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Ni Sun



@NisunSun

- Sunny Sun is one of the most experienced coaches and consultants in the Agile enterprise transformation space in China.
- She successfully led Agile transformation and Scrum/Kanban adoptions for her clients' companies, including the industries of telecommunications, internet, finance, education, production, machinery, etc.
 - Coached 200+ Agile teams & 300+ Scrum Masters;
 - Helped 100+ organizational top leaders to build Agile leadership;
 - Impacted 2500+ people.





BOSCH



















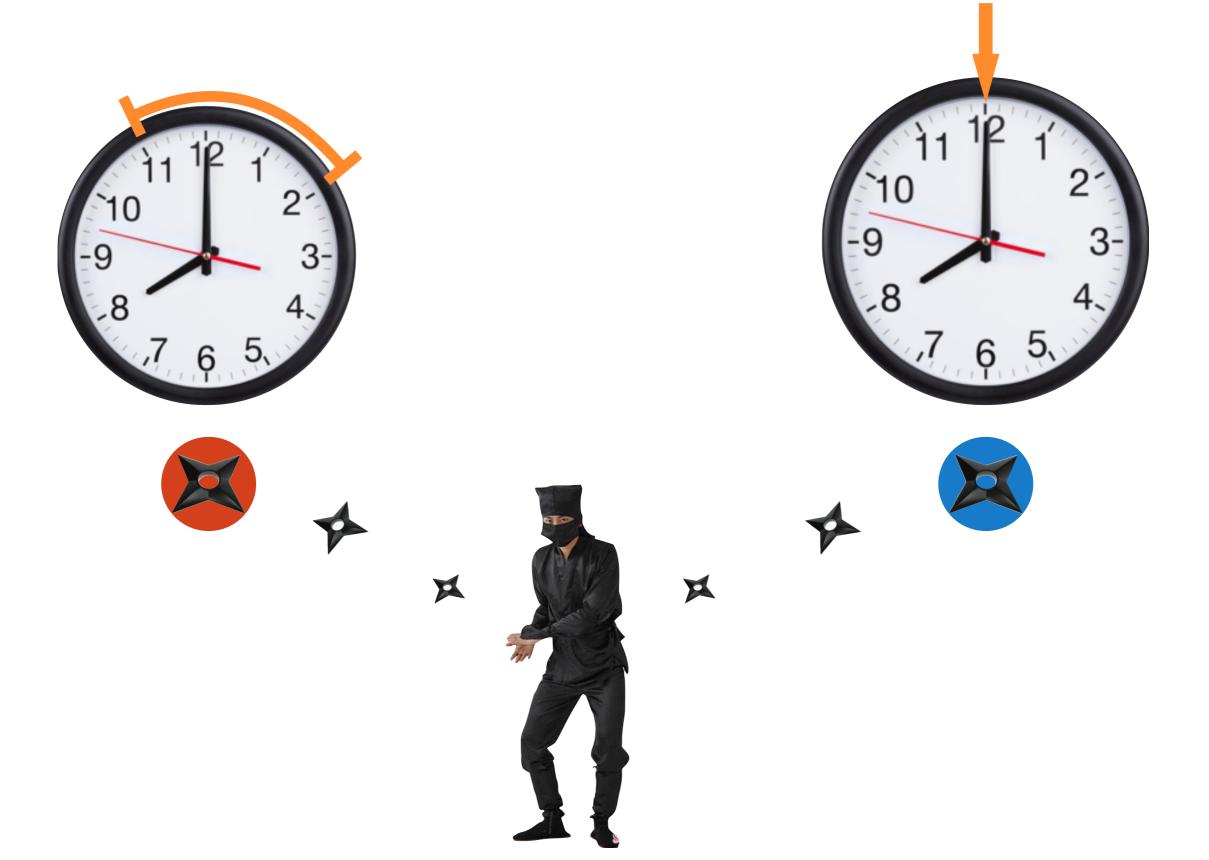




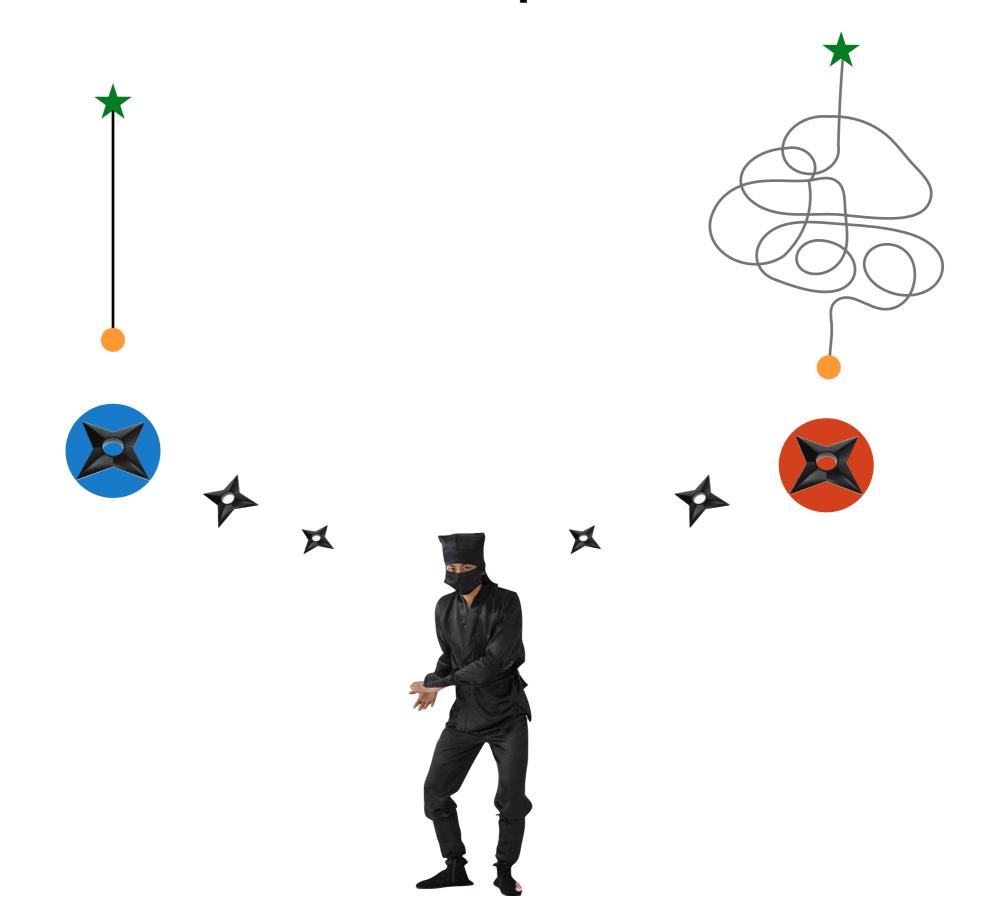
Game Time!

