

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

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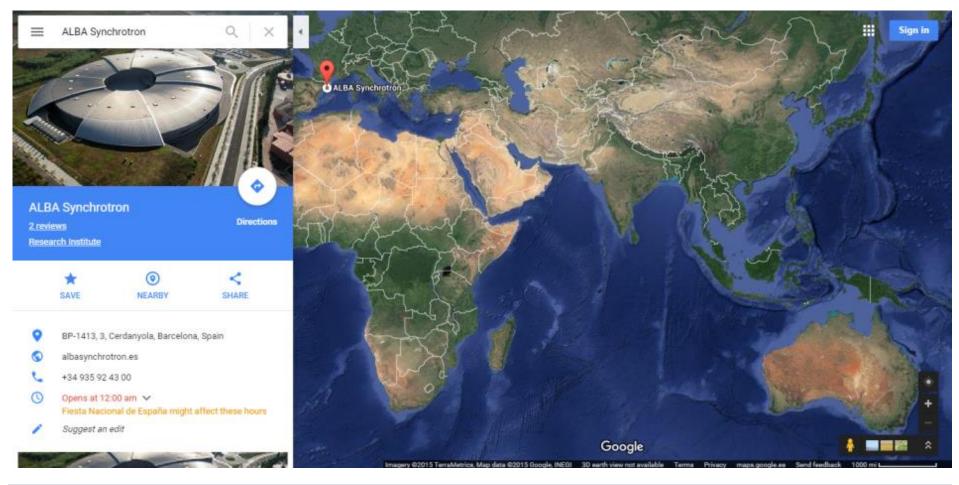
(Alba Synchrotron, Spain)



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#### **3<sup>rd</sup>gen. Synchrotron Light Facility Located in Spain**

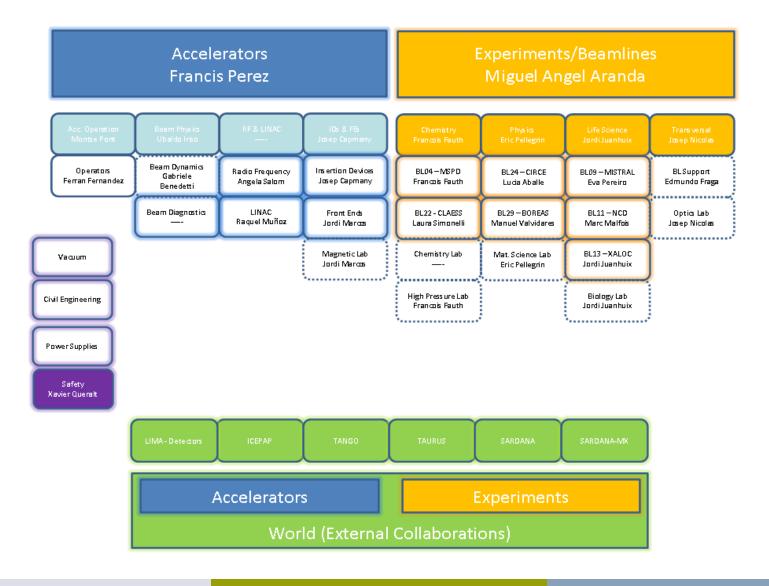


#### Commissioned 2012, 7BLs, phase-II (2 construction)

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### Controls Developments



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#### SW development during Construction and Installation

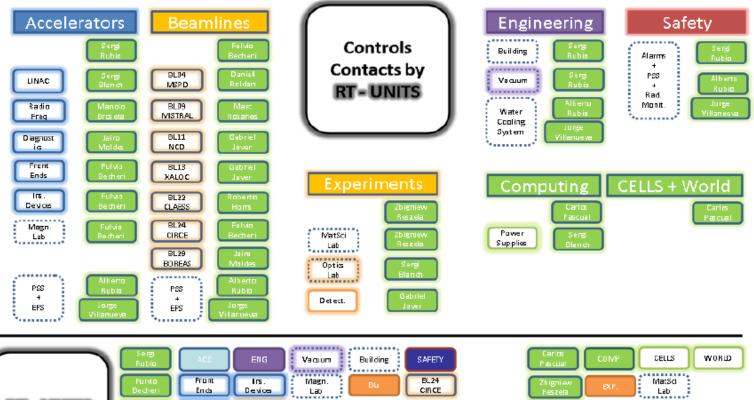
- Controls group size progressively growing (up to 16 people)
- Projects for accelerators, beamlines and labs
- Projects for transversal subsystems
- Wide range of disciplines
- Common tools, and technologies
- Internal libraries and frameworks
- International Collaborations

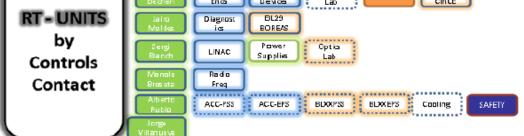
- Single-developer projects
- Single support group showed important competitive advantadges
- Fit activities based on critical path of the whole installation

