

Introducing the Scrum Framework as part of the Development Strategy for the Alba Control System

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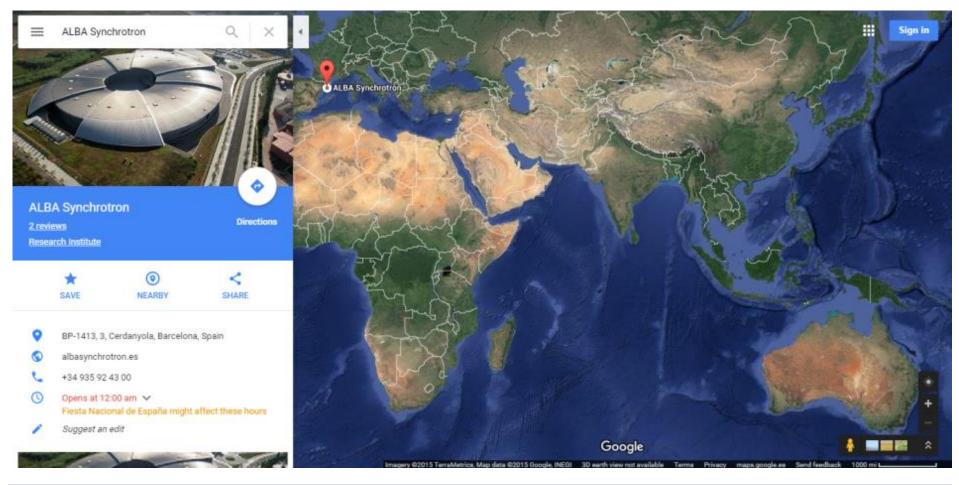
(Alba Synchrotron, Spain)



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3rdgen. Synchrotron Light Facility Located in Spain

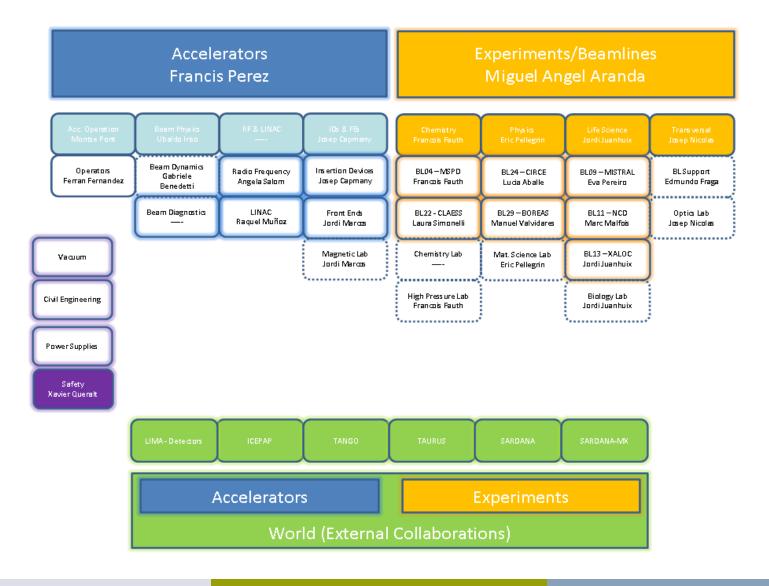


Commissioned 2012, 7BLs, phase-II (2 construction)

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Controls Developments



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SW development during Construction and Installation