Chinese Culture Rest of the World × ×

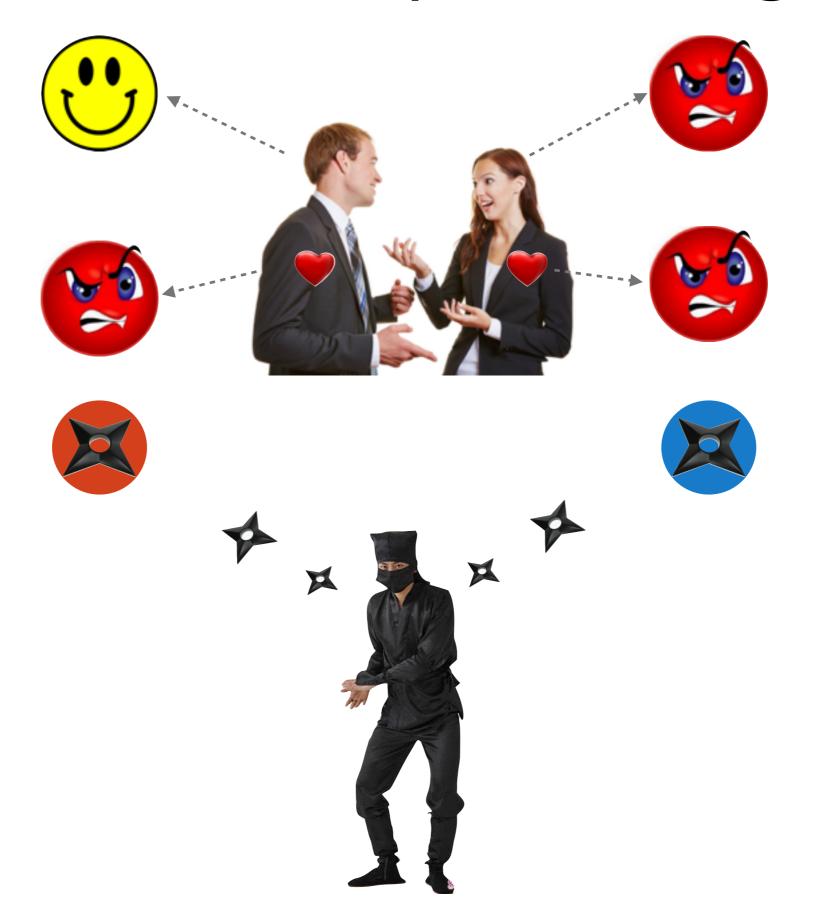
Be Punctual for Meeting



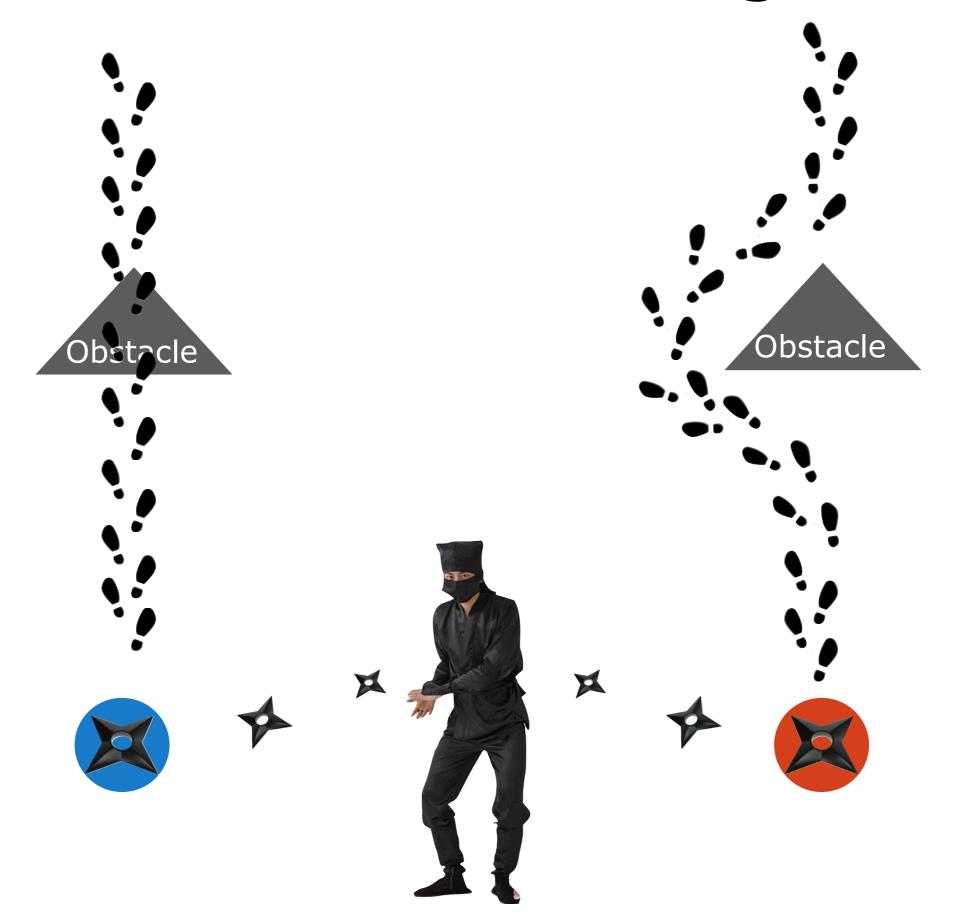
State Opinion



When People Talking



Problem Solving





CONTENT

BACKGROUND

JOURNEY

STRATEGY AND TACTICS

ALIGNMENT

SETUP

PILOT

REORGANIZATION

ROLLOUT

RESULT

SUMMARY

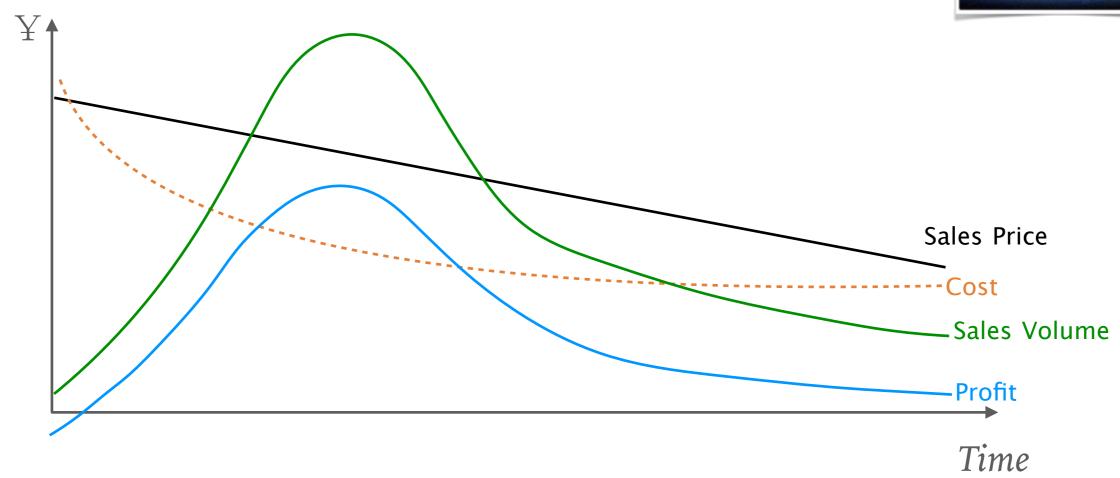




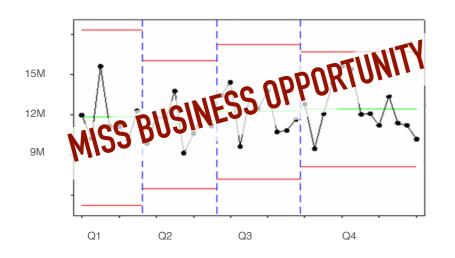
Organization and Products

- 500+ people.
- 5 major products; each product has billions RMB sales volume.
- Complex product: 10-million Lines of Code, Application+Platform,
 Software+Hardware.
- Flagship product profit ramping down.

