

Real decisions, Real responsibility, Real management

Slide 1

Keith Braithwaite



With Zuhlke since 2006

- Business Unit Leader—Centre for Agile Practice
- Introduced Agile practices to
 - Whoelsale finance
 - Retail finance
 - Mobile telecoms

Previously:

- WDS Global
 - development manager in Singapore, 24x5 distributed Agile
- Senior Software Engineer at Penrillian
 - Anglo-indian company, embedded systems

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Do you manage software development?

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Sorry

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Sorry We got confused

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Sorry

We got confused

We told you a load of nonsense about software development

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Sorry

We got confused

We told you a load of nonsense about software development

This has cost you a lot of money

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"Requests start to come in faster, and with more urgency. By the end of a few months, it takes half a day for me to even respond to all of them. Every request is an emergency. I get nothing done, and without much notice, programming isn't what I get to do anymore. I love writing software, but the work is unbearable. I could never stop seeing myself as a software engineer, but I'm wondering if the industry as I had envisioned it does not really exist."—redditor deltnurgsid

Why do mangers permit this kind of nonsense?

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"Some advice from the world of book publishing [...] multiple sales people all wanting different things, all bugging me over and over. I gathered them at a meeting and said that I'd be happy to help them but they had to decide amongst themselves which projects and features got priority [...] when a salesperson came to me mid-week and pushed for something outside the list, I could say no and refer them to the list. They'd beg but eventually everyone got onboard with the manta of "If it's not on the list, don't even ask" [...] I can work on that but I can only do it tonight after 5:30pm so I'll have to work overtime. If I do, then you have to be here with me until it's done." [...] I never got a yes to this. [...] Arrive on time and leave on time and take your lunch break every single day no matter what [...] Make some unilateral decisions. This is the hardest one but it can also work incredibly well. I simply said no to some people [...] Make it very clear to everyone in a single meeting that each request cuts away time and they will personally be responsible."— redditor mathewferguson

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Topics



Preconditions for Success

Where to Begin

What Happens Along the Way

Preconditions



Things that need to be in place

- Or else you will struggle
- Of course, it won't be easy anyway

Value Programmer Productivity



Huh?

Thought experiment:

- Developer asks for a bigger monitor to improve productivity
- In your organization, what would happen?



The Monitor Question—Manager's Responses



Request dismissed out of hand

Mental note: X is "not team player"

Referred out of existence

- Never-ending upwards chain seeking budget authority, or
- Ditto seeking permission for a "non-standard" monitor

Lip-service analysis leading to refusal

Hard-core analysis

Could go either way, but honest whatever the outcome

Lip-service analysis leading to authorization

Authorized without question

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What is a Monitor Worth?



Developers aren't cheap

annual cost	days	cost/day
£60,000	200	£300

Monitors aren't expensive

■ £300 gets you 26"

How much more productive would they need to be?

actual work 201
paid-for work 200
required increase 0.50%



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What Could a New Monitor Achieve?



Czerwinski's study at Microsoft

between 10% and 44%

Anderson, University of Utah

- 52% for 24" relative to 18"
- 44% for two 20" relative to 18"

Call it 20%

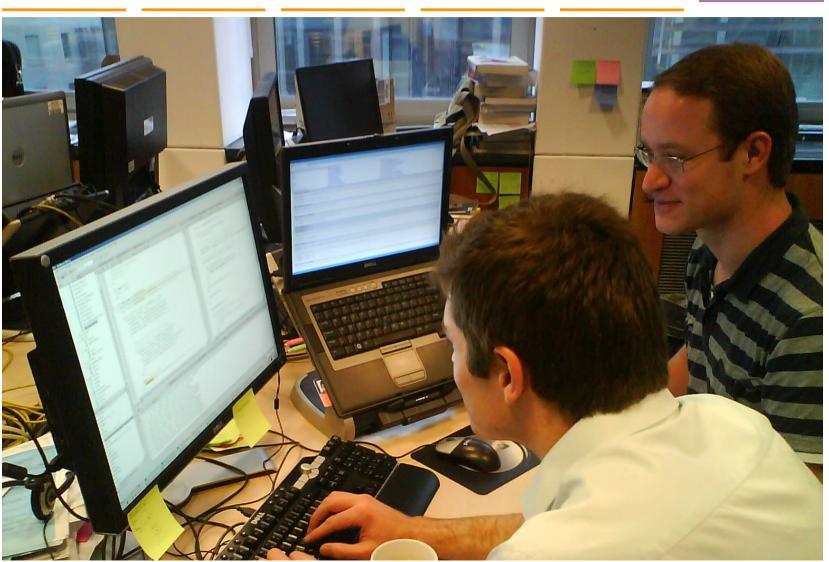
% increase
paid-for work
actual work
would cost
saving £11,700
20%
240
£72,000

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What would your organization do?

