



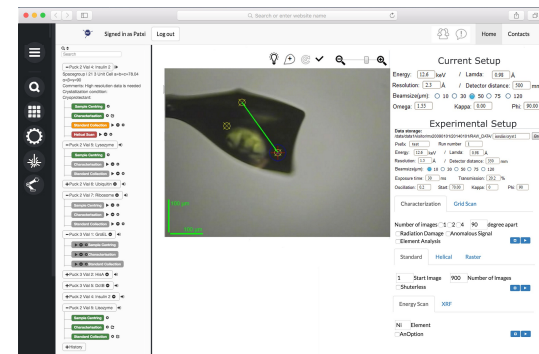
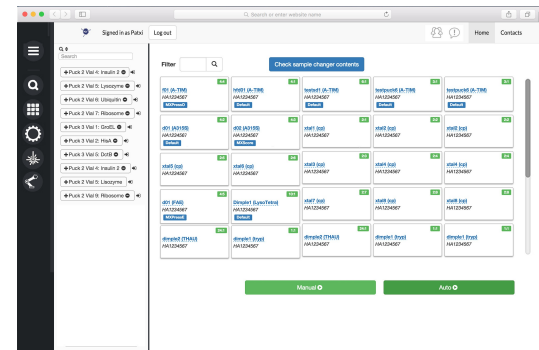
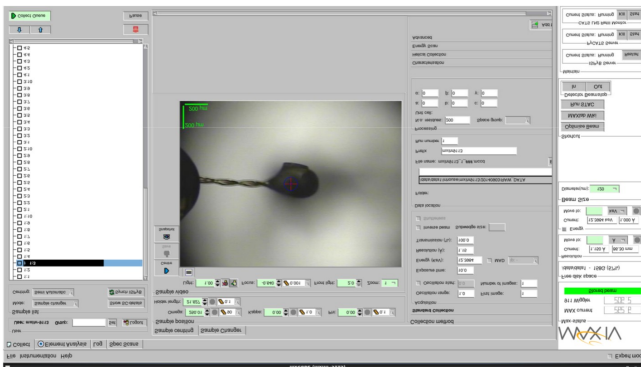
MXCuBE v.3 - web  
Antonio Milán Otero, Kontrols & IT services (KITS)

# Agenda

- Objective
- People involved
- Collaboration
- Communication
- Repository/ies
- Development Workflow
- Integrators
- Milestones
- Progress
- Lessons learned ... so far

# Objective

The main objective is to provide a web application with a set of key functionalities that will replace our actual desktop application for a web based one by December 2016.



# People involved



- Marjolein Thunnissen
- Darren Spruce
- Jie Nan
- Mikel Eguiraun
- Fredrik Bolmsten
- Antonio Milán Otero

