@yuvalyerex

Scaling Kanbana nroduct Using Kanban to create and manage product development flow at the program/portfolio level

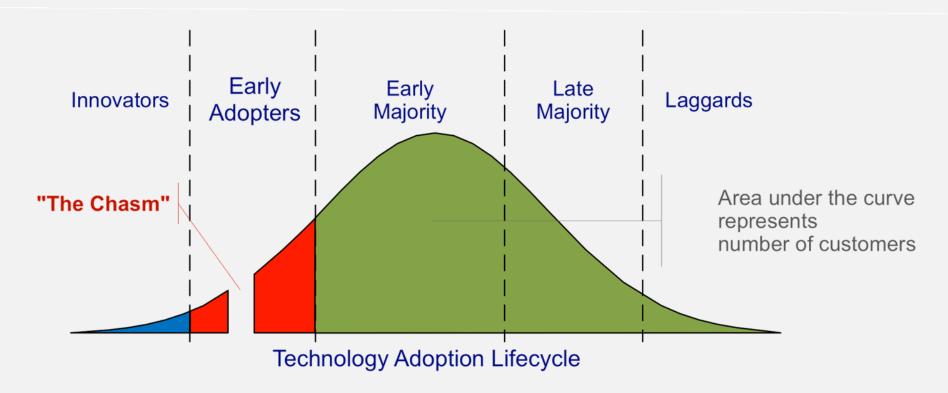
Kanban Lead - AgileSparks



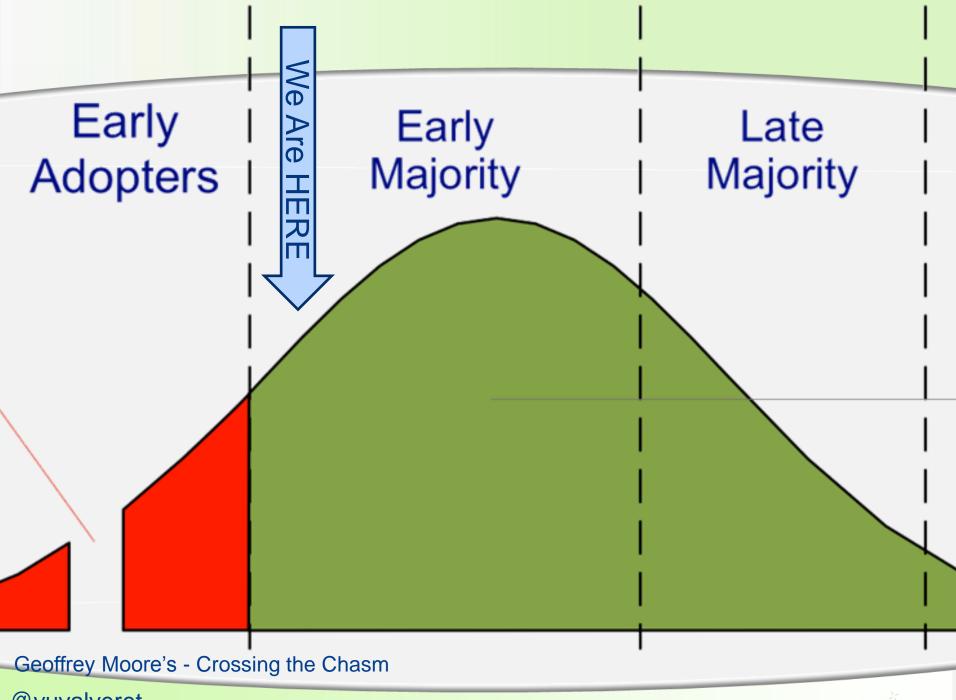


## A: Scaling+Kanban

What is the Question?



Geoffrey Moore's - Crossing the Chasm



@yuvalyeret

## **Early Majority Pragmatic Enterprises**

Risk **Allergic Expect** Whole **Averse** To **Solutions** Dogma

Complex **Environments** 

Lots of Legacy/Debt

# need to...

So Lean/Agile approaches as of 2011 Help Be Develop a **Answer issues of** Scale and Legacy complete contextmanage **Specific** Risk picture Without requiring Not be day 0 Overhauls huge Risks

themselves @yuvalyeret

### Some enterprise challenges we encounter

"Doing agile at the team level is fine. But how do we deal with the things we cannot get into the team?"

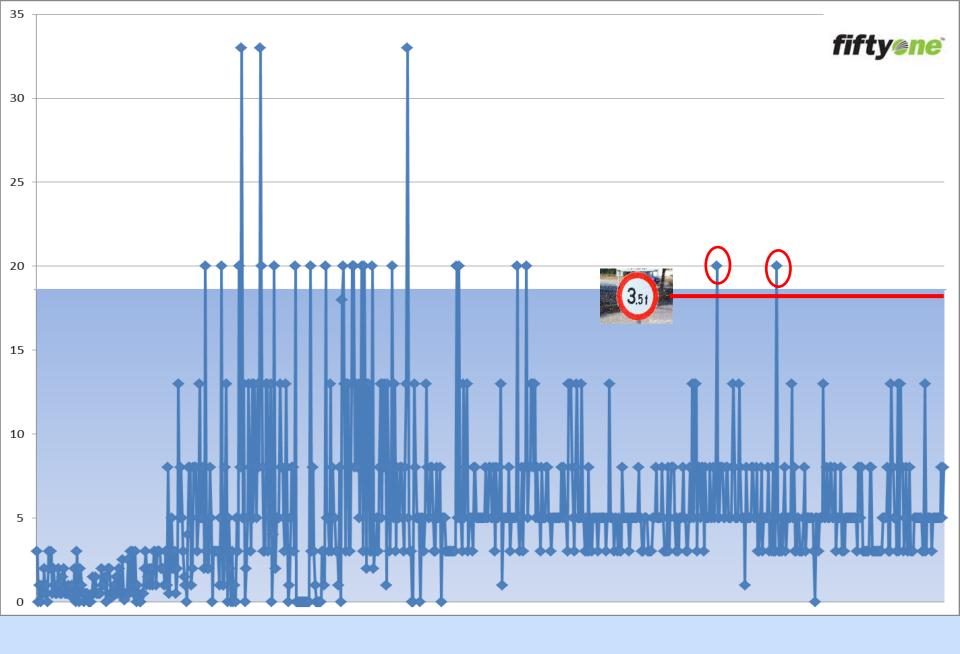
## How do we benefit from Lean/Agile principles At Scale?



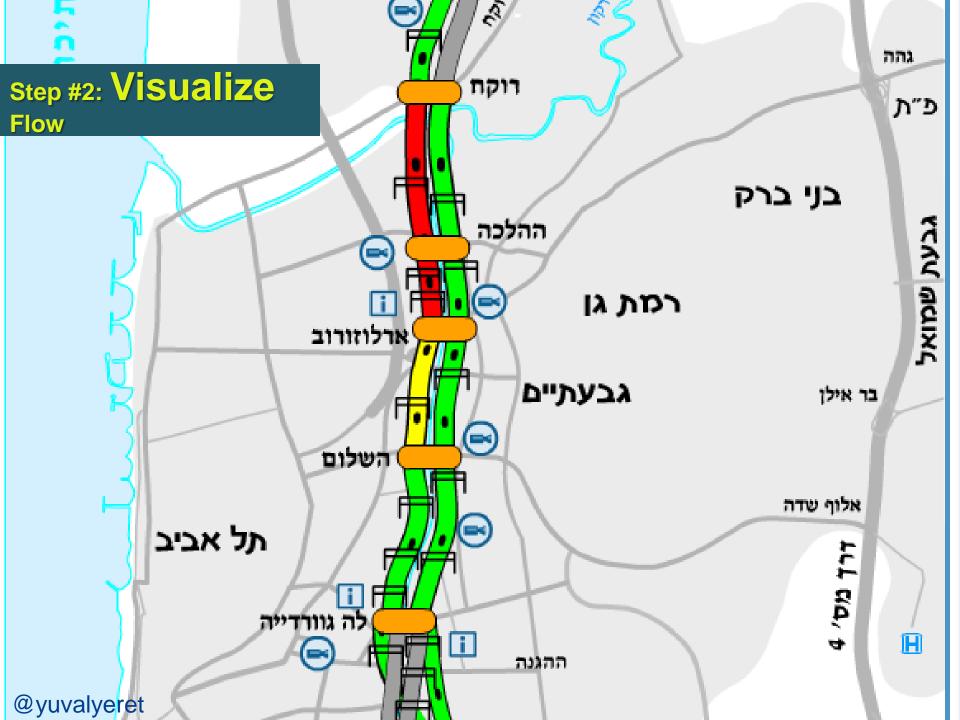
Step #1: identify and work with minimally valuable features

