

# JRA1 report



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EMI AHM

Padova, 17/10/2011

EMI is partially funded by the European Commission under Grant Agreement RI-261611

- The new JRA1
- Development tracker
- Nagios probes
- Cloud strategy impact on JRA1
- Issues
- JRA1 this week

JRA1

JRA1.1 - Coordination

JRA1.2 - Compute

JRA1.3 - Data

JRA1.4 - Security

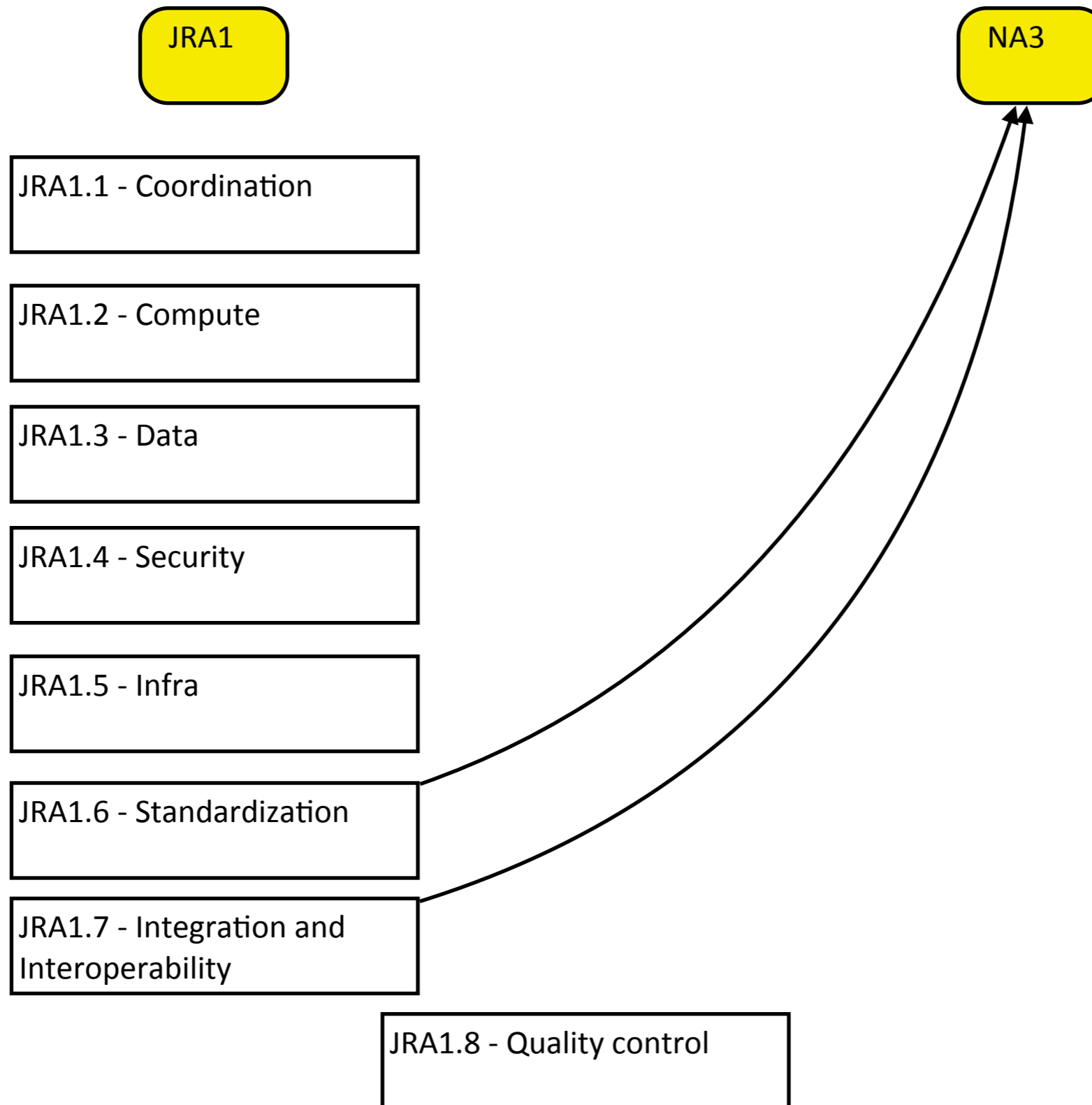
JRA1.5 - Infra

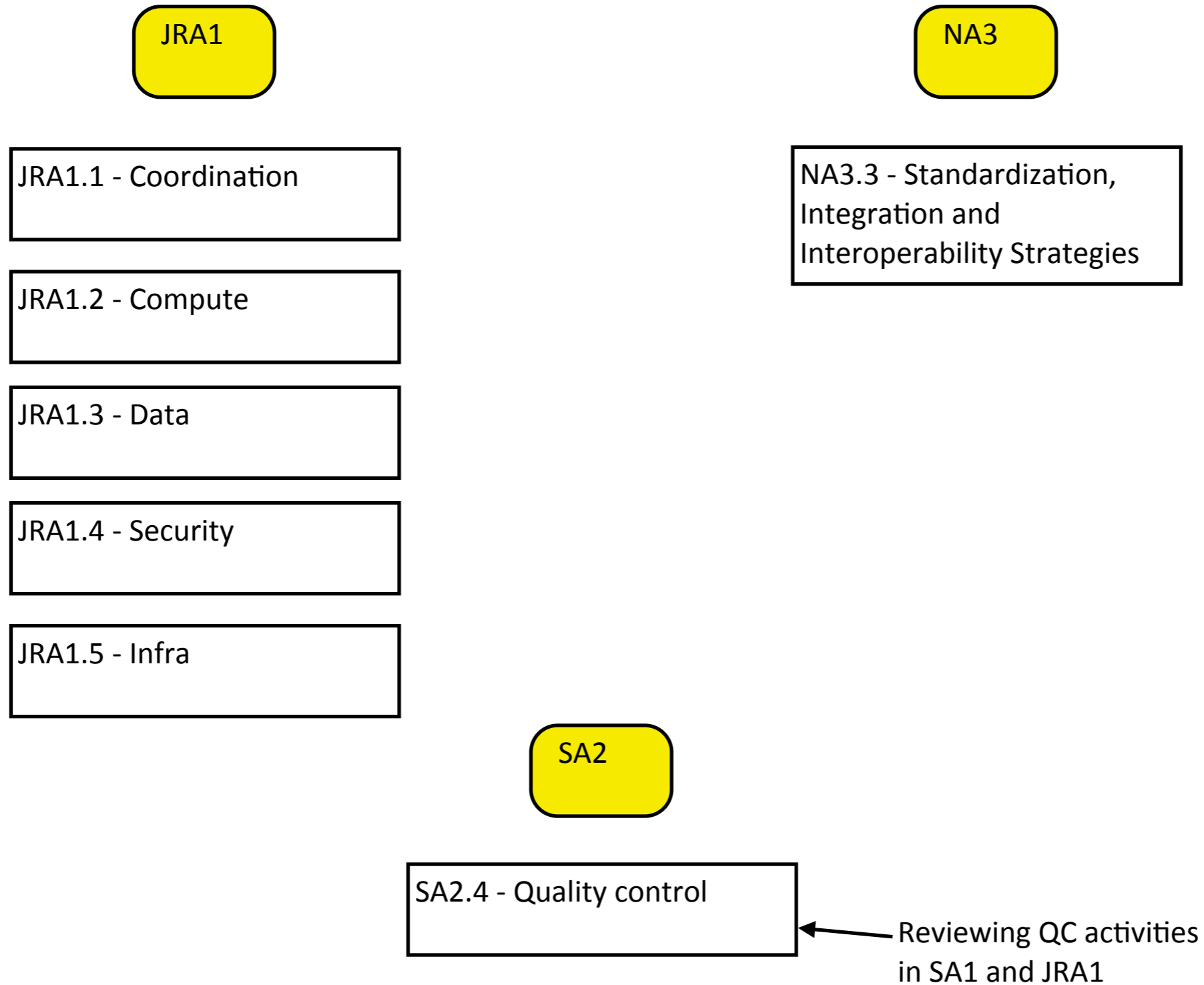
JRA1.6 - Standardization

JRA1.7 - Integration and  
interoperability

JRA1.8 - Quality control

# The new JRA1





JRA1

JRA1.1 - Coordination

JRA1.2 - Compute

JRA1.3 - Data

JRA1.4 - Security

JRA1.5 - Infra

- Lead by TD (25%) and JRA1 co-leader (75%)
- Weekly PTB meetings with TD and area leaders
- Mailing lists
  - emi-jra1
  - emi-jra1-{compute,data,sec,infra}
- <https://twiki.cern.ch/twiki/bin/view/EMI/JRA1>
- <https://savannah.cern.ch/task/?group=emi-dev>


- 4 WP tasks (2 moved to NA3)
- 117 developers (according to PPT)
- 27 PTs
- 14 ongoing internal TFs, 8 external
- 58 products
- 323 RPMs
- 3563831 lines of code (Q5)
  - 3327721 lines in EMI1 release
- 349 open dev tracker entries
  - 64 objectives
  - 276 tasks
  - 9 subtasks



- A lot of EMI work involves several PTs -> task forces
- A TF has a specific, limited mandate and a deadline
- Currently 15 ongoing EMI TFs, JRA1 involved in 14
- Additionally EMI need to take part in 8 external TFs (EGI, WLCG)
  - To know what's going on outside EMI