+ KITS group support



- Jens Meyer
- Daniele de Sanctis
- Gordon Leonard
- Matias Guijarro

+ Web developer

**... so far**

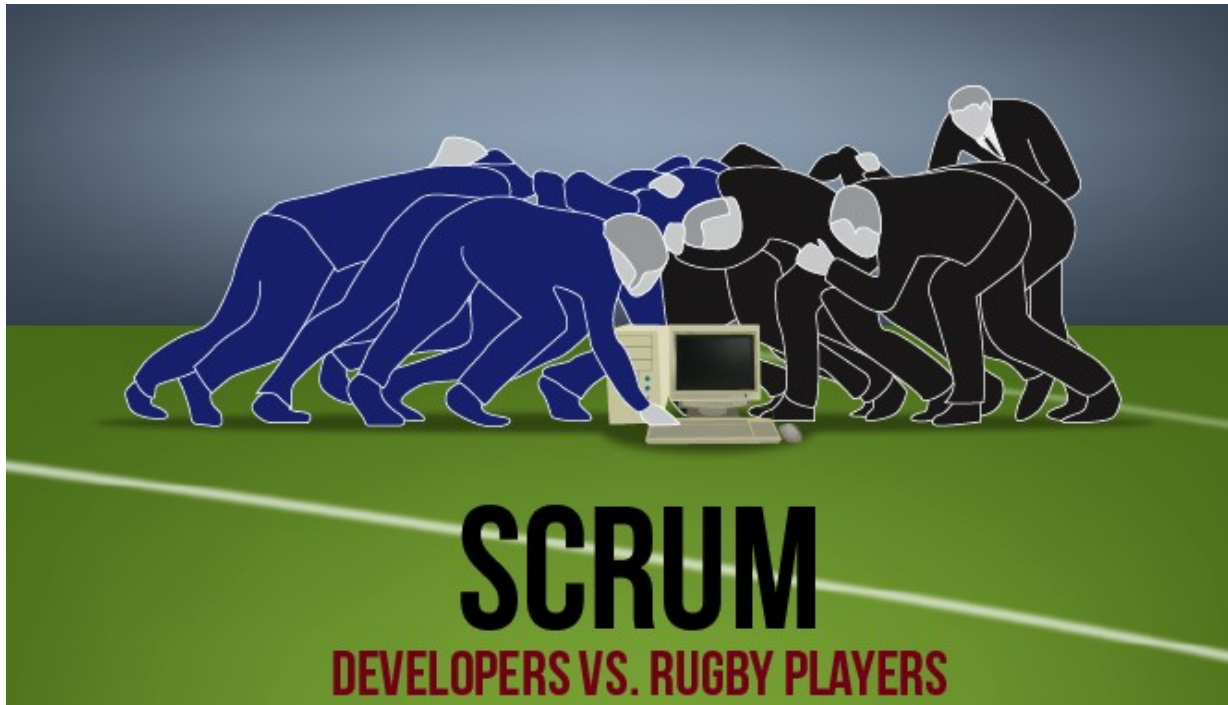
# Collaboration

- Scrum of Scrums
  - 1 team per facility
  - Ambassador for each team
    - Matias Guijarro (ESRF)
    - Antonio Milán (MAX IV)
  - Backlog: Feature list + Milestones (releases)
  - Sprints of 1 month duration
  - Planning meetings:
    - Sprint review and sprint retrospective.
    - Task estimation for next sprint.
    - Sprint backlog preparation.
    - Sprint goal defined per each team.
  - Scrum master: Antonio Milán (MAX IV)

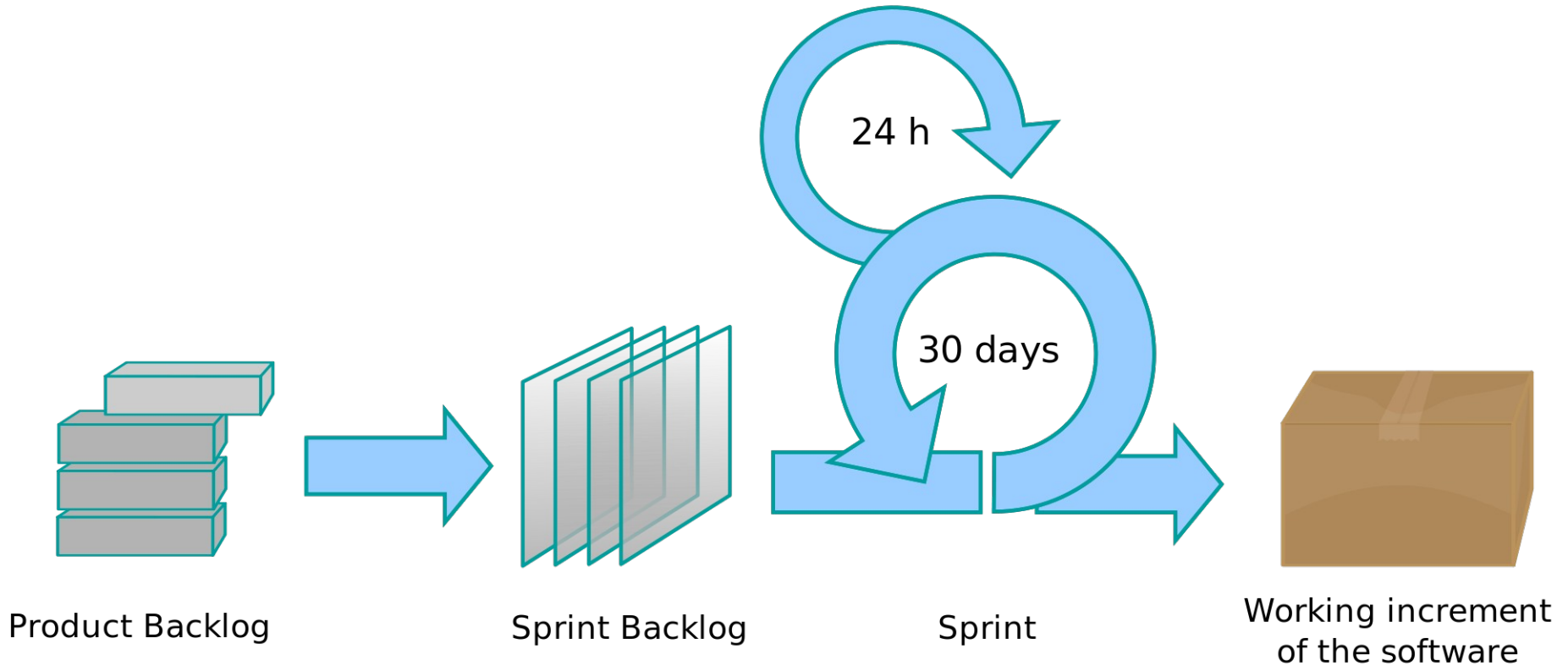
# Scrum?



