

TSP Symposium 2012

St Petersburg Sept 18-20

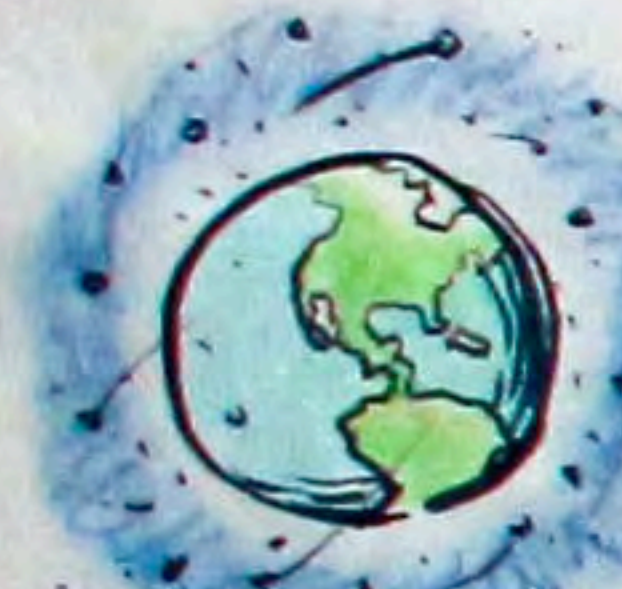
THE WAY FORWARD

HIGH MATURITY PRACTICES
Solving Software Engineering's Persistent Problems

Processes built by the bureaucracy & not by the developers just don't work.

DO IT THIS WAY

Welcome



Tracking Space Junk - Attempts to modernize equipment & software failed
Software Processes Matter!

Software is in the middle of Everything



Coming Soon!



The next Pearl Harbor could be a cyber attack

CLASSES of PROBLEMS

WICKED	TAME
Messy ill-defined multiple interpretations	Understood defined

not completely solvable | Solvable

Do we make the Problem worse or better?

If our methods do not serve the individual professionals, they will not endure.

Persistent Problems

- Cost of finding/fixing defects
- Cybersecurity vulnerabilities
- Arbitrary & unrealistic schedules
- Individual productivity variation
- Scale
- Measuring, Managing & rewarding work
- Work place democracy

A good method might not address a persistent problem

The Real Question - Whose Process Is it?

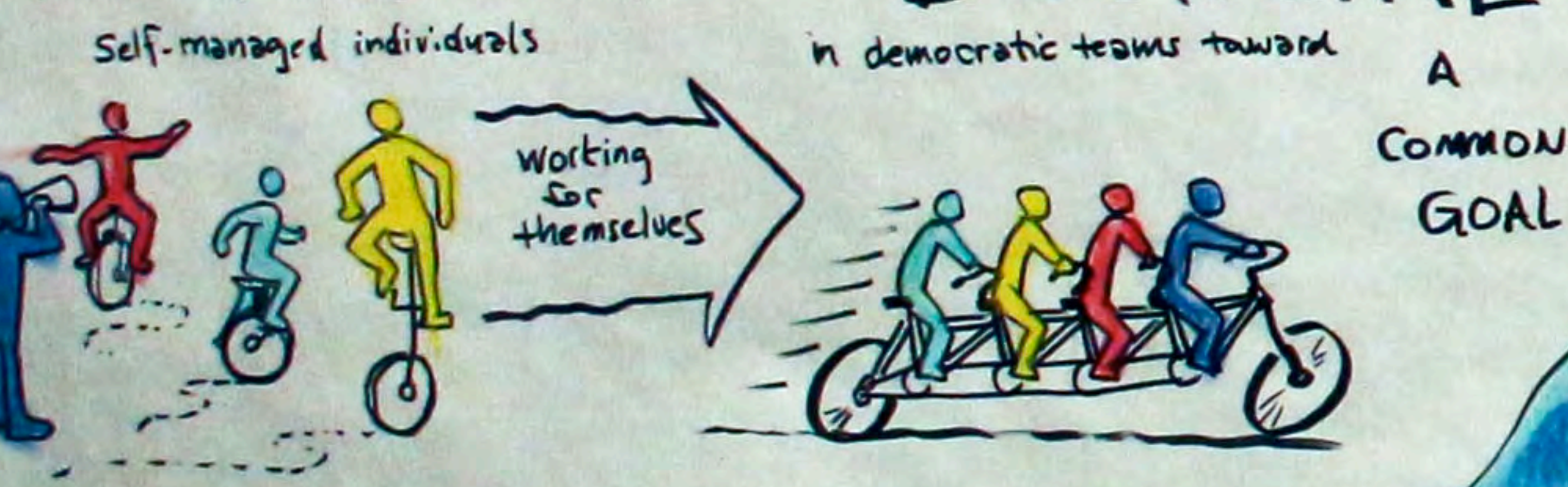
Agile Manifesto - are its assumptions true? - you still end up with a lot of bugs at the end.

