The Kiev Experiment

Evolving Agile Partnerships

Who are we?

- Simon Ogle
- Alexander Kikhtenko
- Peter Thomas

Where did we start?

- Existing monolithic mainframe application
- Quarterly deliveries
- 6 week testing cycles
- Offshore delivery teams
- Waterfall process
- Command and control

What did we want to do?

- Belief there was a better way to deliver software
- Incremental development to deliver business value quickly
- Address the rapidly changing business landscape with flexibility in delivery
- Build quality into the solutions
- Deliver the software rapidly, but in a cost effective manner
- Put the fun back into software delivery
- But the rest of the organisation very sceptical about our delivery approach

How did we start?

- Started with a single team in London
- Initially focused on building the tools, proving the processes and technologies
- Release 1.0 on Friday 13th October 2006
- Very soon we started to look how we could scale

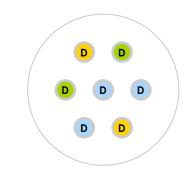
Where are we now?

- 5 years into the delivery
- 2M trades per day
- 100 billions settling per day in all major currencies
- 40 exchanges across EMEA and APAC
- 15 scrum teams/120 people
- Teams in London, Kiev, Hyderabad, Hong Kong and New York
- 9 application components
- Production releases every 2 weeks

Evolving the team

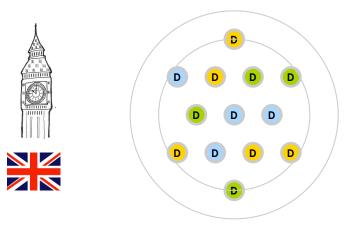
Evolving the relationship







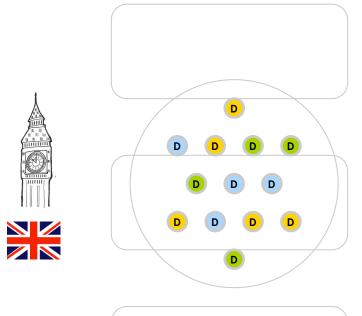
small co-located team



2006



small co-located team

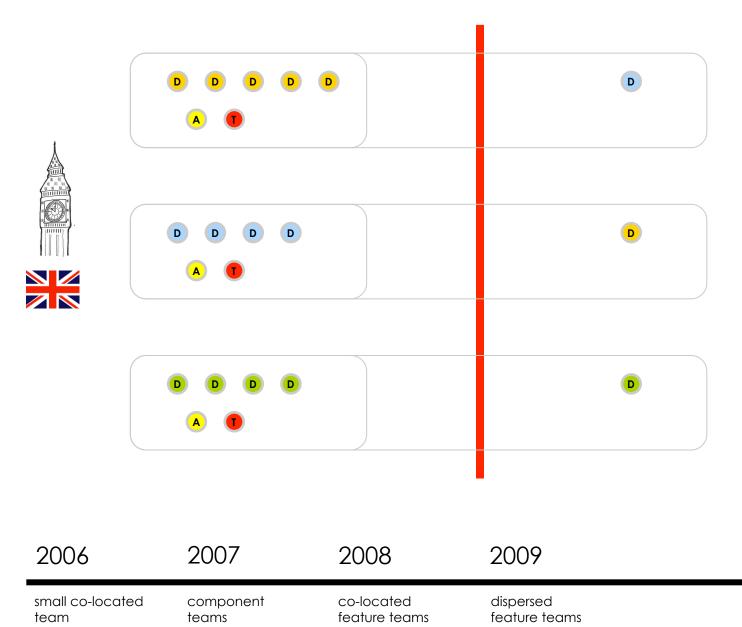




2006

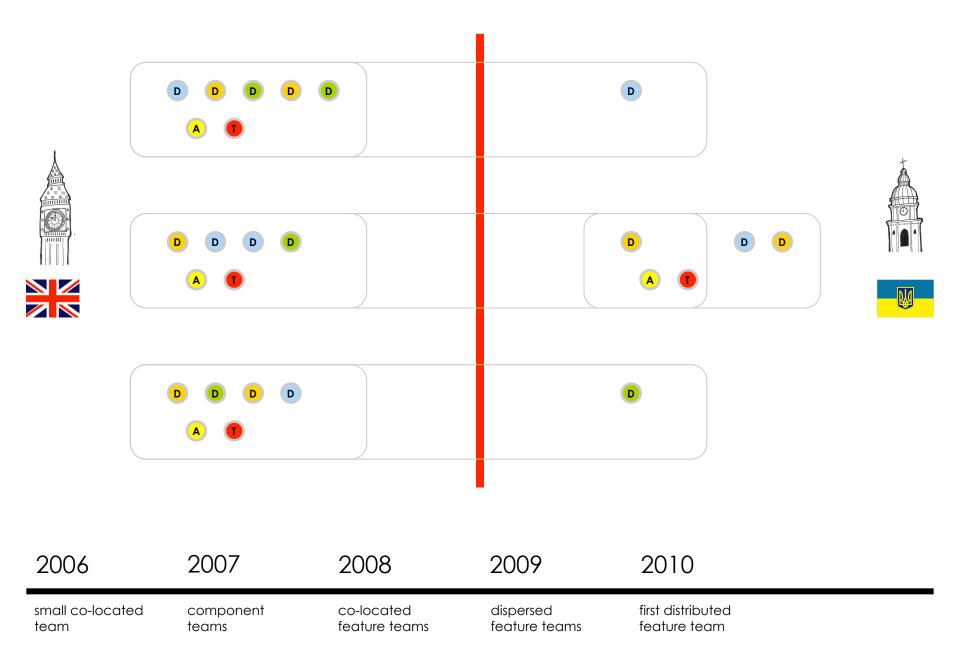
