

Using TSP to Improve an Organization

Lana Cagle - NAVO

How do you improve an organization?
 - one person at a time
 - one team at a time

INSIGHTS

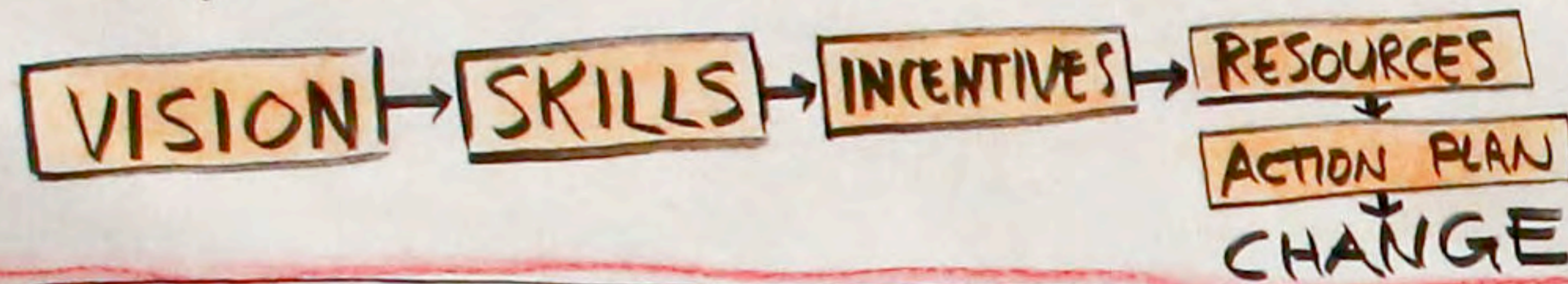
State of the Org. after TSP

- Branch alignment
- Common language
- PM autopilot enables focus on real issues
- Better leveraging of Lessons Learned
- Less reactive, more disciplined
- A continuous improvement culture

- Be realistic with the support that the current resources can provide
- Management sponsorship is critical to success
- Good coaches & strong team leaders are important
- Planning & Process Improvement are investments

What does TSP success look like?

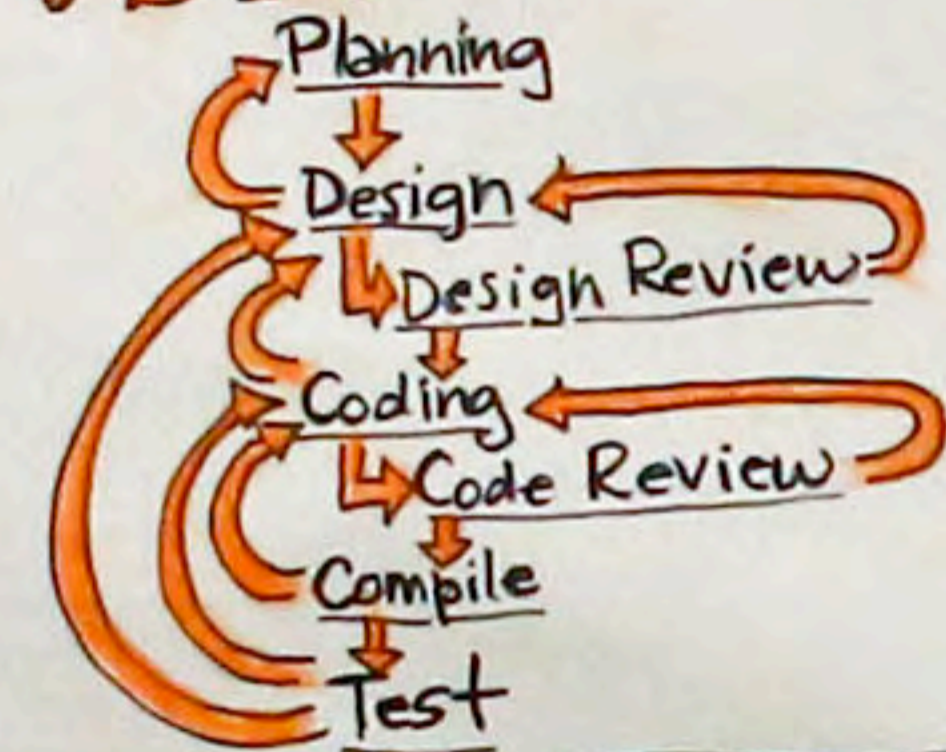
- process implementation
- predictability
- data collection & usage
- adoption