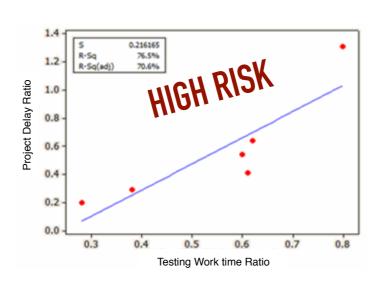




Pain Points of Giant Dragon



Very long Lead Time



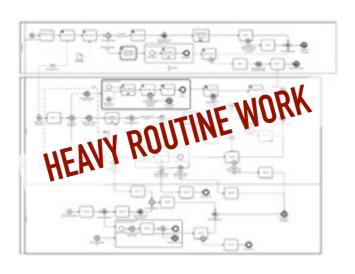
Projects delay



Long defects convergence time



Too many customization
Too many versions

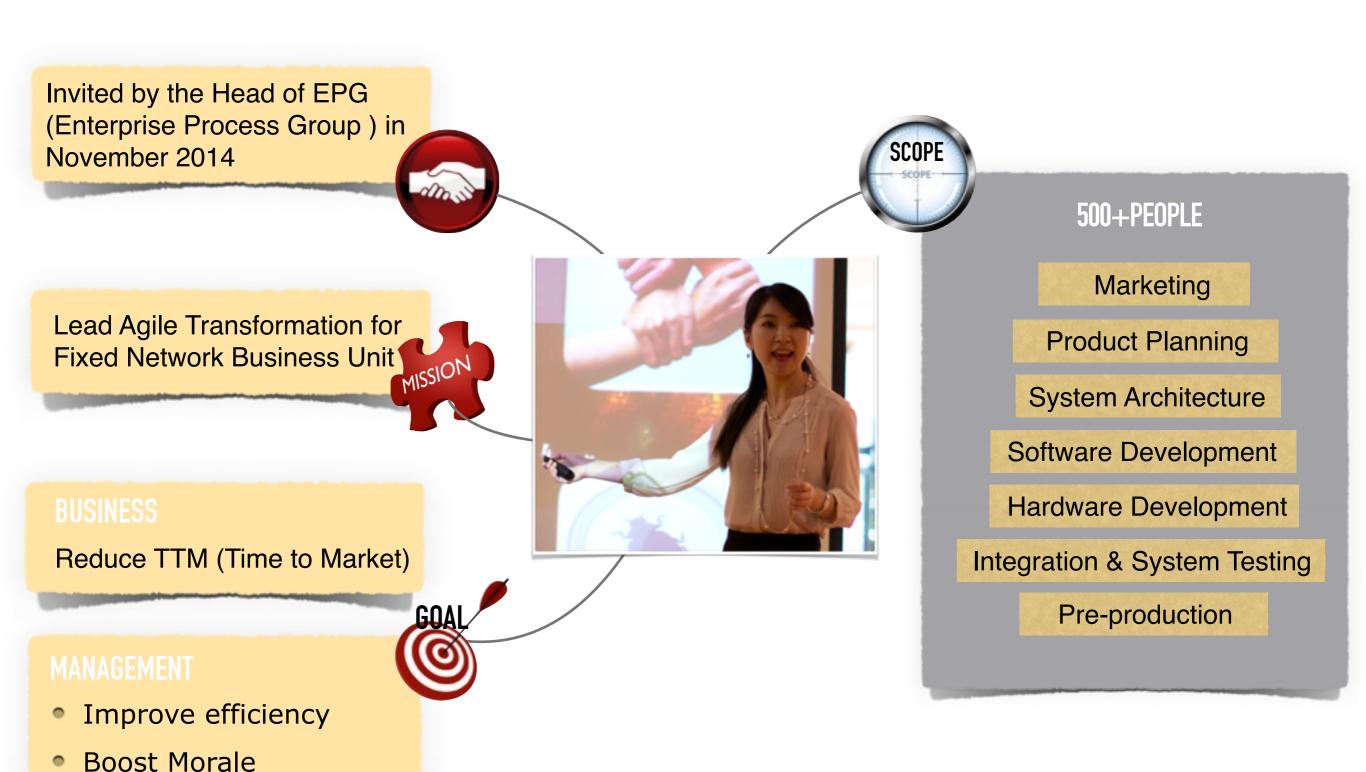


Heavy Process



Bureaucracy

External Enterprise Agile Coach



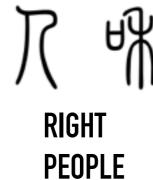


STRATEGY AND TACTICS

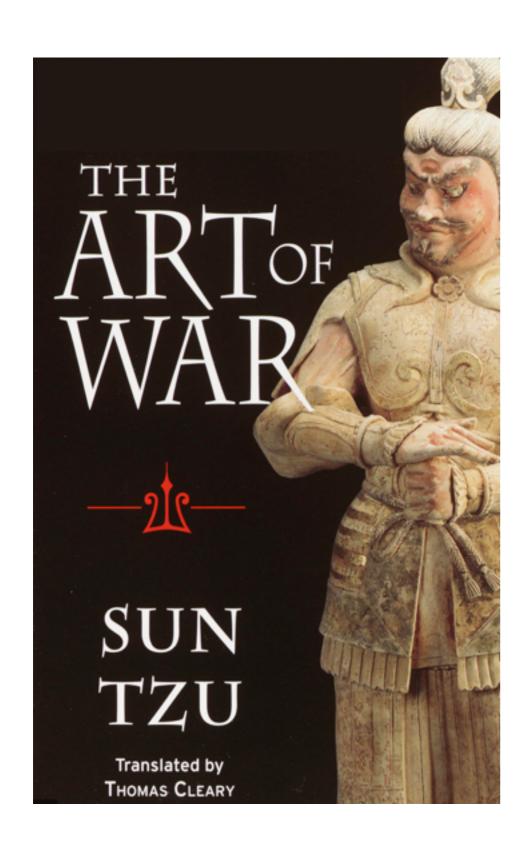








Enterprise Agile Coach's Mindset



PRE-EMPTIVE

"The victorious strategist only seeks battle after the victory has been won, whereas he who is destined to defeat first fights and afterwards looks for victory."

— By Sun Tzu. "The Art of War"

Chinese Big Boss

They are ...



Micro Monitoring



Demanding



FISI (Face Is Super Important)



AATT (Anxious All The Time)



Result Orientation

But, they also are ...



Hardworking



Passionate



Love Work



Responsible and Accountable

Alignment

- Understand the current situation and history
- 1-on-1 in-depth walking discussions
- Identify key stakeholders
- Extract common interests and expectations





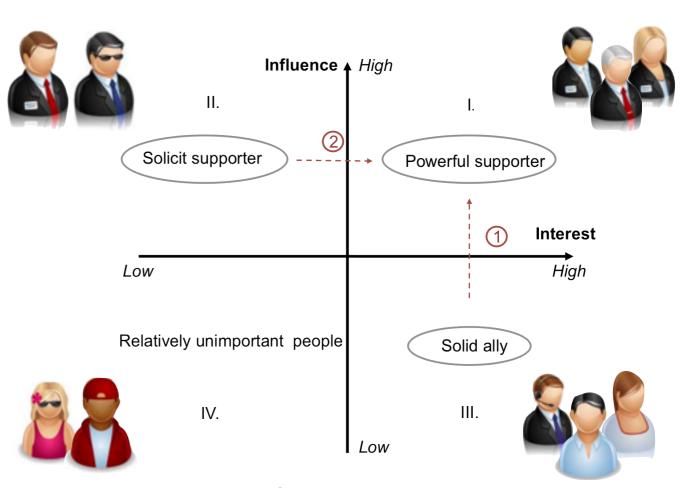
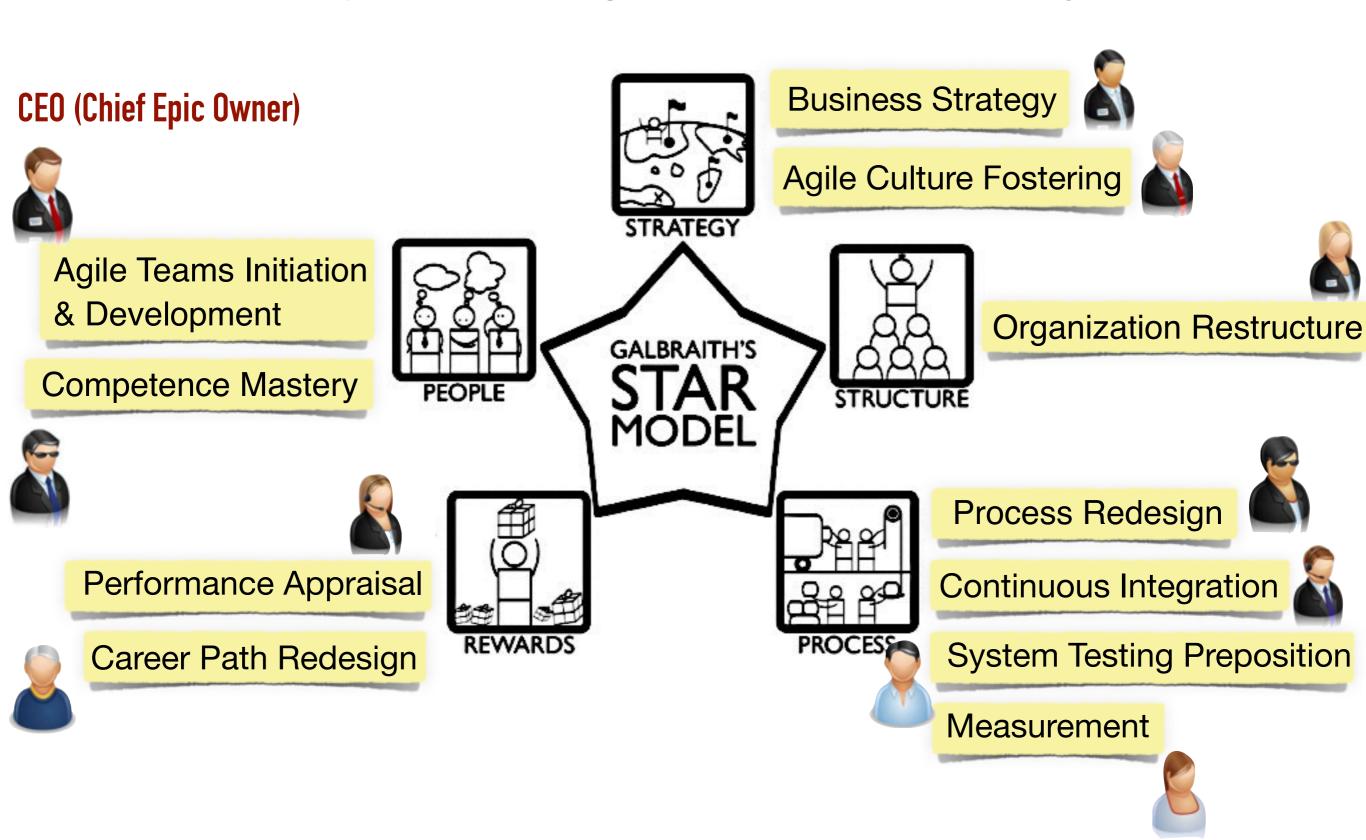