2007

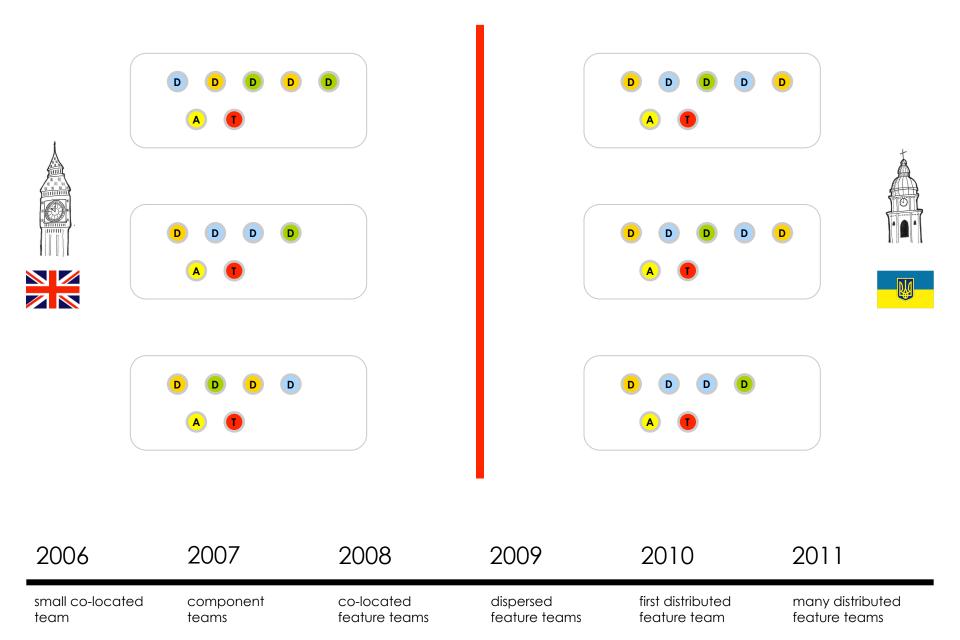
small co-located team component teams





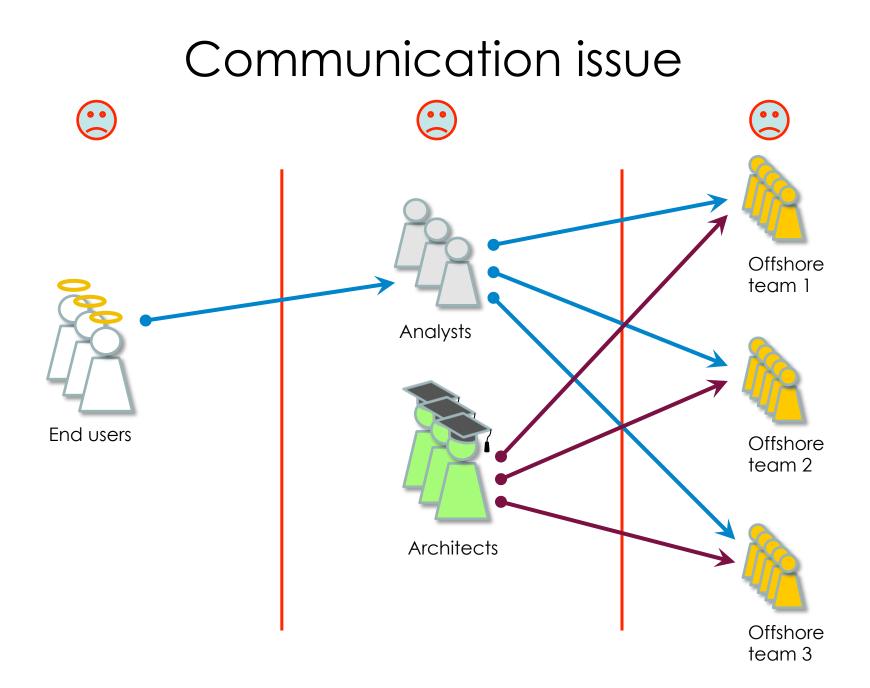






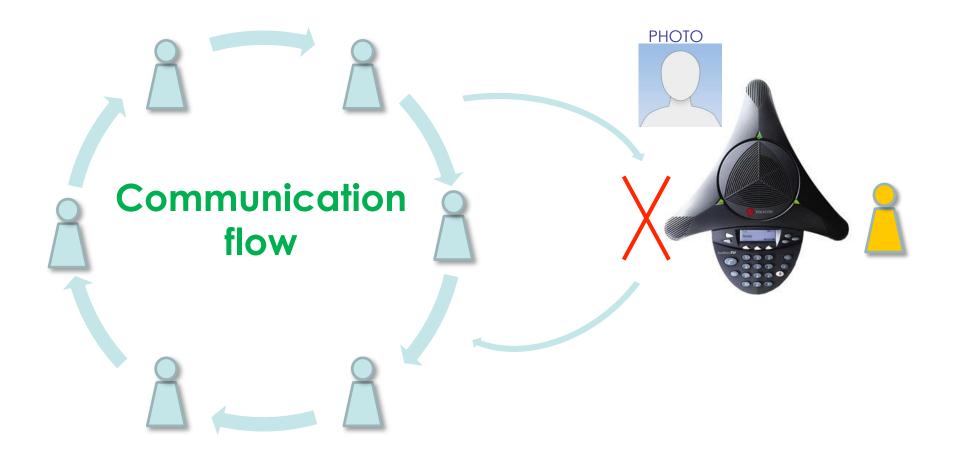


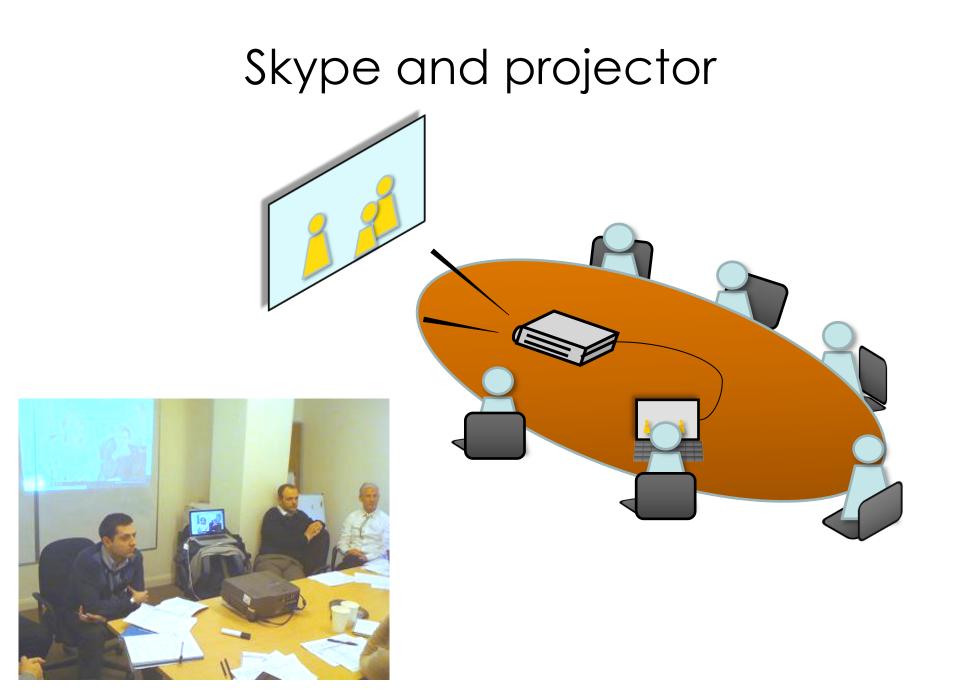
Evolving the communication



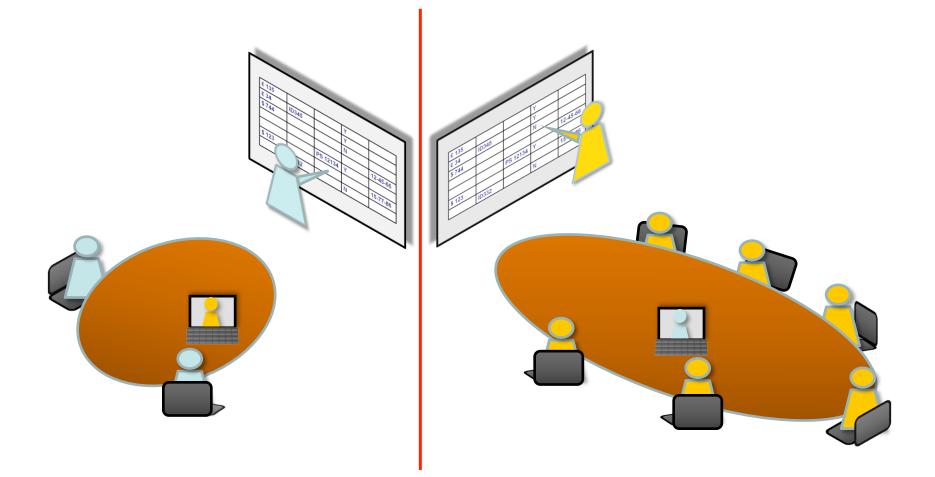
Broadening communication bandwidth

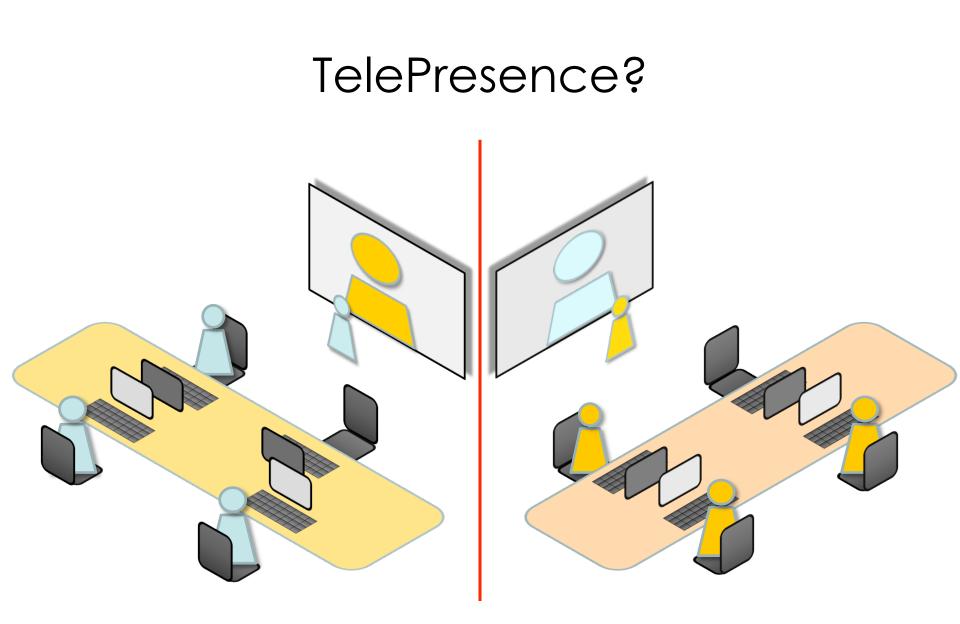
Polycom experiment



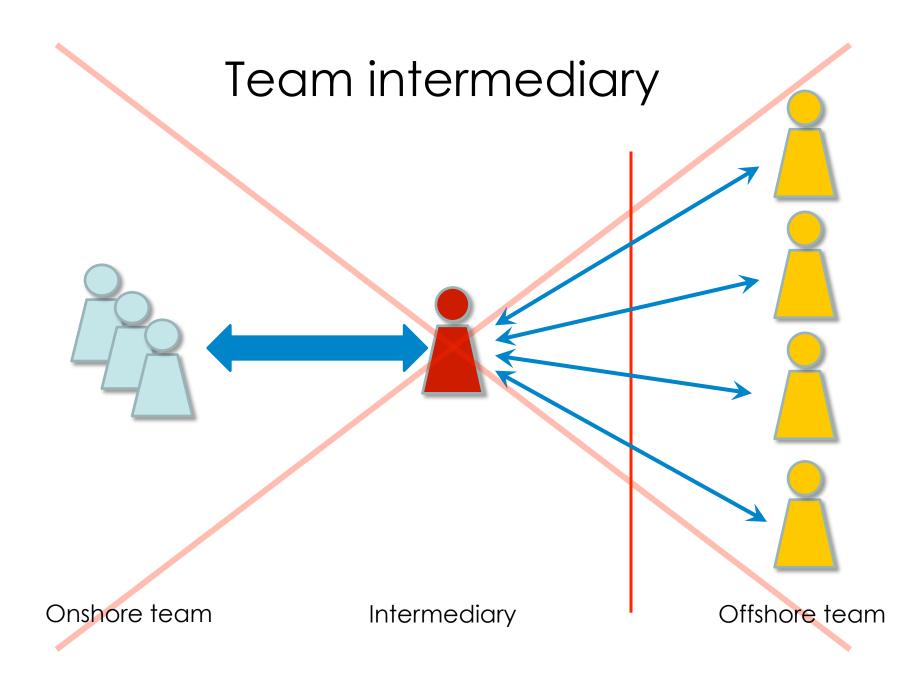


Interactive whiteboards + Skype

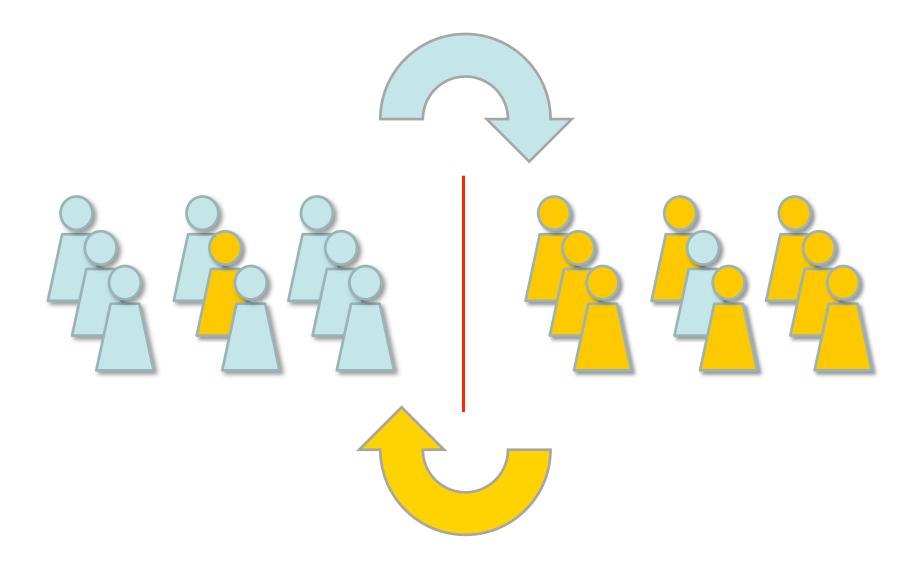