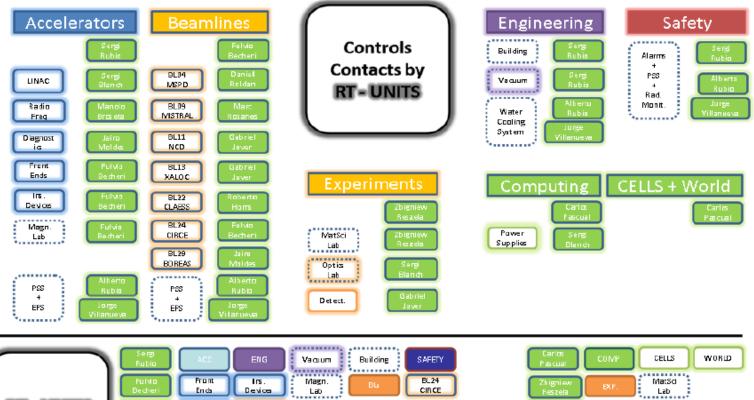
- Controls group size progressively growing (up to 16 people)
- Projects for accelerators, beamlines and labs
- Projects for transversal subsystems
- Wide range of disciplines
- Common tools, and technologies
- Internal libraries and frameworks
- International Collaborations

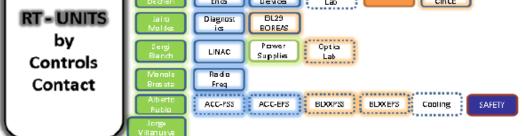
- Single-developer projects
- Single support group showed important competitive advantadges
- Fit activities based on critical path of the whole installation

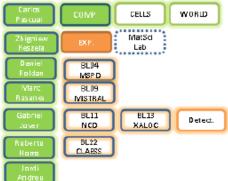
SW development during Early Operation

- Appears service demand
 - RT system with service, unit, priority
- Maintenance days and shutdown
 - Deploy and commission activities in very restrictive time slots
 - Associated tasks gain priority over new developments
- Bugs and defects, new requests, changes
 - Each developer becomes Service Owner
 - Deep knowledge can not be spread

Controls Contacts – RT's Units







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Spreading the knowledge

- Single developer approach:
 - bottlenecks
 - conflict of priorities (stress)
 - Stuck in his/her own projects
- What if a developer leaves?
- Newcomer learning
 curve

- 24/7 support requires transfer of knowledge
- Regular meetings to share new functionalities
- Team knows highlights but not insights
- Brainstorming sessions

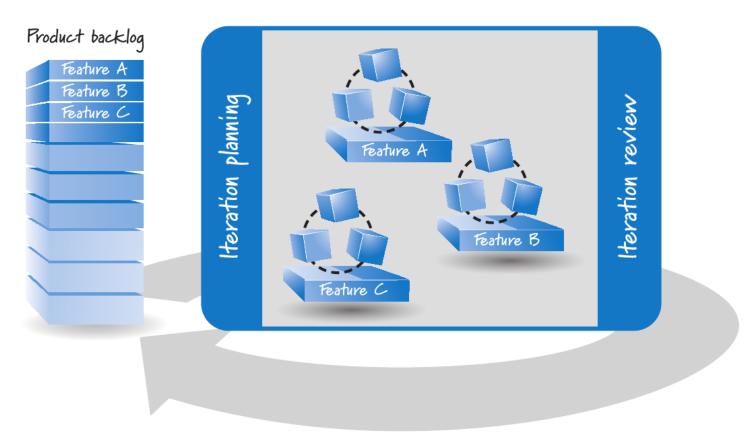
Controls Meeting (weekly)



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Iteration (1 week to 1 calendar month)

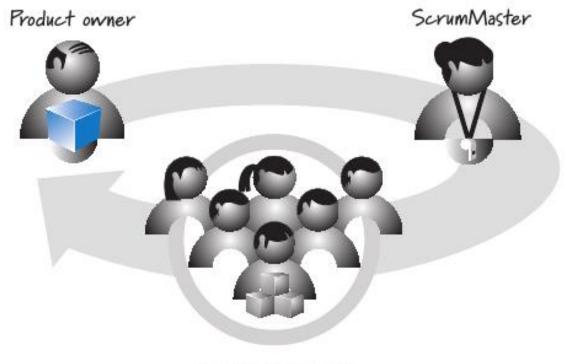
Images from: "Essential Scrum" by Kenneth S. Rubin

