



# **SA1 - Quality Control – Task 1.4**

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SA1 Quality Control

Lund, May 30<sup>th</sup> 2011

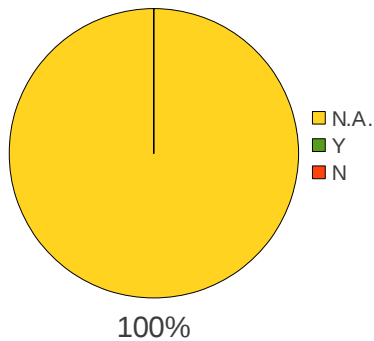
# Agenda

- Periodic reviews
- Security Assessment activity
- Verification of software components (EMI 1)
- Conclusions

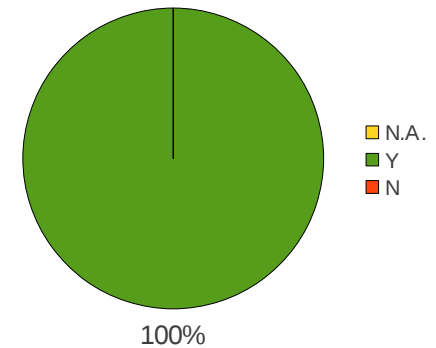
# Review of the Software Release Plan

Check Number	Question	Response
1	Does the list of supported platforms correspond to the actual set of platforms on which software components are released?	Y
2	Is the installation of external dependencies well documented?	Y
3	Are instructions to build the software up to date?	Y
4	Is the list of supported delivery software formats up to date (source and binary packages, tarball, package lists, etc)?	Y
5	Is the description of the process on how to handle changes up to date?	Y
6	Are the communication channels published with updated information?	Y
7	Is the process on how to deliver software to the Production Infrastructures up to date and it's aligned to what the Production Infrastructures (EGI, PRACE) are expecting?	Y

PM6



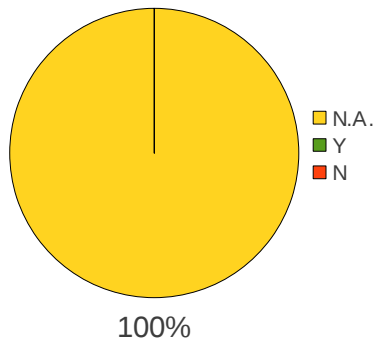
PM12



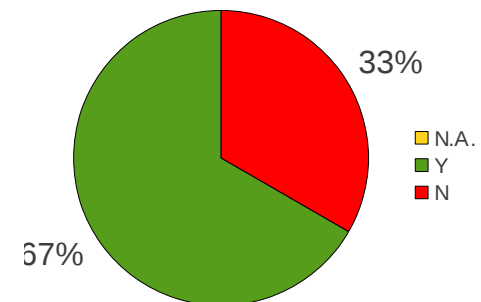
# Review of the Software Release Schedule

Check Number	Question	Response
1	Has the previous schedule been kept?	N
2	Does the new schedule take into account what wasn't accomplished in the previous schedule?	Y
3	Is the new schedule aligned to the Software Development Plan and the priorities of the project?	Y

