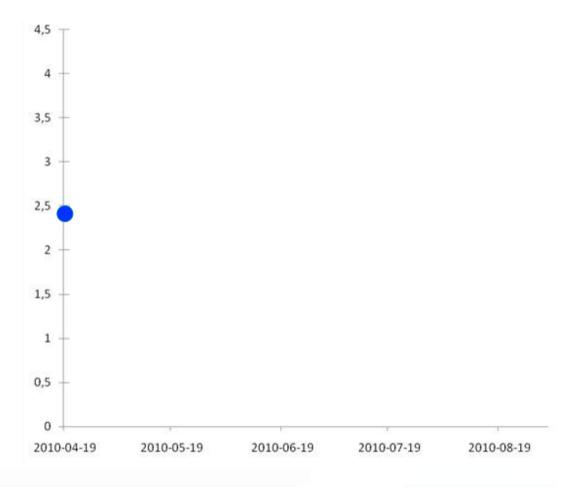
1

2

3

4





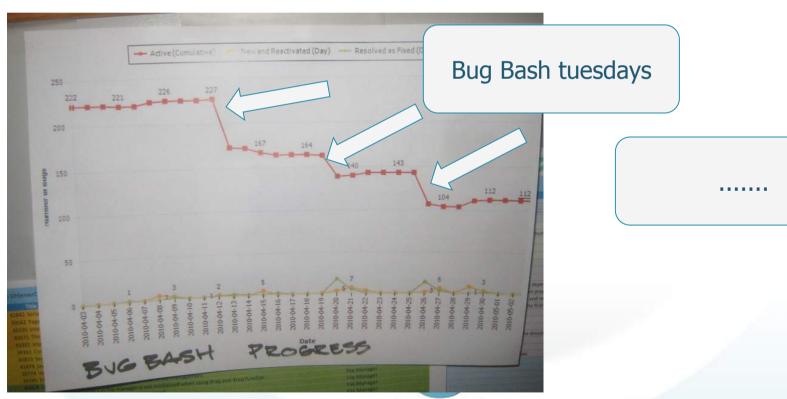


Product owner moves closer to developers

Managers & developers talk about motivation

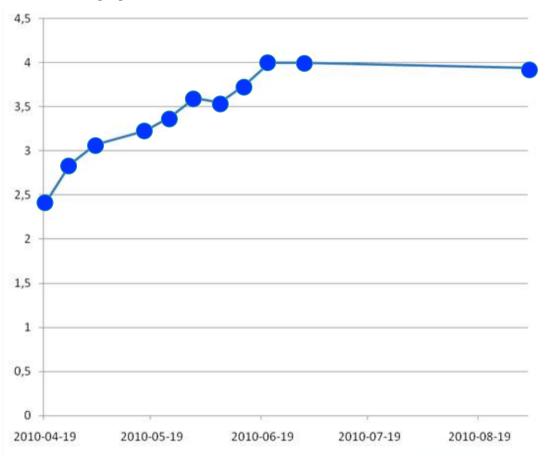
.....

