

# HOW TO INTRODUCE CONTINUOUS DELIVERY?

Alexander Schwartz

Nokia Location & Commerce

INTERNATIONAL
SOFTWARE DEVELOPMENT
CONFERENCE



# Which delivery style you have? "Big ship" "Kaiten Sushi"



How to do the transition?



## 4 Stories: What helps? What not?

Story #1 Story #2

Story #3

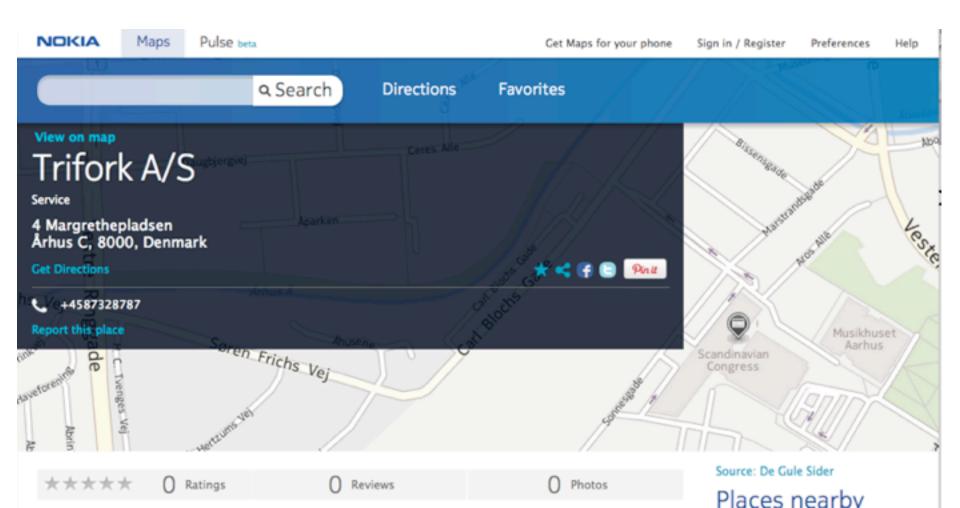
Story #4

context #1 NOKIA

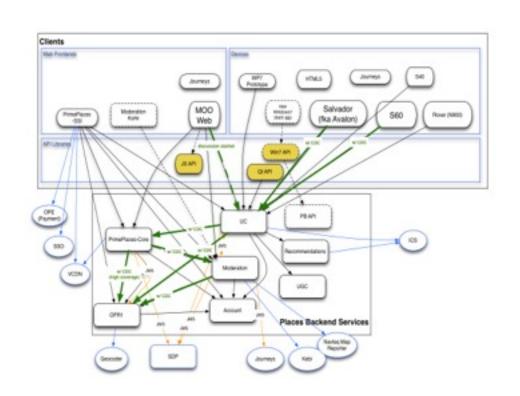
context #2 another company

# Story #1

Context: Nokia L&C Places
RESTful services to show Place
information on maps
applications.