At Zuhlke





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Be Aware of Your Model



Agile has less (but not nothing) to offer to

- Open-ended R+D
 - Or otherwise focusing on technical novelty
- Non time or budget critical
- Well known, fixed requirements
 - And solid estimation data

Agile really shines for

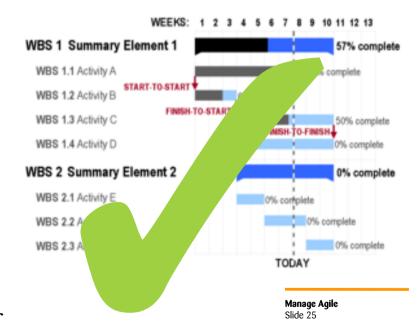
- Projects building systems with a user/business focus
- Time-critical delivery

Well known, fixed requirements



A team resisted the introduction of Agile

- They built emulators of mobile phone handsets
- Requirement is absolutely fixed
 - Phone does not grow new menus or buttons
- Estimation data was solid
 - They'd built dozens of these tings, all the same way
- Planning and tracking by Gantt chart was perfect
 - They were right to resist: all the pain of change for very little gain



Test-first Process Improvement



Know what you want to achieve

- "Be better" is not a goal
- Neither is "be Agile"

It could be

- Reduced time-to-value
- Reduced defect rates
- Improved customer/user satisfaction
- Improved accuracy of planning
- The list goes on...

Ask what these things are worth



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Example: Time-to-Value



Once Fund Manager's internal IT department

6-month release cycle

- Best case
- Manual testing
- Sometimes low quality

Goal: release new features monthly

Value: calculated through ability to bring new kinds of business to market earlier

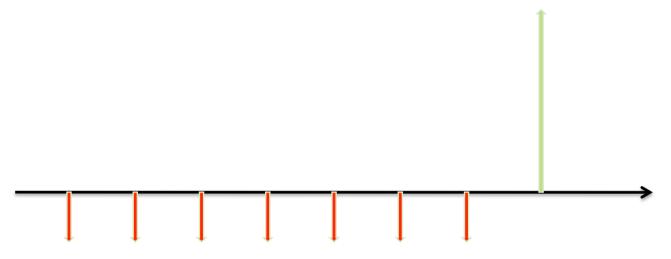
Tracking: Within a year releases could be made every 6 weeks, and falling

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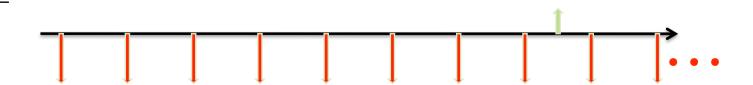
IT Project as Financial Instrument



The traditional model makes this claim:



Too often ends up like this:



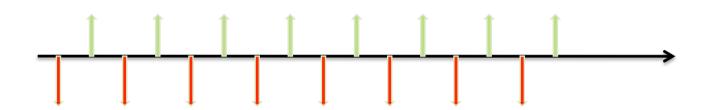
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IT Project as Financial Instrument



Agile proposes something more like this:



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What Will Happen Along the Way?





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Some Developers Will Get Upset



Collective Code Ownership

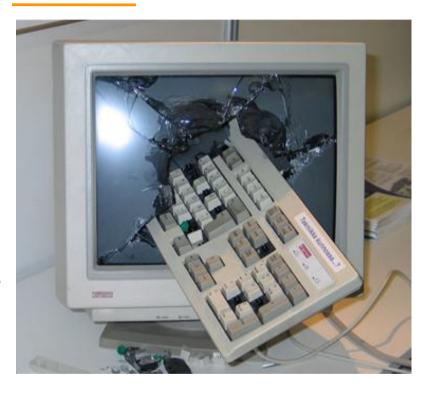
Some developers have a huge amount of ego invested in "their" code

No recognition for "Rock stars"

 Agile prefers the consistent team contributor over the temperamental genius

Testing

- Some programmers consider themselves too clever to need to test
- Some developers resent having to postpone "real work" to fix the build



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It Isn't Broken so they aren't Fixing it



Automated functional testing

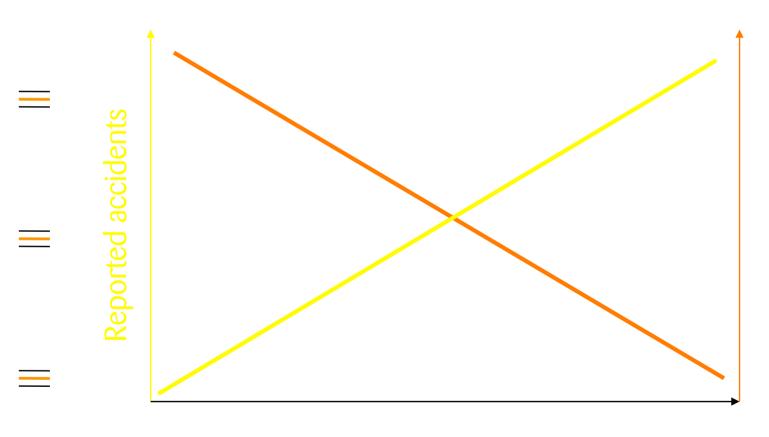
- Braced for the usual post-release nightmare
- But the phones did not ring
- A defect-free release
- The approach now mandatory for all new build