Bridging the communication gap



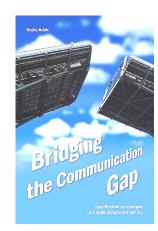
Bilateral rotation



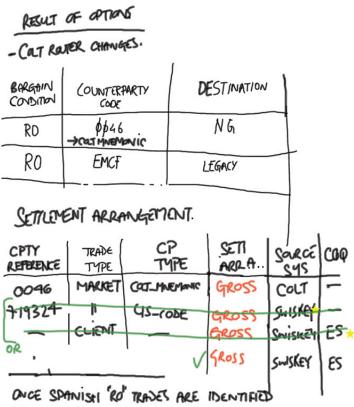
Specification by example







SBE over Smartboard



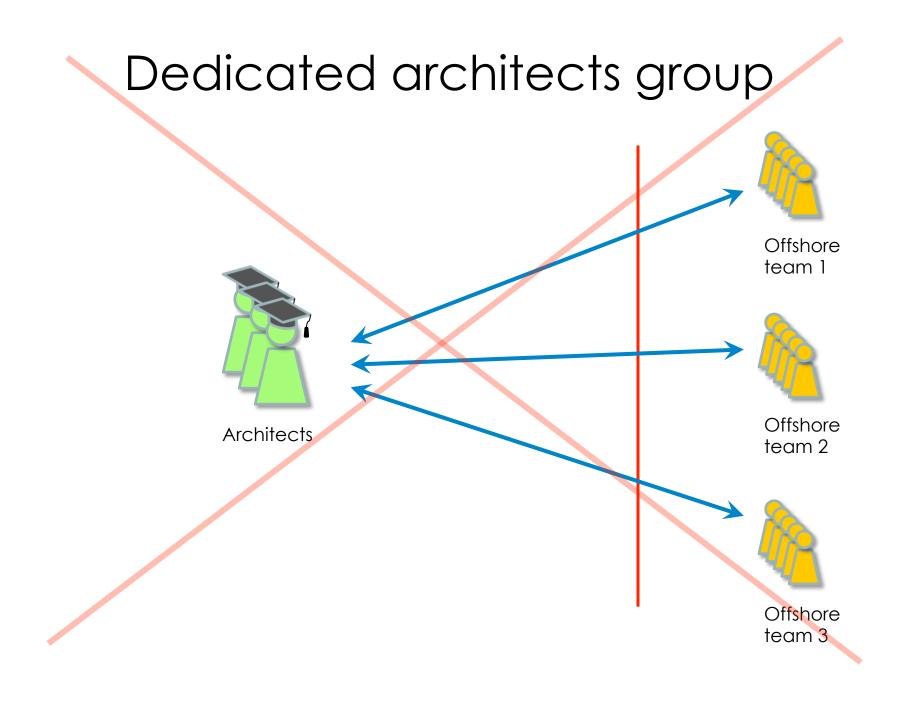
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CRS NEEDS TO

-FUNDING

- ACCOUNTING

- CASH T	RADE :	BOOK . (MBA
TRADING DIRECTION	ASSET DIRRT BOOK CCY	DiRECTION DEALT (15
BUY	No: Receive	AZ- RECEIVE
SELL	AZ: DELIVER W. BELIVER	SV: DECIVIR
Asset Difection =	RECEIVE /	DELIVER