Reorganization in management team

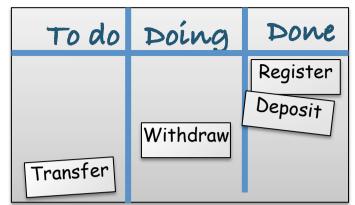


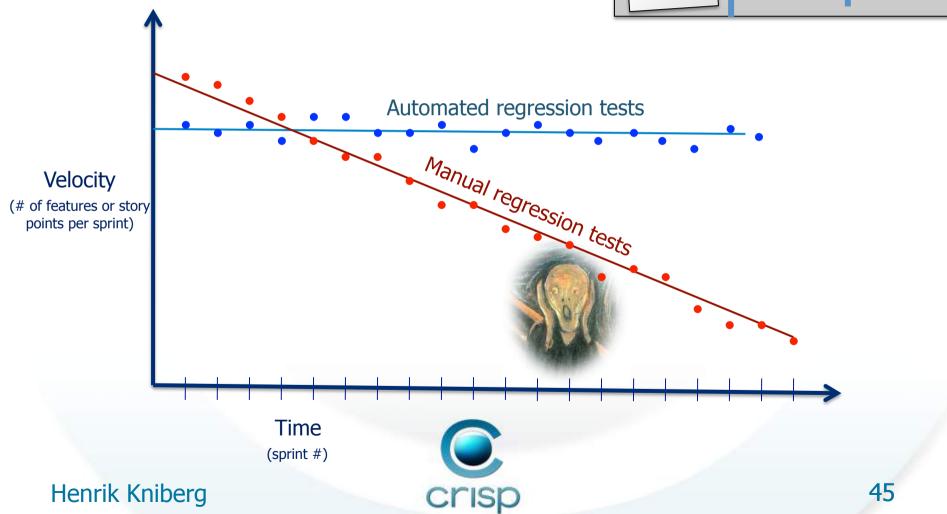
Result

Happiness Index









Strategy: Small, clear steps

Step 1: Decide what needs to be tested

- Change skin
- Security alert
- Transaction history
- Block account
- Add new user
- Sort query results
- Deposit cash
- Validate transfer



Step 2: Classify each test

Pay every time

Pay once

Test case	Risk	Manual Test Cost	Automation Cost
Change skin	low	0.5 hrs	20 sp
Security alert	high	1 hrs	13 sp
Transaction history	med	3 hrs	1 sp
Block account	high	5 hrs	0.5 sp
Add new user	low	0.5 hrs	3 sp
Sort query results	med	2 hrs	8 sp
Deposit cash	high	1.5 hrs	1 sp
Validate transfer	high	3 hrs	5 sp

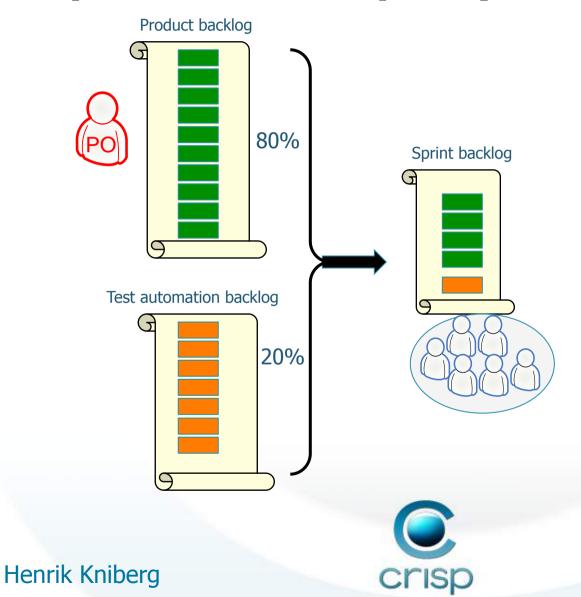
Step 3: Sort the list

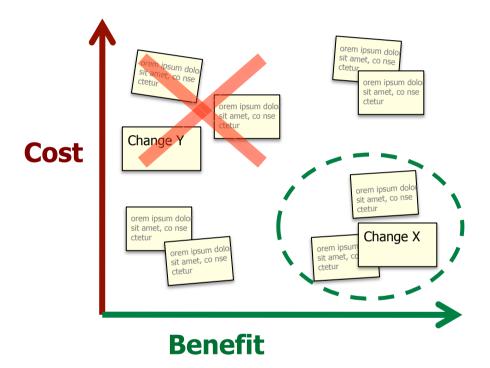
Automate first!

crisp

Test case	Risk	Manual Test Cost	Automation Cost	
Block account	high	5 hrs	0.5 sp	
Validate transfer	high	3 hrs	5 sp	
Transaction history	med	3 hrs	1 sp	
Sort query results	med	2 hrs	8 sp	
Deposit cash	high	1.5 hrs	1 sp	
Security alert	high	1 hr	13 sp	Automate last
Add new user	low	0.5 hrs	3 sp	(or never)!
Change skin	low	0.5 hrs	20 sp	