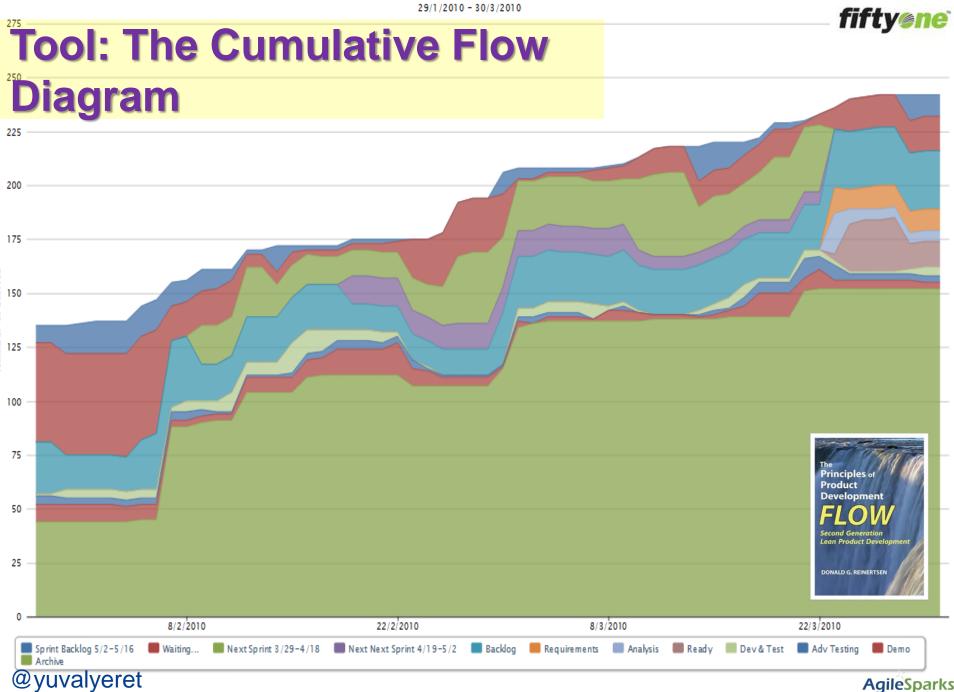


Limit the size of work - at all levels



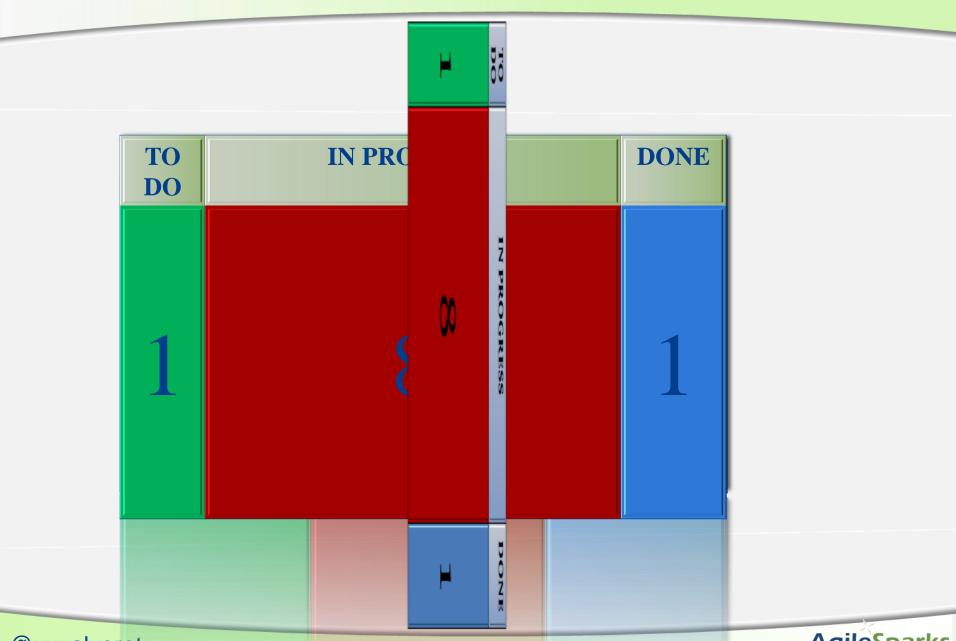
Visibility – Monitor and control the size of work





**AgileSparks** 

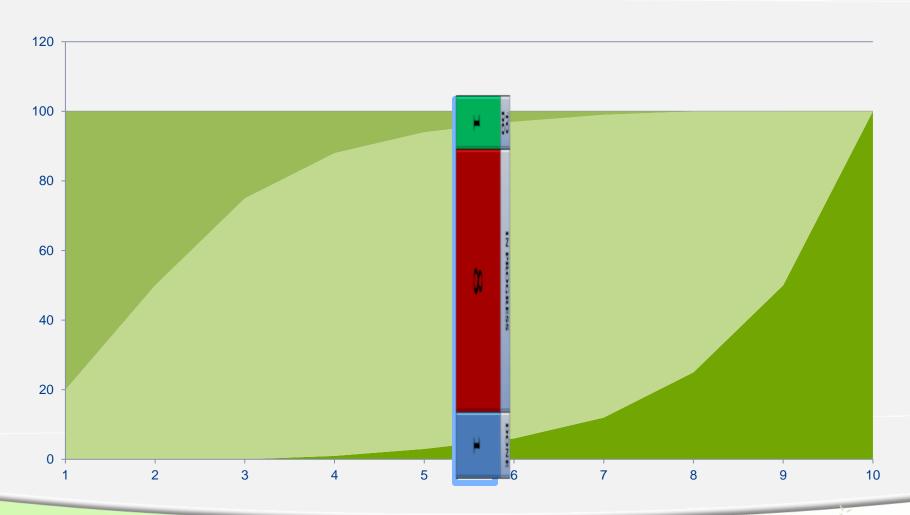
#### How to do a CFD



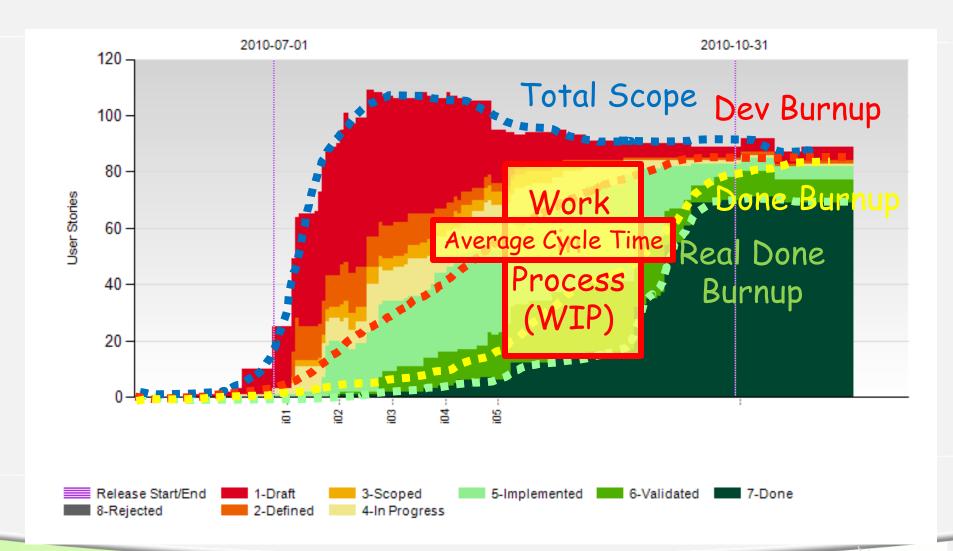
@yuvalyeret

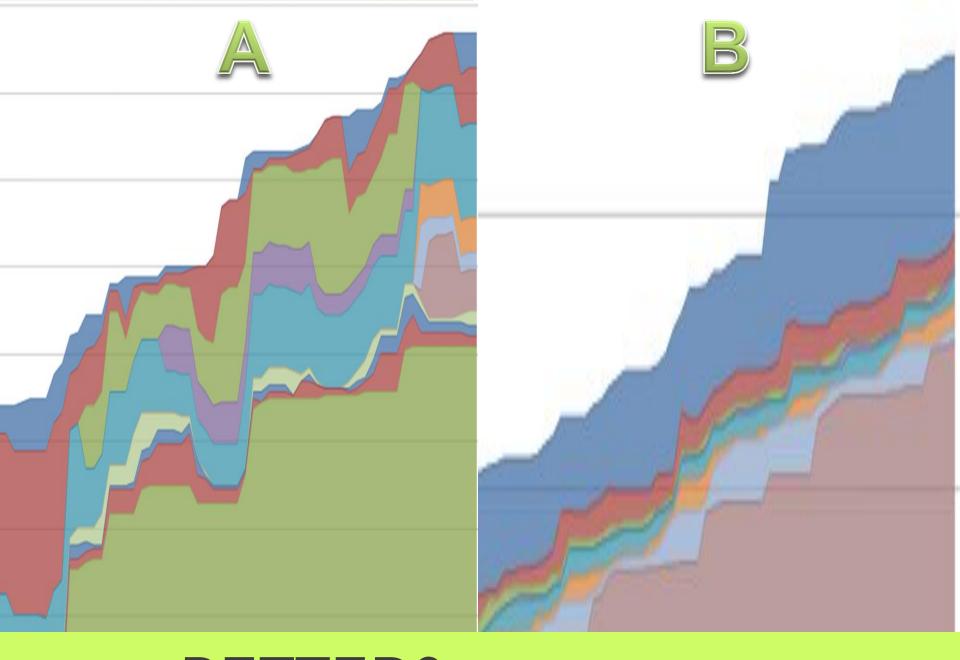
**AgileSparks** 

### How to do a CFD

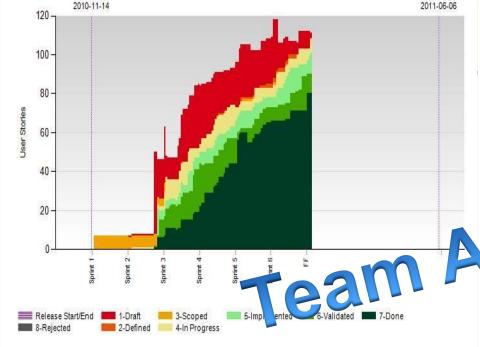


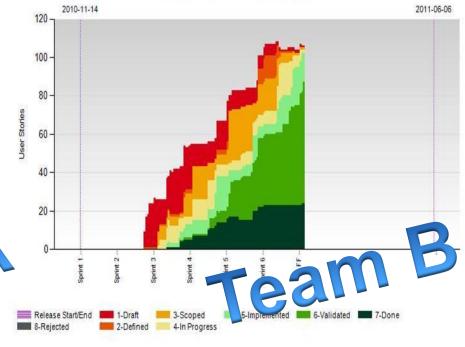
#### What can teams learn from Cumulative Flow?

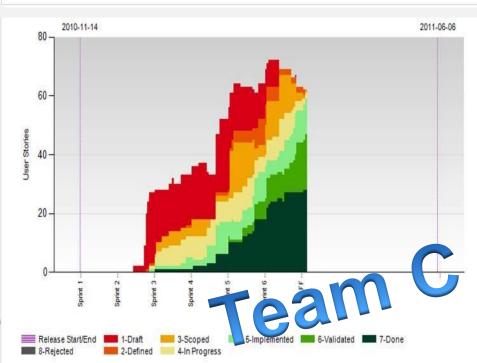




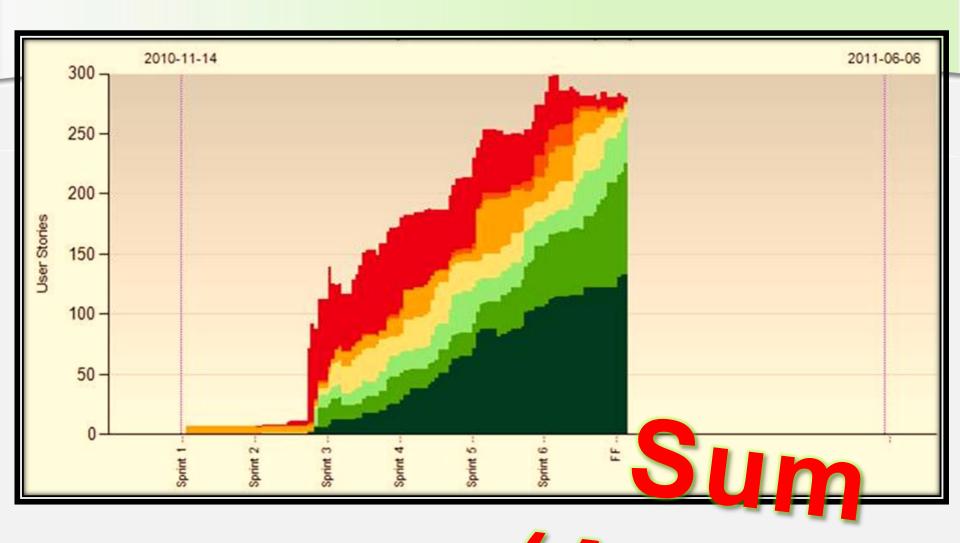
Which is BETTER?