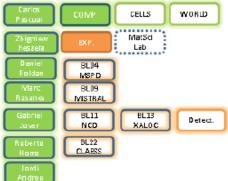
# SW development during Early Operation

- 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

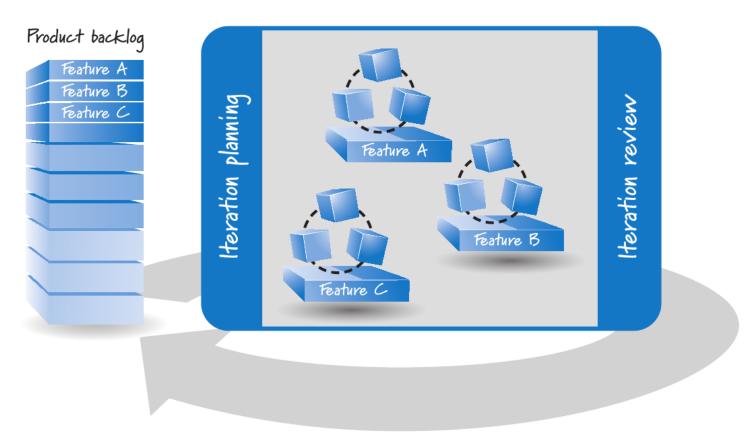
### **Controls Meeting (weekly)**



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Iteration (1 week to 1 calendar month)

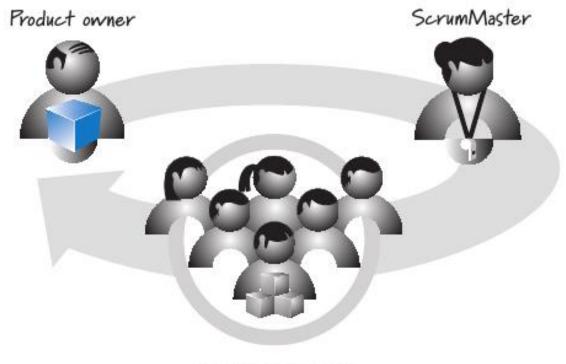
#### Images from: "Essential Scrum" by Kenneth S. Rubin