#### Story #1: The Initial Challenges

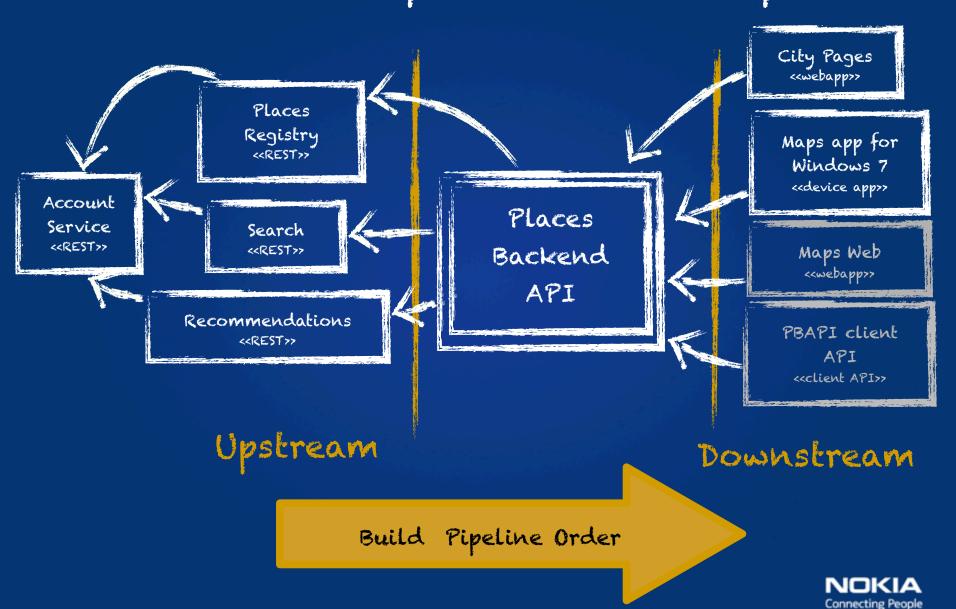


- © complicated dependencies
- cintegration problems
- eproduction bugs
- obig bang releases

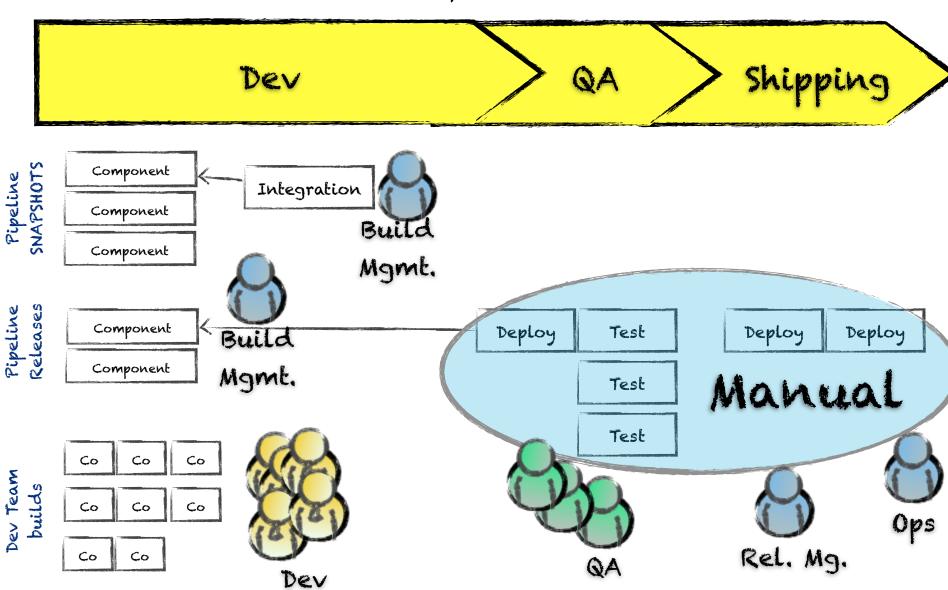
#### Approach: Ask for smart people for help.

- -> Delivery Pipelines
- -> CDCs (Consumer Driven Contracts)

#### From Services Dependencies to Pipelines



## The Result After 1 Year



### The Result After 1 Year

Developer buy-in in the ideas	fair
Developer buy-in in implementation	0 %
Improvement of Cycle Time	none

## Learnings

#### Bad:

- · It was build by another team.
- It was build beside the teams builds.
- · Big Bang Rollout
- · no shared responsibility
- · no proof that it works

#### Good:

- · it established a "we should do..."
  - CDCs
  - pipelines
  - deliver faster
- it fixed other problems: server config, etc.

# Story #2

Context: Nokia L&C Places
RESTful services to show Place
information on maps
applications.