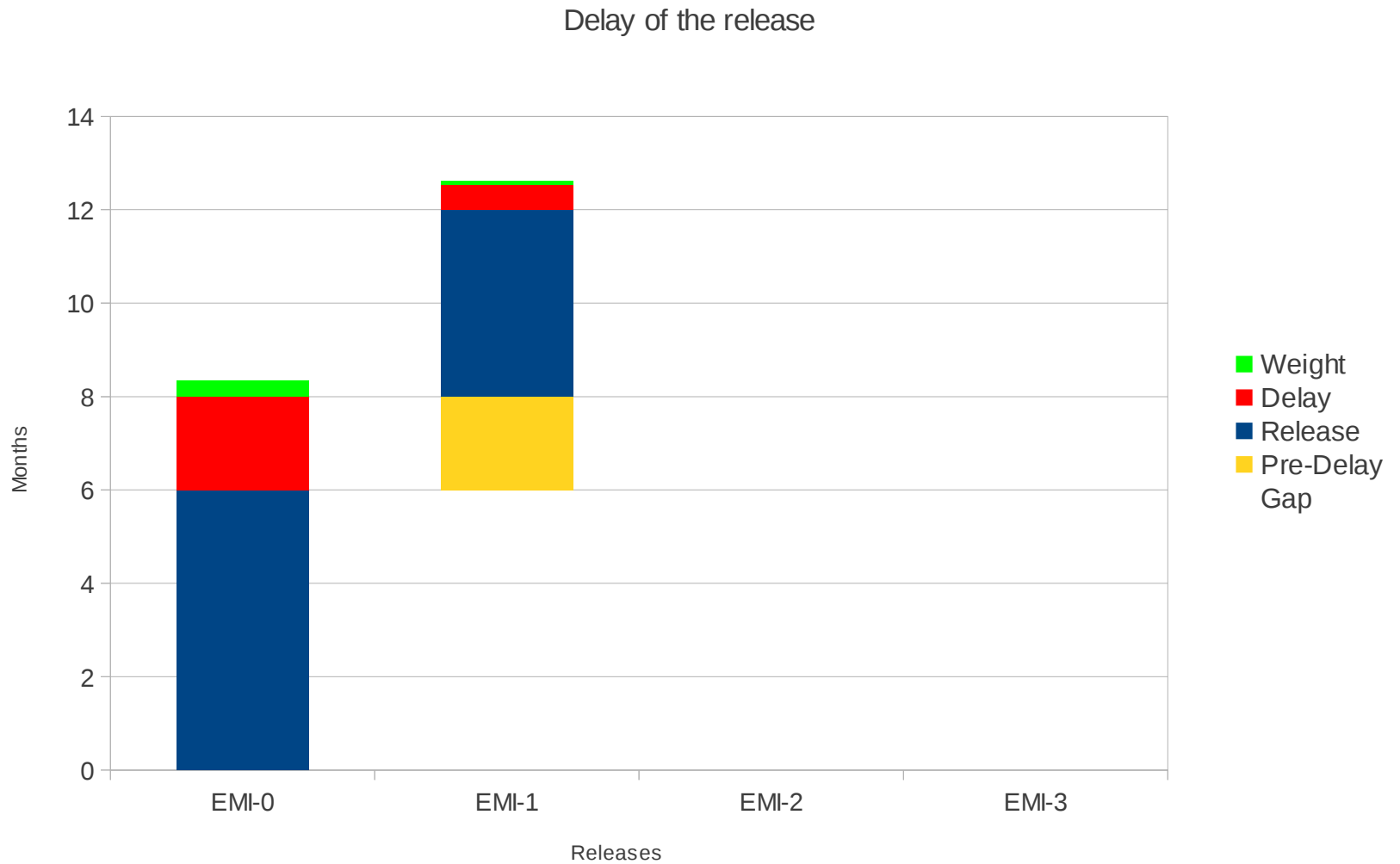
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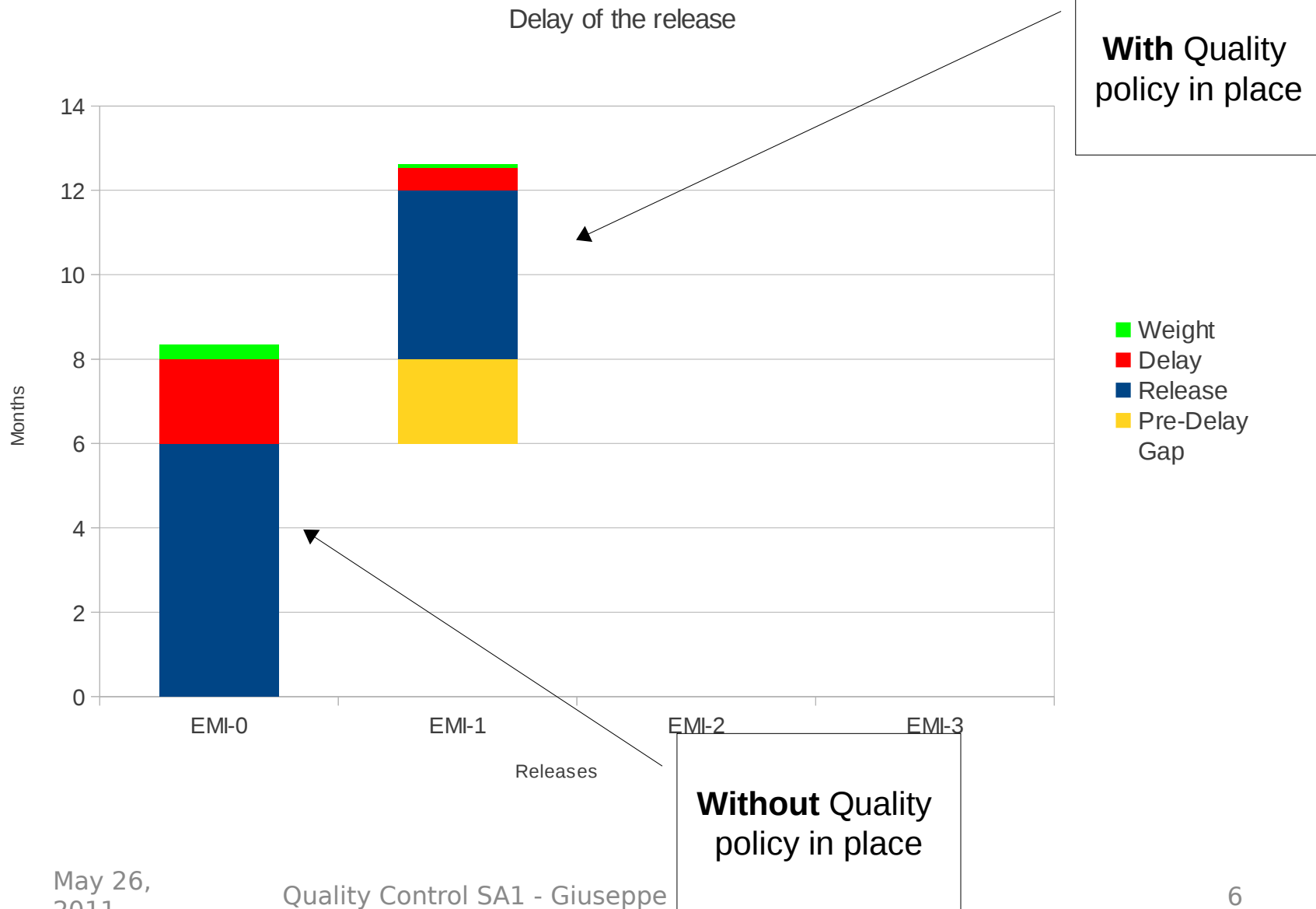
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# Review of the Software Release Schedule