Step 4: Allocate capacity





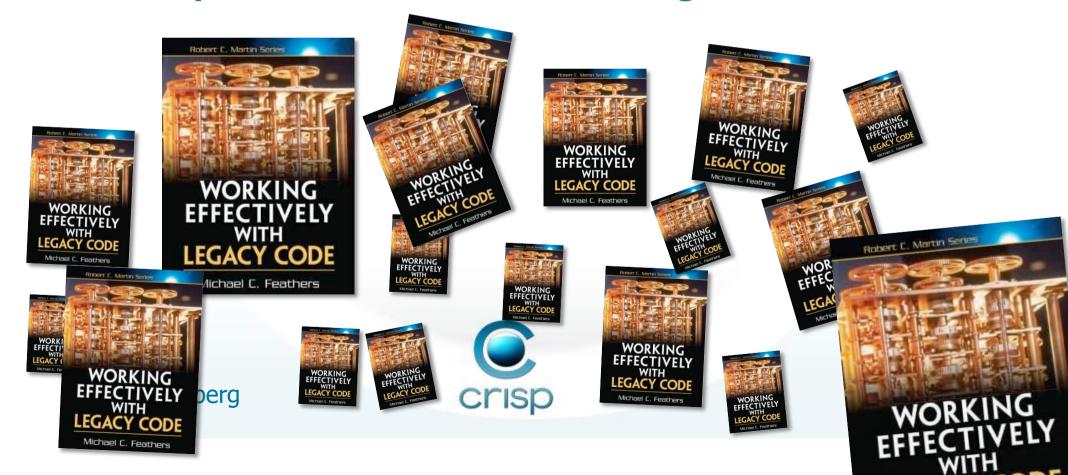


Strategy: External "expert" validation

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External "expert" validation

- Inform people about upcoming events/conferences
- Invite an inspirational speaker to come in
- "Drop" articles and books at strategic locations



Strategy: Set an example



How about if we install a CI server?

Nah, don't have time.

Don't think we have a place to install it





A few days later...



Um, Joe, you just broke the build. Again.

Ooops. Thanks. How do you keep detecting that so fast?

I got a CI server running on my machine







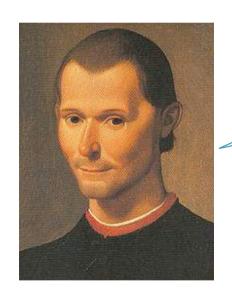
Cool! Can you make it test my branch too?





Let's install the CI on a shared server, so it works even when you aren't here.

Strategy: Reversible "experiments"



People do not truly believe in new things unless they have actually had personal experience of them

Nicollo Machiavelli



We don't think pair programming works

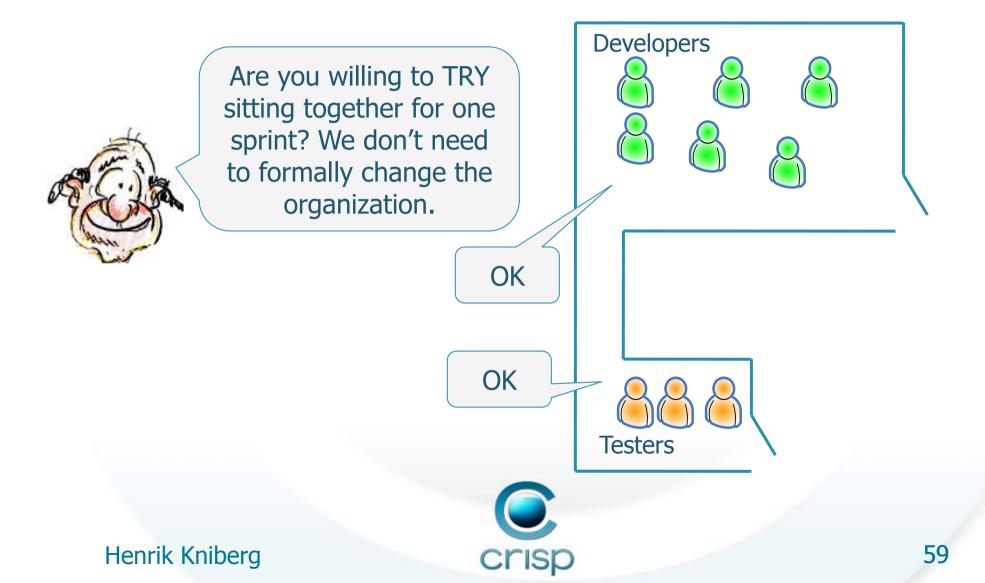


Are you willing to TRY pair programming for one sprint? If you don't like it after that, I won't bring it up again.