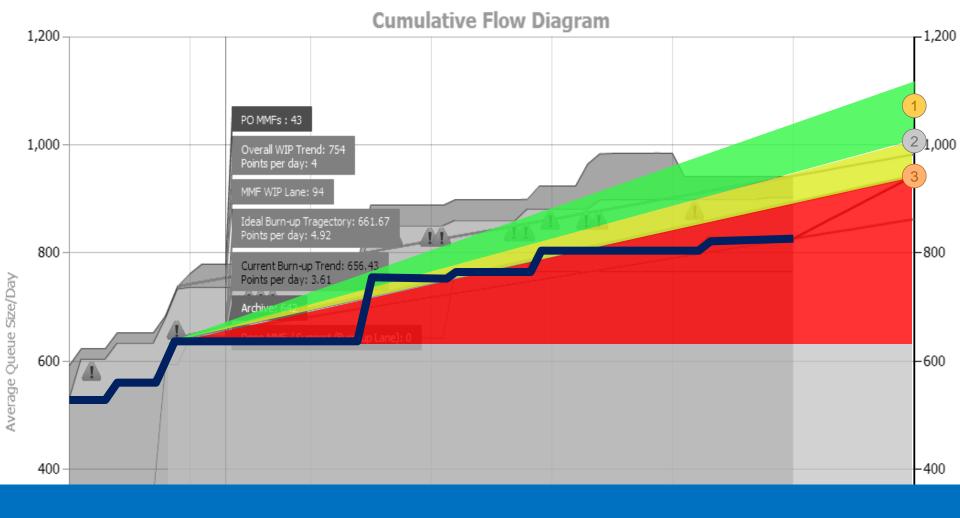








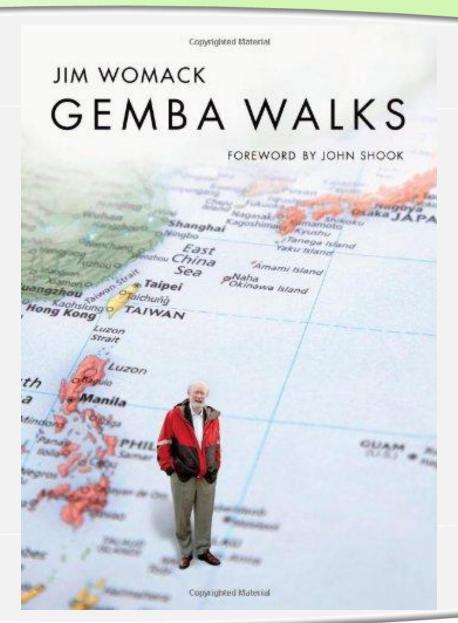
(A+B+C)



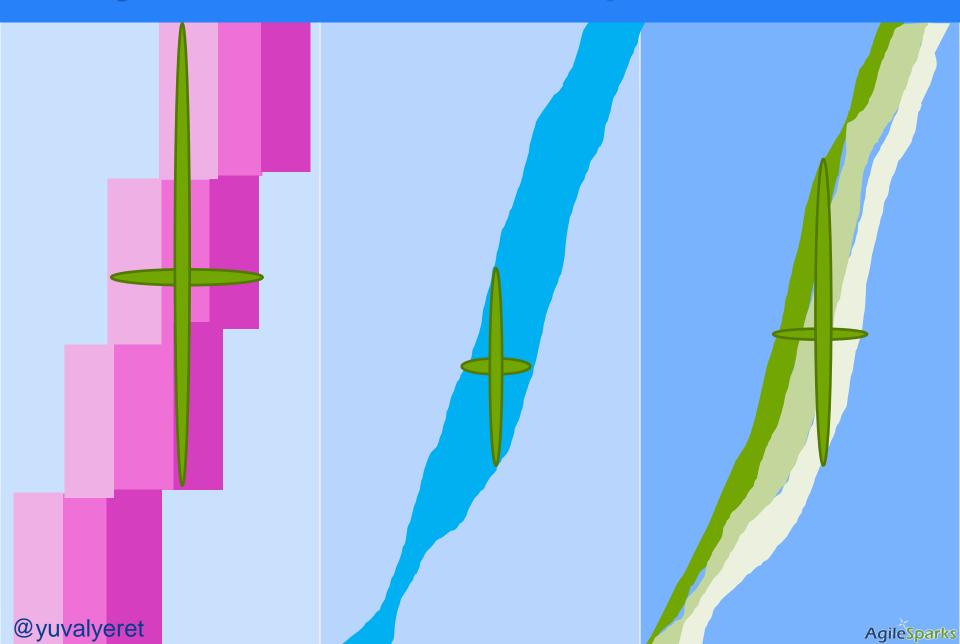
# Program-level Aggregate CFD Visualize Overall Progress



### Nice reports are not enough!



## Can you tell what these represent?



#### Some "smells" we see out there

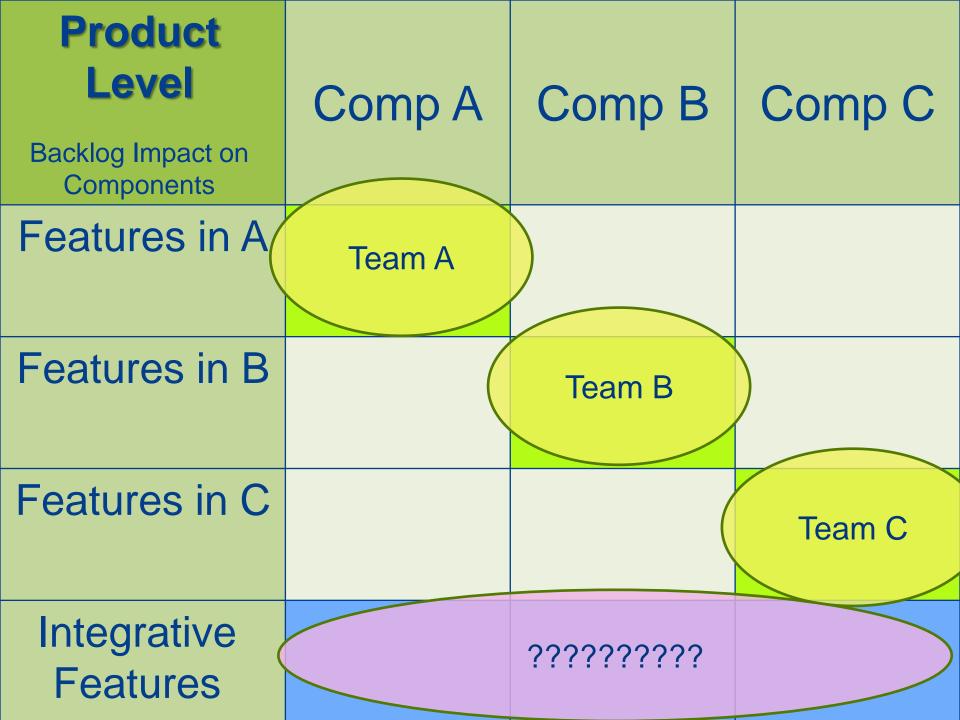
**Longer Sprints** 

Sprint
Synchronized
Handoffs

Agile Teams
Waterfall Release

Product Level  Backlog Impact on Components	Comp A	Comp B	Comp C
Features in A			
Features in B			
Features in C			
Integrative			