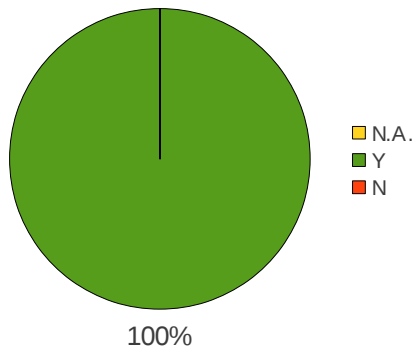
# Review of the Software Release Schedule



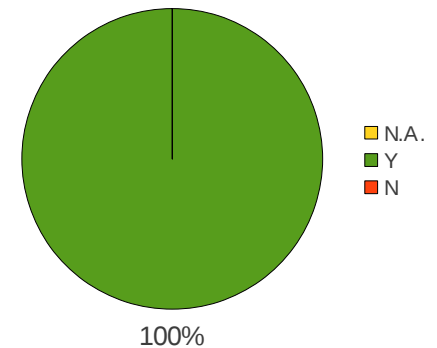
# Review of the Software Maintenance and Support Plan

Check Number	Question	Response
1	Is the process on how to handle incidents reported by EMI users using GGUS up to date?	Y
2	Is the process on how to handle requests coming from EMI users or other PTs up to date?	Y
3	Is the process on how to handle problems up to date?	Y

**PM6**



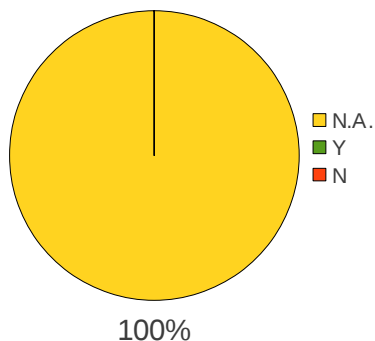
**PM12**



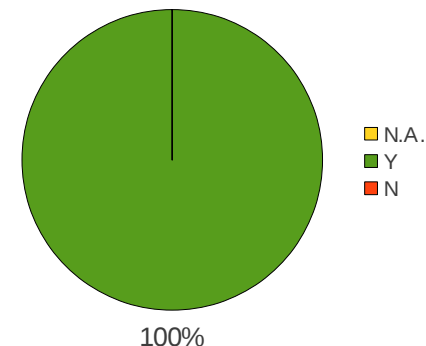
# Review of the Security Assessment Plan

Check Number	Question	Response
1	The Architectural Analysis has been carried out and the output contains a diagram describing the interactions among components and end users.	Y
2	The Resource Identification has been carried out and the output contains the resource descriptions.	Y
3	The Trust and Privilege Analysis has been carried out and the output contains the trust levels and the delegation information for all the components and their interactions.	Y
4	The Component Evaluation has been carried out and the output contains identified vulnerabilities and their suggested fixes.	Y
5	The Dissemination of Results has been carried out.	Y