THE WAY FORWARD
Agility, Quality, Discipline + Joy in the Work

"Seven Outrageous Commitments"

- 1 Create consistency of purpose & dedication to address the persistent wicked problems.
- 2 Restore the individual
3. End the practice of imposing arbitrary & unrealistic schedules
4. Improve continuously & forever the performance metrics that matter
5. Cease dependence on the test & rework cycle for defect removal
6. Transform acquisition practices with less emphasis on oversight & create a culture of continuous improvement based on facts.
7. Take action to fulfill the Seven outrageous commitments

AGILITY WITH DISCIPLINE

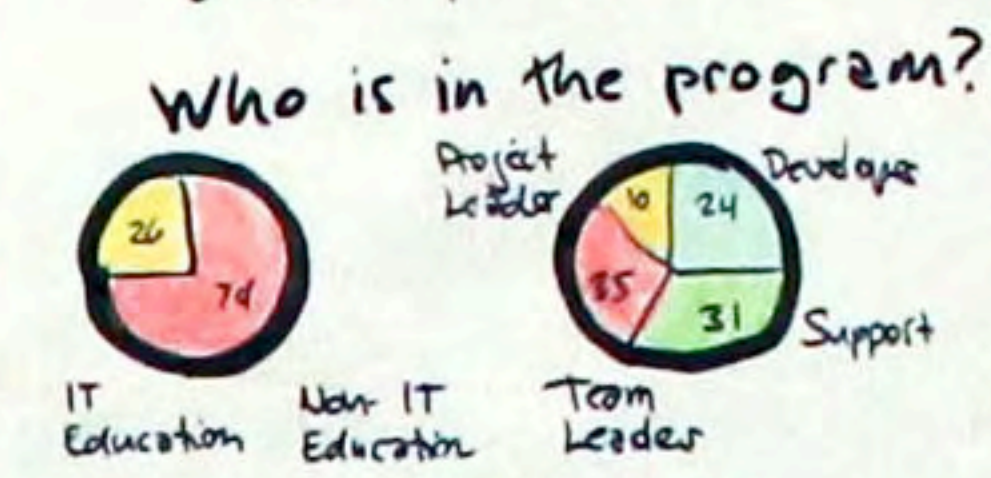


Leading a Development Team Pilot for IT Project Mgmt. Master's Degree Program
Valentina Ivanova - NBU

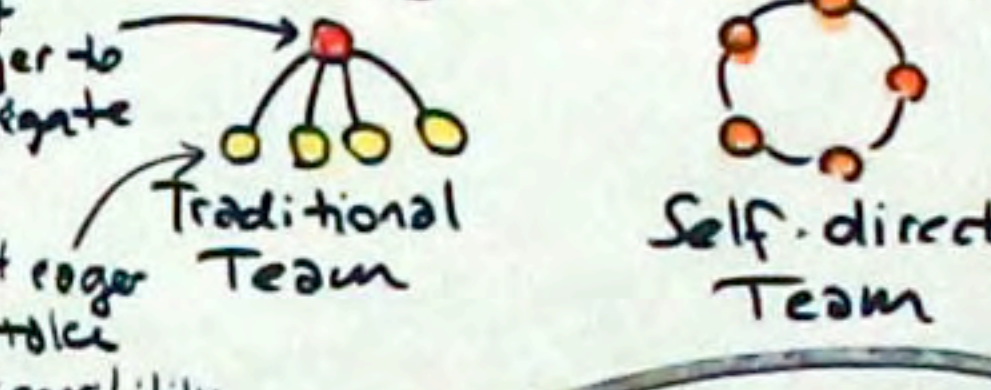
SEMP - Software Engineering Management Program

SEMP FOCUS AREAS
Enabling Technology Management Business (Process)

"SEI-CMU Leading a Development Team"