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Scrum team

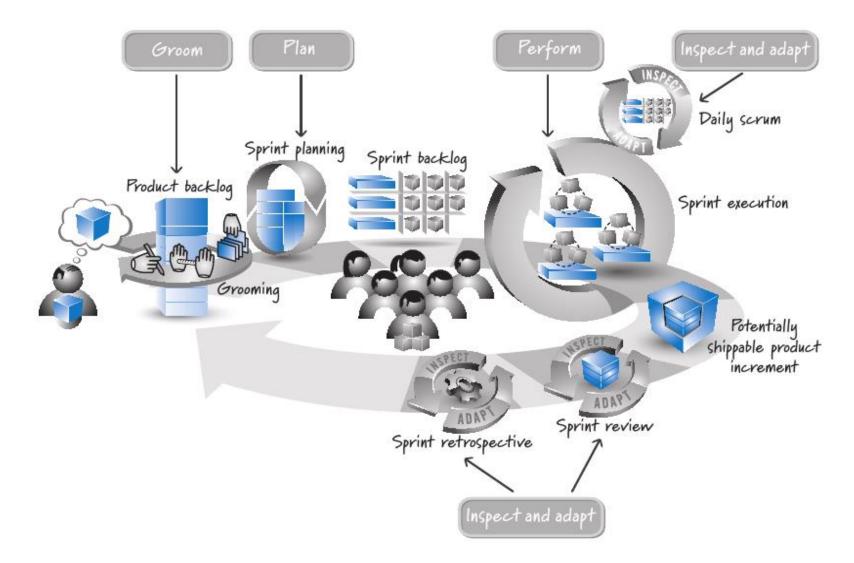


Development team

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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									
6003 BL11-NC (TW 14-23 Sep)(DL 10 Sep) SAX detector table integration.	Resolved 2.0			19 hours) 6554				7072 7069			7229 7070		
BL13-XAI Add stripes colculation to Ealign pseudomotor.	Resolved 2.0	.0 × R	Release2	er filt GARD				Implymer Setup of communi			<b>=</b>		
9157 BL24-CIF PCD test new release	New 2.0		81225	SUASS 2.0				Rober CTO Public CTO 2021			Roberto J Roberto J		
8087 CT Beam Scrum Coordination	New	~ R	Release3					Beaugen product					
		=						Rober					
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9201 BL13-XAI Getting Falcon images through events	New 2.0	.0	I MARKA AND AND AND AND AND AND AND AND AND AN										
9338 CT Beam Scrum Coordination	New	- R	Release5	La Hours) + 523	Siss backage				Somple		Contract of the local division of the local		
Sprint1	2014-05-19 2014-06-02			-MSPD C 2.0	em9				Darieta		Daniel Rc		
•		_	Svoter	(B hours) 6775							73081 71971		
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/ <del>Clone BL22 in the Lab with TangoB</del>	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	-				
3020 BL22-CL/eliwats in fluorescent mode			BL13-XAI Automatic 3D rastering					New 4.	0				
S108 BL24-CIF PEEH: XMCB and XMLB save preview           S183         BL04-MS Gecan Optics D5         Windows	Resolved 2.0	3071	BL22-CLI QEXAPS with online data collection						-				
5273 CT Beam <del>SP4 Serum Coordination</del>	Resolved 2.0	5774	BL22-CLJ Investigation of Continuous scan with different regions	Charts									×
32/3 Cristan are soldin containation	nuarrea		BL22-CU Continuous scan with different regions Pmac trigger by position										
Sprint5	2014-07-11 2014-07-25	3670	BL22-CU 2nd crystal pitch correction in the energy step scan	print									<u> </u>
5344 BLD4-MS Ocean Optics DS - Source Code	New 1.0	1.0 8762	2 CTLIma Investigate Lima Transient Corba errors		120							- 14	
			BL04-MS Integrate new Monitor Channel in the Macros.										
5184 BL13-XAI Mesh Scon Widget		2.0 8094	but the method of the month of the matter.										
3184         BL13-XAI Mesh Scon Widget           45327         BL04-M5 Property pockage Eurotherm2408-045	Resolved 2.0		BL04-MS Provide Pressure calibration Control									- 12	
	Resolved 2.0 Resolved 1.0 Resolved 2.0	1.0 0508 2.0 0902	BL04-MS Provide Pressure calibration Control BL04-MS Resolve Pfcu DS communication problems	-	100 -							- 12	
4337 BLD4-MS Property package Eurotherm2400-05	Resolved 2.0 Resolved 1.0 Resolved 2.0	1.0 0508 2.0 0902	BL04-MS Provide Pressure calibration Control	-	100 -							- 12	
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331         NL0-HS Migranhy parkage-foundhimm2440-061           331         RL0-HS Migranhy parkage-foundhimm2440-061           331         RL0-HS Migranhy avoider parameter           331         RL0-HS Migranhy avoider parameter           331         RL0-HS Migranhy avoider parameter           3341         RL0-HS Migranhy avoider parameter           3341         RL0-HS Migranhy avoider parameter           3341         RL0-HS Migranhy avoider parameter           3361         RL0-CL (Junger) Exception of Bit readings in Bitery readings in the separameter           3361         RL0-CL (Junger) Exception of Bit readings in the separameter           3361         RL0-CL (Junger) Exception of Biter control in parkem	Resource         2.1           Resource         1.1           Resource         2.1           Resource         2.1           Biocode         2.1           New         1.1           Resource         2.1	1.0         0568           2.0         0902           2.0         8048           2.0         0556           1.0         4499           2.0         8038		bours	80 -							- 12 - 10 - 8	
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4331         BLA-145: Property extended framework/846-69           4331         BLA-145: Intel State of Sta	Resource 2.2 Resource 2.2 Resource 2.2 Resource 2.2 Bucked 2.4 Rear 1.2 Rear 2.2 Rear 3.2 Rear 3.2 Re3.2 Rear 3	1.0         0508           2.0         6902           2.0         8048           2.0         0550           1.0         4499           2.0         8038           44734         4978           6223         6090           2.0         4090	BAHME Provide Provide Treasure californito Control           BAHME Resolute Treasure Californities           BAHME Resolute Treasure Californities           BAHME Resolute Treasure Californities           BAHME Resolution Provide Star Mindows 7           BAHME Resolution Provide Star Mindows 7           BAHME Resolution           BAHME Resolution Provide Star Mindows 7           BAHME Resolution           BAHME Resolution Provide Star Mindows 7	hours	80 - 60 -							- 12 - 10 - 8 - 6 - 4	