Fig 1. Influence-Interest diagram

Tactic - Systematical Transformation

11 Epics as the Agile Transformation Projects



ETC(Enterprise Transformation Committee) Kickoff



Use Scrum to Organize ETC









Agile Transformation Phases



SETUP



Leadership Kickoff meeting







Scrum Master and Product Owner Training



PILOT



Self-designed Feature Teams

THREE ROUNDS

1st: Initial constrained rules

2nd: Refinements

• 3rd: Find bugs

TEAM RESUME

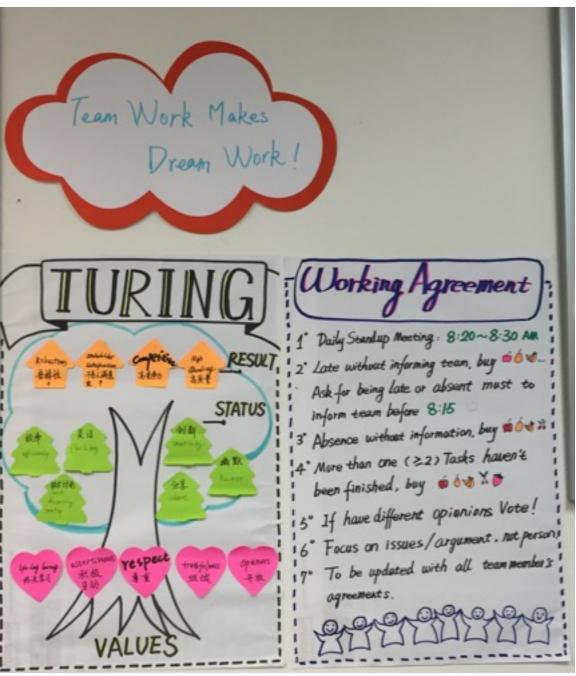
- Team members
- Experiences
- Skills



Team Vision and Culture Building Workshop

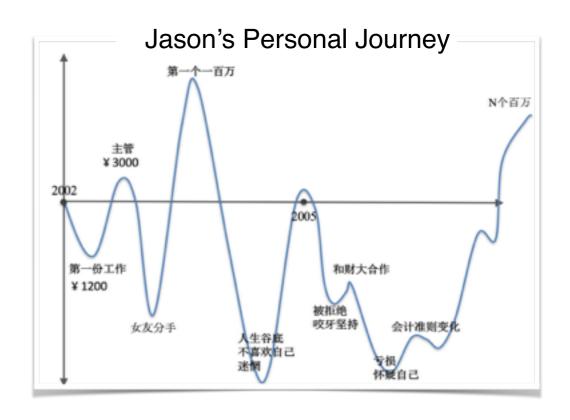






Team Development







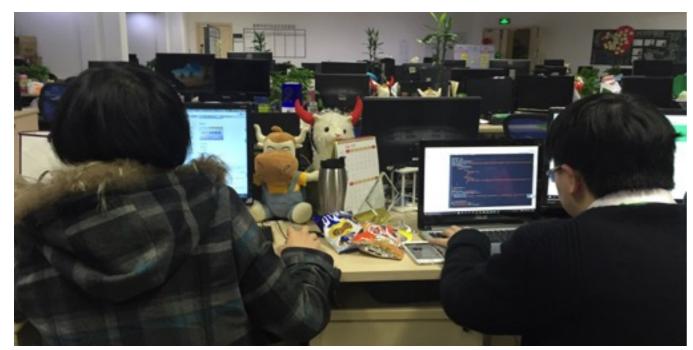


Competence Development

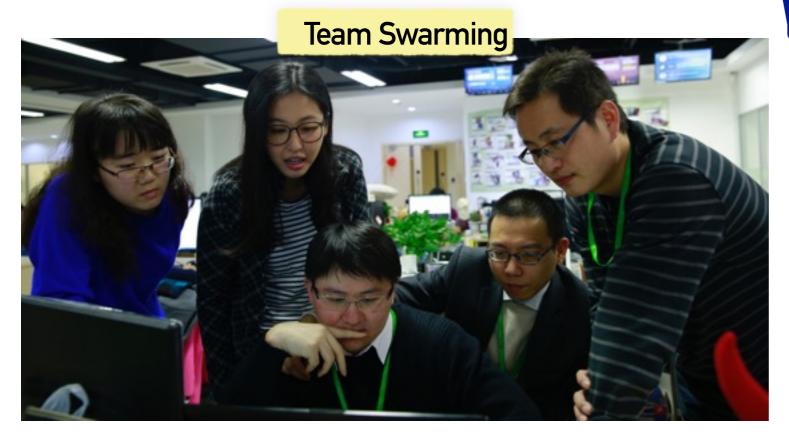
Pair-programming

Team Technique Skill Map

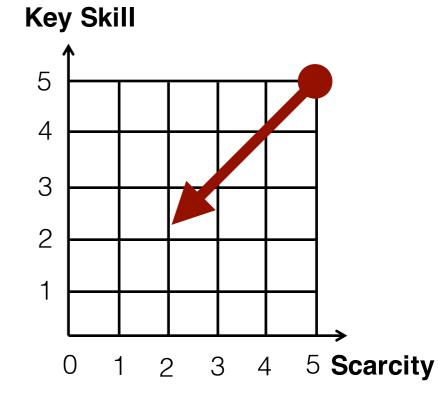
Team Member



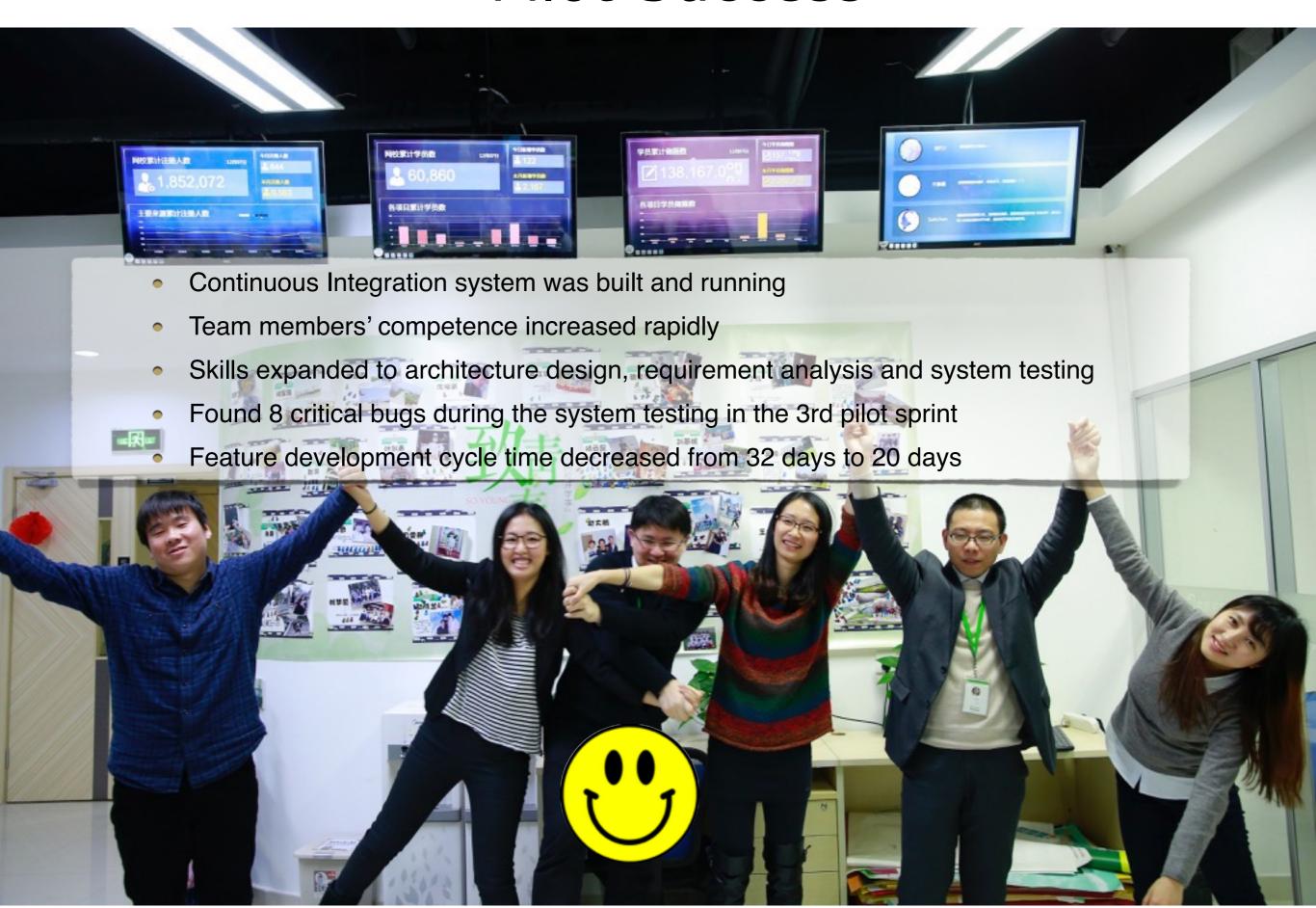
姓名 技术点	ß±хх	陈XX	БГХХ	狄xx	徐XX	谢xx	张xx	张xx	郭XX	曹XX	张xx	何XX
QOS	0	8	0	0	2	2	0	7	1	3	0	0
ACL	0	0	7	0	3	2	0	6	9	10	0	0
性能统计	9	6	7	0	1	0	0	0	0	3	0	0
环回检测	0	0	4	0	0	0	0	7	10	10	0	0
端口镜像	0	3	4	0	1	2	0	7	8	10	0	0
ATM PING	0	0	7	0	0	2	0	7	9	10	0	0
EFM	7	0	0	0	1	0	0	6	0	10	0	0
UAPS	9	0	0	0	1	2	0	0	7	2	0	0
MPLS	0	0	0	0	7	0	0	0	0	0	0	0
DHCP SNOOPING	0	0	2	5	9	9	8	0	0	1	0	0
DHCP√6 SNOOPING	0	0	2	5	9	9	8	0	0	1	0	0
IP SOURCE GUARD	0	0	2	0	9	9	8	0	0	1	0	0
ND SNOOPING	0	0	0	6	9	9	8	0	0	1	0	0
DHCP RELAY	5	0	0	0	9	2	7	0	0	1	0	0
DHCPv6 RELAY	5	0	0	0	9	2	7	0	0	1	0	0
DHCP SERVER	5	0	0	0	9	2	6	0	0	1	0	0
DHCP CLIENT	5	0	0	0	9	2	6	0	0	1	0	0
测试	8	5	5	0	3	5	0	0	6	6	8	0
SSP	0	0	0	0	0	0	0	0	0	1	0	7