## Focus on Delivering

#### What we achieved?



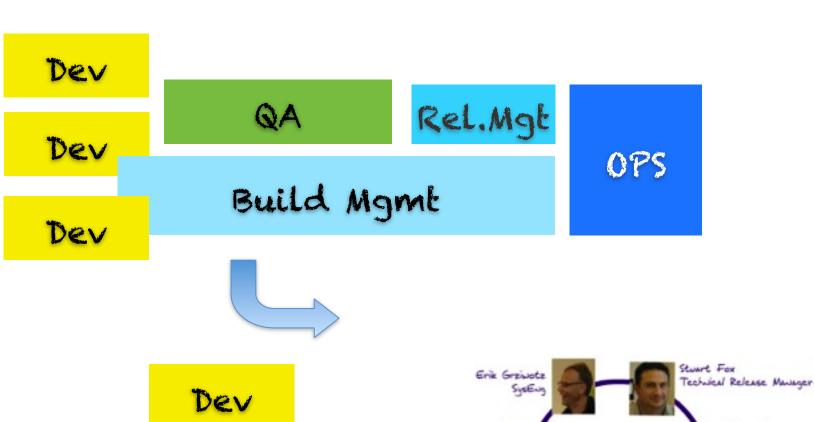
#Releases	5 in 6 month	>110 in 6 month
Cycle Time av.	approx. 35 days	11 days
Cycle Time min.	1 week	2 hours
Release Success	10 %	97 %
Unplanned Work	80 %	20 %