4331     BL0-HS Preparing serings-flumible-marginates in degress, malgale Im/ls.       4331     BL0-HS Series-Education-MARD-BS Integrates in degress, malgale Im/ls.       331     BL0-HS Series-Education-MARD-BS Integrates in degress, malgale Im/ls.       3341     BL0-HS Series-Education of HS readings and Bercy readings in the experiment.       3361     BL0-HS MarD-BS Series-Education of HS readings and Bercy readings in the experiment.       3361     BL0-HS MarD-BS Series-Education of HS readings and the source control system.       3381     CT Rem SP-Source Coordination.       3391     BL2-SU/Load mythem conduction from a Re.       3391     BL3-SU/Load mythem conduction from a Re.	Resolved         1.1           Resolved         1.1           Resolved         1.1           Resolved         2.1           Bacolved         2.1           Resolved         2.1	1.0         6568           2.0         6902           2.0         8048           2.0         6356           1.0         4499           2.0         8038           4734         4878           6223         6090           2.0         4090           2.0         4090		hours	80 60 40							- 12 - 10 - 8 - 6 - 4	
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4331       BLAH-155 Property-particular distribution-MARK-BR         4331       BLAH-155 Marketower-flowedshom-MARK-BR         331       BLAH-155 Marketower-flowedshom-MARK-BR         331       BLAH-155 Marketower-flowedshom-MARK-BR         331       BLAH-155 Marketower-flowedshom-MARK-BR         331       BLAH-155 Marketower-flowedshom-MARK-BR         3361       BLAH-2017 Marketower-marketower         3371       BLAH-402 Marketower-marketower         3372       BLAH-402 Marketower-marketower         3373       BLAH-402 Marketower-marketower	Resolved         1.1           Resolved         1.2           Resolved         1.2           Resolved         2.1           Resolved         2.1 <th>1.0         0508           2.0         0902           2.0         8048           2.0         0536           1.0         4499           2.0         8038           4734         4878           0223         2.0           4.0         6802           4.0         6802           4.0         7311           4.734         7311</th> <th>BA-MM Provide Provide Transac california Control           BA-MM StateW Fibe D Screamministic profilemen           BA-MM StateW Fibe D Screamministic profilemen           BA-MM StateW Fibe D Screamministic profilemen           BA-MM StateW Fibe D Screamministic D W Windows 7           BA-MM StateW Fibe D Screamministic D W Windows 7           BA-MM StateW Fibe D Screamministic D W Windows 7           BA-MM StateW Fibe D Scream Scr</th> <td>hours</td> <td>50 60 40 20</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td>- 12 - 10 - 8 - 6 - 6 - 4 - 2 - 0</td> <td></td>	1.0         0508           2.0         0902           2.0         8048           2.0         0536           1.0         4499           2.0         8038           4734         4878           0223         2.0           4.0         6802           4.0         6802           4.0         7311           4.734         7311	BA-MM Provide Provide Transac california Control           BA-MM StateW Fibe D Screamministic profilemen           BA-MM StateW Fibe D Screamministic profilemen           BA-MM StateW Fibe D Screamministic profilemen           BA-MM StateW Fibe D Screamministic D W Windows 7           BA-MM StateW Fibe D Screamministic D W Windows 7           BA-MM StateW Fibe D Screamministic D W Windows 7           BA-MM StateW Fibe D Scream Scr	hours	50 60 40 20					•		- 12 - 10 - 8 - 6 - 6 - 4 - 2 - 0	
4331       BLAH-155 Property-particular distribution-MARK-BR         4331       BLAH-155 Marketower-flowedshom-MARK-BR         331       BLAH-155 Marketower-flowedshom-MARK-BR         331       BLAH-155 Marketower-flowedshom-MARK-BR         331       BLAH-155 Marketower-flowedshom-MARK-BR         331       BLAH-155 Marketower-flowedshom-MARK-BR         3361       BLAH-2017 Marketower-marketower         3371       BLAH-402 Marketower-marketower         3372       BLAH-402 Marketower-marketower         3373       BLAH-402 Marketower-marketower	Resource         2.1           Resource         1.1           Resource         2.1           Resource         2.1           Backet         2.1           Backet         2.1           Resource         3.1           Resource         4.1           Resource         4.1	1.0         6568           2.0         6902           2.0         8948           2.0         6558           1.0         4499           2.0         8038           4734         4678           4.0         6902           2.0         6082           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         6982           4.0         7311           4737         6883	BAH-ME Provide Provide Contention Content           BAH-ME Rescule PRo DD communication problems           BAH-ME Rescule PRo DD for Windows 7           BAH-ME Rescule PRO DD for Windows 7           BAH-ME Rescule Rescule In the 80-           BAH-ME Conceller Internation	hours		naining hours	23	24	27	29	31	- 12 - 10 - 5 - 6 - 4 - 2 - 0	