Combining a Formal Method & PSP for Improving Software Process:

An initial report
 Shigero Kusakabe - Kyushu University

VDM



PSP

Formal Method

- Personal Software Development skills to improve how we work
- PHASES - using scripts, forms, & templates
- DATA on performance, time, & quality

- Useful in reducing defects injected into software
- Most cost-effective approach
- Level 0 Develop a formal specification but program informally

CONCLUSION:

- used baseline data in improving the process
- spent more time designing, less time testing
- reduced the numbers of defects focused on without decreasing productivity
- PSP made making a process improvement plan with formal methods possible.

Taking the "Software" Out of TSP

Jason Huibregtse

Why Use TSP for the process group?

- Tested Framework
- Schedule & Task tracking
- Consistency
- Evangelize TSP by example

PROCESS GROUP

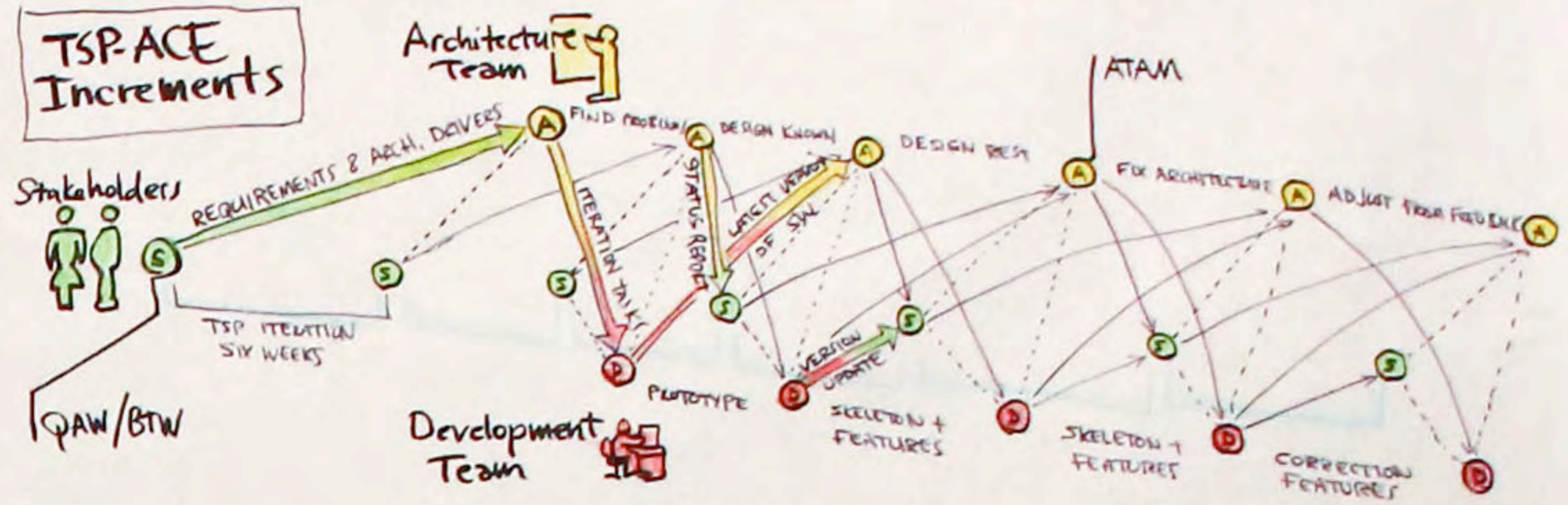
- Creates new processes
- updates processes
- provides training
- prepares & conducts process improvement events
- addresses weaknesses
- launch support
- coaching support
- role work

Training	Different for the software teams & process group
Processes	Some standard phases removed, some relevant phases added
Defect Types	more relevant defect types needed
Roles	Roles redefined a needed
Expectations	Set for schedule, budget & quality