# Scrum?



# Scrum?





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# Comunication

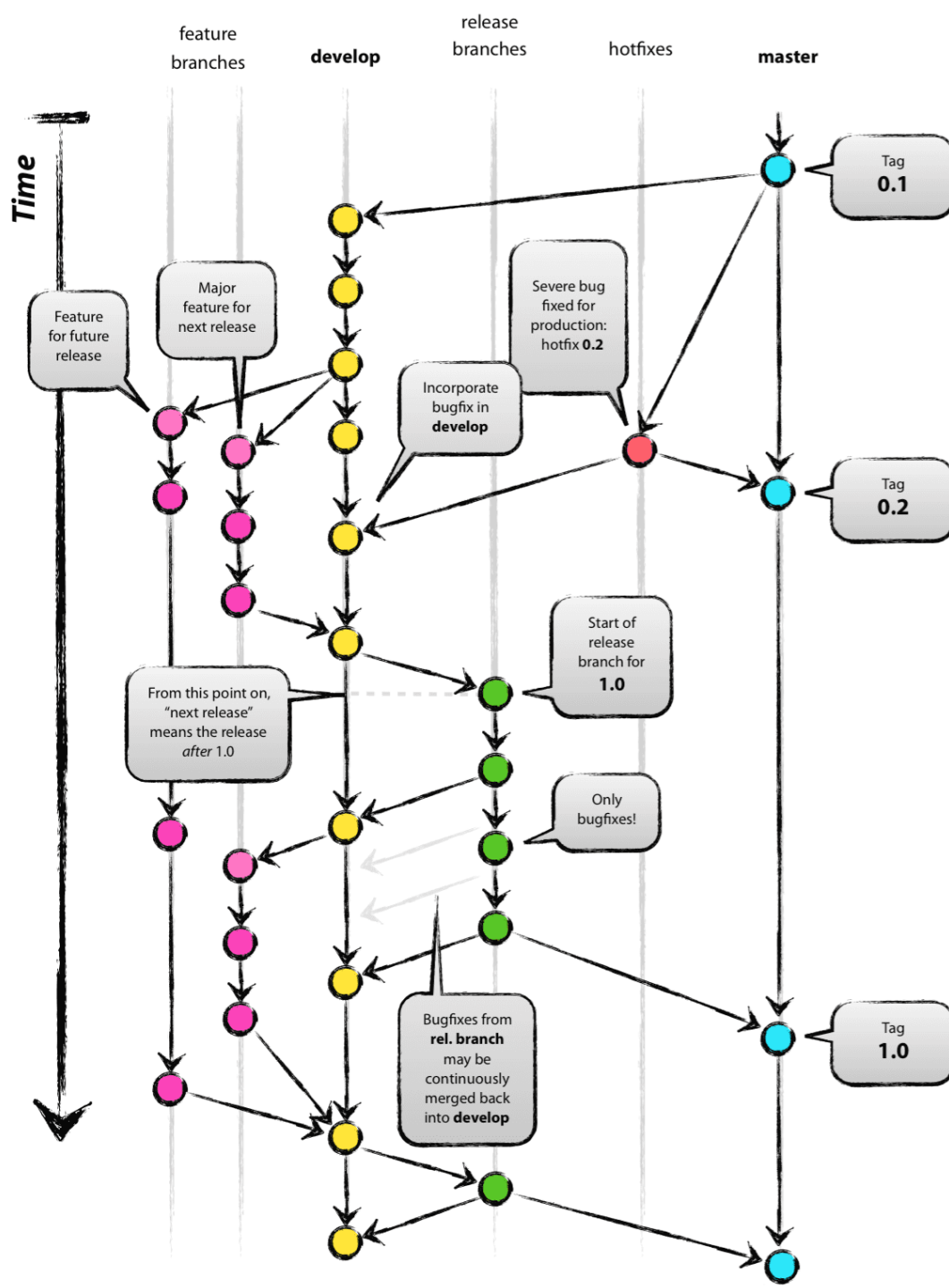
- Extensive use of github tools:
  - Issues, labels
  - Pull requests
  - Wiki (documentation, cookbook)
  - Releases
  - Milestones
  - Feature contact
- Web meetings
- Face to face meetings
- Pair programming