4331       BLA-HS: Neglecty-setucted fourthalmobild/bit Entrypolated in degrees, webgets m/k,         4331       BLA-HS: Neglecty-setucted fourthalmobild/bit Entrypolated in degrees, webgets m/k,         331       BLA-HS: Neglecty-setucted fourthalmobild/bit Entrypolated in the degrees, webgets m/k,         331       BLA-HS: Neglecty webgets growthate         331       BLA-CETMADY: http://doi.org/10.1000/000000000000000000000000000000	Resolved         1.1           Resolved         1.2           Resolved         1.2           Resolved         2.1           Resolved         2.1 <th>1.0         6568           2.0         6902           2.0         8948           2.0         6568           1.0         4499           2.0         8038           4734         4878           0         6902           2.0         6038           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.1         4737           6803         4293</th> <th>BA-M-M Provide Provide Treasure california Control           BA-M-M Recover Pace D Communication Control           BA-M-M Recover Pace D Communication Pathone           BA-M-M Recover Pace D Communication Pace Pace Pace Pace Pace Pace Pace Pace</th> <td>hours</td> <td></td> <td>maining hours</td> <td>14 22 14 23</td> <td>Jul 24</td> <td>Jul 27</td> <td></td> <td>201.30</td> <td>- 12 - 10 - 6 - 6 - 4 - 2 - 0</td> <td></td>	1.0         6568           2.0         6902           2.0         8948           2.0         6568           1.0         4499           2.0         8038           4734         4878           0         6902           2.0         6038           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.0         6992           4.1         4737           6803         4293	BA-M-M Provide Provide Treasure california Control           BA-M-M Recover Pace D Communication Control           BA-M-M Recover Pace D Communication Pathone           BA-M-M Recover Pace D Communication Pace Pace Pace Pace Pace Pace Pace Pace	hours		maining hours	14 22 14 23	Jul 24	Jul 27		201.30	- 12 - 10 - 6 - 6 - 4 - 2 - 0	
But-945 regeting extension-MARMA 99     But-945 regeting extension-MARMA 99     But-945 Resetterminal Address 40 Address and Agricets, an	Resource         2.1           Resource         3.1           Resource         2.1	1.0         6568           2.0         6962           2.0         8048           2.0         6058           1.0         4493           2.0         6038           4778         6223           2.0         6092           2.0         6092           4.0         6692           4.0         6692           4.0         6692           4.0         6692           4.0         6692           4.0         6692           4.0         6692           4.0         6692           4.0         6692           4.0         6692           4.0         6692           4.0         6692           4.0         6693           4.0         6693           4.0         5941	BAM-MB Provide Provide Treatment Control           BAM-MB Readwork Provide Provide Set Control           BAM-MB Readwork PLD Communication profilement           BAM-MB Readwork PLD Comparison Set Comparison           BAM-MB Readwork PLD Readwork	hours		naining hours	w Jul 22 t Jul 23		m Jul 27 t Jul 28			- 12 - 10 - 8 - 6 - 4 - 2 - 0	
4319       Biol-1415 Ingelone participation frammal-biol-Biol         4321       Biol-1415 Ingelone participation         4331       Biol-1415 Ingelone participation         3311       Biol-1415 Ingelone participation         3312       Biol-1415 Ingelone participation         3313       Biol-1415 Ingelone participation         3314       Biol-1415 Ingelone participation         3315       Biol-1415 Ingelone participation         3316       Biol-25-Cull ingelone participation         3317       Biol-25-Cull ingelone participation         3318       Biol-25-Cull ingelone participation         3319       Biol-25-Cull ingelone participation         3310       Biol-25-Cull ingelone participati	Resource         2.1           Resource         3.1           Resource         2.1	1.0         6588           2.0         6982           2.0         6982           2.0         6988           2.0         6988           2.0         6988           4.0         6922           2.0         6988           4.0         6982           4.0         6982           4.0         6982           4.0         6982           2.0         5981           4.0         6982           4.0         6982           2.0         5981           4.0         6983           4.0         6983           4.0         6484           4.0         6484	BAM-MB Provide Program calcination Control           BAM-MB Reaction PRog Do Communication proteines           BAM-MB Reaction Prog Prog Prog Prog Prog Prog Prog Prog	hours		naining hours	w Jul 22 t Jul 23		m Jul 27 t. Jul 28			- 12 - 10 - 6 - 6 - 4 - 2 - 0	