Skills



Pilot Success



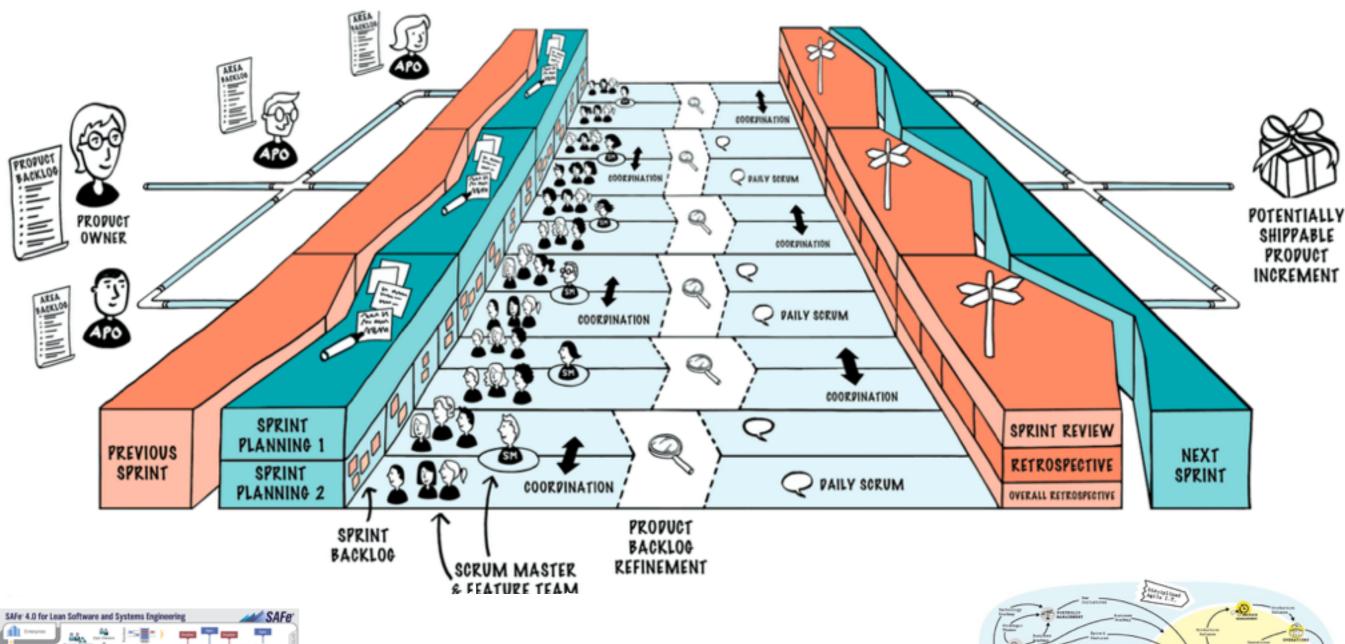
REORGANIZATION



LeSS Huge

(LARGE SCALE SCRUM HUGE)