**PM6**



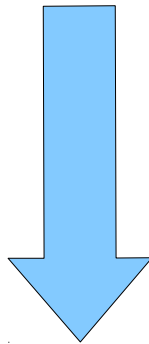
**PM12**



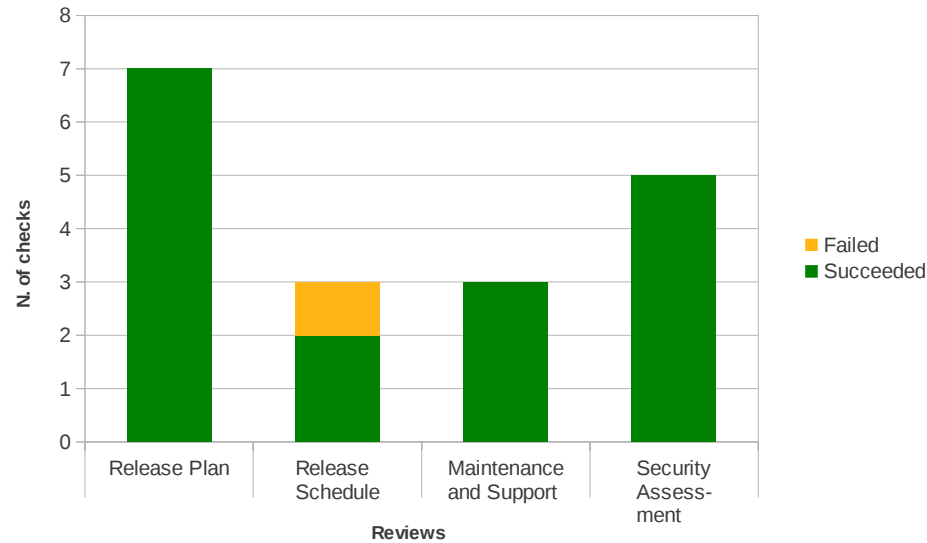
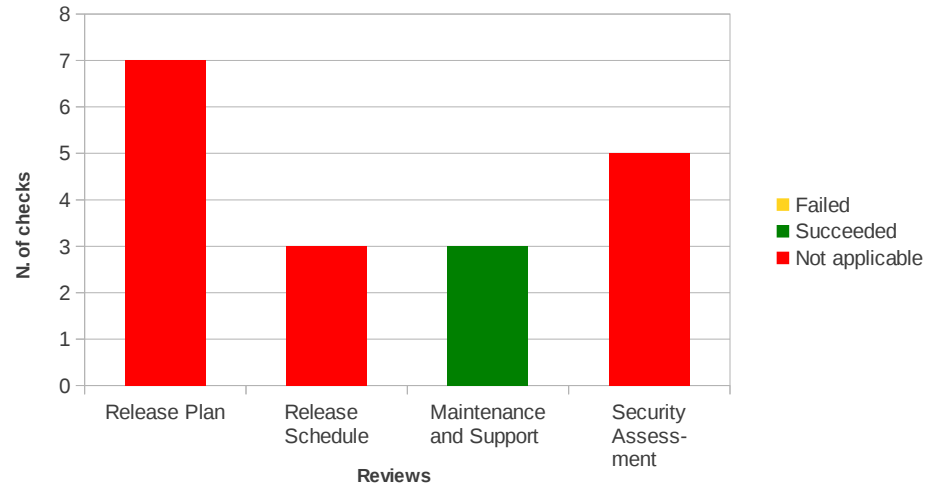


# Review overall results

PM6



PM12



# Security assessment activity

- Activity carried on by *Universitat Autònoma de Barcelona*
- Last release of the security assessment plan available on the EMI wiki under SA1 Task 1.4 page [1]
- Current status:
  - ✓ **VOMS Admin 2.0.18**: assessed (2.5 months of work)
  - ✓ **GLExec 0.8**: assessed (5 months of work)
  - ✓ **Argus 1.2**: assessed and now working on the report (5 months of work)
  - ✓ **VOMS Core 2.0.2**: just started (expected 6 months of work)
- More effort is required to assess more components.