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Scrum team

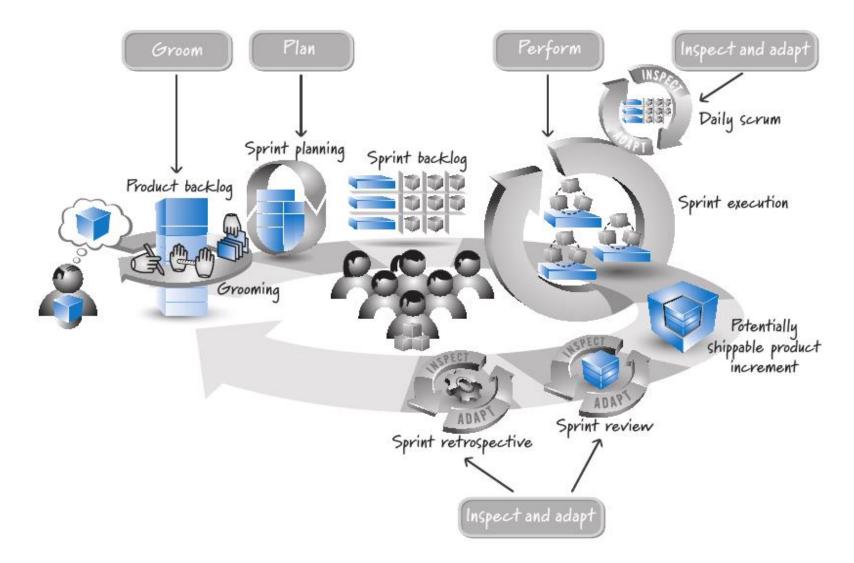


Development team

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The Scrum Events & Artifacts



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October 19th, 2015

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Embracing Scrum

- End 2013: Three individual projects required internal boost
- Begin 2014: Exercice to evaluate if Scrum would help in organization, execution and coordination activities
- Benefits detected:
 - enforced communication
 - implicit collaboration tasks
 - Teams' discussions lead to better designs
 - Incremental and interative approach mitiagated the cost of change
- Some recommendations:
 - Team size of 4-6 members
 - Two-week sprint length seems good choice
 - 60% in development, 40% in support

Creating the Scrum Teams

- Incrementally change the group organization
- Scrum Master and Product Owner roles assigned first: sharing common vision
- Customers informed about the change
- Mid-2014 beamline controls
- Few sprints later, generic software developments
- End-2014 transversal protection systems
- Beginning-2015 accelerator developments