1919       Biol-1916       Rougency participation duration multiple for any strategy parameters         1931       Biol-1916       Biol-1916       Rougency parameters         1930       Biol-1916       Biol-1916       Rougency parameters         1930       Biol-2016       Rougency parameters       Biol-1916         1930       Biol-2016       Rougency parameters       Biol-1916         1931       Biol-2014       Rougency parameters       Biol-1916         1931       Biol-2014       Rougency parameters and regions       Rougency parameters         1931       Biol-2014       Rougency parameters and regions       Biol-1916         1931       Biol-2014       Rougency parameters       Biol-1916         1931       Biol-2014       Rougency paramet	Resource         2.1           Resource         2.1 <th>1.0         6588           2.0         6982           2.0         6982           2.0         6988           2.0         6988           2.0         6988           4.0         6922           2.0         6988           4.0         6982           4.0         6982           4.0         6982           4.0         6982           2.0         5981           4.0         6982           4.0         6982           2.0         5981           4.0         6983           4.0         6983           4.0         6484           4.0         6484</th> <th>BAM-MB Provide Program calcination Control           BAM-MB Reaction PRog Do Communication proteines           BAM-MB Reaction Prog Prog Prog Prog Prog Prog Prog Prog</th> <td></td> <td></td> <td>natiring hours</td> <td>w Jul t Jul</td> <td>լյոլ</td> <td>Z IP( U</td> <td>hut w</td> <td></td> <td>- 12 - 10 - 8 - 6 - 4 - 2 - 0</td> <td></td>	1.0         6588           2.0         6982           2.0         6982           2.0         6988           2.0         6988           2.0         6988           4.0         6922           2.0         6988           4.0         6982           4.0         6982           4.0         6982           4.0         6982           2.0         5981           4.0         6982           4.0         6982           2.0         5981           4.0         6983           4.0         6983           4.0         6484           4.0         6484	BAM-MB Provide Program calcination Control           BAM-MB Reaction PRog Do Communication proteines           BAM-MB Reaction Prog Prog Prog Prog Prog Prog Prog Prog			natiring hours	w Jul t Jul	լյոլ	Z IP( U	hut w		- 12 - 10 - 8 - 6 - 4 - 2 - 0	
4319       Biol-1415 Ingelone participation frammal-biol-Biol         4321       Biol-1415 Ingelone participation         4331       Biol-1415 Ingelone participation         3311       Biol-1415 Ingelone participation         3312       Biol-1415 Ingelone participation         3313       Biol-1415 Ingelone participation         3314       Biol-1415 Ingelone participation         3315       Biol-1415 Ingelone participation         3316       Biol-25-Cull ingelone participation         3317       Biol-25-Cull ingelone participation         3318       Biol-25-Cull ingelone participation         3319       Biol-25-Cull ingelone participation         3310       Biol-25-Cull ingelone participati	Resource         2.1           Resource         3.1           Resource         2.1	1.0         65081           2.0         6992           2.0         6568           2.0         6558           2.0         6558           2.0         6558           2.0         6558           2.0         6558           2.0         6558           2.0         6558           2.0         6558           2.0         6653           2.0         6663           2.0         6663           2.0         6683           2.0         6683           2.0         6683           2.0         6484           2.0         6483           2.0         6484           2.0         6483           2.0         6484           2.0         6484           2.0         6484           2.0         6485	BAMME Provide Pressure califoration Carter           BAMME Stature Carteria Carteria           BAMME Stature Carteria           BAMME Carteria	Sprint	an 60 40 20 5 5 5 5 5 5 5 5 5 5 5 5 5	aptured us	Ing server ti	ne zone: (0	m Jul t Jul	1adrid.	t Jul	12 10 8 points 6 - 4 - 2 0	
101       BLD-345 Inspace partners frammandade 60         101       BLD-345 Inspace partners frammandade 60         101       BLD-345 Inspace partners frammandade 60         101       BLD-345 Inspace partners frammandade	Resorved         2.1	1.0         6508           2.0         6992           2.0         6588           2.0         6558           1.0         4493           2.0         6588           2.0         6588           2.0         6588           2.0         6583           4734         6783           2.0         4098           2.0         4098           2.0         4098           2.0         4098           2.0         4098           2.0         4098           2.0         6083           4.0         7311           7311         5041           4.0         4849           2.0         4366           4451         4364	BA-MME Provide Provide Treasure calculation Carteria           BA-MME Baselwer Cartery: Create White Baselwer in Umite           BA-MME Baselwer Baselwer           BA-MME Cartery: Create White Baselwer in Umite           BA-MME Cartery: Create White Baselwer in Umite           BA-MME Cartery: Cartery: Create White Baselwer in Umite           BA-MME Cartery: Car	Sprint A Spri	s days are c nt day in you	aptured us	Ing server ti	ne zone: (0	T+01:00)	1adrid.	t Jul	12 10 8 9 0 10 8 9 0 10 8 9 0 10 8 9 0	