OK





Strategy: Make a business case for your change

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Sample business case for change

- Team estimates that our velocity would increase by 50% if we sit together.
- This means we can release 2 months early. What is the business value of that?

What is the cost of tearing down this wall so that

the team can sit together?



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Tip: Don't mix up "problems" with "fears"

Managers will complain if we pairprogram. It looks inefficient.



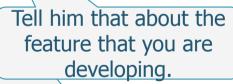
Are you sure? Have they complained in the past when you have worked in pairs?

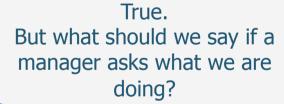


Well, actually, no they haven't.



So that just a fear, not an actual problem.





And if he asks about the pair programming, that's a great opportunity to discuss productivity.



Henrik Kniberg

Strategy: Ask for forgiveness rather than permission 64

Example: "Do we really need to produce all these documents?"

Configuration Audit Findings.doc

lkjdfjh sdflkjsdfkjh sdflkj dfjkh kjjhdjdggd fjh dfhg sdkjhdfg dfkj hdfjhgdfkjhdfhjg dfkjh df kd dlk dflk jdfkjl kjdkjhkkkjkd jjdjakf fkj djh sdfkj sdfjh dfkj dfhj d dkjdkkkd jd jffjd hdjjs dfjhbsdfkjh sdlkjviuhwjkbd sdfkjsd bejsd h. dkf fkj djh sdfkj dfhj d dkjdkkkd jd jfjjd hdjjs dfjhbsdfkjh sdlkjviuhwjkbd sdfkjsd bejsd h.

lkjdfjh sdflkjsdfkjh sdflkj dfjkh kjjhdjdggd fjh dfhg sdkjhdfg dfkj hdfjhgdfkjhdfhjg dfkjh df kd dlk dflk jdfkjl kjdkjhkkkjkd jjdjakf fkj djh sdfkj sdfjh dfkj dfhj d dkjdkkkd jd jfjjd hdjjs dfjhbsdfkjh sdfkjsd bcjsd h. dkf fkj djh sdfkj sdfjh dfkj dfhj d dkjdkkkd jd jfjjd hdjjs dfjhbsdfkjh sdfkjhuknjkbd sdfkjsd bcjsd h.

lkjdfjh sdflkjsdfkjh sdflkj dfjkh kjjhdjdggd fjh dfhg sdkjhdfg dfkj hdfjhgdfkjhdfhjg dfkjh df kd dlk dflk jdfklj lkjdkjhkkkjkd jjdjdkf fkj djh sdfkj sdfjh dfkj dfhj d dkjdkkkd jd jfjjd hdjjs dfjhbsdfkjh sdlkjviuhwjkbd sdfkjsd bcjsd h. dkf

If you see this line, I'll buy you beer! joe@example.com

lkjdfjh sdfikjsdfkjh sdfik dfjkh kjjhdjagga fih dfhg sdkjhdfg dfkj hdfjhgdfkjhdfhjg dfkjh df kd dlk dflk jdfklj lkjdkjhkkkjkd jjdjdkf fkj djh sdfkj sdfjh dfkj dfhj d dkjdkkkd jd jfjjd hdjjs dfjhbsdfkjh sdlkjviuhwjkbd sdfkjsd bcjsd h. dkf fkj djh sdfkj sdfjh dfkj dfhj d dkjdkkkd jd jfjjd hdjjs dfjhbsdfkjh sdlkjviuhwjkbd sdfkjsd bcjsd h. djh sdfkj sdfjh dfkj dfhj d dkjdkkkd jd jfjjd hdjjs dfjhbsdfkjh sdlkjviuhwjkbd sdfkjsd bcjsd h. dkf fkj djh sdfkj sdfjh dfkj dfhj d dkjdkkkd jd jfjjd hdjjs dfjibsdfkjh sdlkjviuhwjkbd sdfkjsd bcjsd h. dkf fkj djh sdfkj sdfjh dfkj dfhj d dkjdkkkd jd jfjjd hdjjs dfjibsdfkjh sdl

sdflkjasdf asdflkjasdflkj dsflkjasdfkjh

adsflkjasdflkjasdf as sadflkjasdfkjh asdkf asdlfkjasdflkj asdflkj dfkjdfjh dfkj dfjh dfl If you see this line, I'll buy you beer! joe@example.com

Configuration Audit Findings.doc

If you need to read this document please email joe@example.com and tell me why you need it and when.