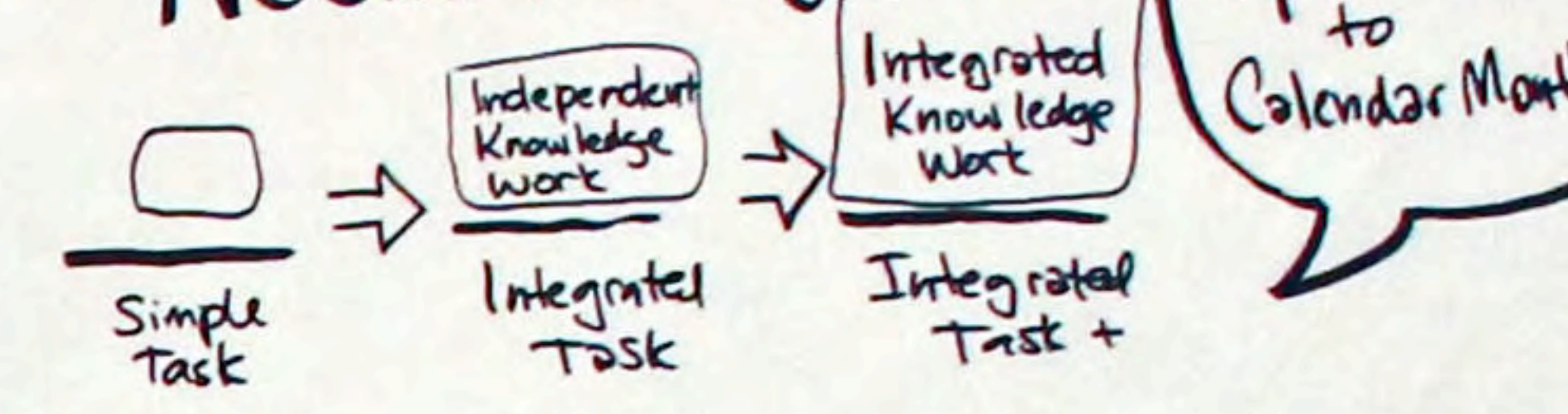
Leading vs. Managing



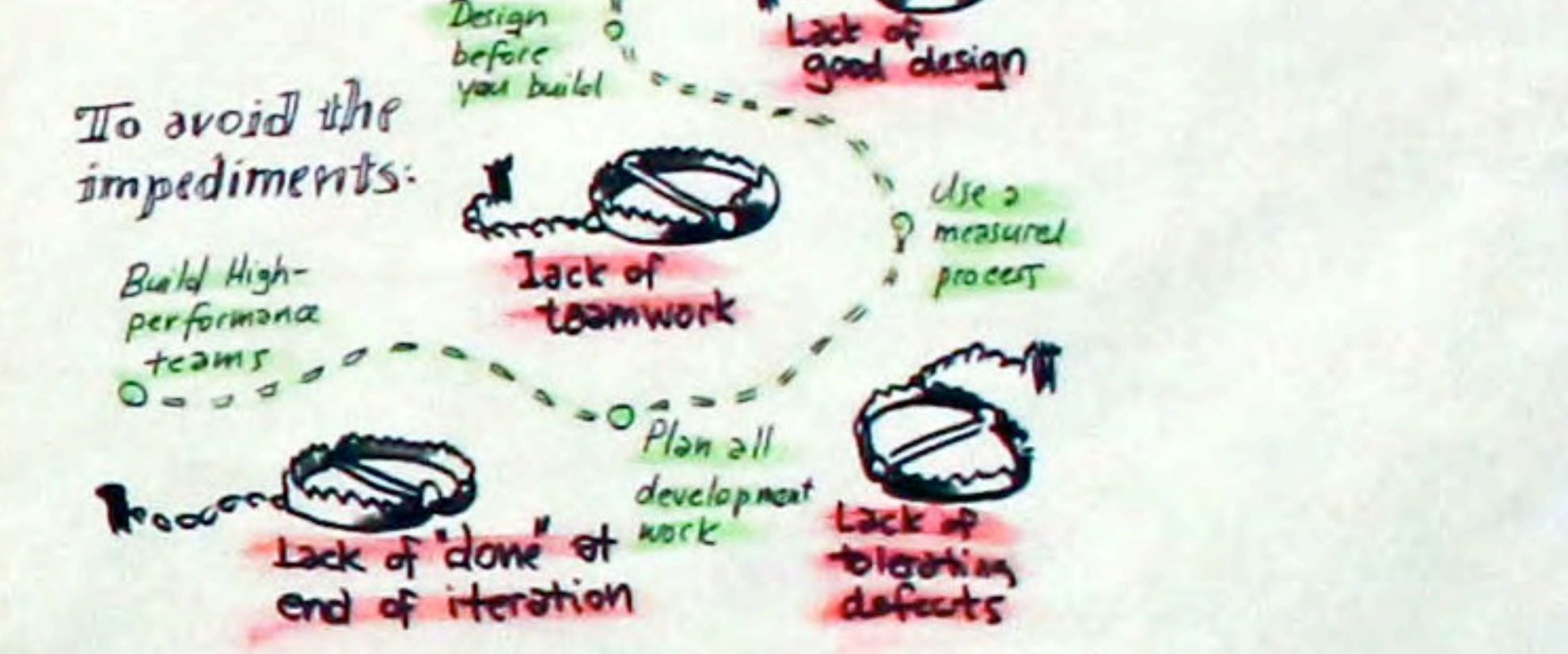
PSP teaches disciplined process via development. The concept proves itself using the student's own data.

