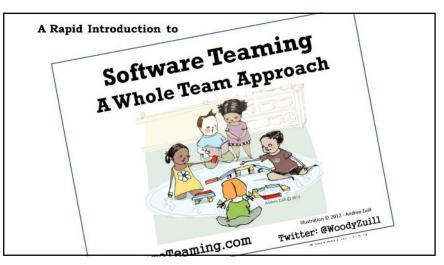


"The value of another's experience is to give us hope, not to tell us how or whether to proceed."

Peter Block

1 2

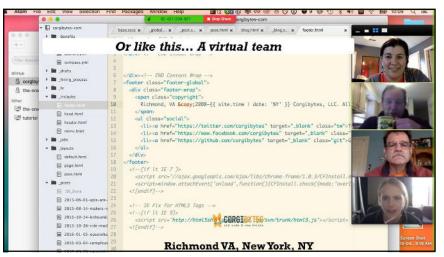


Software Teaming

on the same thing...
at the same time...
in the same space...
at the same computer...







It is NOT:
5 people watching 1
person coding.





Definition:

Contrary to reason or common sense; utterly absurd or ridiculous.

9 10

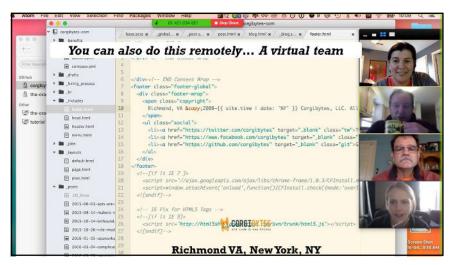














Why would we work this way?



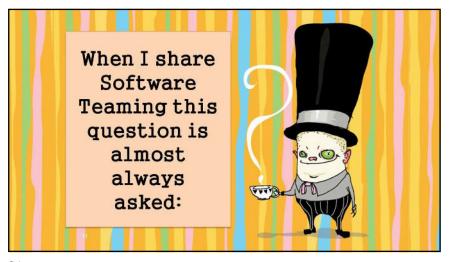
17

Why would we work this way?

- · Knowledge sharing
- · Continuous code and design review
- · Many perspectives on the work
- Rapid feedback
- · We Focus on the right things
- · Enhance flow of the work
- · Eliminate queues and reduce inventory
- · Better solutions
- Higher quality
- More fun, less stressful, more engaging... etc.

Why would we work this way? Because the team decided to.

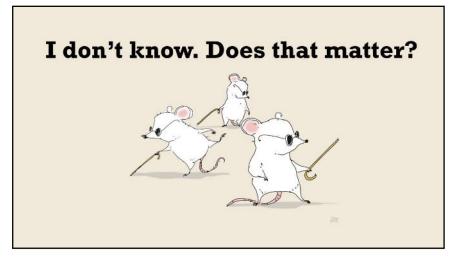




How can you be productive with 5 people at one computer?

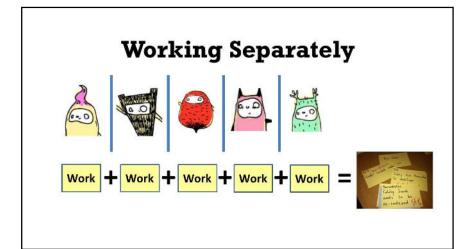


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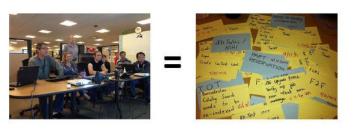


We were paying attention

Here is what we noticed



But working together



25 26



VS



Not just more stuff
The more meaningful stuff
It was better done
And of higher quality



VS



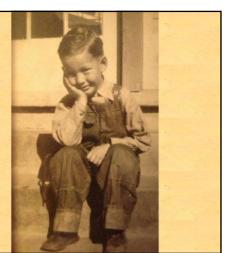
"A system is not the sum of the behavior of its parts, it's the product of their interactions."

Russel Ackoff

How can we be productive with 5 people at one computer?

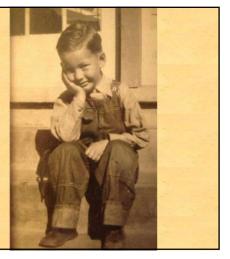


"A good question isn't for answers... it's for finding a better question"



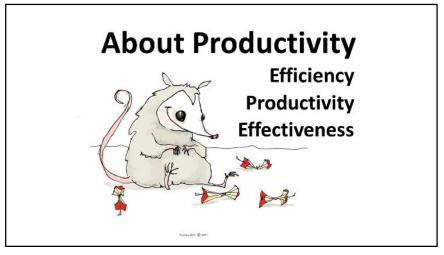
29 30

I wanted a better question



How can we be **PRODUCTIVE** with 5 people at one computer?