Example: Bootstrapping pattern

Step 1: Ask "Why change?"

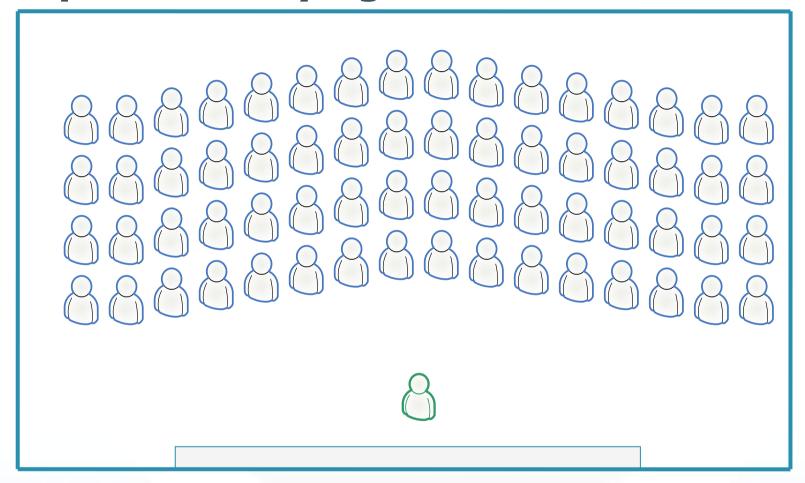
- Typical answers:
 - Faster delivery
 - Higher quality
 - Increased motivation and work pride
 - Clearer roles



Step 3: Interviews

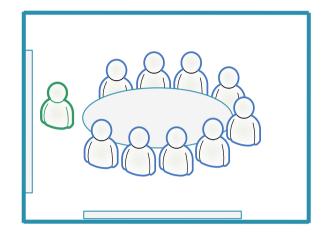


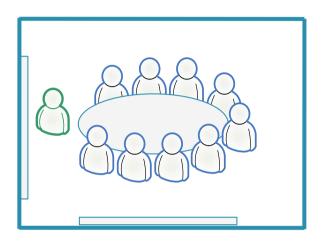
Step 4: Half-day Agile intro





Step 5: Half-day workshops









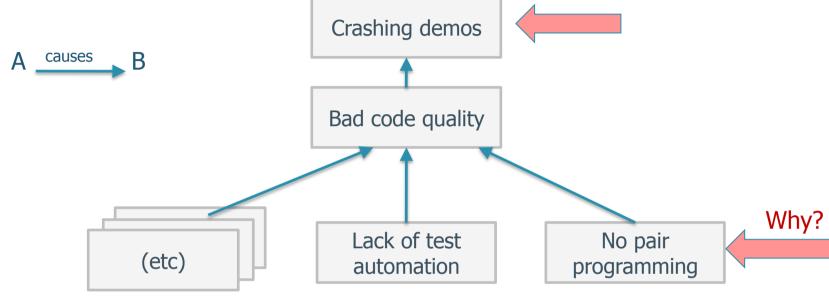
Henrik Kniberg

Technique: Cause-effect diagrams

What is the problem?