4019       Biol-191 Property paragent duration mobilety         4021       Biol-191 Property paragent duration mobilety         3021       Biol-191 Property paragent duration durati	Resource         2.1           Resource         3.2           Closed         3.2           Closed         3.2           Resource         3.2	1.0         6569           1.0         6922           2.0         6364           2.0         6358           3.0         6358           4.0         6922           4.0         6959 <th>BAM-MB Provide Processor Catheria           BAM-MB Readw Provide Processor Catheria           BAM-MB Readw Proc Communication produmes           BAM-MB Readw Proc Company: Creater Write Readware in Lina           BAM-MB Readw Proc Company: Creater Write Readware in Lina           BAM-MB Readw Proc Company: Creater Write Readware in Lina           BAM-MB Readw Proc Company: Creater Write Readware in Lina           BAM-MB Readware Read</th> <th>Sprint A Spri</th> <th>to be a construction of the second se</th> <th>aptured us ur time zo</th> <th>Ing server the (GMT+00)</th> <th>ne zone: (0 00) UTC Is</th> <th>MT+01:00) I from 23:00:0</th> <th>기adrid. 0 to 22:59:</th> <th>1 100 1 100</th> <th>12 10 8 points 6 </th> <th></th>	BAM-MB Provide Processor Catheria           BAM-MB Readw Provide Processor Catheria           BAM-MB Readw Proc Communication produmes           BAM-MB Readw Proc Company: Creater Write Readware in Lina           BAM-MB Readw Proc Company: Creater Write Readware in Lina           BAM-MB Readw Proc Company: Creater Write Readware in Lina           BAM-MB Readw Proc Company: Creater Write Readware in Lina           BAM-MB Readware Read	Sprint A Spri	to be a construction of the second se	aptured us ur time zo	Ing server the (GMT+00)	ne zone: (0 00) UTC Is	MT+01:00) I from 23:00:0	기adrid. 0 to 22:59:	1 100 1 100	12 10 8 points 6 	
1000       BLO-945 (mesone-persons-developmentablet)         1001       BLO-945 (mesone-persons-developmentablet) <td< th=""><th>Resource         2.1           Resource         2.1     <th>1.0         6508           1.0         6902           2.0         6968           1.0         6902           1.0         6356           1.0         6459           1.0         6459           4.0         6223           2.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6453           4.0         6453           4.0         6453           4.0         6454           4.0         6453           4.0         6454           4.0         6454           4.0         6454           4.0         6454</th><th>BA-MME Provide Provide Treasure calculation Carteria           BA-MME Baselwer Cartery: Create White Baselwer in Umite           BA-MME Baselwer Baselwer           BA-MME Cartery: Create White Baselwer in Umite           BA-MME Cartery: Create White Baselwer in Umite           BA-MME Cartery: Cartery: Create White Baselwer in Umite           BA-MME Cartery: Car</th><th>Sprint A Spri Chai</th><th>s days are cont day in you t options— nd: © off</th><th>aptured us ur time zo</th><th>Ing server the (GMT+00)</th><th>ne zone: (0 00) UTC Is</th><th>T+01:00)</th><th>기adrid. 0 to 22:59:</th><th>1 100 1 100</th><th>12 10 8 9 0 10 8 9 0 10 8 9 0 10 9 10 9 10</th><th></th></th></td<>	Resource         2.1           Resource         2.1 <th>1.0         6508           1.0         6902           2.0         6968           1.0         6902           1.0         6356           1.0         6459           1.0         6459           4.0         6223           2.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6453           4.0         6453           4.0         6453           4.0         6454           4.0         6453           4.0         6454           4.0         6454           4.0         6454           4.0         6454</th> <th>BA-MME Provide Provide Treasure calculation Carteria           BA-MME Baselwer Cartery: Create White Baselwer in Umite           BA-MME Baselwer Baselwer           BA-MME Cartery: Create White Baselwer in Umite           BA-MME Cartery: Create White Baselwer in Umite           BA-MME Cartery: Cartery: Create White Baselwer in Umite           BA-MME Cartery: Car</th> <th>Sprint A Spri Chai</th> <th>s days are cont day in you t options— nd: © off</th> <th>aptured us ur time zo</th> <th>Ing server the (GMT+00)</th> <th>ne zone: (0 00) UTC Is</th> <th>T+01:00)</th> <th>기adrid. 0 to 22:59:</th> <th>1 100 1 100</th> <th>12 10 8 9 0 10 8 9 0 10 8 9 0 10 9 10 9 10</th> <th></th>	1.0         6508           1.0         6902           2.0         6968           1.0         6902           1.0         6356           1.0         6459           1.0         6459           4.0         6223           2.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6463           4.0         6453           4.0         6453           4.0         6453           4.0         6454           4.0         6453           4.0         6454           4.0         6454           4.0         6454           4.0         6454	BA-MME Provide Provide Treasure calculation Carteria           BA-MME Baselwer Cartery: Create White Baselwer in Umite           BA-MME Baselwer Baselwer           BA-MME Cartery: Create White Baselwer in Umite           BA-MME Cartery: Create White Baselwer in Umite           BA-MME Cartery: Cartery: Create White Baselwer in Umite           BA-MME Cartery: Car	Sprint A Spri Chai	s days are cont day in you t options— nd: © off	aptured us ur time zo	Ing server the (GMT+00)	ne zone: (0 00) UTC Is	T+01:00)	기adrid. 0 to 22:59:	1 100 1 100	12 10 8 9 0 10 8 9 0 10 8 9 0 10 9 10 9 10	