Condensed:

Efficiency = Utilization
Productivity = Getting things done
Effectiveness = Getting right things done

33

Why I'm after effectiveness:

Efficiency: Busywork

Productivity:Wrong things

Effectiveness: Right things

How can we be productive with 5 people at one computer?



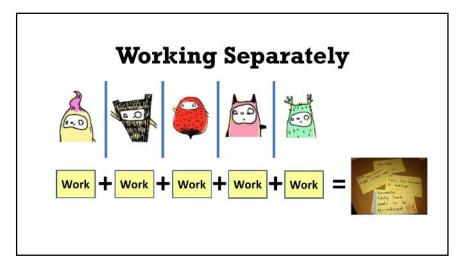
How can we be effective with 5 people at one computer?





37

Point of View



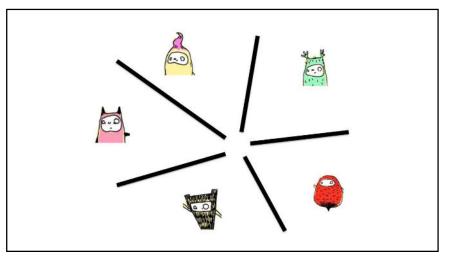


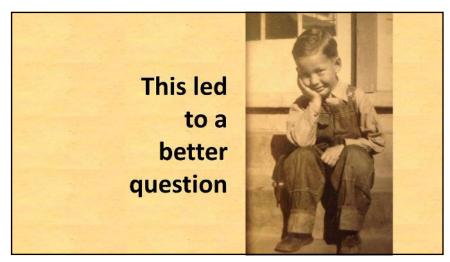




How can we be effective if we Separate the people who should be working together?

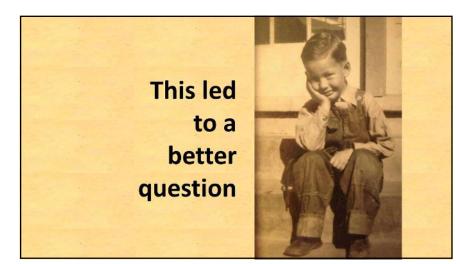
7/24/2024





45

How can we prove the one way is better than the other?



What are the things that we are currently experiencing that destroy effectiveness?

Exercise

What are the things that we are currently experiencing that destroy effectiveness?

Three minute exercise



49

A short list of things that can destroy effectiveness:

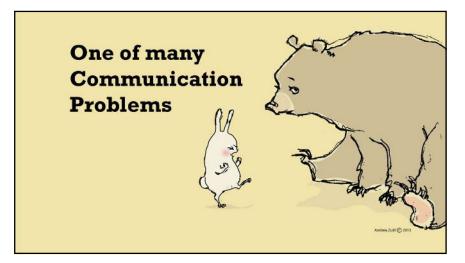
Fatigue Hunger Personality conflicts Personality clashes Missing requirements Missing resources Insufficient resources Monolith architecture Cumbersome processes Disagreements Poor working conditions Too Much Noise Too Quiet Context Switching Workflow interruptions Onboarding Negativity Technical Debt

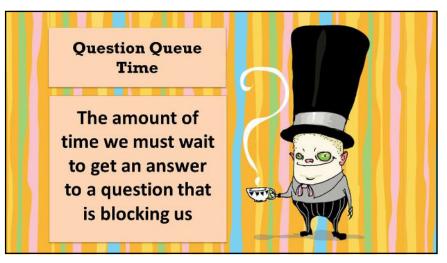
Not taking enough time the first time Communication barriers Lack of knowledge Lack of skills Needless meetings Waiting on clarification Lack of motivation Fear Lack of plan Upsetting work environment Lack of context/understanding Indecision Doubt Distractions Analysis paralysis Bugs Snow days

Not everyone is on the same page Not knowing something External dependencies Unclear expectations Unrealistic expectations Time zone differences Waiting on other teams Lack of work backlog Interacting with others Dependency on other teams Waiting on dependency Technical blockers Scarce materials Not knowing how to do something Multitasking

50

We noticed many problems simply faded away when we started Software Teaming!