https://less.works

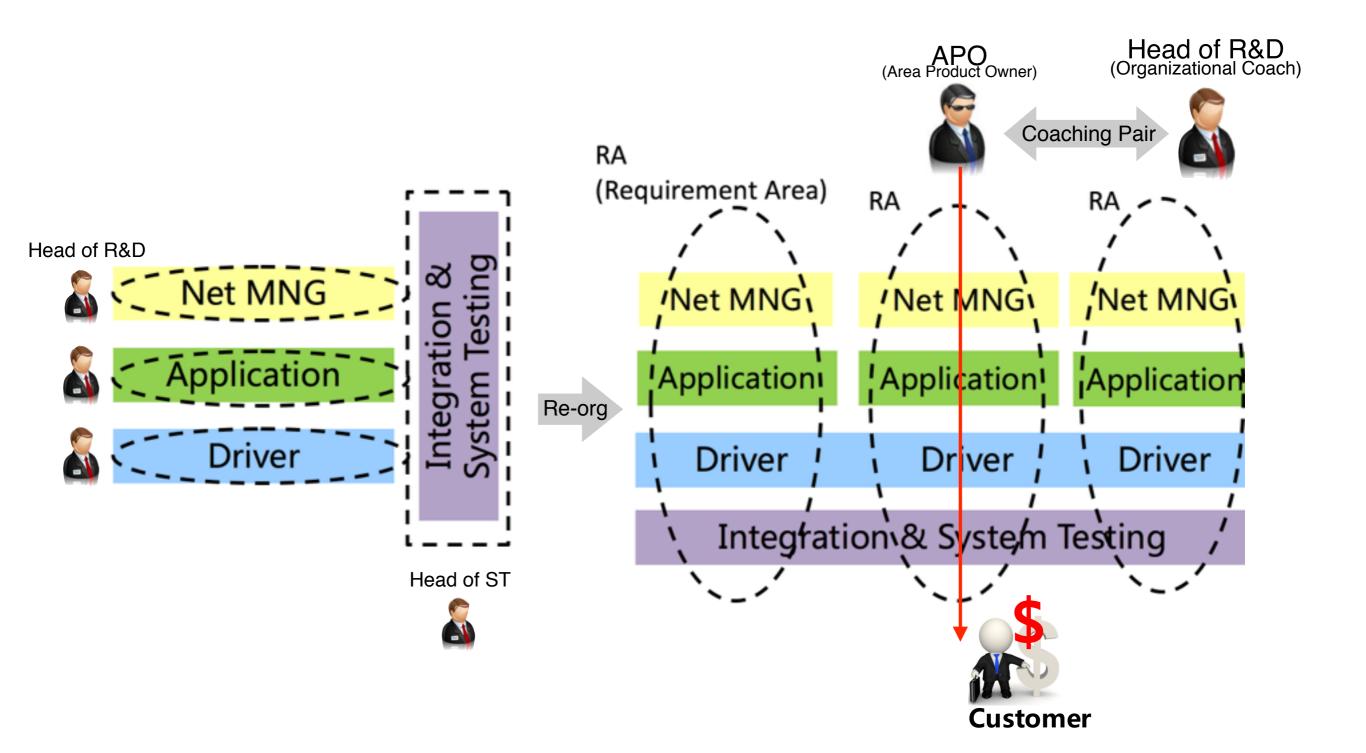




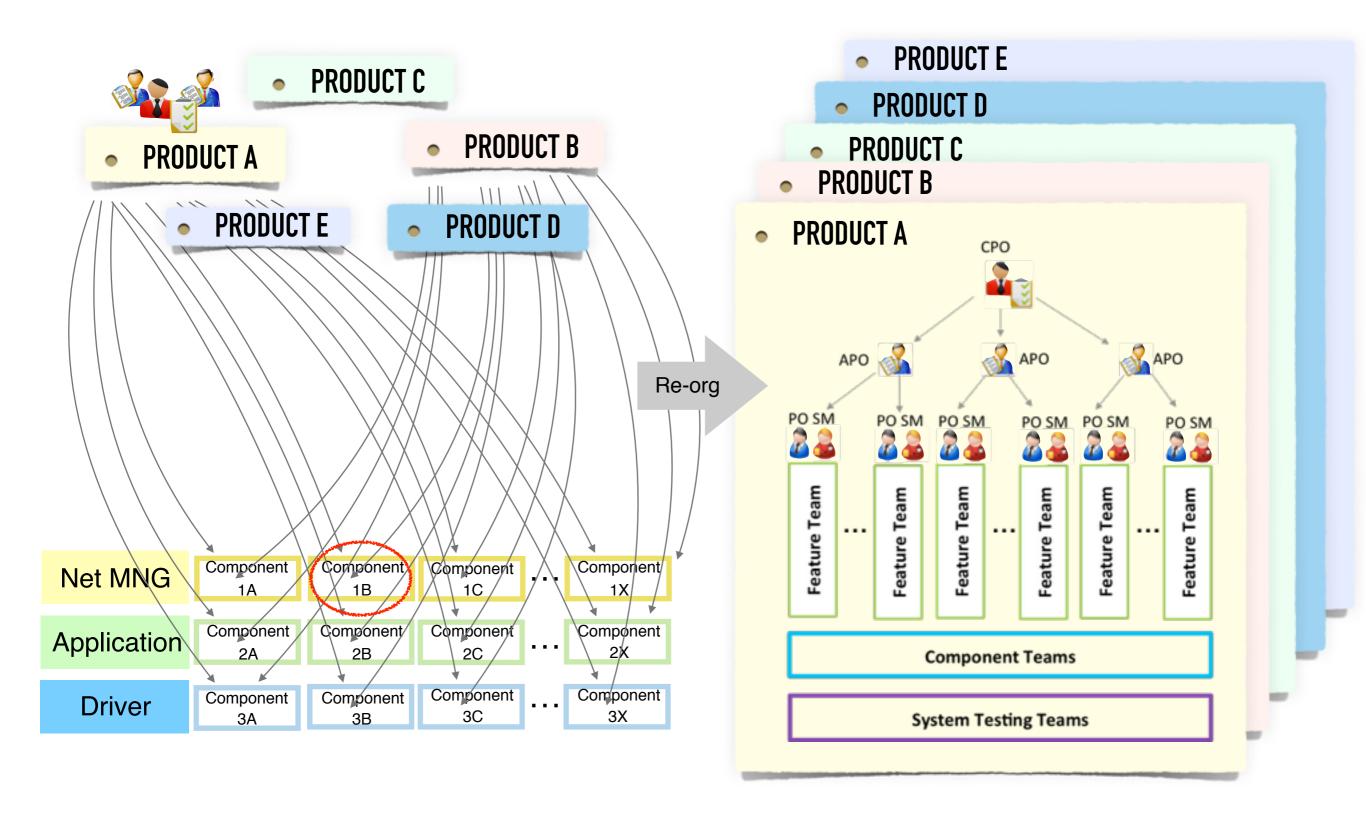
Flip over the Organization

Protocol-layered based delivery

Customer-oriented Feature based delivery



Component Based Team to Feature Based Team



Roles and Artifacts

Roles' Responsibility Definition



1 Product Backlog for 1 Product



TFS (Team Foundation Server) Training



Hardware Agility Challenges

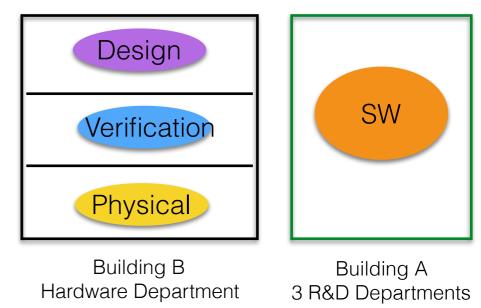
1. Background:

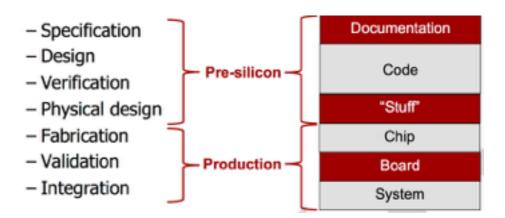
Hardware department (50 people):

- Functional teams act independently. Design and verification don't normally share goals.
- Common software is out of the hardware scope (out of the loop).
- SoC (System on Chip): ASIC/FPGA+Embedded processor + Software

2. The big challenges we face:

- Hardware Long development cycle > 1.5 year.
- Long correction time for hardware defect.
- SW and HW more and more far away from each other.

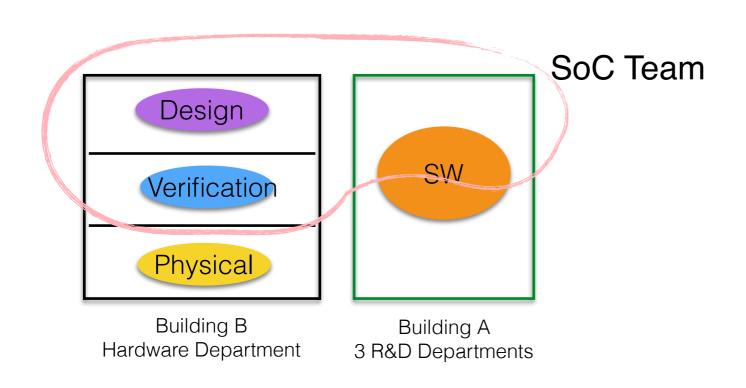


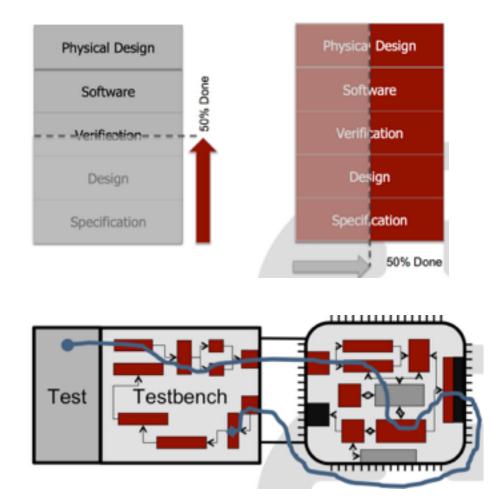


Hardware Agility Solution

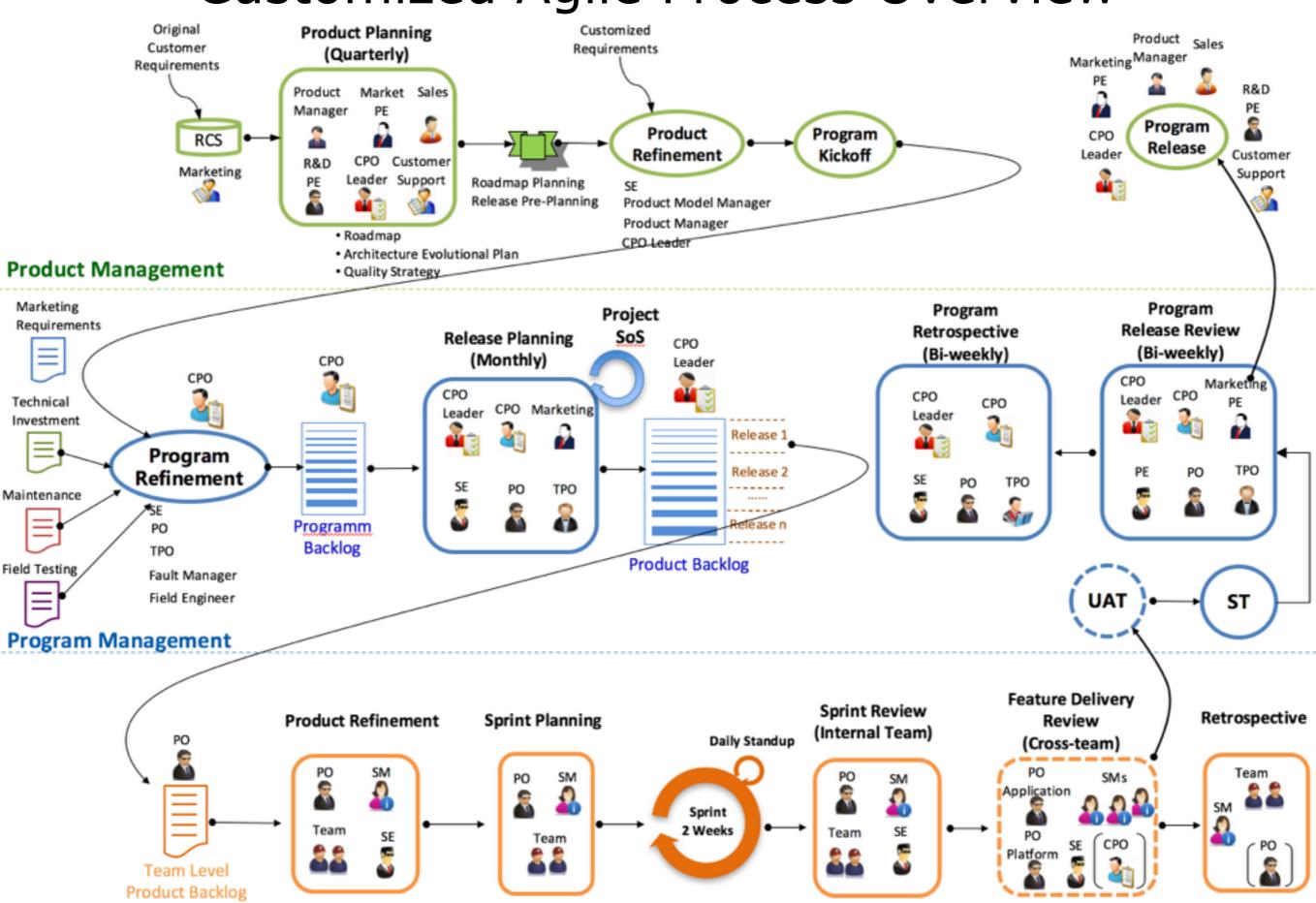
Solution:

- Create shared Product vision and goal in HW and SW departments.
- ONE product backlog.
- Create SoC Team (Design+Verification+SW)
- Adopt Scrumban in SoC Team
- Change traditional waterfall to Agile Iteration
- Learn before Development: Operation Basic Sanity:





Customized Agile Process Overview



Team

Set Backs











Command and Control Vs. Servant Leadership

ROLLOUT



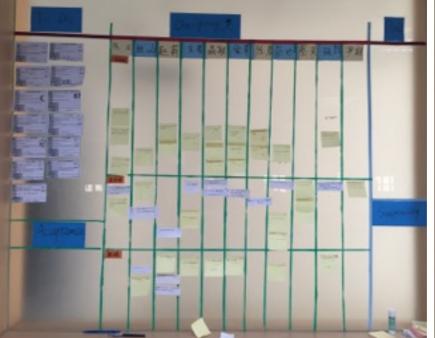
All Hands Meeting for Agile Transformation Rollout