Features

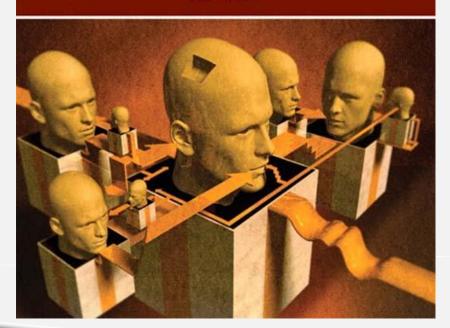


## **Learn about Feature Teams**

#### Scaling Lean & Agile Development

Thinking and Organizational Tools for Large-Scale Scrum

> Craig Larman Bas Vodde

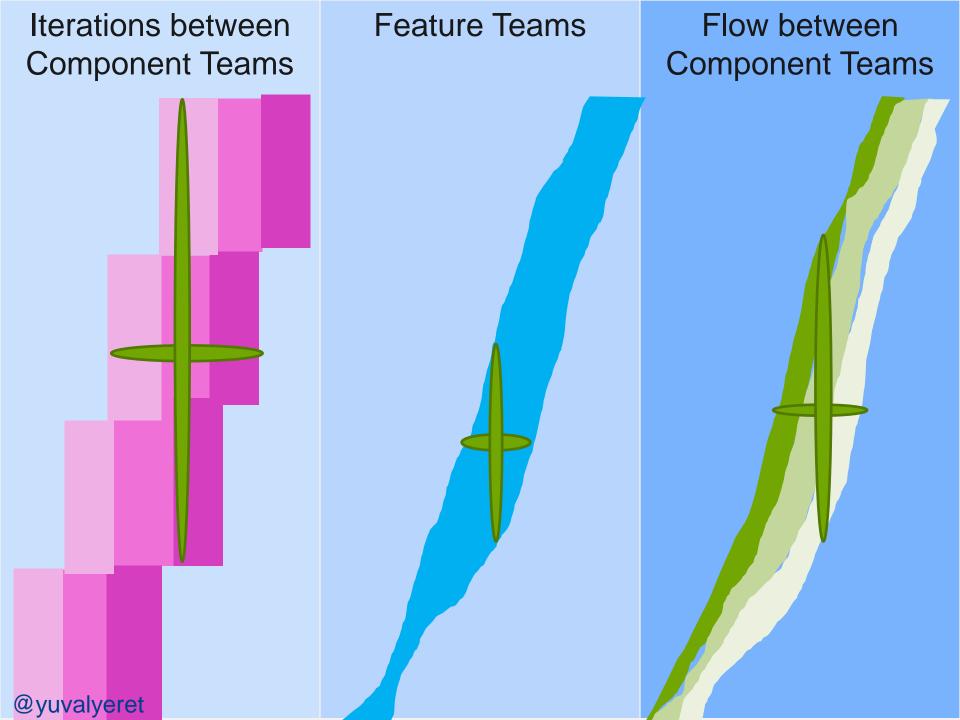


#### Practices for Scaling Lean & Agile Development

Large, Multisite, and Offshore Product Development with Large-Scale Scrum

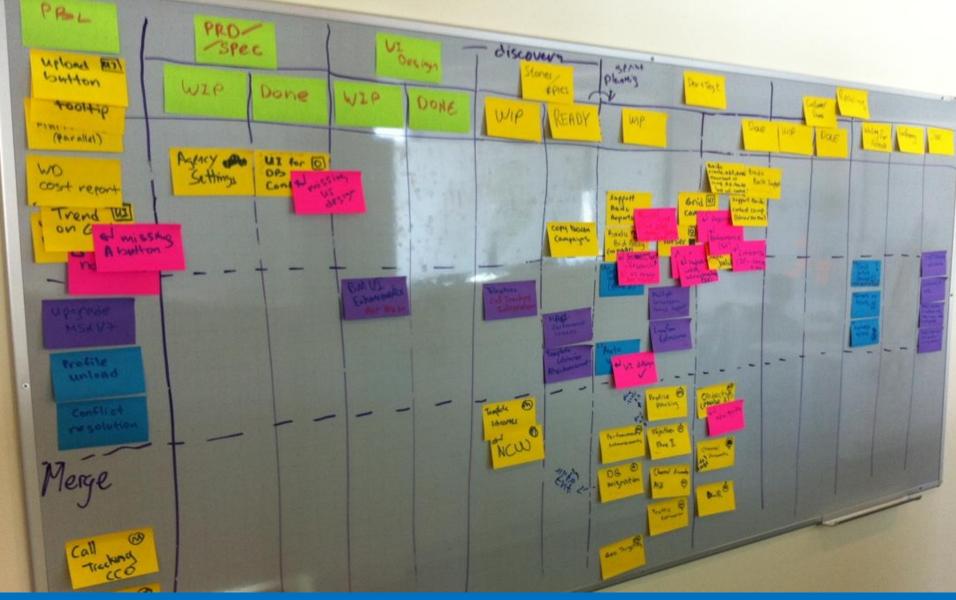
> Craig Larman Bas Vodde





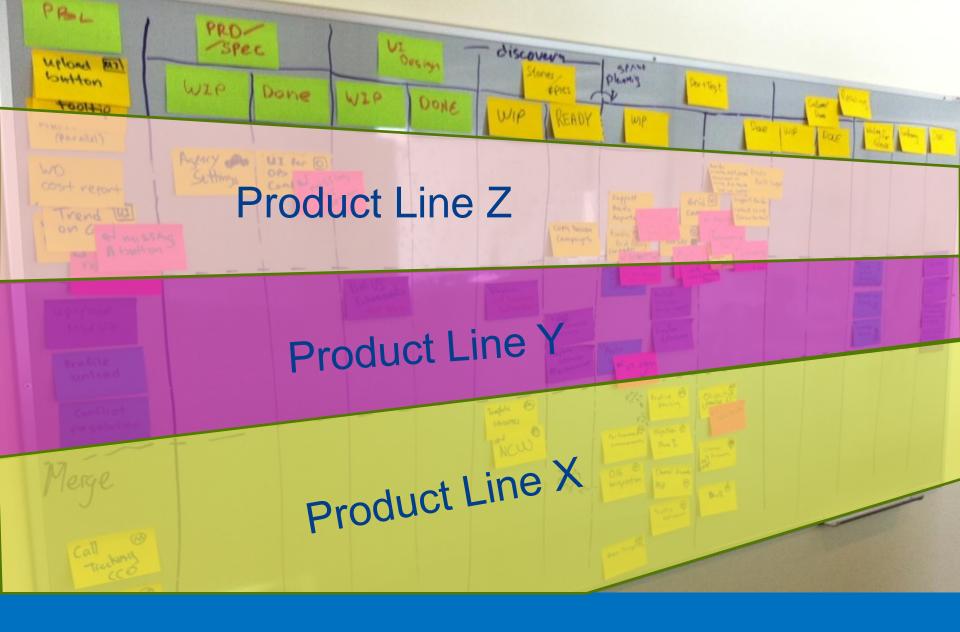
## Now - Lets Scale!