What helped... DEVGA TDD DEVOPS Test Automation Kanban Pairing BODI

#### Build one team

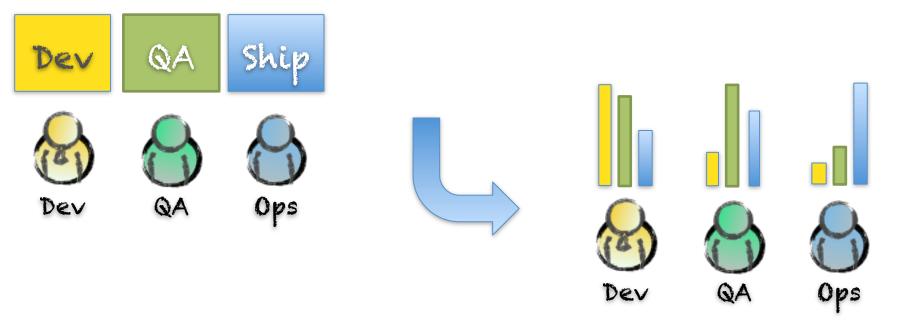
Dev

Dev

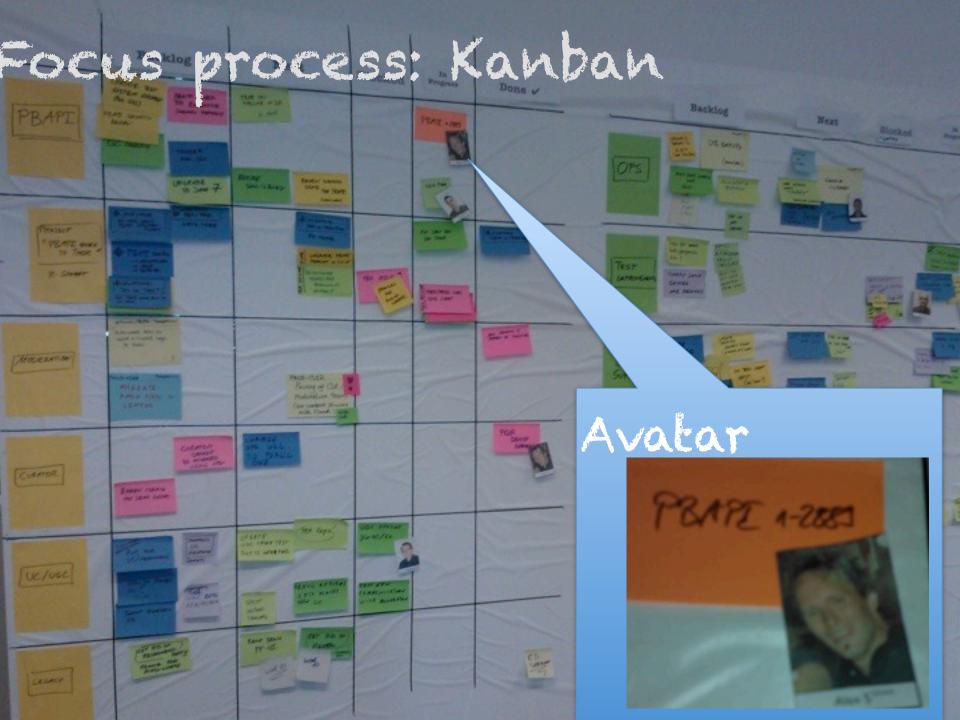


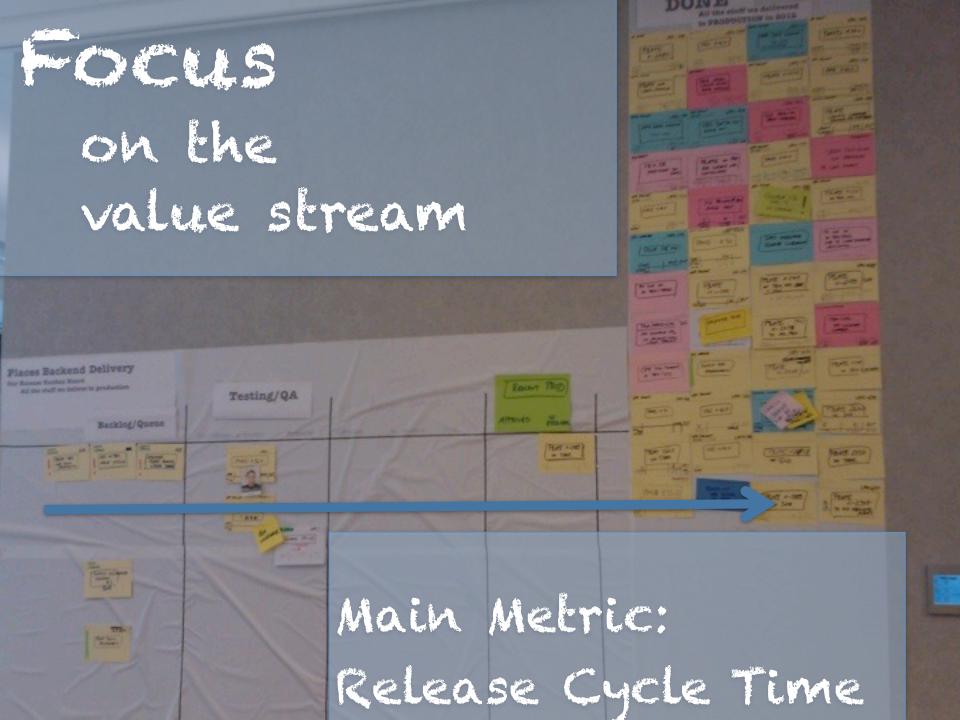


# Devops + DevQA



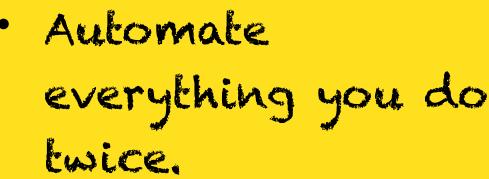




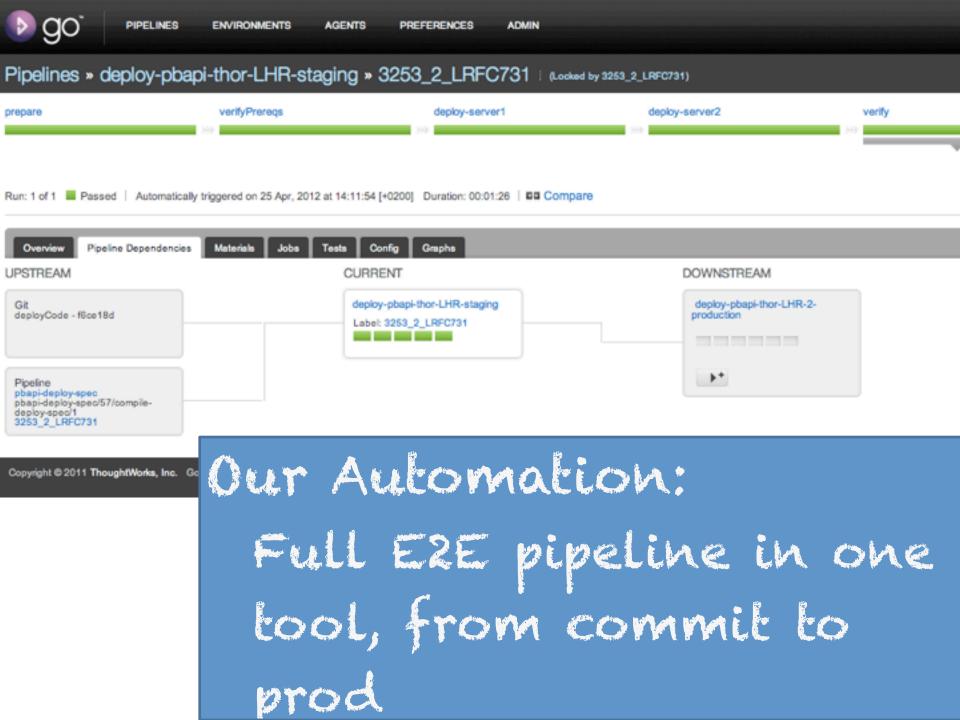


#### Automation

Automating the wrong thing to early is dangerous



 Automation will be your rescue.



# Eat your Own Dog Food

You understand the value of Continuous Delivery?

Use the same principle for your Improvement Process.

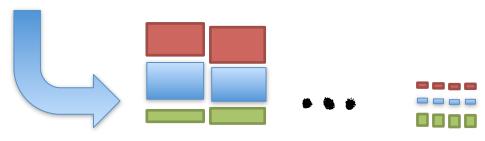
Baby Steps, Baby Steps, Bat



Why we should care about fast delivery?

# How to find the balance + rhythm?





# Story #3

Context: eBay company biggest e-commerce market place for vehicles in Germany



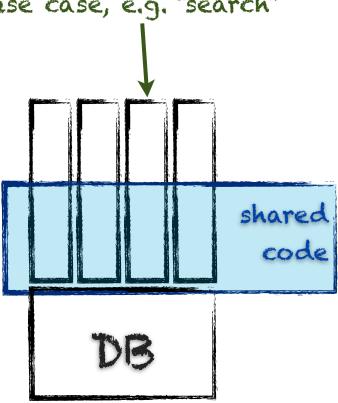






#### The Architecture

web app for a single use case, e.g. "search"



- eBay "pillar architecture"

  (every major use case is separate)
- a lot of shared code
- big domain model
- typical change:
  - · impacts one component
  - · the domain model
  - · full rollout
- big bang rollouts, no downtime
- deployment army

#### What we achieved?



#Releases	every 2-3 weeks	every week
Cycle Time av.	10-30 days	30 days
Cycle Time min.	30 days	10 days
External quality	room for improvement	room for improvement

Story #4

Context: eBay company biggest e-commerce market place for vehicles in Germany

Why don't just skip the hardening phase?

#### What we achieved?



#Releases	every 2-3 weeks	4-8 per week
Cycle Time av.	10-30 days	1-5 days
Cycle Time min.	30 days	2 hours
External quality	room for improvement	pretty good



## 4 Stories: What helps? What not?

Story #1 Story #2

Story #3 Story #4

Huge Step Baby Steps

Baby steps

Huge Step

Continuous Improvement Disruptive Change

# Questions?



Alexander Schwartz

twitter: Calexschwartzbln

e-mail: alexander.schwartz@nokia.com