Adopt Scrum/Kanban/Scrumban to 42 Agile Teams

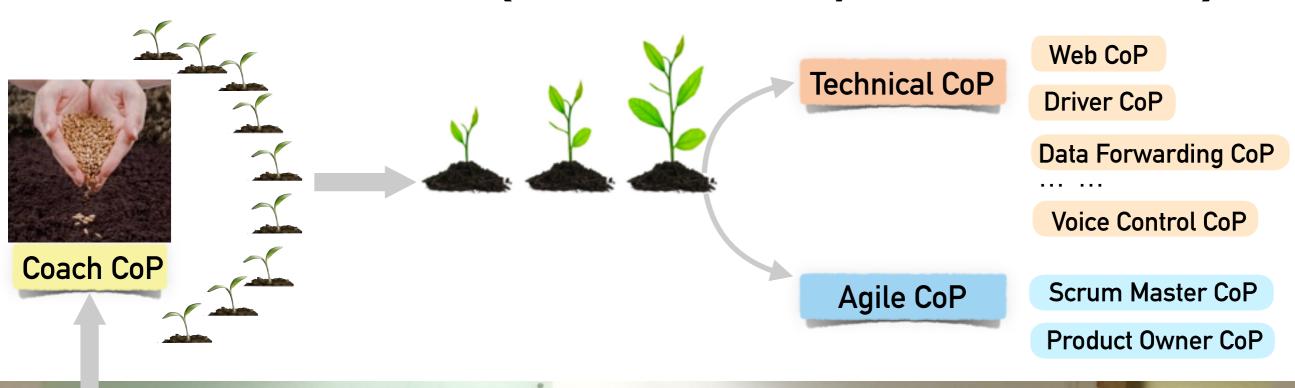






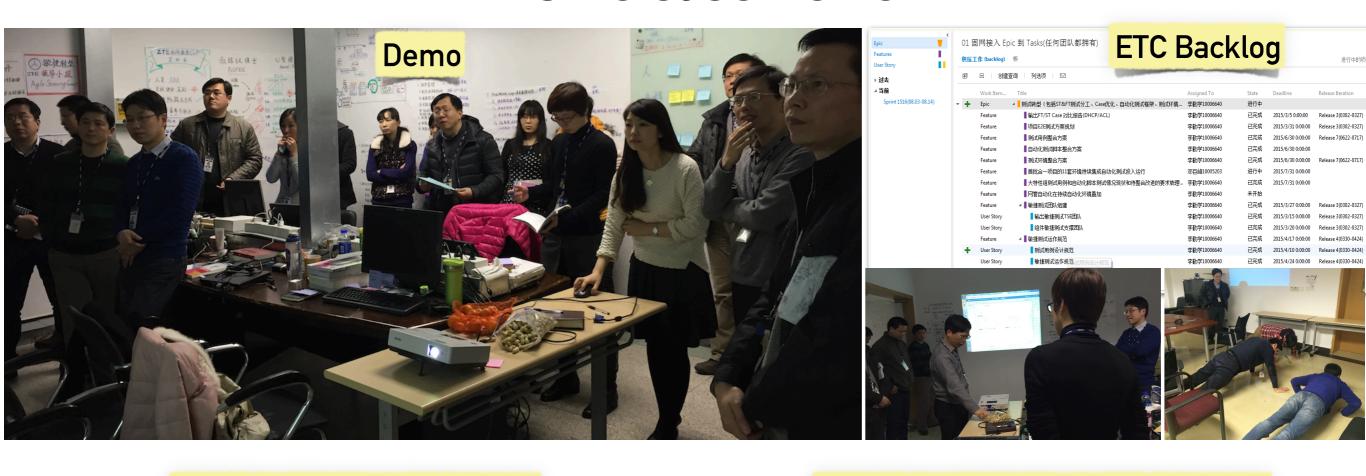


Coach CoP (Community of Practice)