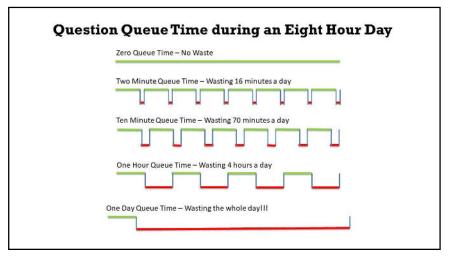


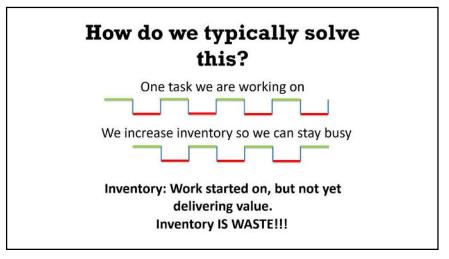


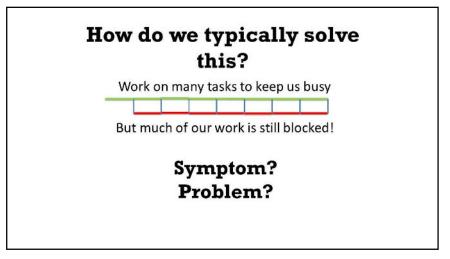


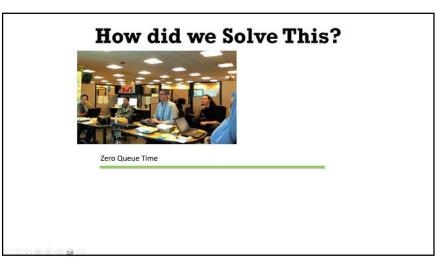
Question Queue Time
Value Stream Map

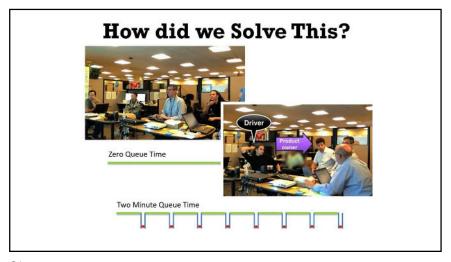
As an example:
One Hour, One Question





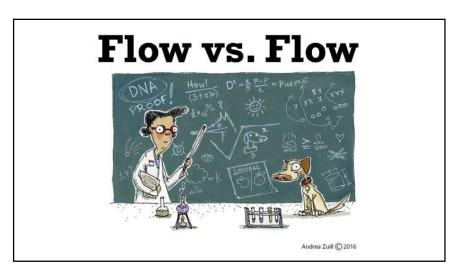


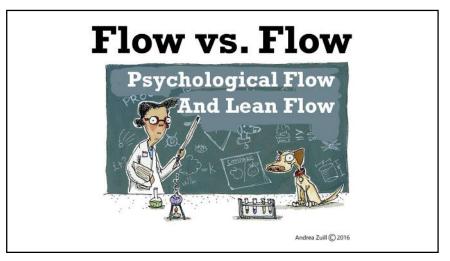


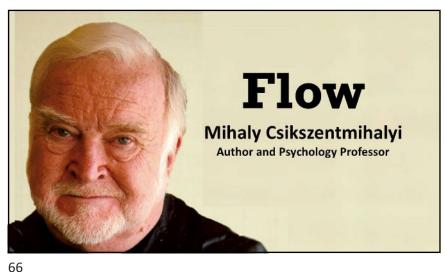


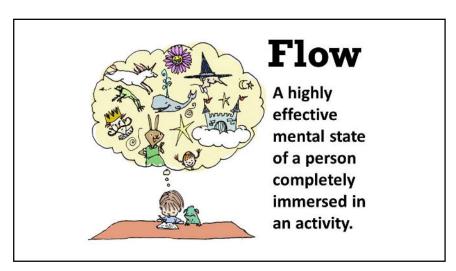












Flow Being "In the Zone"

- · Leads to a sense of ecstasy and clarity
- You know exactly what you want to do from one moment to the other
- Sense of time disappears.
- · You forget yourself.
- You feel part of something larger.

- Csikszentmihalyi

Do we destroy psychological flow when we work as a team?

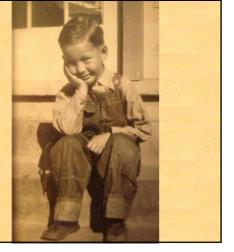


We Enable Individual FLOW by giving each person the safety and space to think in their own way.



69 70

I wanted a better question



Is there a "team" psychological Flow, and what is that like?