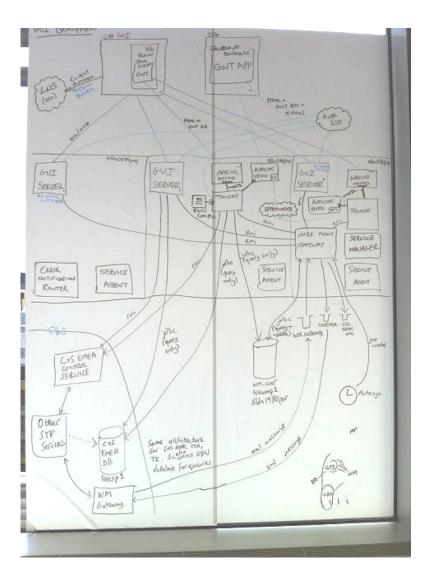
Joint architecture workshops

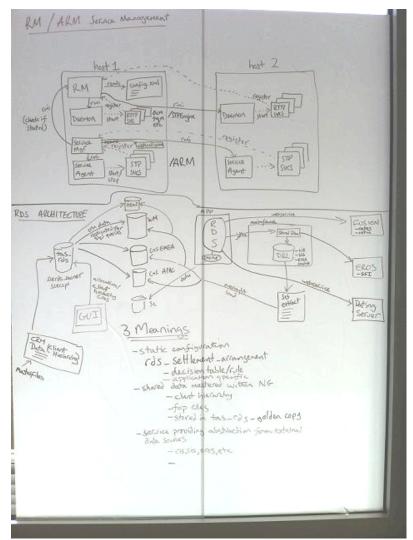




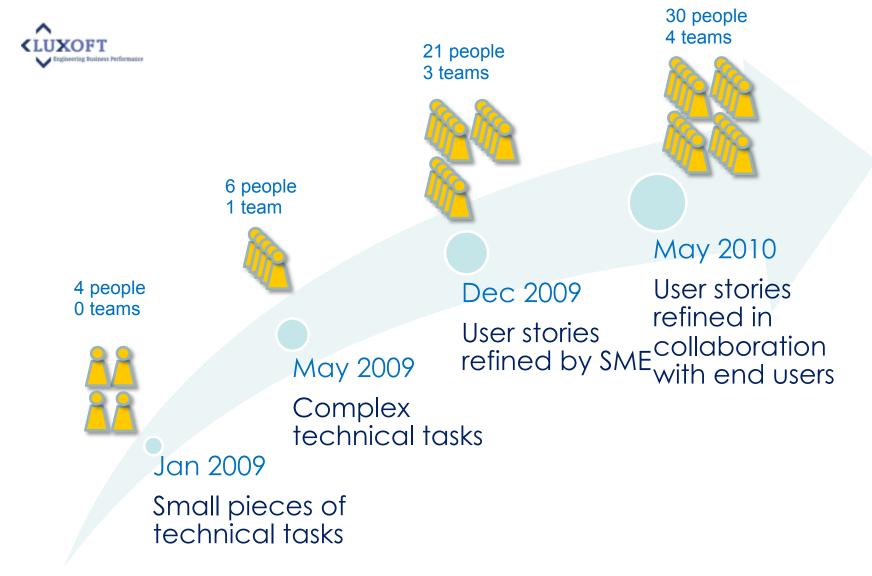


Joint architecture workshops



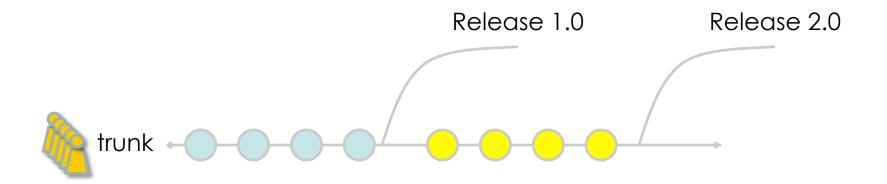


Luxoft teams evolution