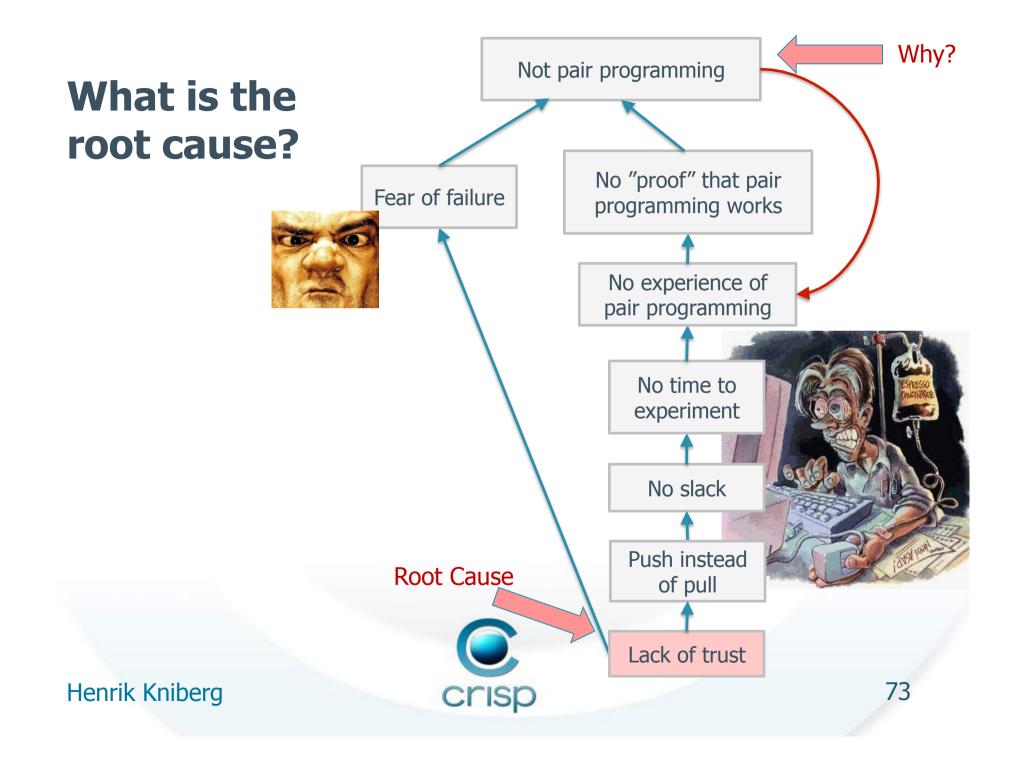
Our problem is that we're failing to do XP practices like TDD and pair programming.



Really?



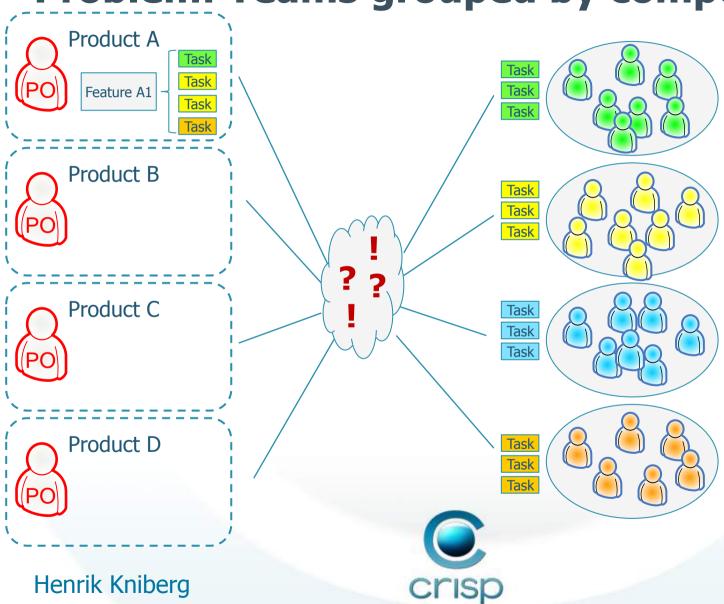




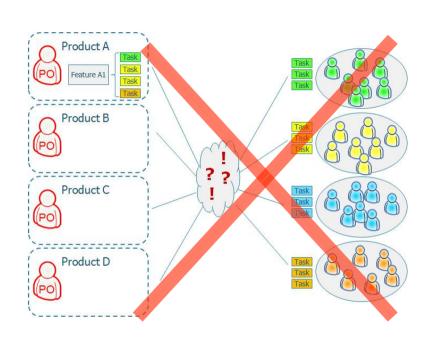
Spot the loop Problem Crashing demos causes Bad code quality Lack of test No pair (etc) automation programming Lack of trust **Root Cause** Henrik Kniberg crisp