Why does Agile Software Development NOT require the TSP Disciplines?
Yoshihiro Akiyama - NPI

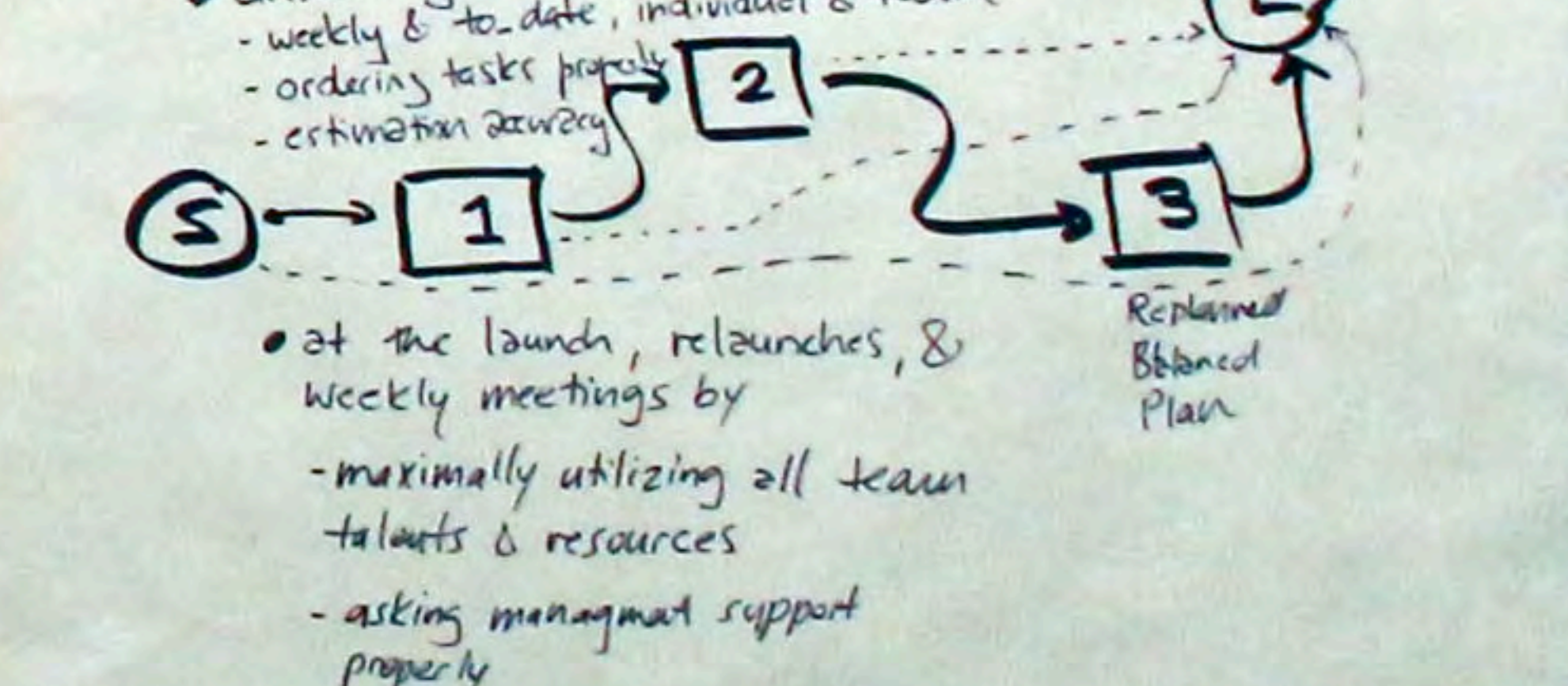
Needs for Agility



AGILITY IMPEDIMENTS



TSP Balanced Plan Gives Shortest Cycle Time



TSP as the Next Step for Scrum Teams

Noopur Davis & Darryl Davis - Davis Systems

SCRUM vs TSP
Build the right Product | Build the product Right

- Both support small multidisciplinary teams which produce software
- Both address planning, execution, & improvement via retrospectives

DIFFERENCES	SCRUM	TSP
- User Stories	- Product Owner Role	- Development Process
- Product retrospective via Sprint reviews		- Managed & Measured Quality

TSP answers questions of "WHY" - "Why am I ahead of schedule?"

Does done mean done? Let's compare what you've done to our definition of done then we'll know if it's done.

Teams using SCRUM have good practices to build the right product