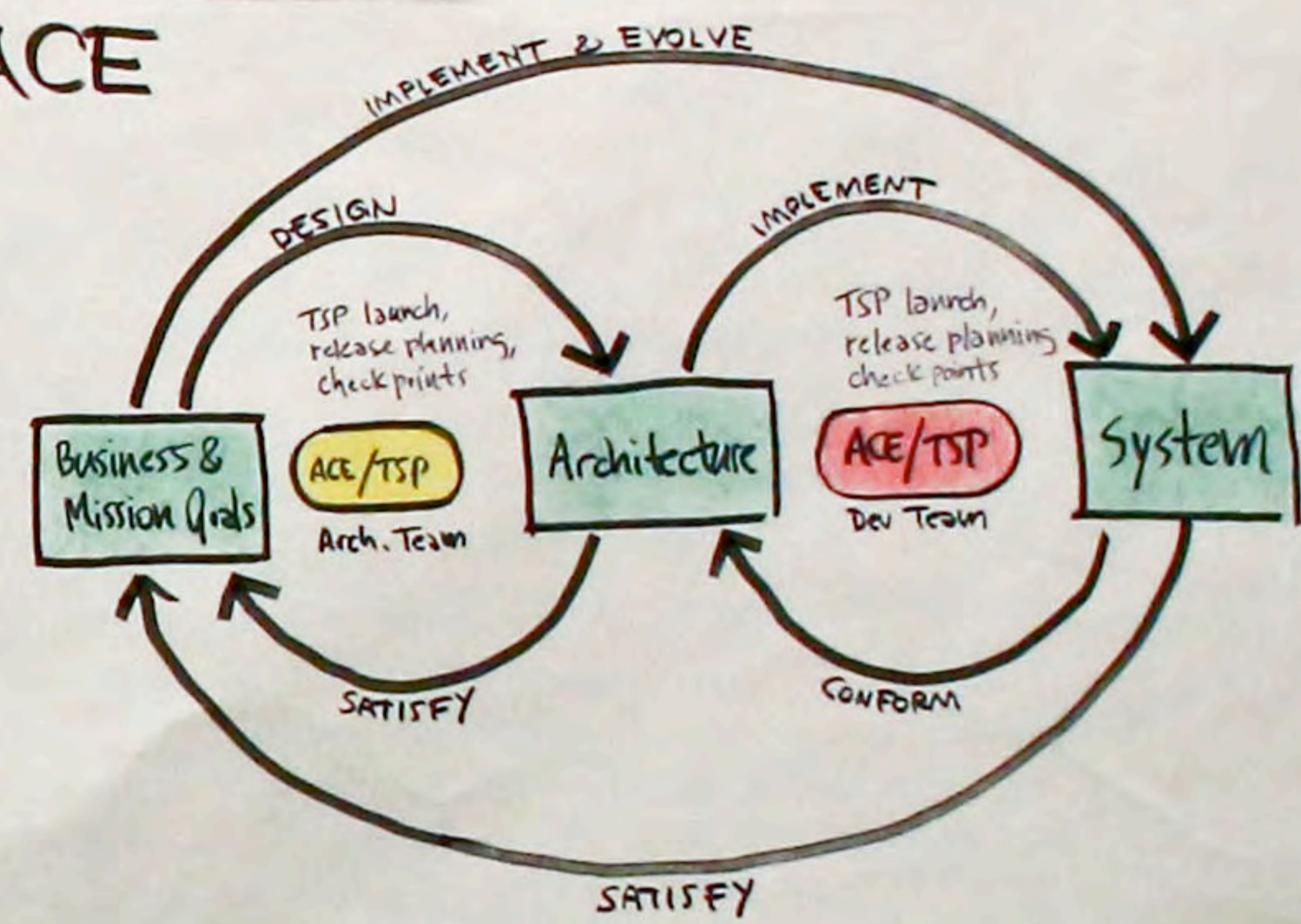
Nobody has a more sacred obligation to obey the law than those who make the law.
 Sophocles

CMMI, Security & Architecture: Using TSP with other Technologies

James McHale



TSP-ACE



PSP_{DC} - Verified Design by Contract

Diego Vallespic - University of Uruguay

PSP_{DC} - adding up the advantages of PSP & Formal Methods

Design by Contract - uses formal notation for specifying classes.
 Verified Dbc must prove the implementations satisfy the specifications