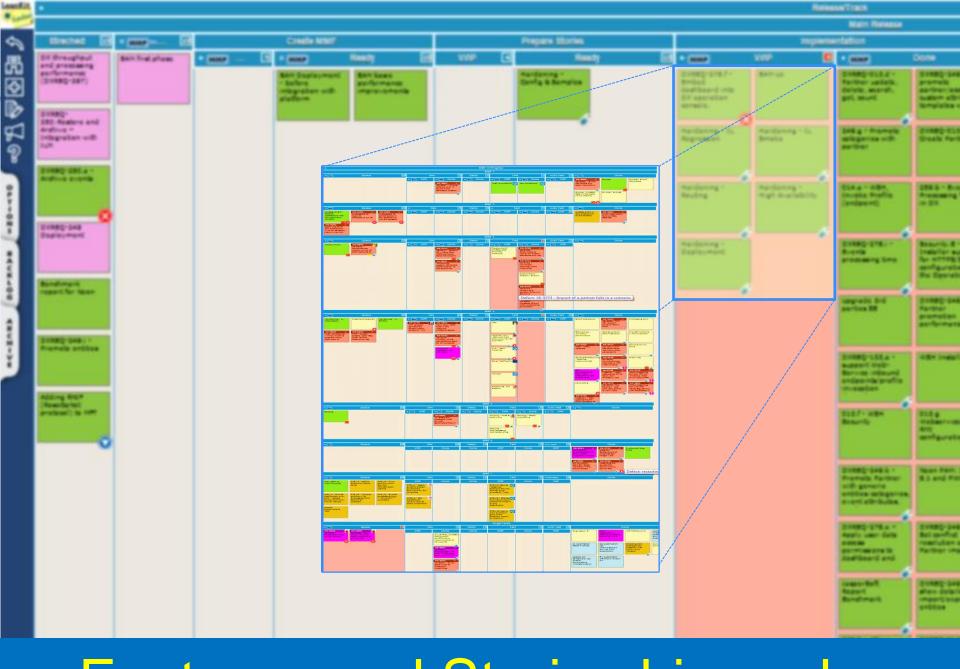


# Use a Program-level Feature Kanban Board

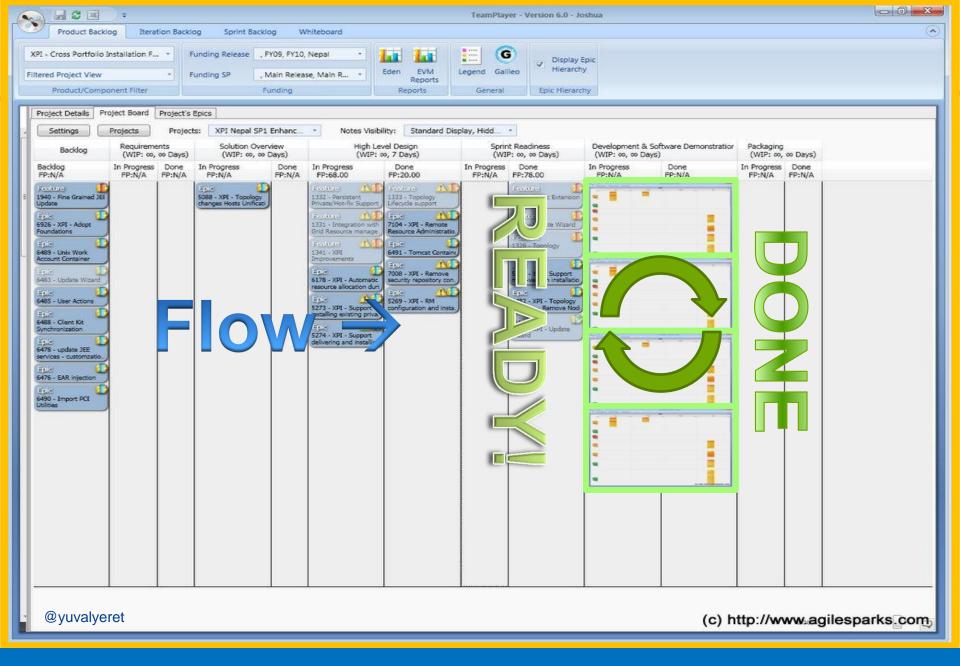




Swimming Lanes per Product

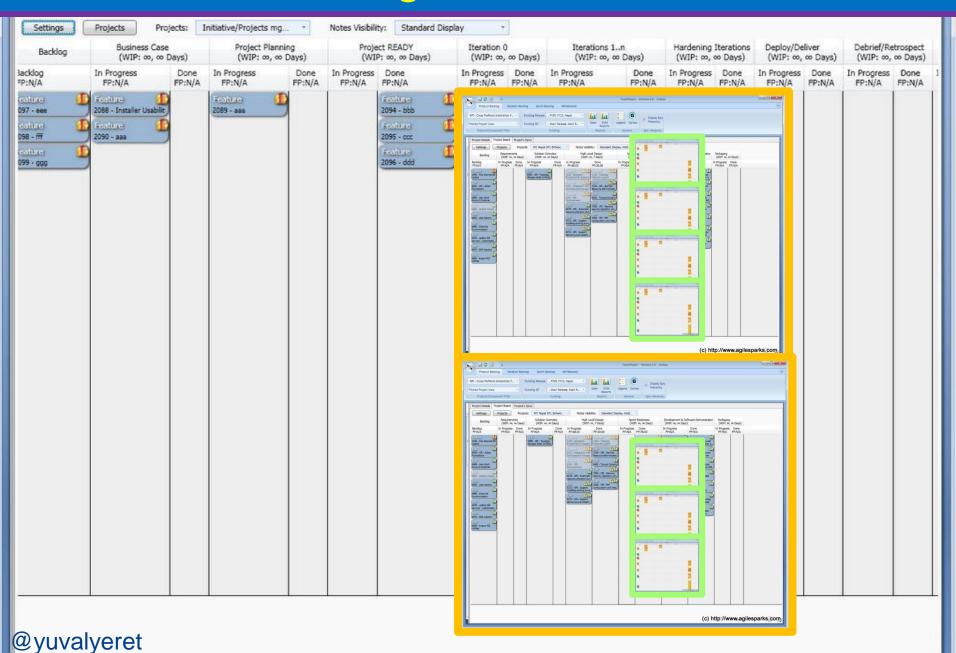


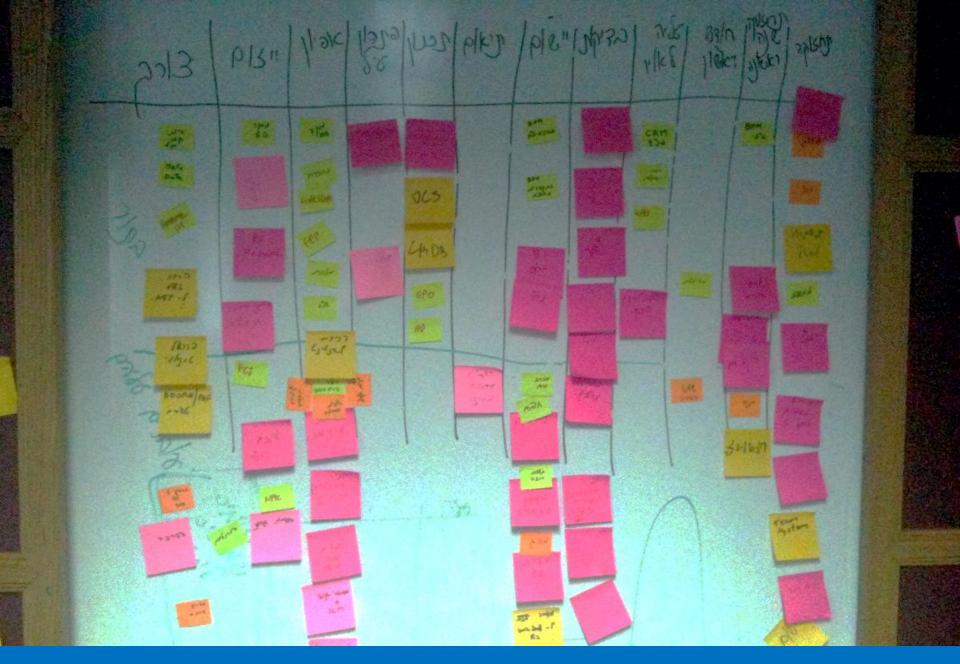
Features and Stories hierarchy



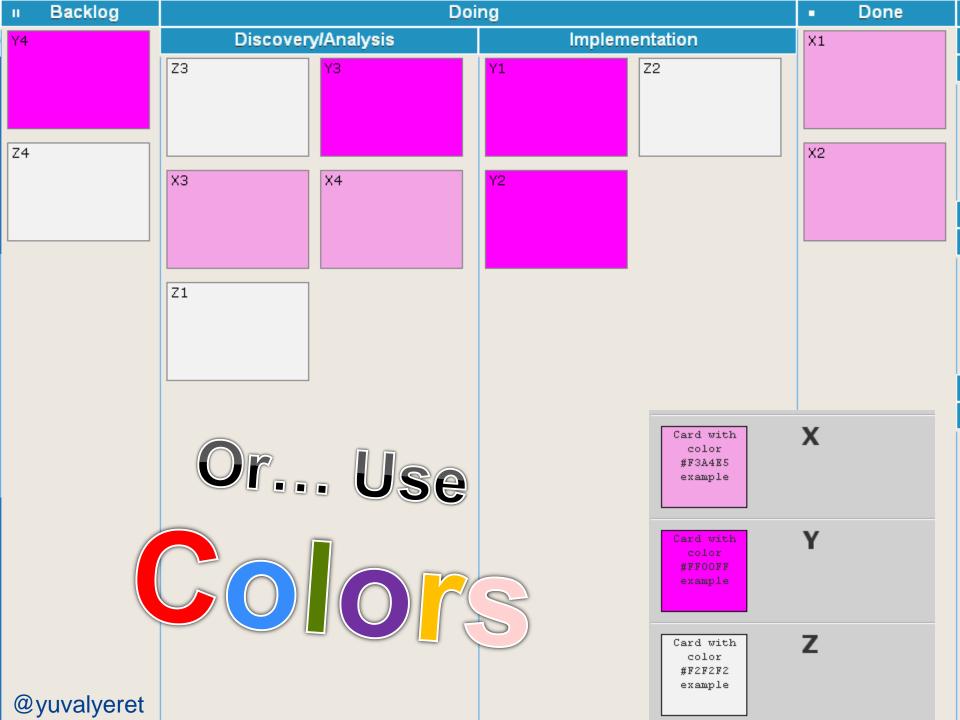
## Amdocs Project/Component Kanban Board

