

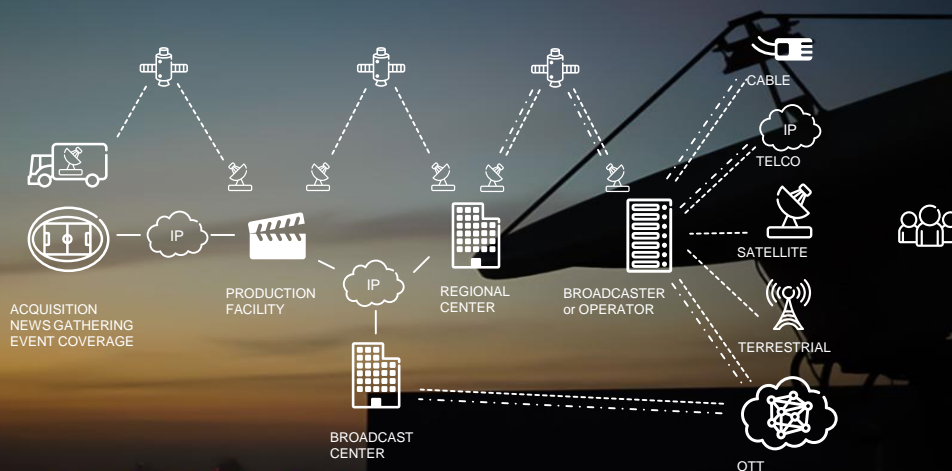


WHO AM I?

- › Daniel Laird - Head of Software
- › 15+ Years Experience
- › Started as a Software developer in Research with Philips Semiconductors
- › Joined Ericsson – Senior Software Developer
- › Became Lead Engineer – leading process changes and improving Ways of Working
- › 2016 – Became Head of Software
 - Leading us to become Agile Software Delivery company

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WHAT DO WE DO?



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WHY AGILE?

- › Large Waterfall project was due to complete 2009
 - It did not deliver on time, and the estimated delivery date kept slipping.
- › Required iterative re-work to provide the desired product:
 - Business was not ready for development model – was viewed as a failure
- › Business recognition of too much investment before any return
 - Head of Business Line – “Give me my money back!”
- › Desire from E/// Leadership to move to regular, iterative releases
 - More predictable revenues
 - Greater customer satisfaction.
 - Business acceptance of Agile working practices

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THE TRIAL PROJECT

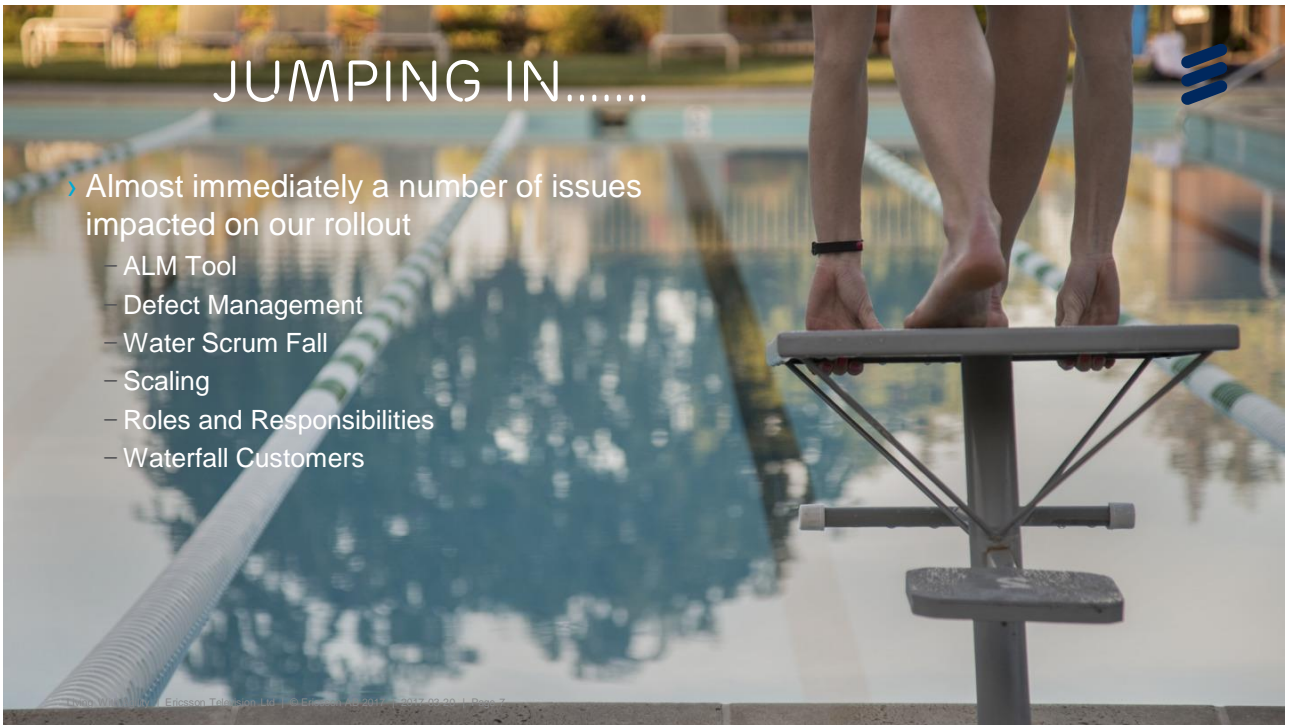
- › Small Project (~10 engineers)
- › Project Manager who believed in Agile development and SCRUM
- › Selected an ALM tool (Input from Corporate E///)
 - Outcome was Rational Team Concert (IBM)
- › Ran for over a year with positive feedback from the team and key stake holders