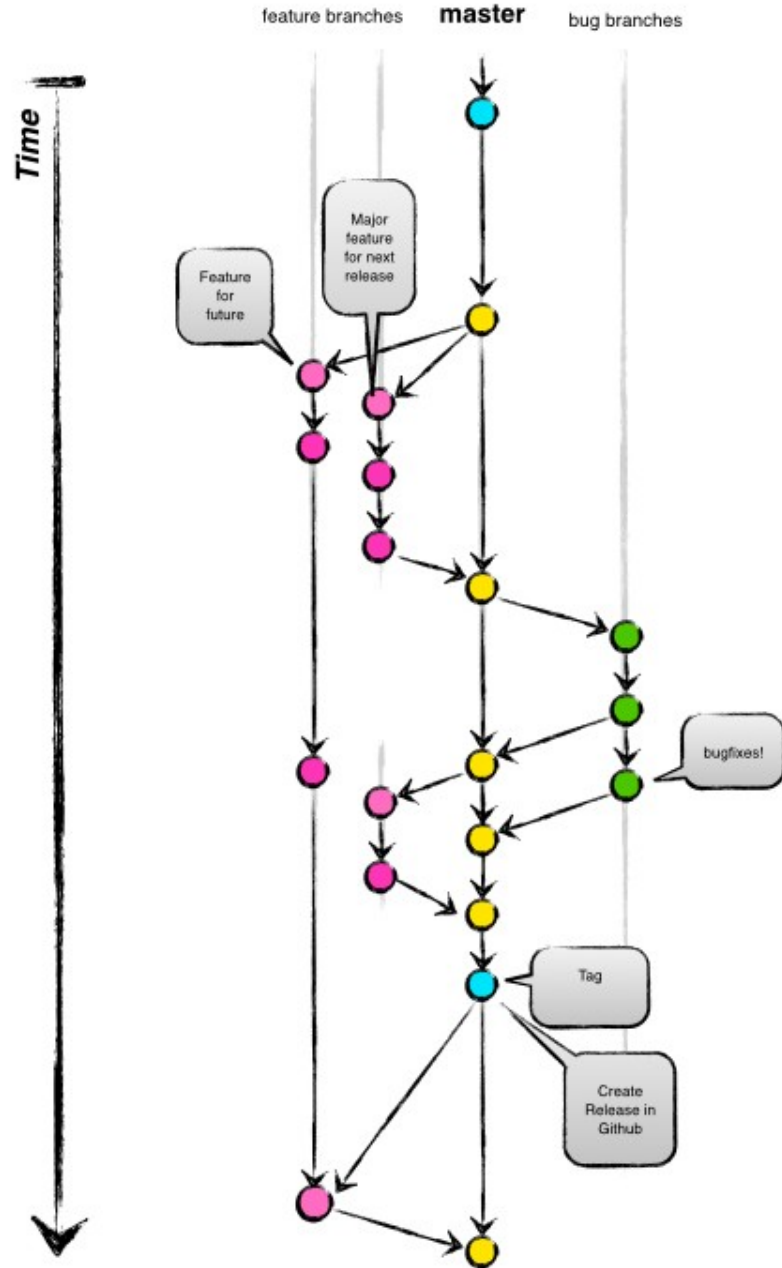
# Repository

- New repository created
  - <https://github.com/mxcube/mxcube3>
- HardwareRepository and HardwareObjects are included as submodules (version 2.1)

# Development workflow

- Motivation
  - Define a clear way of contributing to the code.
- Proposals
  - Gitflow
  - Github flow
  - Gitlab flow
  - Why not our own MxCUBE flow?