[1] <https://twiki.cern.ch/twiki/bin/view/EMI/SA1QCSAP>

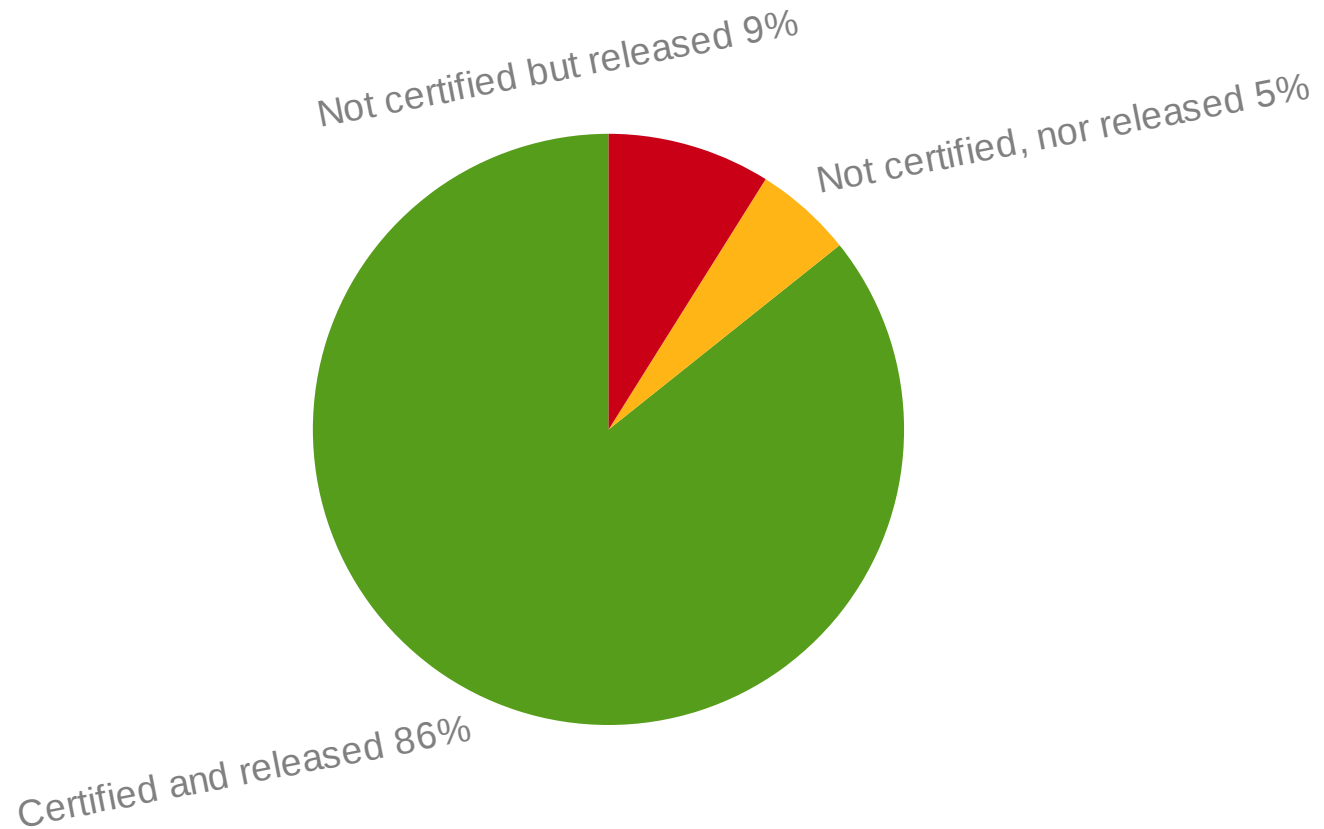
# Verification activity in a nutshell

- **QC Task force** to verify certified components (5 members from SA1, SA2, JRA1)
- Verification based on QA policies
- **Verification report** attached to each verified task on Savannah tasks

# Verification activity numbers

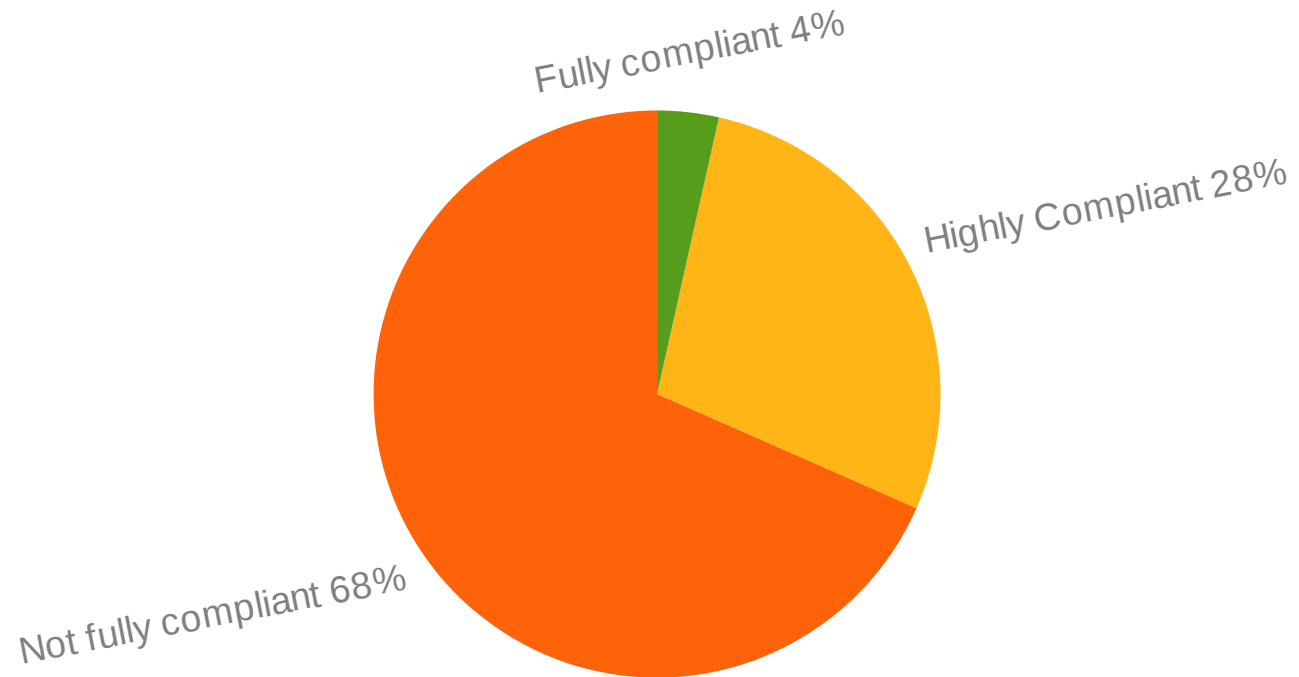
- **53** components **released**
- **48** components **certified**
- **3** components not certified, **nor released**
- **5** components not certified, but **released**
- **57** components **verified**
- **39** components **not fully compliant**
- **16** components **highly compliant** (*many checks marked with Yes*)
- **2 fully compliant** (*all checks marked with Yes*) 3.50%