State-State       State-State         State-State       State-State         State       State         <	Resource         2.1           Resource         3.2           Closed         3.2           Closed         3.2           Resource         3.2	1.0         6569           1.0         6922           2.0         6922           2.0         638           2.0         638           2.0         638           2.0         638           2.0         637           4475         6323           4.0         6323           4.0         6362           4.0         6362           2.0         6499           3.0         6493           4.0         7271           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6004	BA-M-M Provide Provide Treasure california Control           BA-M-M Resourt Pace D Communication proteins           BA-M-M Resourt Pace D Communication Pace           BA-M-M Resourt Pace D Communication Pace           BA-M-M Resourt Pace D Communication Pace           BA-M-M Resource Pace	Sprint A Spri Chai Lege	s days are on the day in you to options- nd: Offee off	aptured us ur time zo	Ing server the (GMT+00)	ne zone: (0 00) UTC Is	MT+01:00) I from 23:00:0	기adrid. 0 to 22:59:	1 100 1 100	12 10 8 points 6 4 - 2 0	
1000       BLO-945 (mesone-persons-developmentablet)         1001       BLO-945 (mesone-persons-developmentablet) <td< td=""><td>Resource         2.1           Resource         2.1     <th>1.0         6569           1.0         6922           2.0         6922           2.0         638           2.0         638           2.0         638           2.0         638           2.0         637           4475         6323           4.0         6323           4.0         6362           4.0         6362           2.0         6499           3.0         6493           4.0         7271           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6004</th><th>BAMM Provide Provide Product Control           BAMM Stander Provide Provide Production Control           BAMM Stander Stander           BAMM Stander</th><td>Sprint A Spri Char Lege Ø d</td><td>s days are on the day in your to options — th</td><td>aptured us ur time zo</td><td>Ing server the (GMT+00)</td><td>ne zone: (0 00) UTC Is</td><td>MT+01:00) I from 23:00:0</td><td>기adrid. 0 to 22:59:</td><td>1 100 1 100</td><td>- 12 - 10 - 10 - 6 - 4  2 - 0</td><td></td></td></td<>	Resource         2.1           Resource         2.1 <th>1.0         6569           1.0         6922           2.0         6922           2.0         638           2.0         638           2.0         638           2.0         638           2.0         637           4475         6323           4.0         6323           4.0         6362           4.0         6362           2.0         6499           3.0         6493           4.0         7271           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6004</th> <th>BAMM Provide Provide Product Control           BAMM Stander Provide Provide Production Control           BAMM Stander Stander           BAMM Stander</th> <td>Sprint A Spri Char Lege Ø d</td> <td>s days are on the day in your to options — th</td> <td>aptured us ur time zo</td> <td>Ing server the (GMT+00)</td> <td>ne zone: (0 00) UTC Is</td> <td>MT+01:00) I from 23:00:0</td> <td>기adrid. 0 to 22:59:</td> <td>1 100 1 100</td> <td>- 12 - 10 - 10 - 6 - 4  2 - 0</td> <td></td>	1.0         6569           1.0         6922           2.0         6922           2.0         638           2.0         638           2.0         638           2.0         638           2.0         637           4475         6323           4.0         6323           4.0         6362           4.0         6362           2.0         6499           3.0         6493           4.0         7271           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6493           4.0         6004	BAMM Provide Provide Product Control           BAMM Stander Provide Provide Production Control           BAMM Stander Stander           BAMM Stander	Sprint A Spri Char Lege Ø d	s days are on the day in your to options — th	aptured us ur time zo	Ing server the (GMT+00)	ne zone: (0 00) UTC Is	MT+01:00) I from 23:00:0	기adrid. 0 to 22:59:	1 100 1 100	- 12 - 10 - 10 - 6 - 4 2 - 0	
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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)



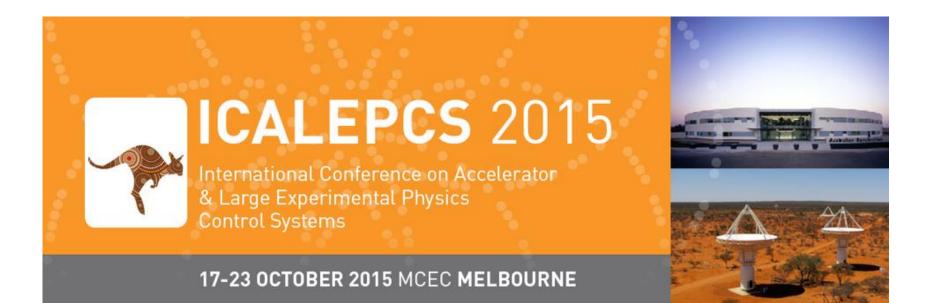
- SM Training
- Resistance to change
- Grooming
- Definition of Done discussions
- Planning (say no)
- Technical Debt
- Team Building
- Individual projects (prototypes/research)

- 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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