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THE ROLLOUT – 2012....

- › Form SCRUM teams matching the already established teams
- › Nominate SCRUM masters based on being recognized as a 'goto' person
- › Setup training course for Line Managers and SCRUM masters:
 - Theory, Expected Benefit, Pitfalls, Implementation, Terminology
- › Establish and Prioritise Backlog with Product / Project Management
- › ALM tool linking business tools with requirements and backlog

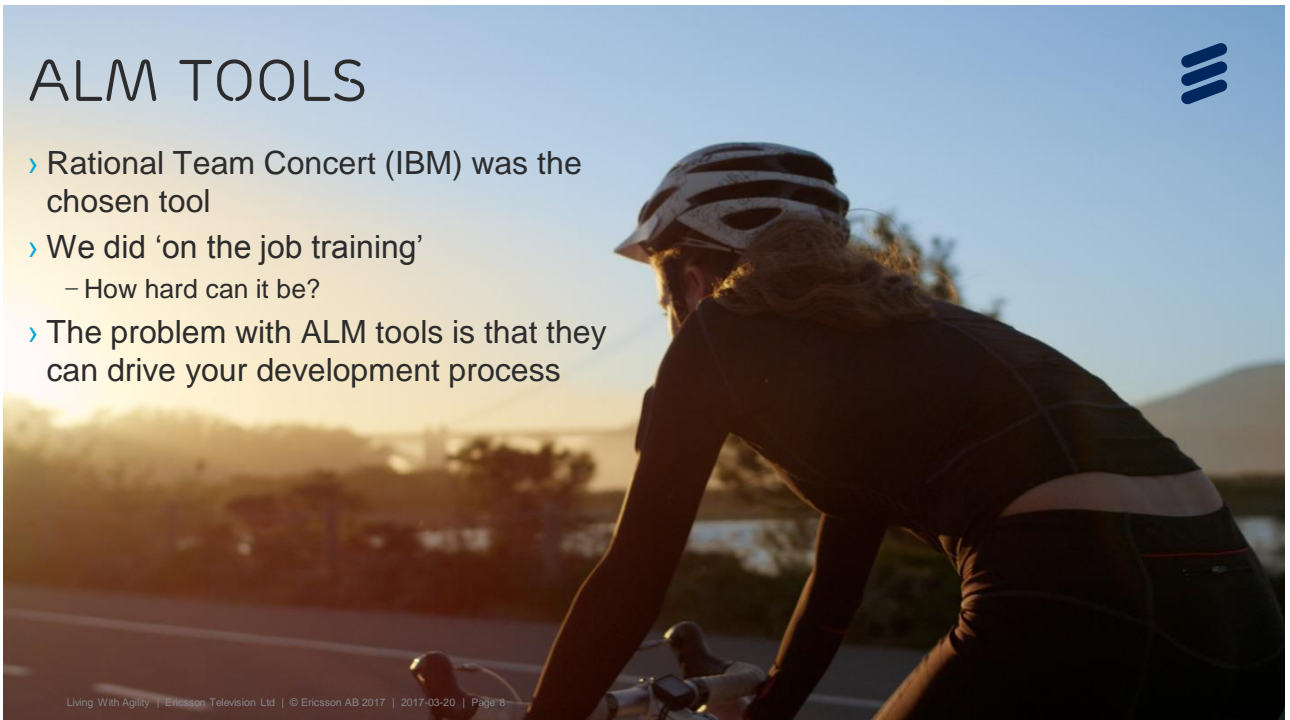
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JUMPING IN.....

- › Almost immediately a number of issues impacted on our rollout
 - ALM Tool
 - Defect Management
 - Water Scrum Fall
 - Scaling
 - Roles and Responsibilities
 - Waterfall Customers

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ALM TOOLS

- › Rational Team Concert (IBM) was the chosen tool
- › We did 'on the job training'
 - How hard can it be?
- › The problem with ALM tools is that they can drive your development process

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THE PROBLEM WITH DEFECTS...