# Certification overall status



- **Certified and released [86%] - 48**
- **Not certified but released [9%] - 5**
- **Not certified, nor released [5%] - 3**

# Verification overall status



- **Not fully compliant [68%] - 39**
- **Highly Compliant [28%] - 16**
- **Fully Compliant [4%] - 2**

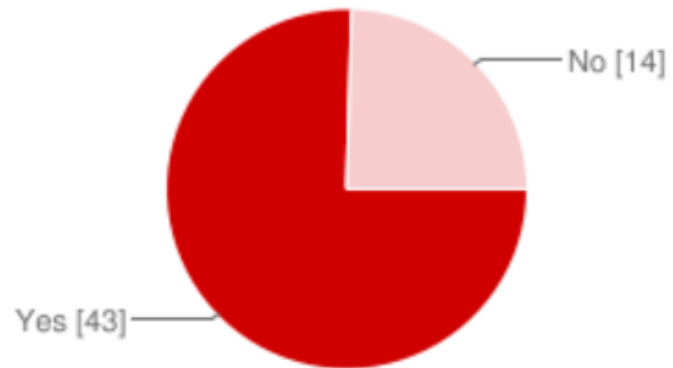
# Certification report availability

## Available



Yes	<b>54</b>	95%
No	<b>3</b>	5%

## Complete for all sections



Yes	<b>43</b>	75%
No	<b>14</b>	25%

# RfCs Availability

## List or RfCs



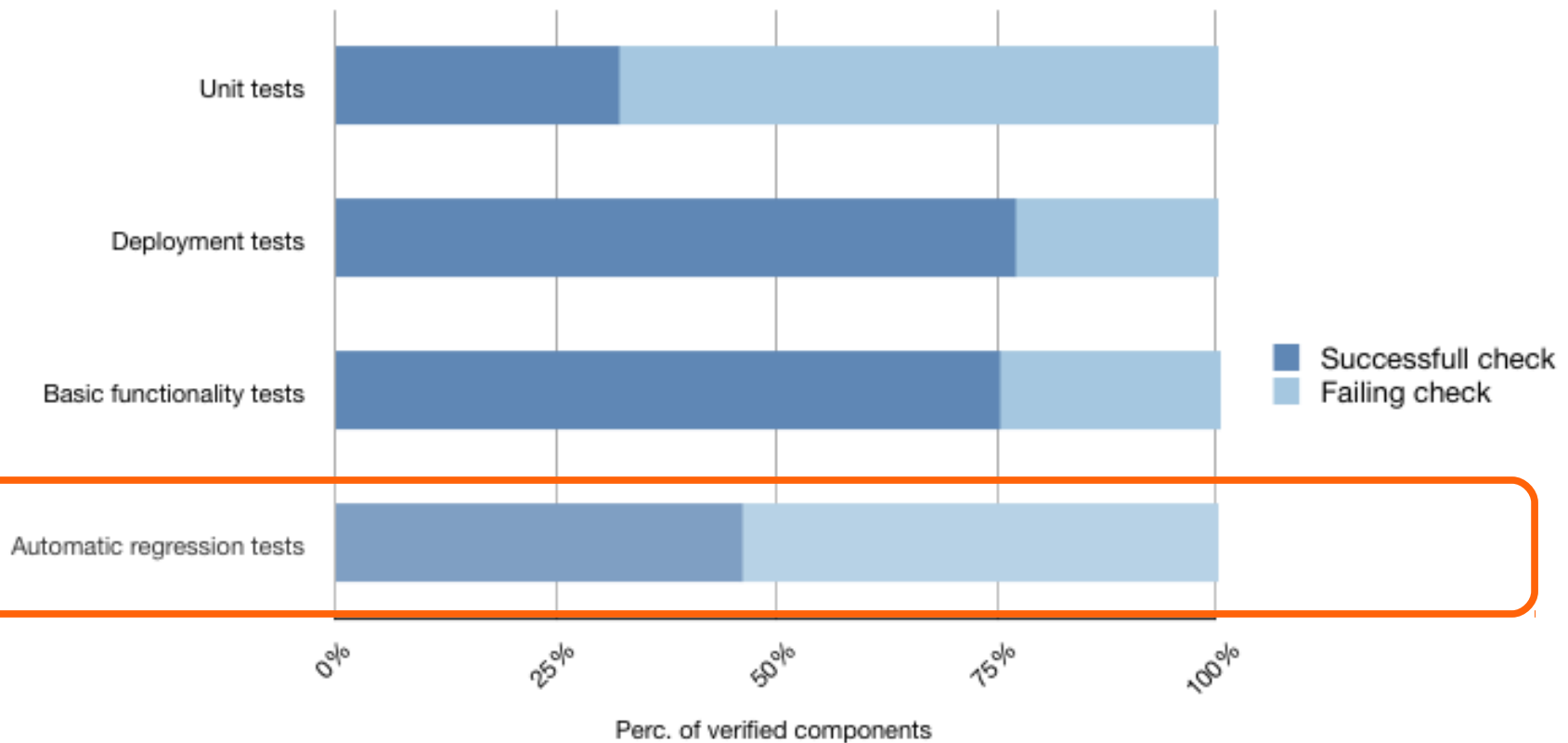
Yes	<b>42</b>	74%
No	<b>15</b>	26%

- **For many components, RfCs were still Open during their verification!**

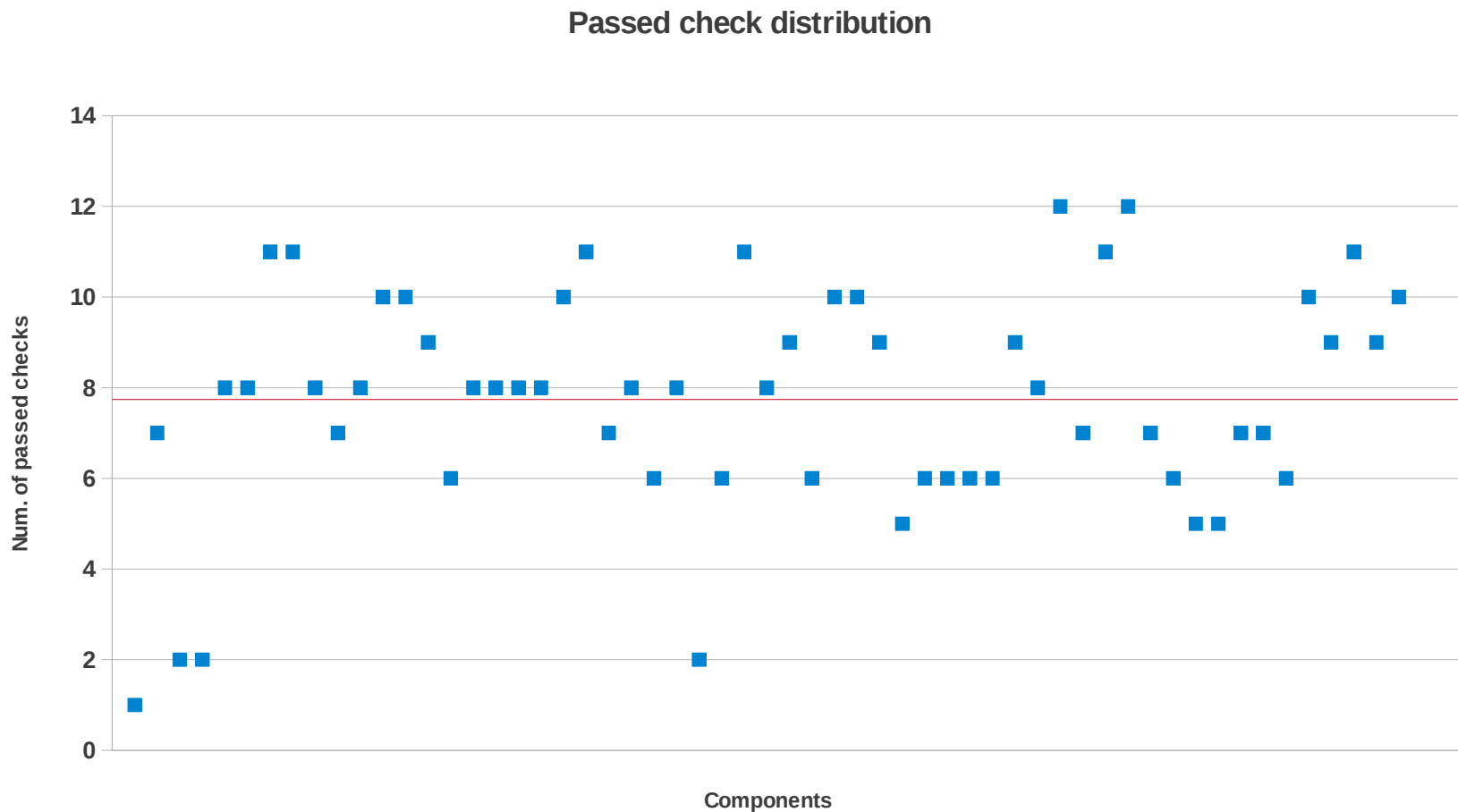


# Regression tests Status

## Regression tests availability in EMI 1 components



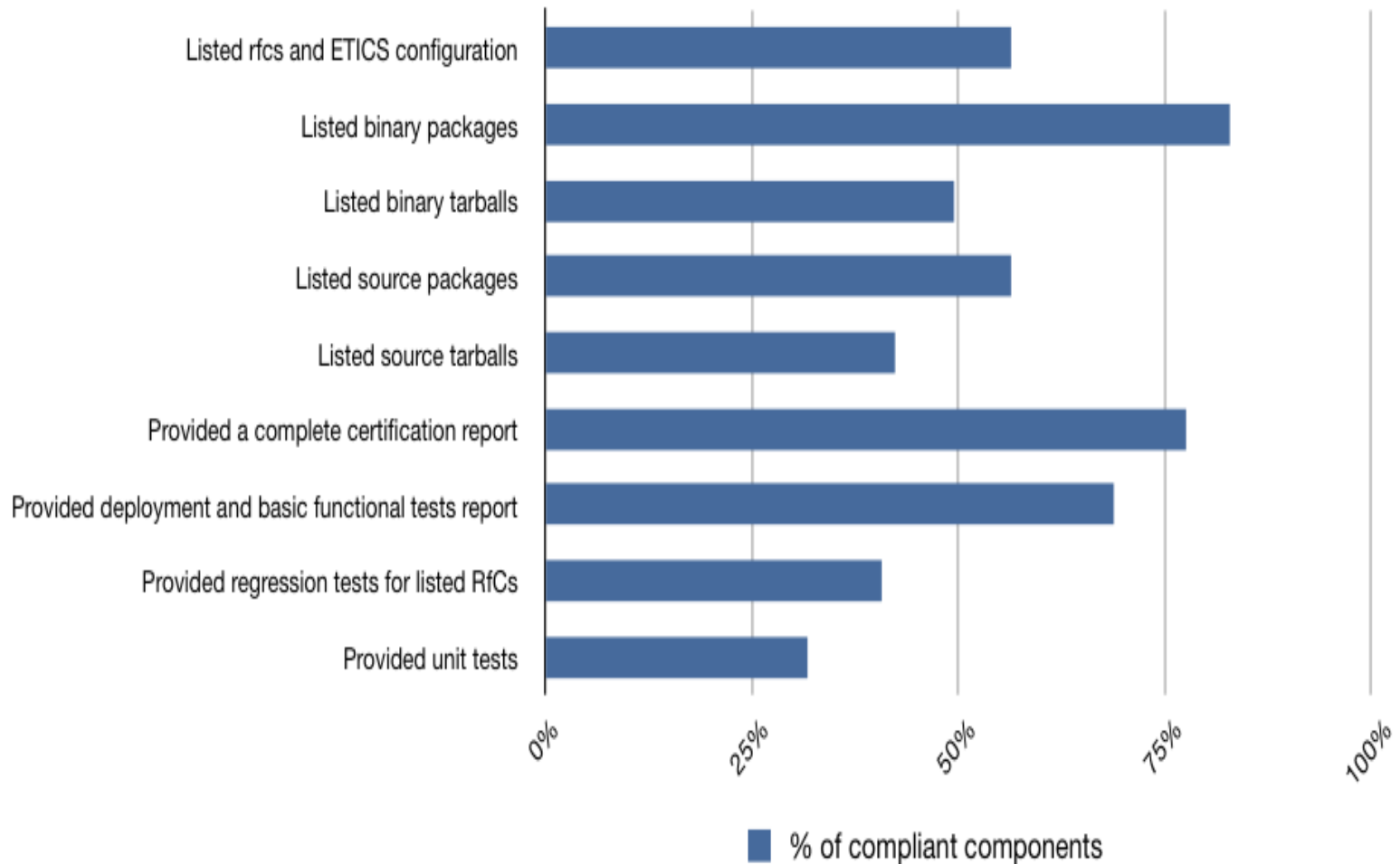
# Passed check distribution



# Passed check distribution



# Verification summary



# General considerations 1/3

- Periodic reviews have reported good results, most of the checks satisfy quality controls.
- **Considering the 2 months of delay caused by EMI 0, releasing EMI 1 with just few days behind the schedule was indeed a valuable result!**
- Much effort has been put in achieving the EMI 1 goal, will we be able to keep the same performance for next releases?
- Quality policies are realistic, PTs are able to satisfy them.

# General considerations 2/3

- **If quality controls were ALL mandatory, EMI 1 would have been composed of only two components :)**
- Many PTs missed the certification deadline.
- Release schedule has been too unstable and too many changes occurred during the EMI 1 release.
- The Security Assessment activity is lacking of effort. Contributions from other partners is needed.

# General improvements 3/3

- It is not clear which RfCs refer to new features development, and which to bugs fixing. Important to control whether regression tests have been implemented or not.
- Development progress status missing. It would be great Savannah tasks have the percentage of completion for each component (probably this requires too much work).
- Technical objectives are not tracked in Savannah.

# Suggested improvements

- Make quality checks (gradually) mandatory.
- Put some thresholds on metrics according to current measurements.
- Perform quality verification only when all components have been successfully certified.
- Believe in Quality :)





# Thank you

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