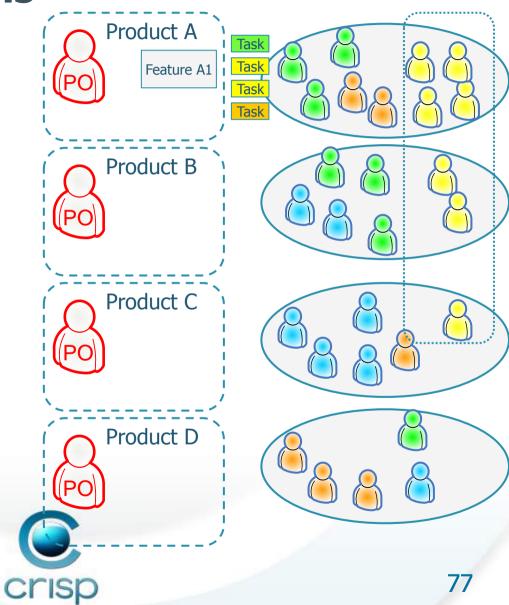
Example: self-reorganization

Problem: Teams grouped by component



Goal: Feature teams





Henrik Kniberg

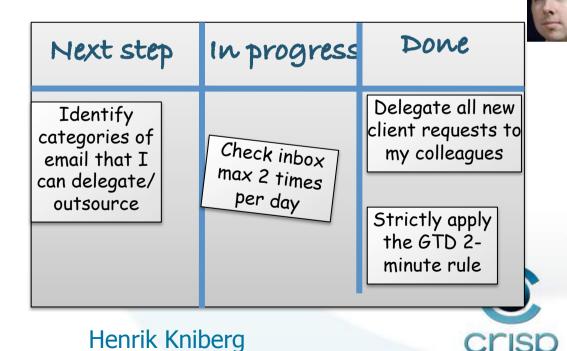




Wrapup

Your change

- What is your next step?
- How will you know if you are moving in the right direction?



Every week I expect to spend less time on email, and check email less frequently.

So I measure both of these.

- Change starts with You
- Don't change other people, motivate them to change themselves
 - Give them a reason to change (visualization)
 - Show them a way to change. (Small, clear steps)
 - Give them support, encouragement, and feedback

CURRENT SITUATION

Where are we right now?



NEXT STEP

What is the next step towards this destination?



PROGRESS METER

How will we know if we are moving in the right direction?

DESTINATION

What is the destination?

MOTIVATION

Why do we want to go there?

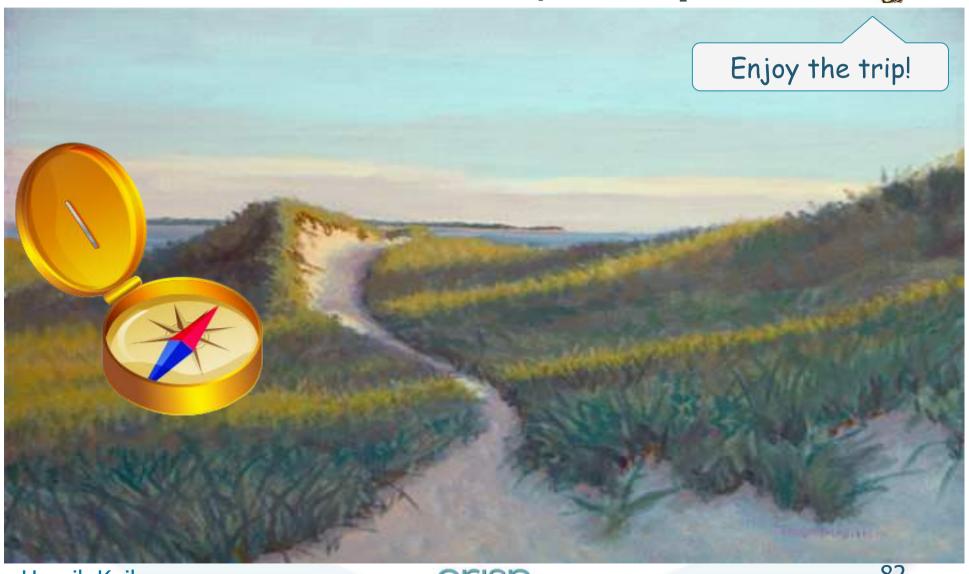


Perfection is a direction, not a place!

Henrik Kniberg



Perfection is a direction, not a place



Henrik Kniberg Crisp 82