- › Any process introduction (Agile / SCRUM) needs success to motivate the team(s)
- › Defects distract from this
- › Specifically:
 - Field defects interrupt Sprints – they undermine effort spent Sprint planning
 - Defects are hard to scope, fix and deliver.
- › Organisational Challenge:
 - Defects can lose you revenue, features create new opportunities
 - Teams focus on defects, Management focus on new business

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WATER-SCRUM-FALL

- › Individual devices only contribute part of our revenue
- › Systems (Combinations of Own/3PP Equipment) make significant contribution
- › System testing was done by domain experts, manually and after development was 'completed'
 - i.e. waterfall testing of systems
- › Defects being found late in the cycle
 - Due to commercial pressures – they have to be fixed quickly
 - Another source of sprint interrupting defects

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SCALED SCRUM

- › We had a number of larger development projects
 - 8 Component based SCRUM teams
 - ~90 people working, plus supporting staff
- › We struggled to ensure that teams were effectively 'handing-off' work
 - Minimising surprises.
- › People and Process
- › Key questions that we had to address:
 - What ceremonies should teams be using to align with other teams?

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ROLES AND RESPONSIBILITIES

- › Within the organization we still had the same Waterfall project roles:
 - Project Managers
 - Line Managers
 - Department heads
 - Program Managers
 - Product Managers

WATERFALL CUSTOMERS



- › Customers have their own acceptance tests
- › Some are days, some are months
- › This investment makes them risk averse
- › They demand commercial agreements that
 - Manage scope, budget, delivery schedules and penalty clauses
- › Unwilling to accept regular, iterative releases

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AUTOMATION



- › Whenever you speak about Agility, it moves to discussions on CI/CD Practices
- › Increasing automation and automated testing is an Engineering challenge
- › Managers (as ex-engineers) and engineers want to solve this problem
 - More than fix the process or challenge the organization
- › We have made huge progress in using CI/CD
 - but it has distracted us from challenging and fixing our development process.

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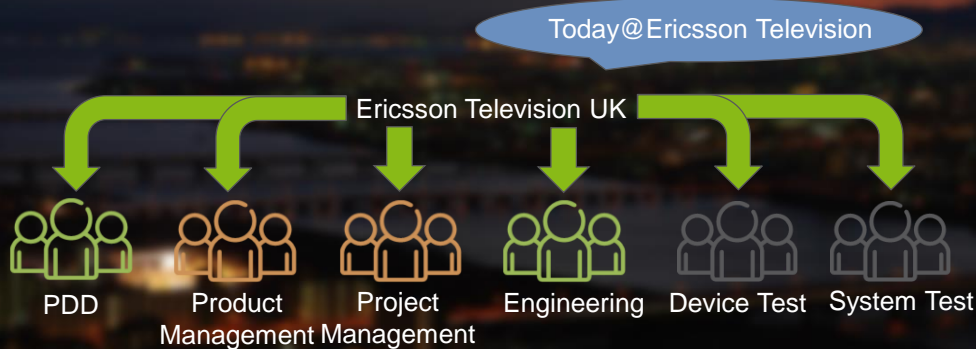
LIMITED BY THE ORGANIZATION



- › In Mid 2016 – as we began to Align our ways of working an opportunity arose
- › As always, changing organizations and roles is hard
 - Especially when viewed as successful, by a stable management team.
- › However, the market was changing fast:
 - Increasing demand for Software Solutions
- › Customers were changing (Broadcast -> IT)
 - Happier to work with Agile suppliers.
 - More demand for use of COTS Hardware
- › This change created an opportunity to drive change top down and this was taken.



AN EVOLVING ORGANISATION



EMBRACING AGILITY



- › Role of Product Owner introduced
 - Commercial facing, responsible for P&L in his investment stream
- › Embedded Test Resource, Vertical teams
- › Department heads / Line Management – ‘capability builders’
 - Focus on how we are working (our processes) and the people
 - Much less technical direction, and our role clearly expects us to empower teams



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REMAINING CHALLENGES



- › AGILE creates emotion unlike any other development process.
 - Some think its all rubbish
 - Some like the idea but don't think it works
 - Some believe and support it, but have 'flexibility' to ignore certain aspects
 - Some are purists, and if it's not perfect they try to undermine the entire process
- › Being AGILE means you have to constantly evolve and adapt, and be flexible
 - Understand your engineers and stakeholders and work out which group they are in
- › Defects, Defects, Defects
- › Continuous Integration / Delivery
- › Ensuring our customers are ready to work with an Agile organization.

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WHAT HAVE WE LEARNT?



- › It **IS** a journey
- › Your organization itself needs to become AGILE
- › You can attempt to become more agile from the 'bottom up'
 - Ultimately you will have to do top down
- › Ensure your Roles and Responsibilities are very clear
 - It will impact on the job roles for nearly everyone, apart from engineers!
- › Avoid choosing tools before documenting your processes
 - Very common in larger companies
- › Take people with you
 - Both management and engineers

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