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				Story	New	Assigned	Work In progress	Blocked	Test Pending	Test Fallure	Resolved	Closed	Rejected
- Sprint33	2015-08-31 2015-09-13 8	8 - R		rint diments									
9138 CT Beam Floor Goordinator's Training	Resolved 2.0	.0	Imped	dimenta									
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4706 BL22-CL/ Implement the Hythen Configuration			Release6	Simpanh Contraction							interestingen		
4321 BL04-MS Implement-monitor counting per-position in Hythen-experiments		4.0 0924	BL22-CU Implement solution for the Amptek	1.0							Roberto J Daniel Ro		
3003 BL22-CL/ QUIARS-FV (Rusrescence vield continuous scenning mode)	Resolved 4.0	4.0 0001	BL24-CIF NAPP Test Prodigy application								Design, Instants		
4757 CT Beam SP1-Scrum Coordination	New	8696	CT Beam Good Practices								Fulvio Be Jondi And		
Sprint2	2014-06-02 2014-06-13		Product Backlog										
4881 BL22-CL/ Clone BL22 in the Lab with TangoB	Resolved 4.0	1.0	Product Backlog								Sand And Kovo Se		
4988 BL22-CL/ Install Tango0 all machine except bl2202	Resolved 4.0		CT Beam ICEPAP: Firmware tests	30 hours) 7111 m Coordination	7110 7113 Sprint Sprint Refrages								
4997 BL22-CL/install longe0 in Hi2292			CT Beam ICEPAP: Review and Update Icepap software		NAK CED PARK CED								
4877 BL11-NCIPSHU widget			BL04-MS Create Watlow DS (ModBus)		7114 7113 Sprint								
4882 CT Beam SP2-Serum Coordination	Resolved		BL04-MS (DL 7 Jul): Oxford CryoStream 600 DS (part2)		Neetings								
			BL11-NC Upgrade Lima Rayonix HS plugin BL11-NC Upgrade Lima Rayonix HS plugin		y 1121 Sprint								
Sprint3	2014-06-16 2014-06-27		BL11-NC Upgrade PyFAI on linux and windows workstations		WALLED								
4735 BL11-NCISAXS and WAXS experimental channel	New 4.0		BL11-NC Upgrade ADSC Lima Plugin					New 4					
5034 BL24-CIFNAPP TANGO	Closed 4.0	4.0	BL11-NC Detector Image visualization integrated in billExpGUI BL11-NC Integrate NCD GAV					New 4.	-				
5035 BL24-CIFPEEM-PCO workaround	New 4.0	4.0	BL11-NC Fix ImXPad specific plugin and revisit the specific test suite					New 2.					
5076 CT Beam SP3 Scrum Coordination	New		BL11-NC Integrate TopUp time in ExpGUI					New 1.	_				
Sprint4	2014-06-30 2014-07-11		BL11-NC Save calibrated TFG channel values in trg macros					New 2.					
			BL11-NC New Cold Cathode gauge					New 2.					
5137 BL11-NCI SAXS and WAXS experimental channel			2 BL11-NC Lima 1Dradial integration post-processing					New 4.	-				
3019 BL22-CL/ Prepare the Ampteic & Ni660 for the commissioning			BL13-XAI Integrate a Julabo (temperature controller) equipment.					New 2	-				
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			BL04-MS Integrate new Monitor Channel in the Macros.										
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Introducing the Scrum Framework... (MOD3O04)

ICALEPCS2015 - Melbourne

October 19th, 2015

Close

Reviews and Retrospectives

- Focus on "Given Value" helps focus

 Review items with P.O. as soon as ready
- Great opportunity to talk about our internal use of Scrum
 - Daily meetings are useful
 - Software development skills and tools
- Keep track of the products' increments
 Based in short-term milestones
 - All the team gets updated (knowledge)



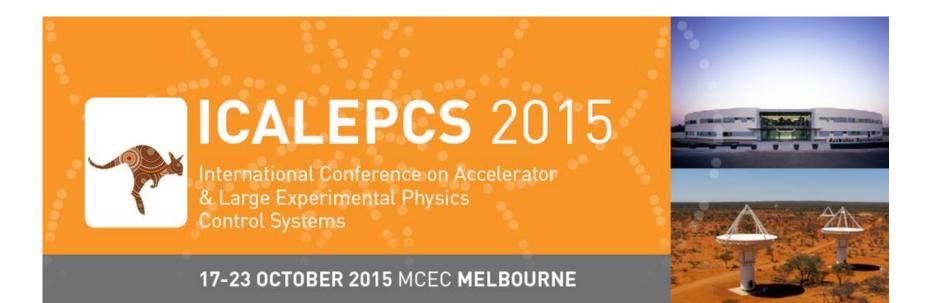
- SM Training
- Resistance to change
- Grooming
- Definition of Done discussions
- Planning (say no)
- Technical Debt
- Team Building
- Individual projects (prototypes/research)

- Explore:
 - ScrumBan and KanBan
 - Serialize Epic
 Stories
 - Communities of practice

Still in transformation phase, and happy with the results



Thank you!



Introducing the Scrum Framework... (MOD3O04)

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