Value Date	Primary CCY	Туре	Against Ccy	Amount	FxType	FxRate
19-Mar-2008	CHF	FBY	USD	10000.00	Non Hedge	1.0000
19-Mar-2008	DKK	FBY	USD	10000.00	Non Hedge	1.0000
19-Mar-2008	GBP	FBY	USD	5000.00	Non Hedge	2.0000
19-Mar-2008	NOK	FBY	USD	10000.00	Non Hedge	1.0000
20-Mar-2008 missing	CHF	FBY	USD	10000.00	Non Hedge	1.0000
20-Mar-2008 missing	DKK	FBY	USD	3234.56	Non Hedge	1.0000
20-Mar-2008 missing	EUR	FBY	USD	785.71	Non Hedge	1.4000
20-Mar-2008 missing	GBP	FBY	USD	8889.76	Non Hedge	2.0000
20-Mar-2008	JPY	FSL	USD	4032768	Non Hedge	0.0010
20-Mar-2008 missing	NOK	FSL	USD	5555.12	Non Hedge	1.0000
20-Mar-2008 missing	SEK	FBY	USD	4016.23	Non Hedge	1.0000
25-Mar-2008 missing	JPY	FSL	USD	1000000	Non Hedge	0.0010
21-Mar-2008 surplus	CHF	FBY	USD	20000.0	Non Hedge	1.0
21-Mar-2008 surplus	DKK	FBY	USD	13234.56	Non Hedge	1.0
21-Mar-2008 surplus	EUR	FSL	USD	3658.73	Non Hedge	1.4
21-Mar-2008 surplus	GBP	FBY	USD	23334.64	Non Hedge	2.0
21-Mar-2008 surplus	JPY	FSL	USD	1.4032768E7	Non Hedge	0.0010
21-Mar-2008 surplus	NOK	FBY	USD	4444.88	Non Hedge	1.0
21-Mar-2008 surplus	SEK	FSL	USD	1967.54	Non Hedge	1.0

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Safety Culture





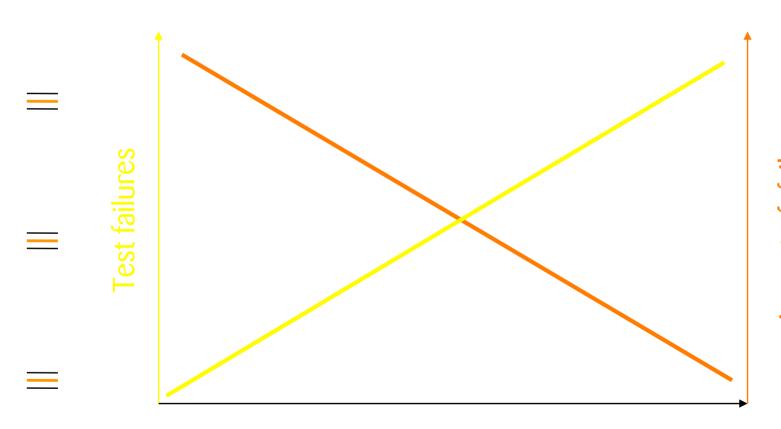
Impact of accidents

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Testing Culture



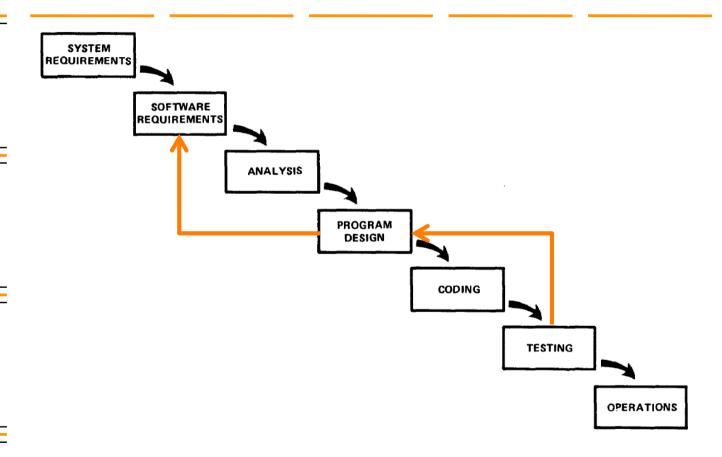


Impact of failures

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Some Managers Will Get Upset

zühlke empowering ideas

No more Gantt charts

- No %complete figures to fudge
- No assignment of tasks
- No planning daily activities six months in advance