## Initiative/Program Kanban Board

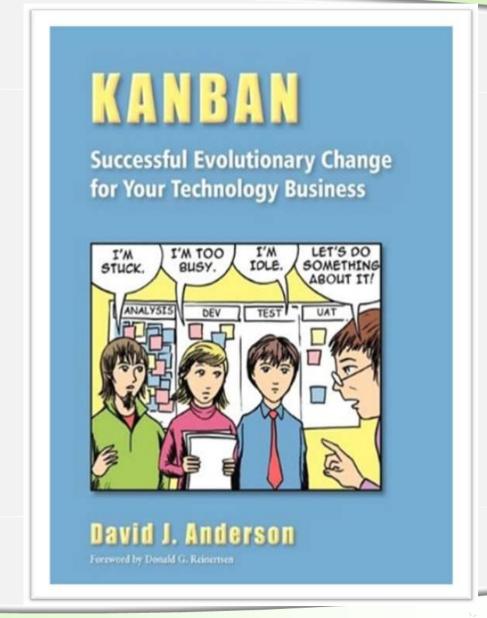




Projects Portfolio for a large IT shop

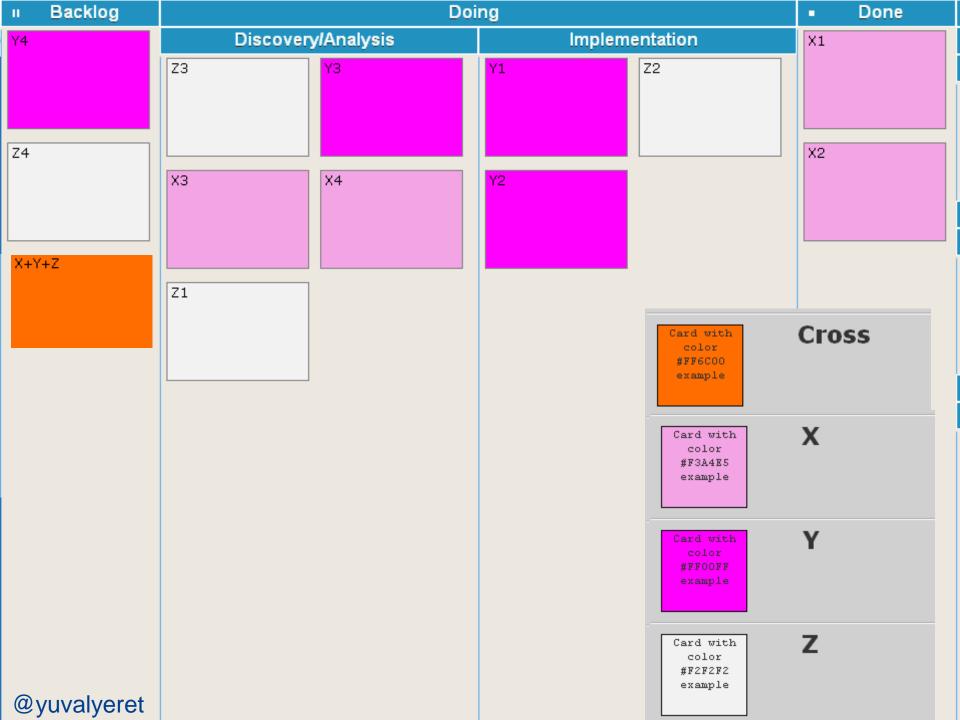


### Learn more about Kanban





# That was EASY What about...

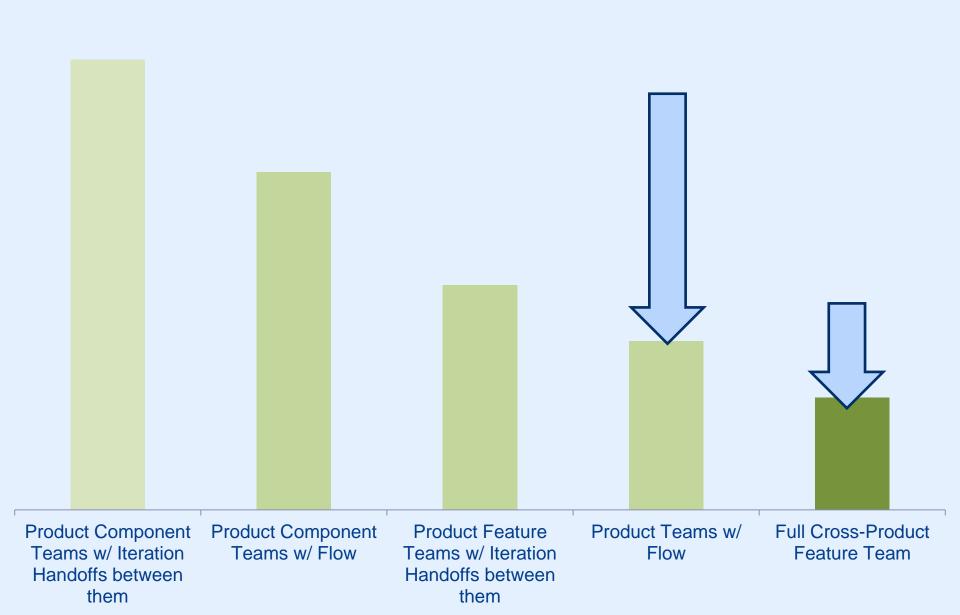


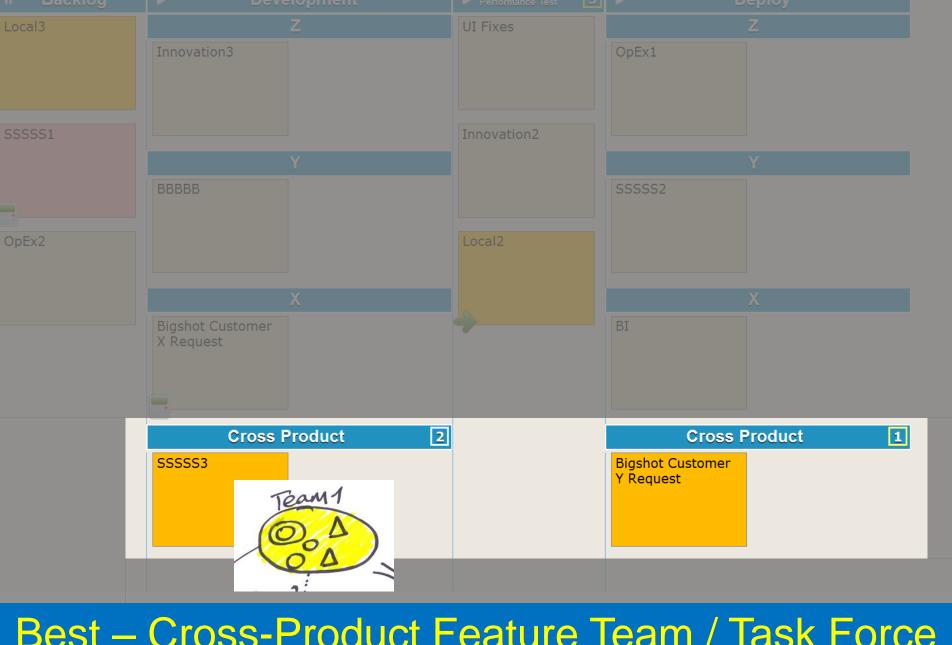
#### Portfolio/ **Program Level** Product Z Product X **Product Y** Backlog Impact on **Products** Features in Z Comp C Backlog Impact on Components Features in Y Comp A Comp C Backlog Impact on Components Features in A Features in B Features in X Backlog Impact on Components Cross-**Product** ??????

**Features** 

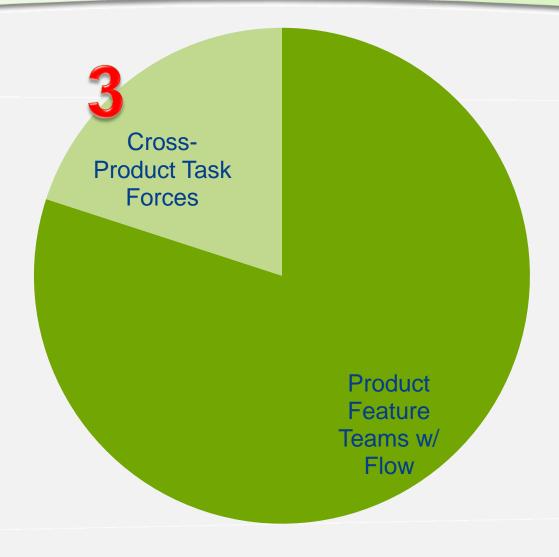


## WIP / Cycle Time / Management Overhead – Less is Better...



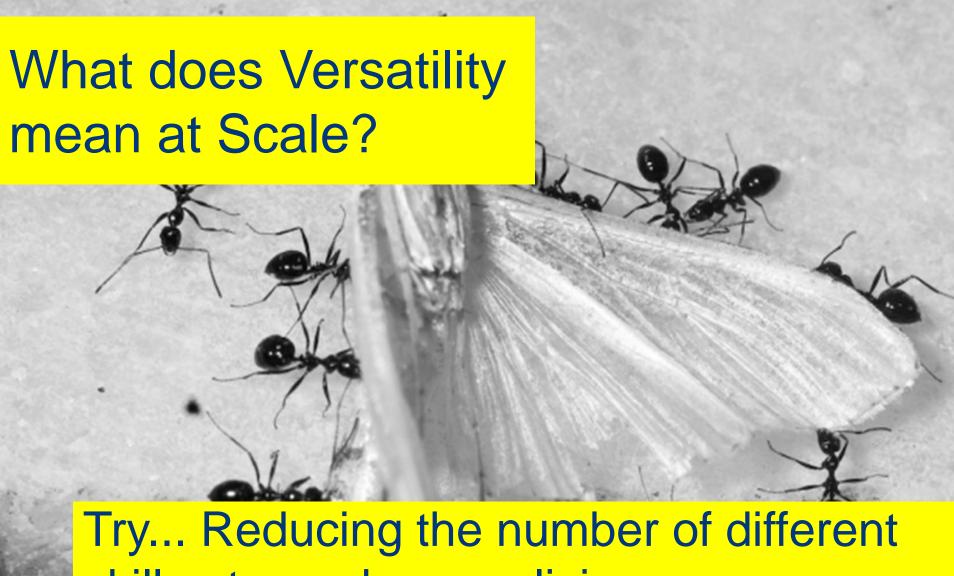


Best – Cross-Product Feature Team / Task Force Let them organize around the work



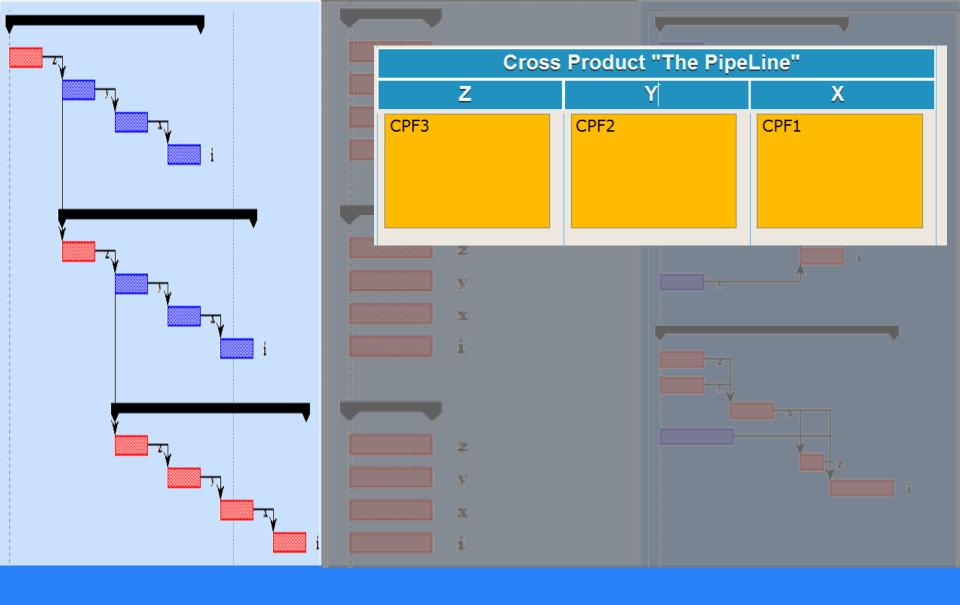
### Limit Task Forces in Progress...



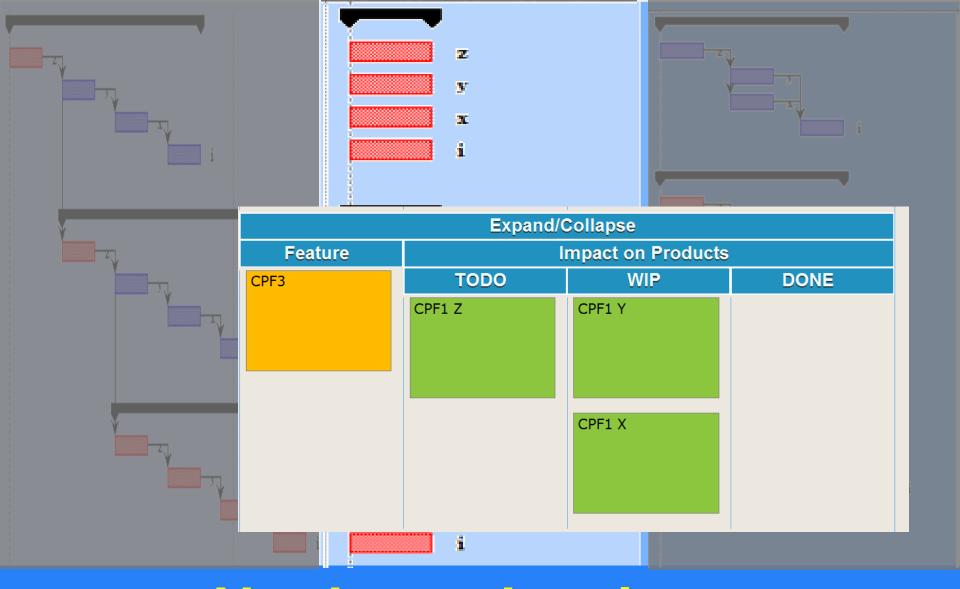


Try... Reducing the number of different skill sets, and generalizing some specializations

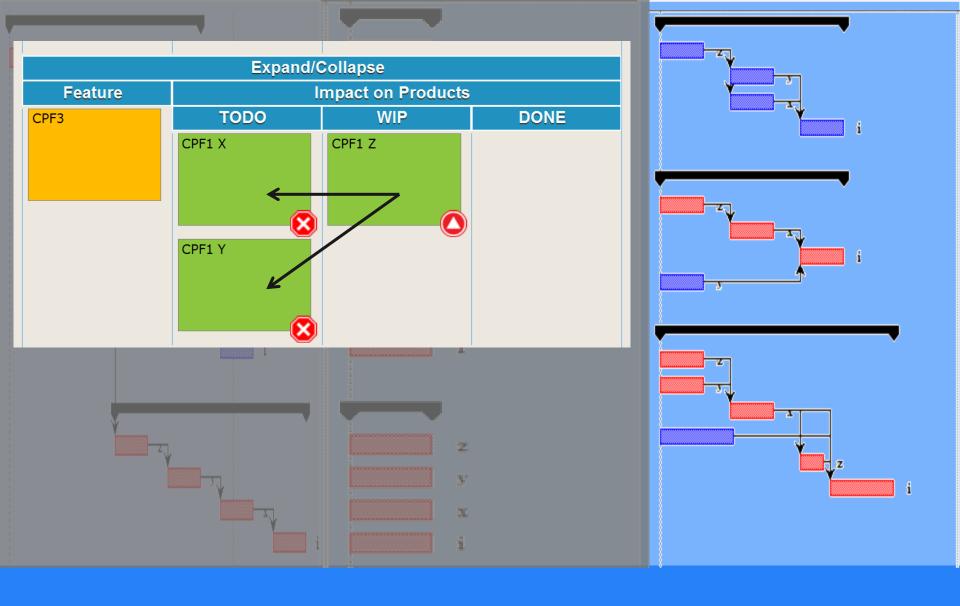




### "The Pipeline"



# No dependencies – Expand/Collapse



Dependency "Networks"?