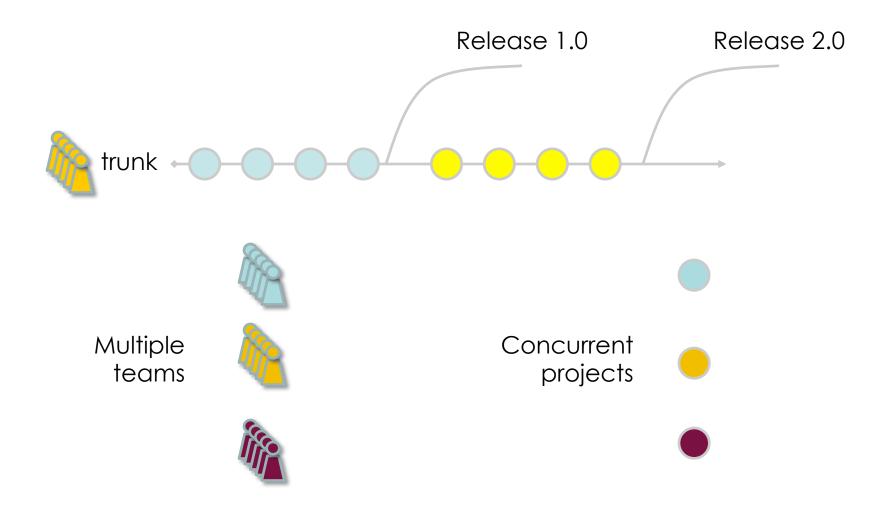


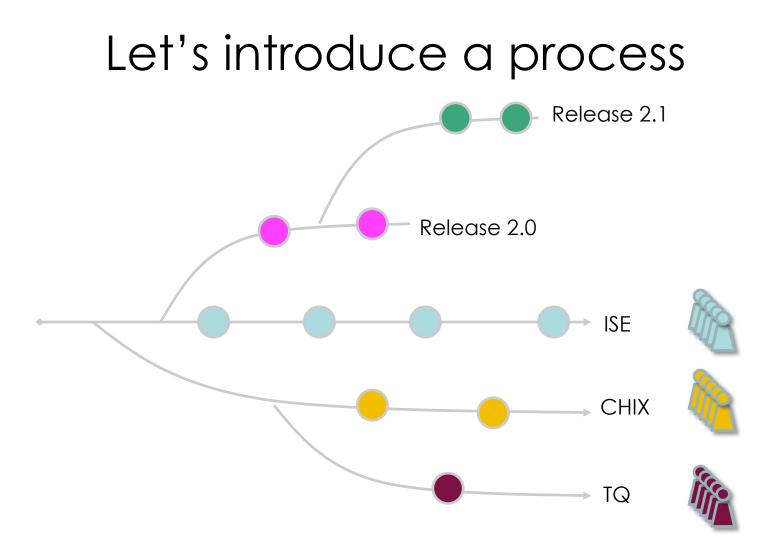
Tackling technical challenges

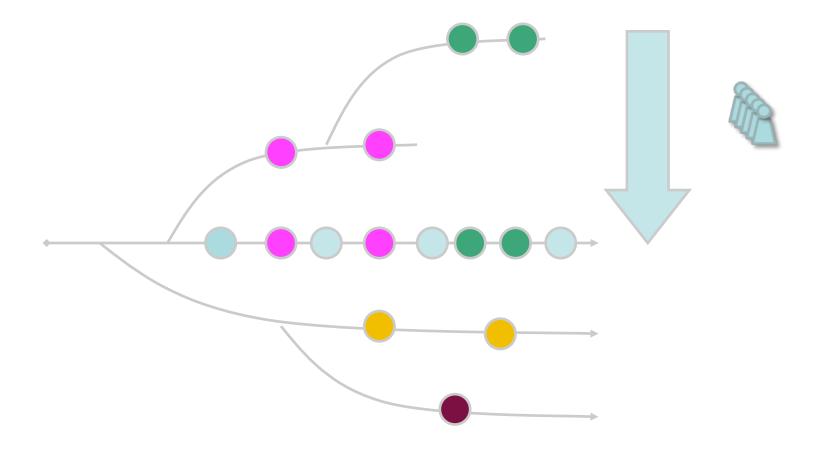
Release management

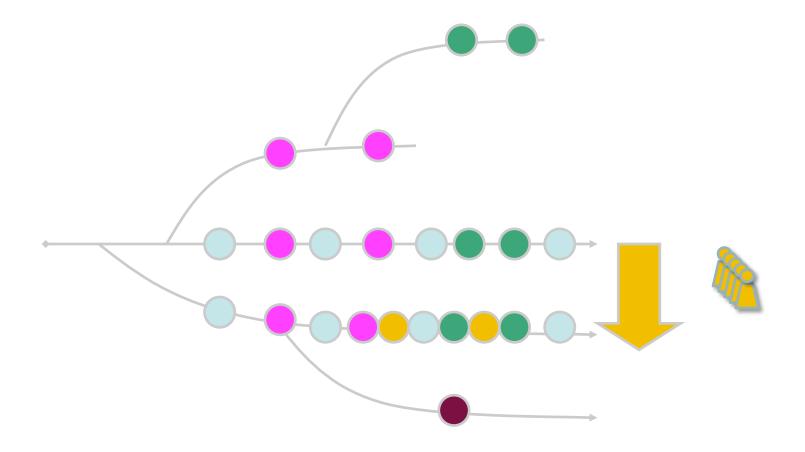


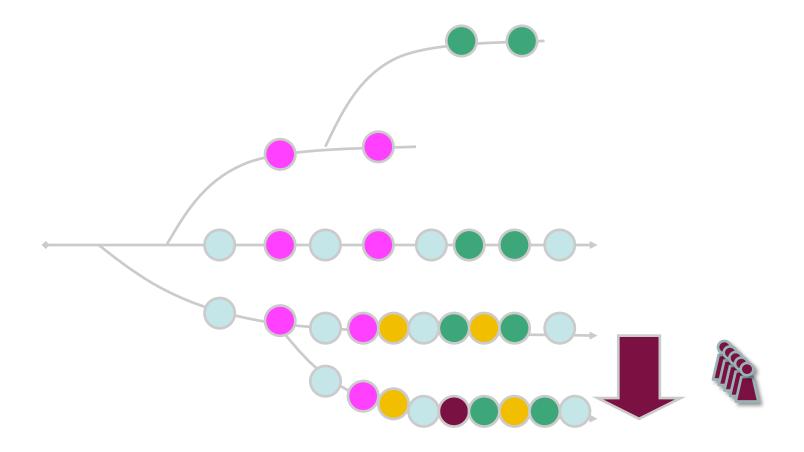
But how do you scale?