Instead: real decisions, real responsibility, real management



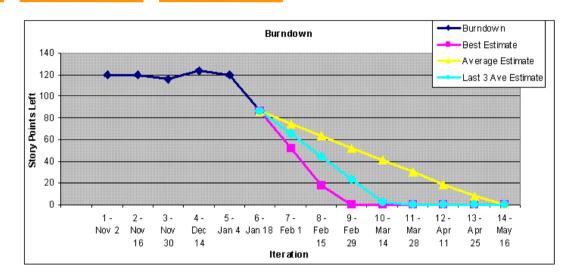
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Transparency



Ditch the Gantt chart

- Report number of (functional) tests written, passing
 - Trended over time
 - Projections based on a few likely scenarios



- At next project board
 - The news was not good, projections showed missing scope at delivery time
 - But, board very happy...

"The first time we've ever had a status report form a project that we believe"

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■ Therefore, realistic intervention possible, project did improve

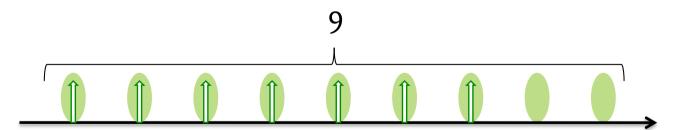
Measuring Scope through Acceptance



- Acceptance tests for features
- Written before implementation starts

Mean

- Project scope is quantified
- IT has early access to success criteria



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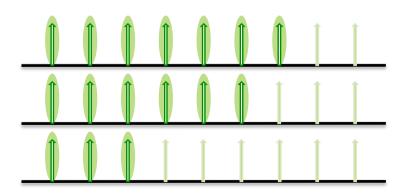
Measuring Progress through Value Added

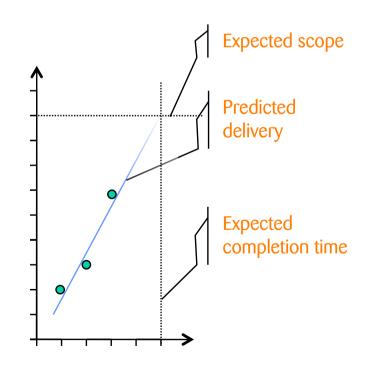


- Passing Tests track Value Added
 - Passing test means "feature present and working"
 - Working features stay working

Means

- Progress is quantified
- Early warning of delivery risk



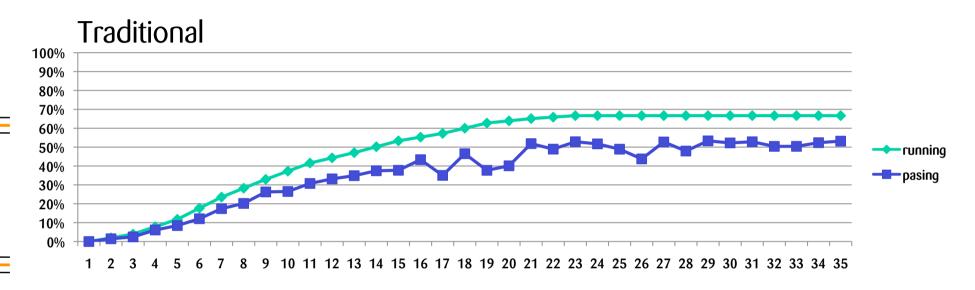


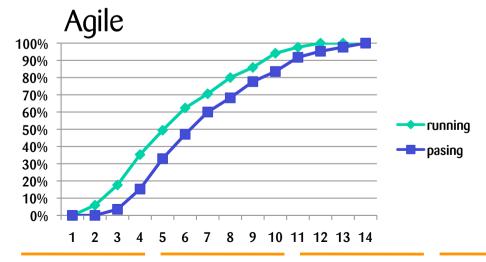
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Progress By Tests







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People About the Place will Get Upset



Being in close proximity to an Agile team can be a strain

- They're talking *all the time*
- They're never doing any real work
 - Translation: they appear to be enjoying themsleves
- They've got all this untidy stuff stuck on the walls
- How come they get the big monitors?
- What's so special about those *^&# \$*§&'s?



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What is so Special About Them?



They deliver. Every time.

This can be big shock to the rest of the organization

Other groups can respond badly

- Envy
- Jealousy
- Not happy at being shown to be incompetent
- Old established ideas shown to be wrong
 - Oh, how much money have they wasted over the years...



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Questions?



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