# What about Coordination at Scale?

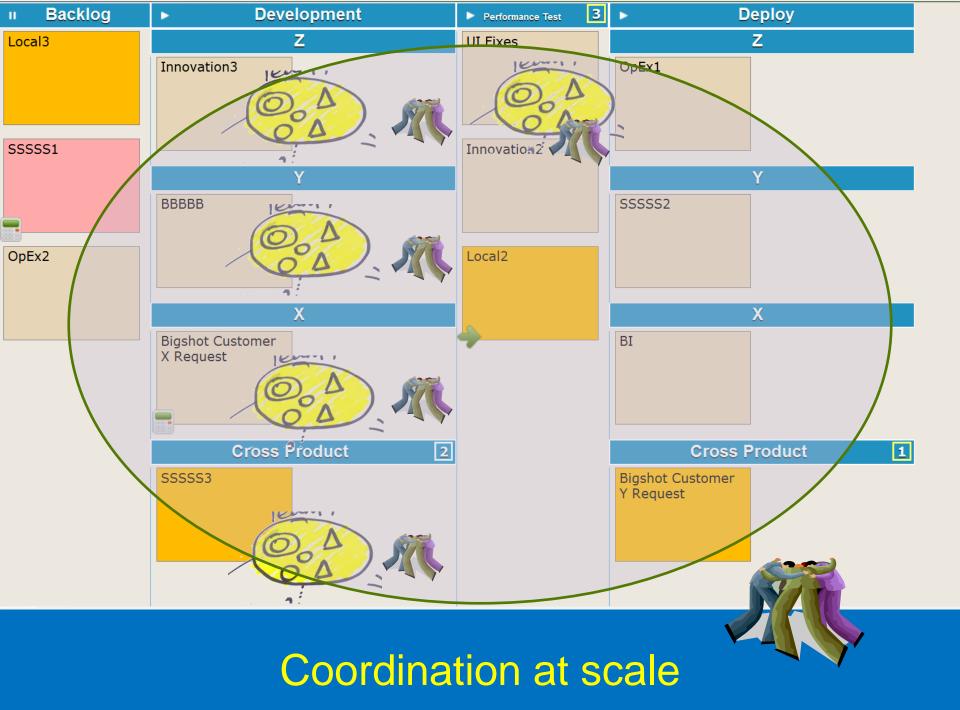
# Anyone using Scrum of Scrum?

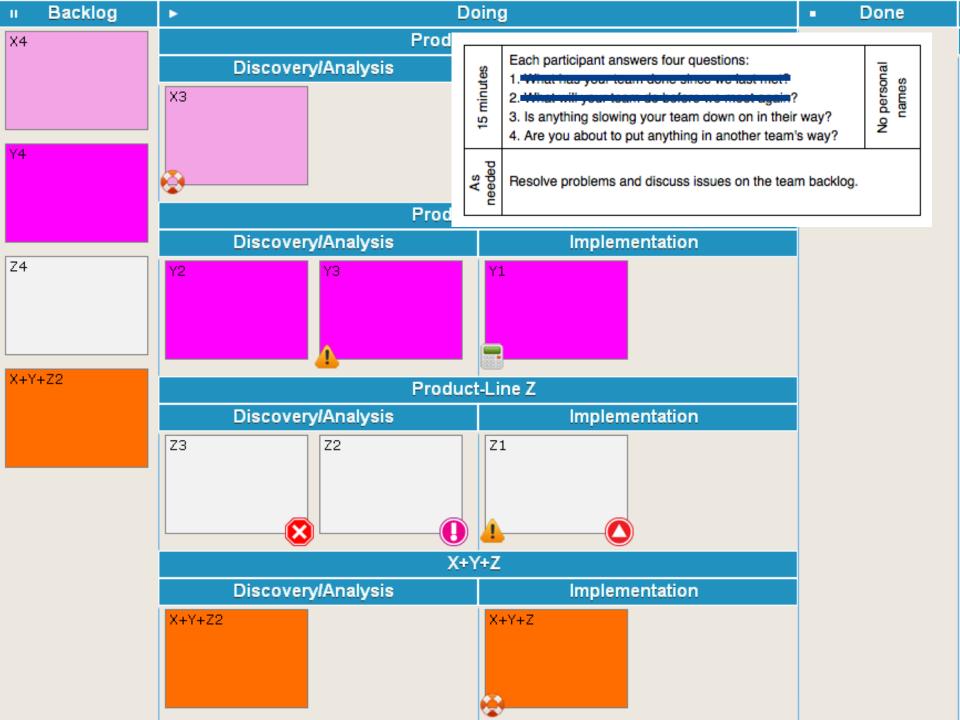
15 minutes	Each participant answers four questions:  1. What has your team done since we last met?  2. What will your team do before we meet again?  3. Is anything slowing your team down on in their way?  4. Are you about to put anything in another team's way?	No personal names
As	Resolve problems and discuss issues on the team backlog.	

#### **Questions about Scrum of Scrum**

 Are we doing it because we have Scrum+Scale? What problem are we trying to solve?

 Is Scrum of Scrum used for coordinating 100% of the work, or just the exceptions?







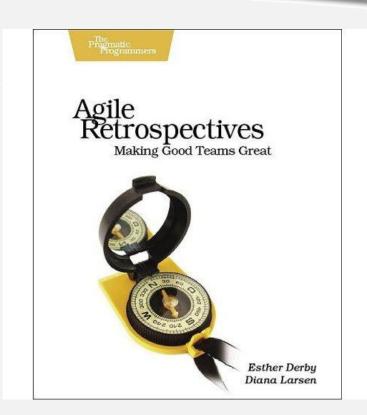
#### How about Improving at Scale?

 How many of you can name a process improvement they are trying this month?

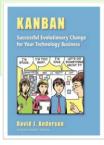
#### **Early Process Feedback and Adjustment**

 Lean/Kanban - Improvement happens as part of flow

Retrospectives/Kaizen
 Events are still important



#### **Try... Operational Reviews**





Analysis – What we learn from this

Some examples:

MMFs are growing larger

Why

What to do? Try to break MMFs

Some very high cycle times on specific features

Why out to tack of cofective memoratic and walting for one gay on the team

What to do?

Try pairing, try others taking stories with his gaidence, etc.

Fit taken metrix and take action accordingly, with the team

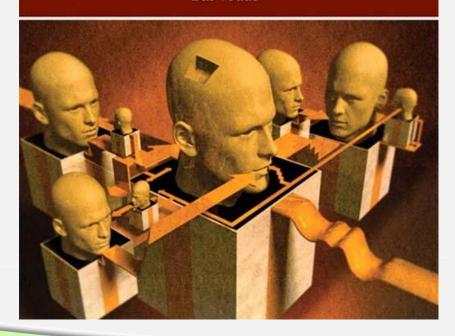


### Try... an Improvement Service

#### Scaling Lean & Agile Development

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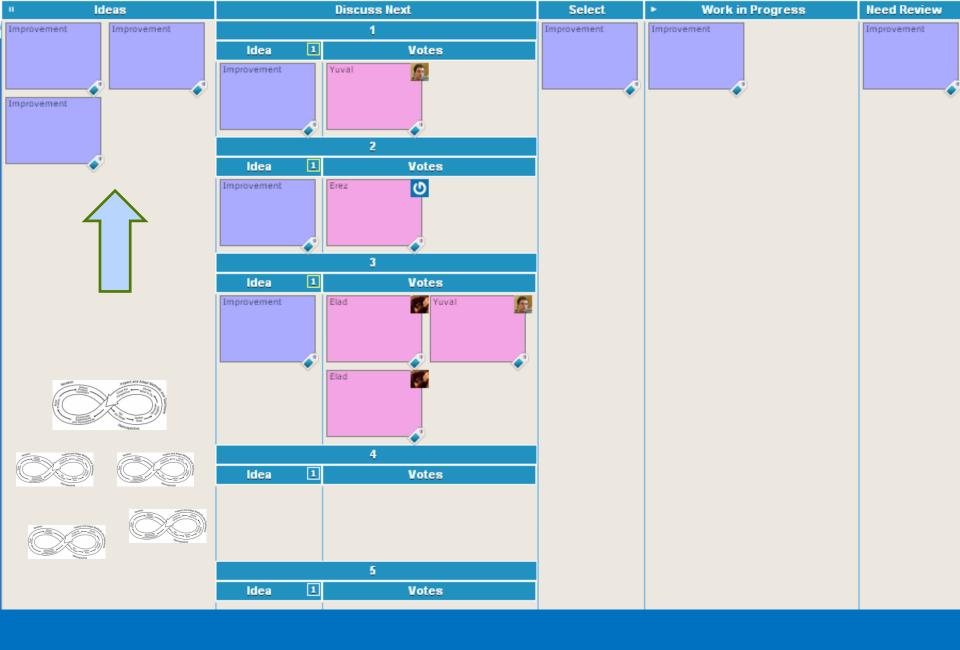


#### Practices for Scaling Lean & Agile Development

Large, Multisite, and Offshore Product Development with Large-Scale Scrum

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Pull Improvement Needs from Teams





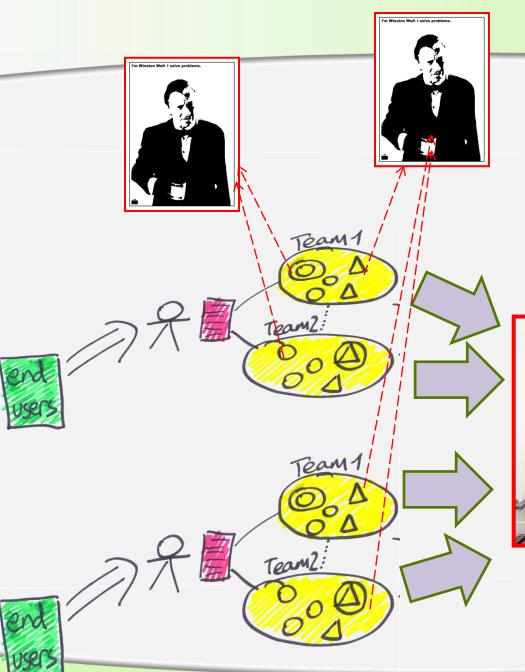
Will visualizing and managing flow in each of those roads be enough?