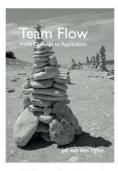






Team Flow

Collective ambition
Common goal
Aligned personal goals
High skill integration
Open communication
Safety
Mutual commitment
Sense of unity
Sense of joint progress
Mutual trust
Holistic focus



Jef van den Hout

We Enable Team FLOW by Working Well Together



77



But...
There is another kind of flow.
Flow, as in Lean



Flow In Manufacturing [simplified]

- · Complete production of one piece
- · From start to finish
- With as little inventory (work in process) and as little queueing (waiting between operations) as possible

Can we get Flow with Software Development?

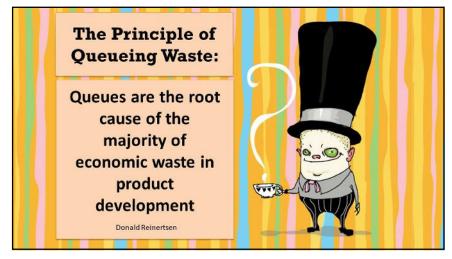
81

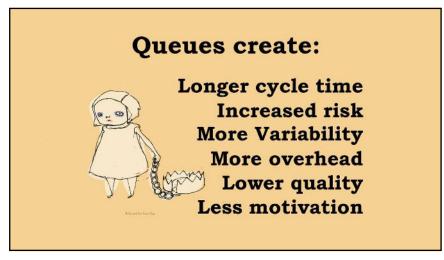
It
Appears
we can

The
Principles of
Product
Development

FLOW
Second Generation
Lean Product Development

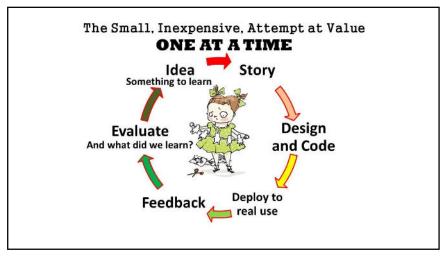
DONALD G. REINERTSEN





Flow with Software Development:
Each Story flows from "idea"
to delivered, working software
directly
without queueing,
inventory,
distraction,
interruption,
context switching,
or multitasking

85



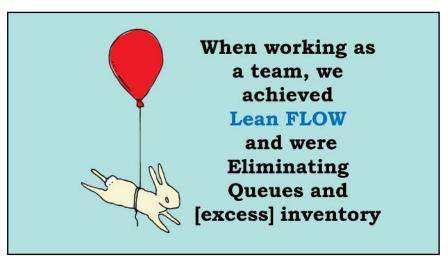
What we found when we Achieved "flow"

Green: The Right Work Getting Done

(includes exploring, experimenting, discovery)

Red (Waste): The Wrong Things faded away

Examples: Queuing and Waiting, Inventory, Merging, Arguing, Discussing rather than trying things, Work that doesn't need to be done, Doing the "Wrong Thing", Failure Demand, meetings, coordination, prioritizing... ad nauseam





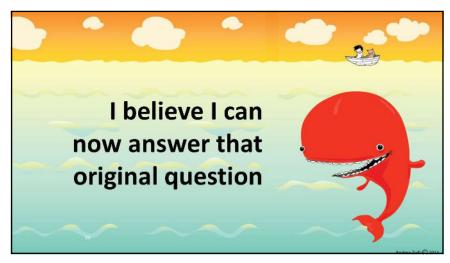
We optimize for the flow of the work

rather than for the output of the individual

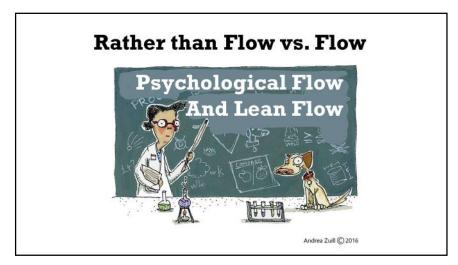


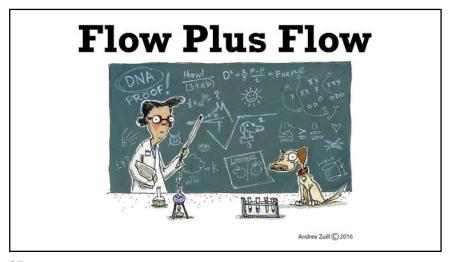












Individual Psychological Flow

Plus
Team Psychological Flow

Plus *Lean* Flow

97

98