# Integrators

- Integrator role: Should guarantee the review of the code before a Pull request is accepted.
- An integrator is not allowed to accept it's own Pull Request (or facility Pull Request).
- Group of integrators, 1 per facility.
- M. Guijarro (ESRF), A. Milán (MAX IV)

# Roadmap





# Work-packages

- 1 CORE: Web-ui and web-server data interchange
- 2 CORE: Web-ui and web-server message handler
- 3 CORE:GENERAL: Experiment Queue
- 4 CORE: Sample Centring
- 5 CORE: Sample Video
- 6 CORE: Manual Sample (un)load
- 7 CORE:User login
- 8 CORE: Web interface design
- 9 CORE:Web server
- 10 CORE:Message Logger
- 11 CORE:GENERAL: Remove dependencies

- 1 FEATURE: Beamline Management
- 2 FEATURE: Synchrotron specificities
- 3 FEATURE: Data collection:Standard
- 4 FEATURE: Data collection:Helical
- 5 FEATURE: Data collection:Mesh
- 6 FEATURE: Data collection: Workflow
- 7 FEATURE: Display collection results
- 8 FEATURE: Characterization
- 9 FEATURE: Display/Apply characterization results
- 10 FEATURE: Energy scan
- 11 FEATURE: Display energy scan results
- 12 FEATURE: XRF Spectra
- 13 FEATURE: Display XRF Spectra results
- 14 FEATURE: Plate Manipulator
- 15 FEATURE: Local/remote mode

# Progress

2 Open ✓ 0 Closed Sort ▾

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## January 2016

📅 Due by January 15, 2016 ⌚ Last updated 1 day ago 44% complete 10 open 8 closed

All core packages should be running, mxcube3 will be used at Biomax... (more) [Edit](#) [Close](#) [Delete](#)

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## June 2016

📅 Due by June 21, 2016 ⌚ Last updated 1 day ago 0% complete 4 open 0 closed

By this date we should be able to do an experiment at BioMAX Singl... (more) [Edit](#) [Close](#) [Delete](#)

10 Open ✓ 8 Closed

- 🚫 **Adapt SampleCentring view to webpack** core  
#43 opened 16 days ago by meguirau 📅 January 2016
- 🚫 **Manual Sample (un)load** core  
#28 opened on Sep 29 by meguirau 📅 January 2016
- 🚫 **Web server** core  
#13 opened on Sep 29 by meguirau 📅 January 2016
- 🚫 **Web interface design** core  
#12 opened on Sep 29 by meguirau 📅 January 2016
- 🚫 **Sample Centring** core  
#10 opened on Sep 29 by meguirau 📅 January 2016
- 🚫 **Sample Video** core  
#9 opened on Sep 29 by meguirau 📅 January 2016
- 🚫 **User interface and server message handler** core  
#6 opened on Sep 29 by meguirau 📅 January 2016
- 🚫 **User interface and server data interchange** core  
#5 opened on Sep 29 by meguirau 📅 January 2016

10 Open ✓ 8 Closed

- 🚫 **Adapt sample view to redux** core  
#60 opened 2 days ago by amilan 📅 January 2016
- 🚫 **Experiment Queue - Frontend Side** core  
#59 opened 2 days ago by meguirau 📅 January 2016
- 🚫 **Session management** core  
#58 opened 2 days ago by amilan 📅 January 2016
- 🚫 **Sample grid** core  
#57 opened 2 days ago by mguijarr 📅 January 2016
- 🚫 **Data collection:Standard** core feature  
#18 opened on Sep 29 by meguirau 📅 January 2016
- 🚫 **Synchrotron specificities** feature  
#17 opened on Sep 29 by meguirau 📅 January 2016
- 🚫 **BeamLine Management** core  
#16 opened on Sep 29 by meguirau 📅 January 2016
- 🚫 **Message Logger** core  
#14 opened on Sep 29 by meguirau 📅 January 2016
- 🚫 **User login** core  
#8 opened on Sep 29 by meguirau 📅 January 2016
- 🚫 **Experiment Queue - Server Side** core  
#7 opened on Sep 29 by meguirau 📅 January 2016

# Lessons learned ... so far

- Communication it's a key factor at this moment.
- Face to face meetings over online tools.
- More granularity for tasks + better agile tool for a distributed team = taiga.io
- Glossary (it's important to call the things with the same name)

**Thanks for your attention**



**Any question?**