# Need to visualize and manage the global end to end flow across shared resources





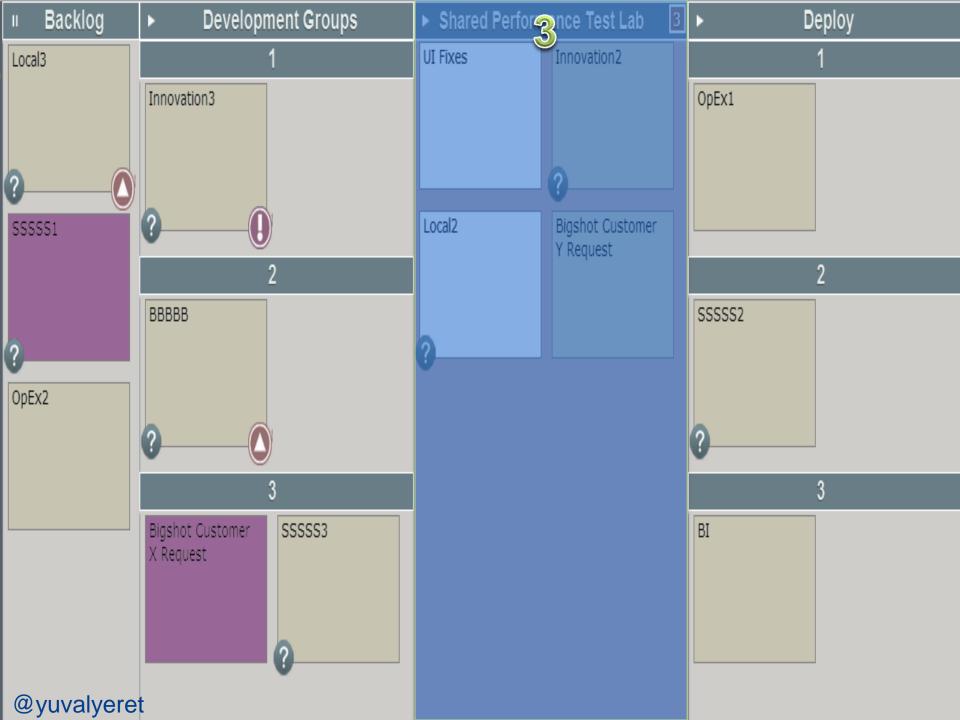
@yuvaiyeret

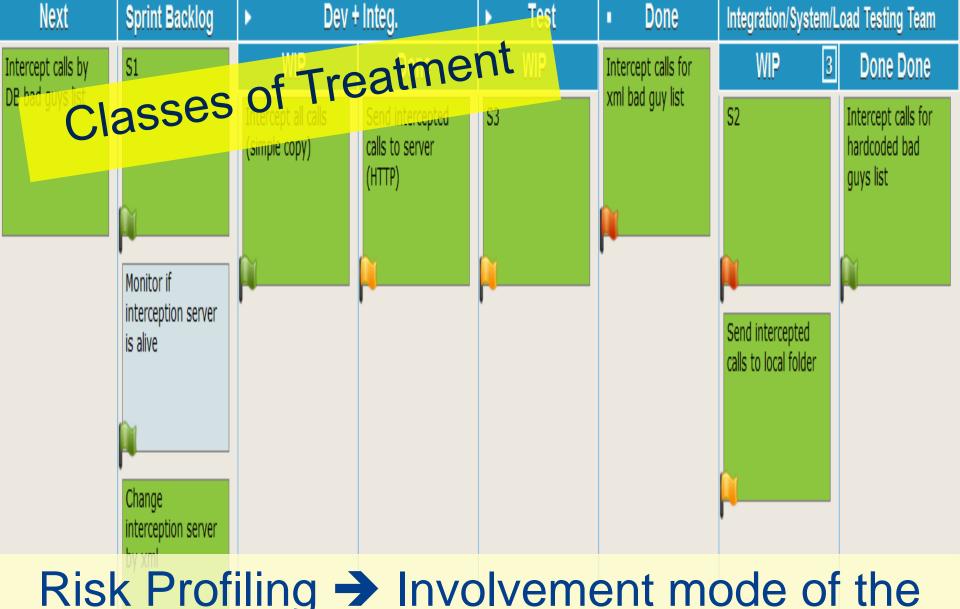
### **Sharing**



http://www.flickr.com/photos/kwl/4809326028/http://www.flickr.com/photos/justin\_case/54087334/in/photostream/



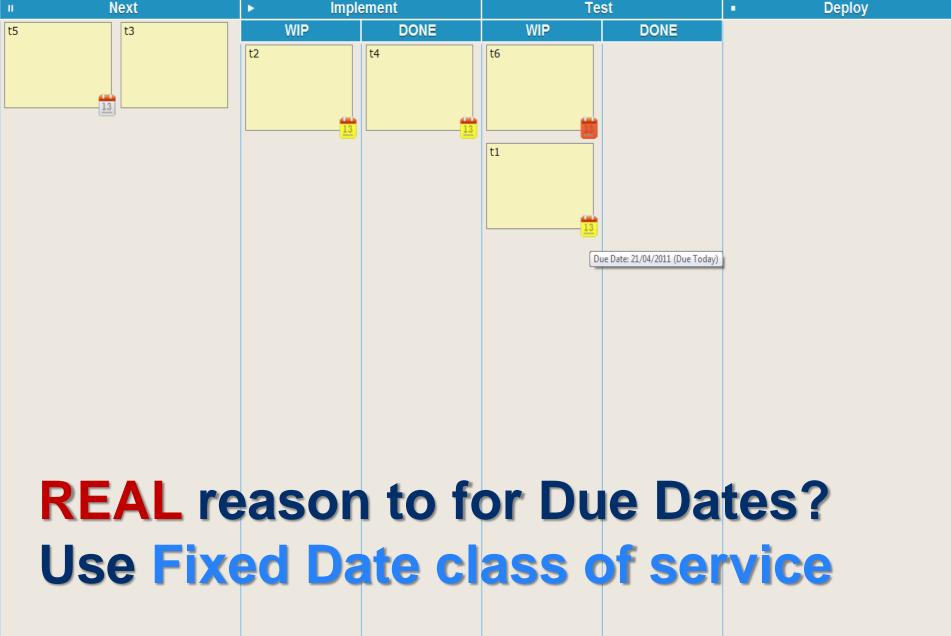


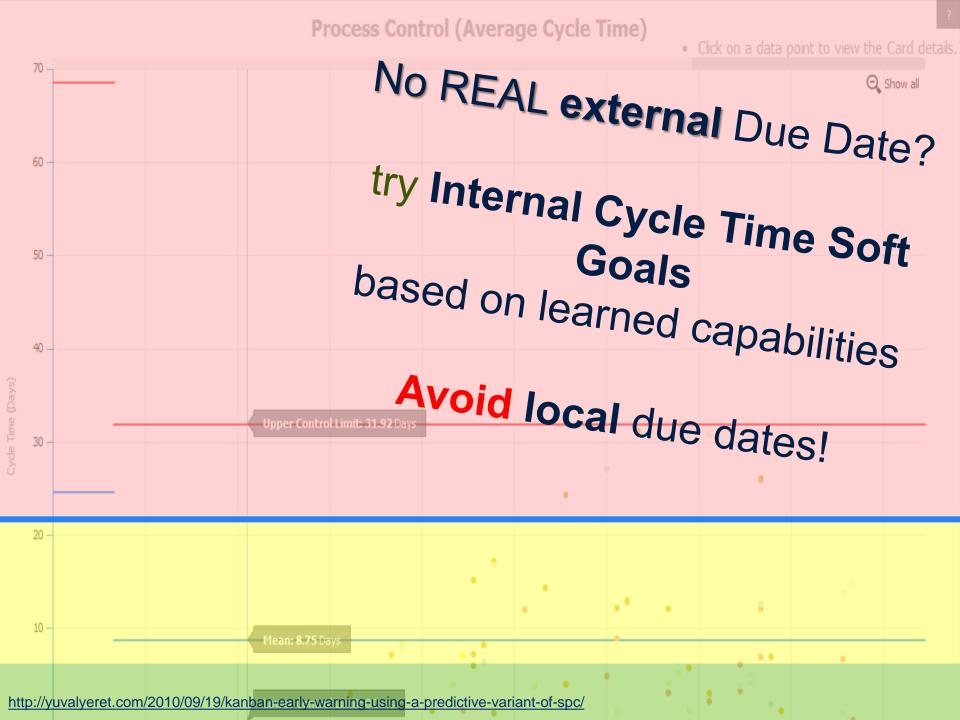


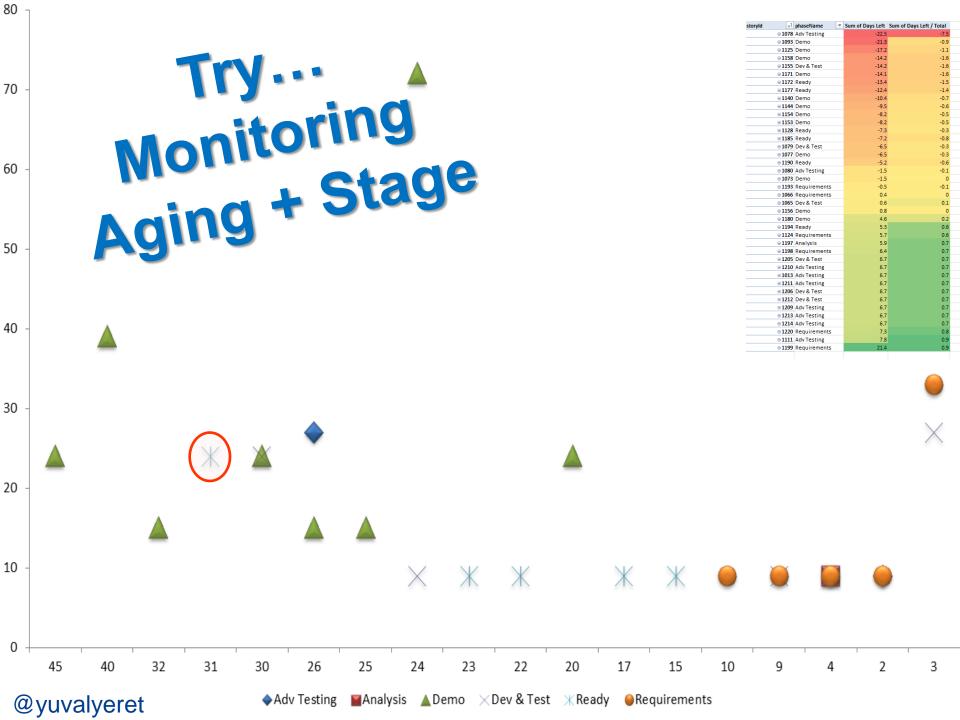
Risk Profiling → Involvement mode of the shared resource

# What about Due Dates and Commitment?











**Projects** 

Projects/Features in certain high attention Class of Service Fixed Date / Cost / etc.

Cross-Product Features/Task Forces

**Shared Resources** 

