

Balancing Risks, Innovation & Results in **'Real World' Projects**

Stephen Deighton – EMSA Head of Unit ICT and Facilities <u>Steve.Deighton@emsa.europa.eu</u> 22nd January 2010



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My 'Real World' Perspective... after 37 years of delivering 'Impossible' Projects





Innovation in a 'Real World' Project

- I inherited a strategic goal that had suddenly become urgent
 - And absolutely had to be delivered in the next year
- The same year when we had to move HQ, migrate applications from external hosting, launch new applications, etc
 - And the team I inherited was 'burnt out'!
- I chose to do it using innovative in several dimensions:
 - Architecture & underlying technology
 - Project Management & Governance
 - Teaming / Learning & Tools
- And expand the scope of the project to a 'game changer'!
- Crazy or not, we demonstrably delivered the business goal within 12 months - while moving headquarters at three weeks notice just before going live with a new application
- And the burnt out team is transforming from 'followers' to 'leaders'
 - And now have many new responsibilities and new strategic goals

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What is EMSA?

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- Founded in 2004 after 'Erika' & 'Prestige' disasters
 - Tasked with technical support to European Commission
 - Inspection of Classification Societies
 - Follow-up of 'Port State Control' (PSC) Legislation
 - Anti-Pollution Network & Protection of Marine Environment
- Now heavily focused on Development & Operation of EU's Maritime Applications including Vessel Tracking & Monitoring:
 - SafeSeaNet (SSN), CleanSeaNet (CSN), Long Range Identification & Tracking (LRIT), THETIS (new PSC Risk Profiling & Inspection Application)
- Moved from Brussels to Lisbon in 2006 temporarily at Expo
- Moved from Expo to new HQ at RdN, near Cais do Sodré, in May 2009





Agenda

Part 1: Innovation doesn't mean 'Forget the Basics' – you'll need them!

Part 2: Solution Architecture & Technology Innovation

Part 3: Project Management 'Approach' Innovation

Part 4: Teaming & Learning Innovation

Part 5: Tools Innovation

Part 6: What could you learn from all of this?



Innovation doesn't mean 'Forget the Basics'

- What does the business want?
 - What do they say they want?
 - What do they really mean?
 - What does `success' look like?
- Understand budget, resources, constraints, issues, other –probably conflicting - priorities?
- What are the risks and mitigations?







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When it really meant.... Host this!





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Complication #1: The Existing Data Centre was full







Complication #2: The new data centre room was not ready





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Complication #3: the new HQ had no `permit to use' or lease

agreement





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Complication #4: The ICT team had some unresolved issues



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Complication #5: We hoped to move by Christmas 2008...





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It had all the characteristics of a perilous journey...





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And could have ended badly





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But it didn't - all finished and working on time





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Solution Architecture Choices

Driver	Solution	Hardware	Software
Easy to Build	Virtualisation	Blade Servers + SAN	VMware, Microsoft or Oracle
Easy to Operate	Virtualisation	Blade Servers + SAN	VMware
Easy to Procure	Use DIGIT Frame Contracts	HP 7000C EMC SAN	VMware
Reliability / Availability	Virtualisation	HP Insite Manager	VMware ESX3i + HA
Scalability / Agility	Virtualisation	HP Insite Manager	VMotion & DRS
Operate & Maintain	HP Openview or IBM Tivoli	HP Insite Manager	Numara + HP Openview
Business Continuity	Virtualisation	Duplicate Configurations	Site Recovery Manager



A CONTRACTOR

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Be Explicit about Core Values

- 1. Virtuous circles not vicious circles
 - Learning Organisation
 - Teamwork & <u>Active</u> Learning
 - Try ... Learn ResultsSatisfaction ...Confidence
- 2. Clear Vision of what we are trying to achieve
 - Short, fast P-D-C-A cycles to get results and learn fast
 - When in doubt, 'safely try' rather than endlessly discuss
 - Open door & no surprises
 - Inform while there is still time to do something constructive
 - Win-win Harmony not discord <u>Fun not fear!</u>
- 3. Leverage technology / external vendors / experts
 - But don't become dependent on them
- 4. Get and Keep the Credibility & Confidence of our Users
 - Deliver Results and Service Not Promises or Excuses







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EMSA Tools Innovation

- Goals:
 - to dramatically increase efficiency and effectiveness of team *during* project
 - Using, leveraging and 'proving' the developing project itself where possible
 - 'Eat own dog food' principle
- KISS: Broadband 'tie' between our buildings
 - To enable move of HQ to be independent of Data Centre build / move
- Virtualization: 'Provisioning' of new Environments
 - Without use of VMWare tools (including P2V) we could not have delivered all environments on time
 - Operational systems
 - Internal systems
 - Migration of old Data Centre from Expo to new HQ at RdN
- PRTG Monitoring tools
 - Quick and not-so-dirty monitoring of internal and external systems while waiting for Openview to be delivered
- Camtasia 'on-screen' recording and Wiki Team Repository
 - to speed 'learning and sharing' while avoiding writing lots of documentation
- Remote Access
 - Use of Citrix 'GotoMyPC' while waiting for Remote Access VPN to be designed and built

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THE 'PROOF OF THE PUDDING...' PRINCIPLE:

WHAT WE ACTUALLY ACHIEVED AND THE <u>LEVERAGE</u> IT GAVE US FOR WHAT WE'RE DOING NOW



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We built that state-of-the art data centre







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... and it has been "in Production" for 8 months, hosting the EMSA Maritime Applications







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And now we're busy with an equally big innovation in 'Enterprise Architecture'...



Firewalls, Proxies, WAN Links, Backup & Monitoring Systems







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Thank you for your attention Now for your questions

and in the words of an old friend of my family...

I'm all Ears...