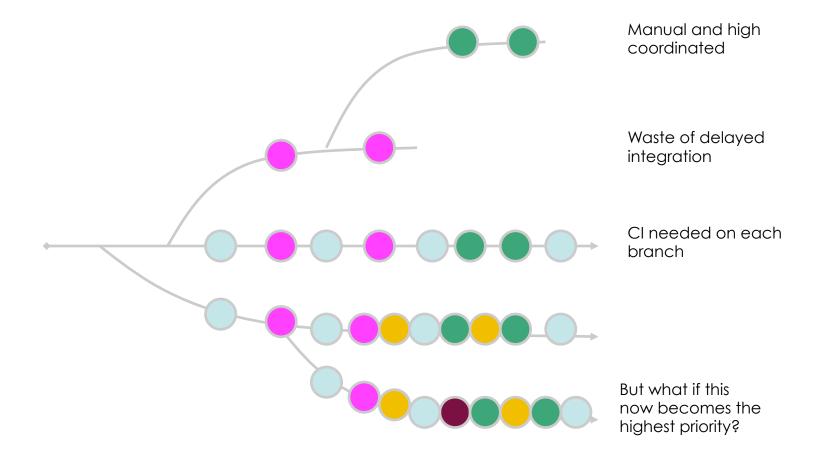


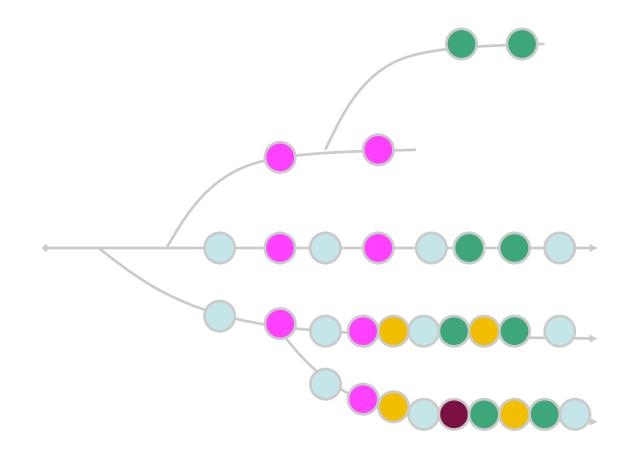






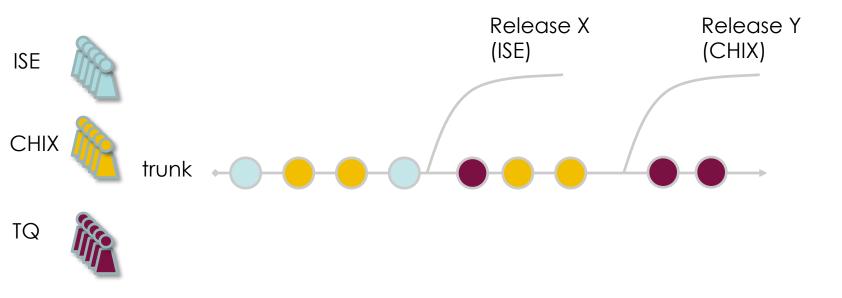




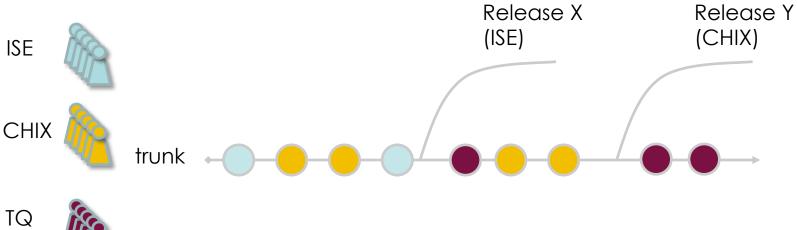


How do you address changing feature priority? How do you allow incremental feature development? How can you have an agile release function?

This is what we want

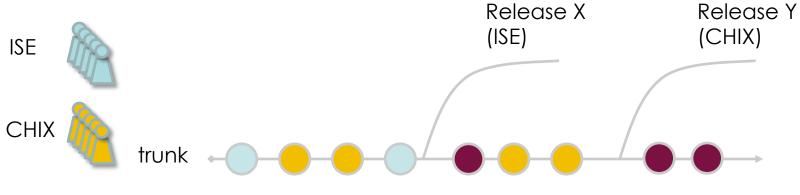


Latent Code Patterns



"One of the most powerful techniques I have used over the last three years is latent code patterns."

Latent Code Patterns



TQ

Event Driven Feature Bits or Configuration Modularity or Dependency Injection

Keeping it green



200 commits per day 1000 artefacts updated per day 1 commit every 5 minutes peak

A single bad commit ...

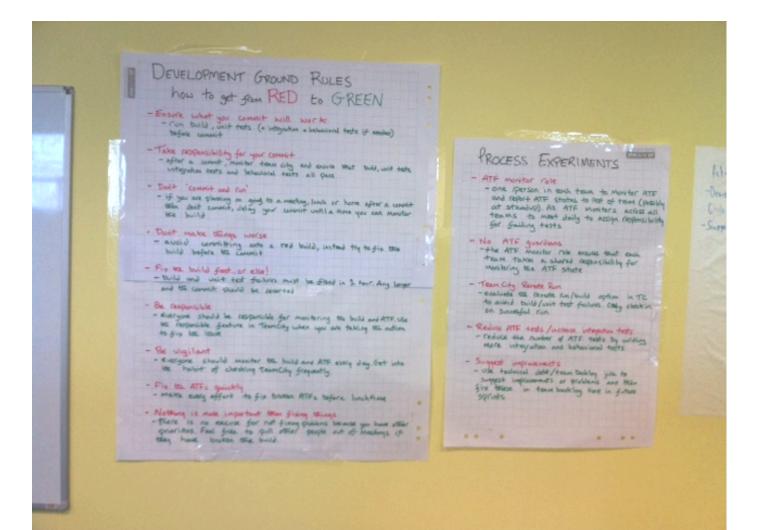


A wasted day



13 hours elapsed time wasted 500 hours of effort wasted

Coaching



Fast visible feedback

24 Build Targets



• 37 Test Targets



So how did we get here?

- Protect the team and empower them
- Go and see
- Embrace "muddling through"
- Don't accept the status quo have courage
- Follow through with change be tenacious
- Respect and trust people
- Invest in the engineering
- Stop worrying about big make it small