ETC Release Review



ETC Progress light board



Agile Transformation Roadmap





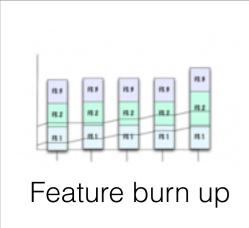
Agile Metrics

Velocity

Value

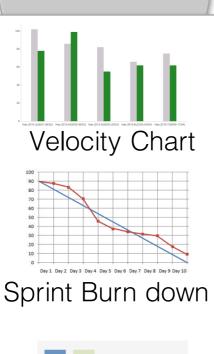
Quality

Productivity

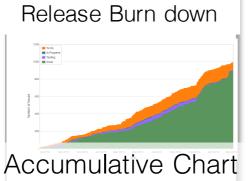




Delivery Capability



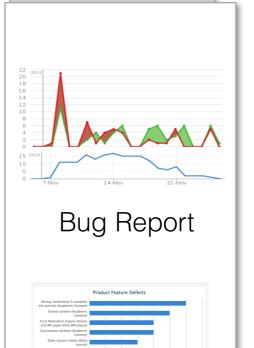




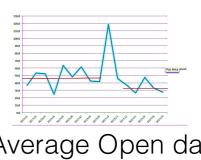




Customer Satisfaction

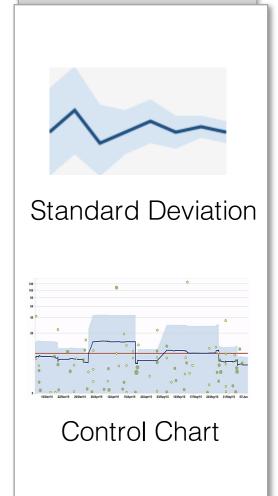


#Defect of Features



Average Open days

Predictability

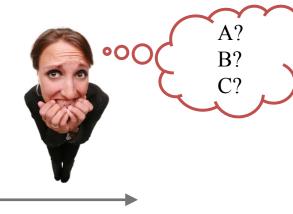


The Principle of Agile Metrics









Informational

Motivational

Result



Customer Satisfaction



- Overall quality
- Perceived reliability
- Extent of customer's needs fulfilled



CALENDAR

CALENDAR

18 19 20 21 22 23 24 25 26 27 28 29 30 31 R&D development efficiency

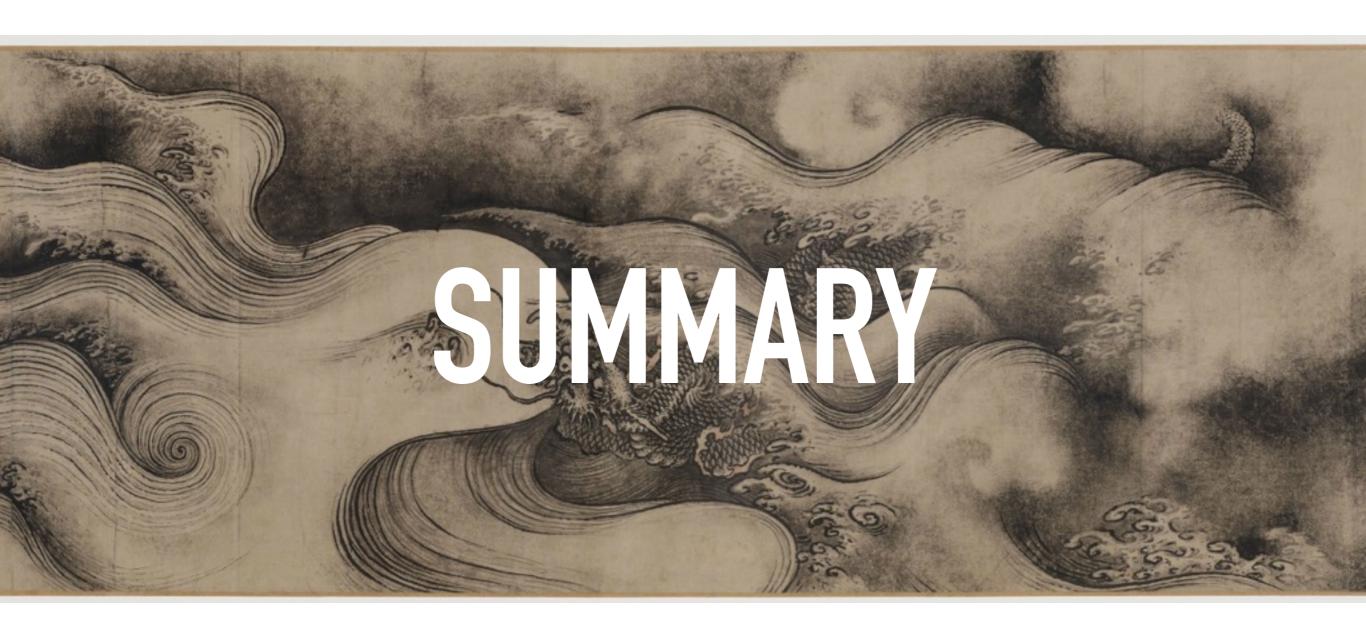


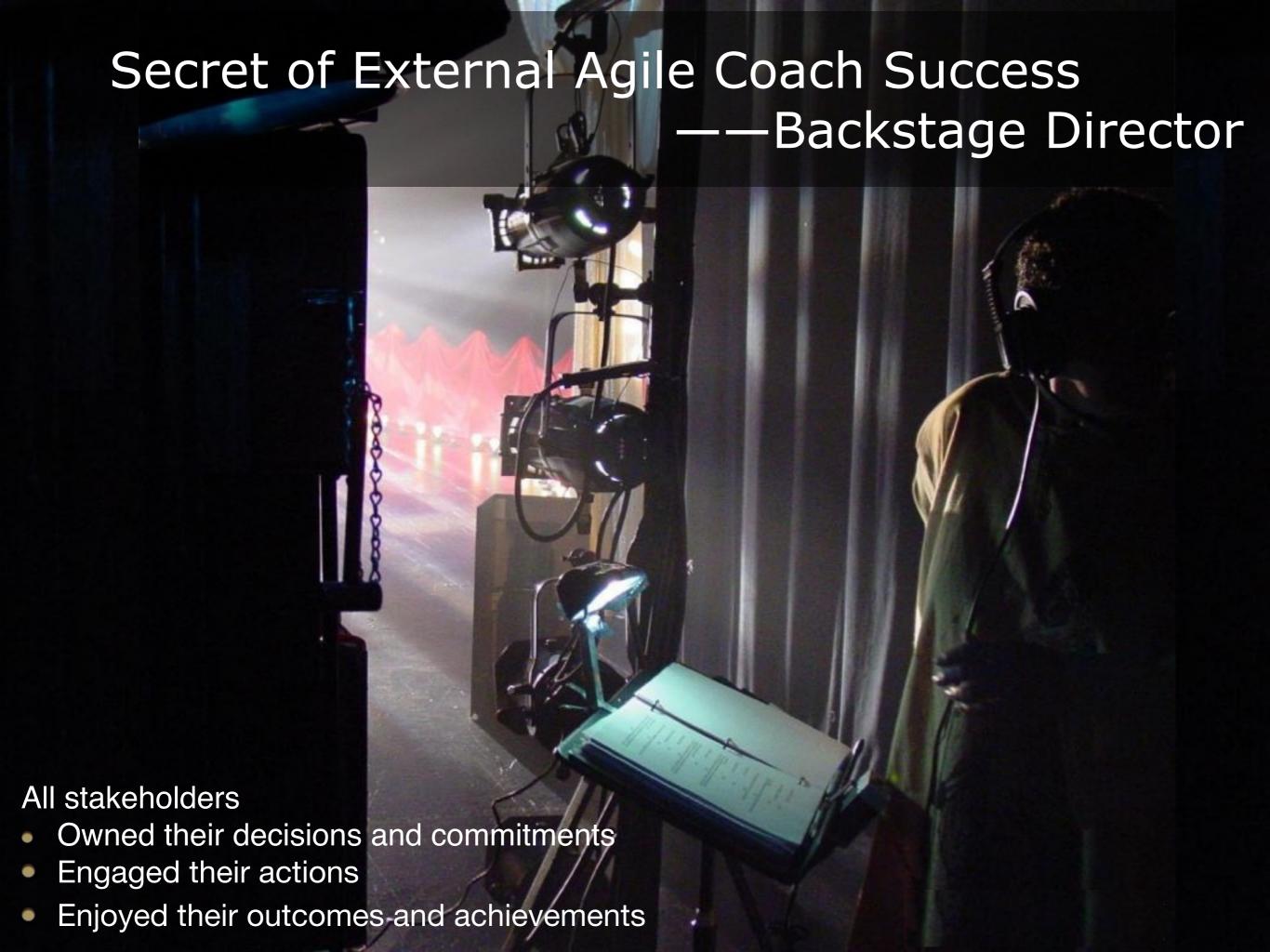
50 Developers Started Next Generation Product



Agile Culture and Environment







Celebration for Every Short Win —— Ritual Matters









Biggest Pitfall of Management Team — Wrongly Use Metrics



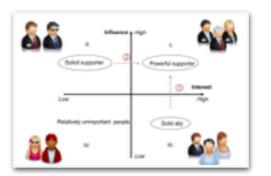
CONTINUOUS IMPROVEMENT OVER PERFORMANCE EVALUATION



Agile Leadership Compass



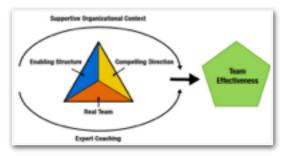
Agile Coach Competency Framework



Influence - Interests Diagram



Video:Interlocking Roles in Agile



Coaching Strategy





Speed Leas - Conflict Model



High Performance Tree



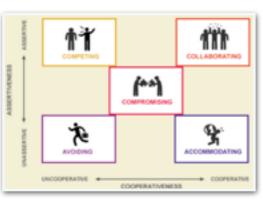
Agile Coach Journey



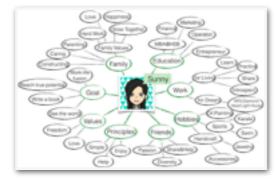
Graphic Facilitation



EQ Improvement



Conflict Solving (TKI)



Personal Map



Sunny Sun

Senior Agile Coach and Consultant GenthyWorld Consulting Group













Hardware Agility in Large Agile Transformation

1. Background:

Hardware department (50 people):

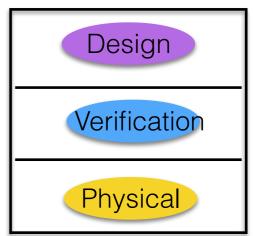
- Functional teams act independently. Design and verification don't normally share goals.
- Common software is out of the hardware scope (out of the loop).
- SoC (System on Chip): ASIC/FPGA+Embedded processor + Software

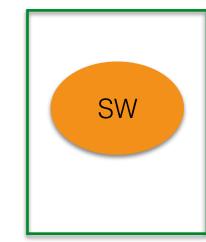
2. The big challenges we face:

- Hardware Long development cycle > 1.5 year.
- Long correction time for hardware defect.
- Because of the large cost of the SW&HW integration, SW R&D don't want to upgrade the new developed chip(new generation chip), even though by knowing how huge investment it was. That results SW and Hw more and more far away from each other.

3. The Solutions for Hardware agility:

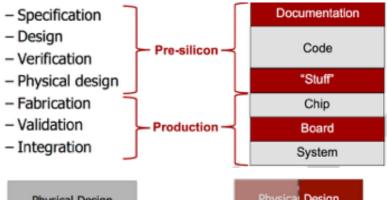
- Create shared Product vision and goal in HW and SW departments. Abolish separated KPIs.
- Include HW development contents into TFS (Team Foundation Server); HW shares ONE Product Backlog with SW R&D departments.
- Create SoC Team (Design+Verification+SW): Move HW teams to seat with SW Drivers and OS team, in order to: a. Verify the new developed functionality together; b. Investigation defects together;
- Adopt Scrumban in SoC Team: Use Kanban to visualize the work, manage the flow and limit WIP; Launch the Scrum ceremonies of Planning, Daily Standup and Review. 2 Weeks of Sprint, monthly Retrospective.
- Change traditional waterfall: (Specification->Design->Verification->Software->Physical Design)
 to Agile Iteration: slice of (Specification+Design+Verification +SW+Physical Design)
 // See picture of right
 down corner.
- Learn before Development: Operation Basic Sanity:
 - Start with a finished product
 - Identify the sanity path
 - Remove everything that don't need
 - Plan how to build what's the left

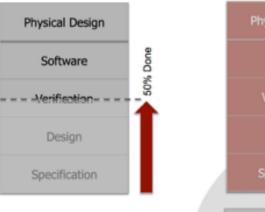


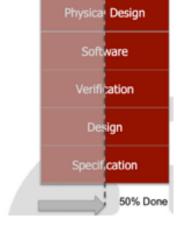


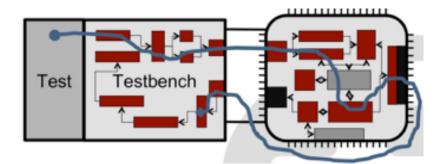
Building B Hardware Department

Building A 3 R&D Departments









敏捷度量

Productivity 生产力



特性燃起图

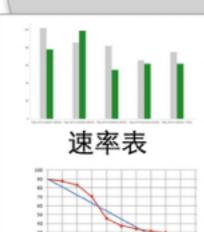




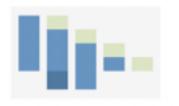


交付能力

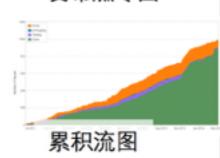
Velocity 速度







发布燃尽图



Value 价值

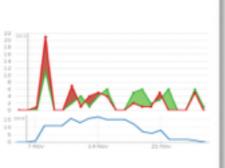


ROI投资回报比



用户满意度

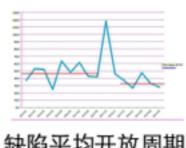
Quality



Bug量

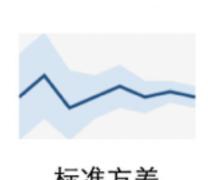


#缺陷数/特性



缺陷平均开放周期

Predictability 可预测性



标准方差



前置时间/控制图

Enterprise Agile Coach's True North —— Open Your Truly Heart!



TRUE HEART that makes the people better and the organization better