  - To have some influence on potential incoming requirements
- Updated list of task forces: <https://twiki.cern.ch/twiki/bin/view/EMI/EmiTaskForces>
- New TFs created if needed



- MJRA1.6: File Catalogue web service front end - M15
- MJRA1.17: Test suites of compliance checks in place - M16
- MJRA1.10: EMI Security Workshop - M17
- MJRA1.3: Successful implementation of the **common job submission and management methods** in relevant EMI components - M20
- MJRA1.19: Integrated EMI Major Release Candidates (**EMI2**) - M22
- MJRA1.11: **Easier end-user access** capability to EMI components in place - M22
- MJRA1.7: First implementations of **POSIX compliance and HTTP support** - M24
- MJRA1.12: **Common Security Architecture** Assessment - M24
- DJRA1.2-5: **Area work plans** and status reports - M24

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- DJRA1.2-5: **Area work plans** and status reports - M24

Was not accepted -  
moved to new owner

## Phase 1 (Kebnekaise): “planning”

- **Software integration:** created a distribution
- Agreements: EMI-ES, STAR, GSI-replacement, messaging use cases
- Design: EMI Authentication Library, EMI Registry
- Completed tasks: ~~server side GLUE2, consistent SRM, ...~~

## Phase 2 (Matterhorn): “the YEAR of the Development”

- **Functionality integration**
- Agreements: compute accounting, delegation, ...
- Implementation of all the agreements and first year designs
- Delivery of “EMI products”
- Delivery of the Consolidation plans
- Design: AAI strategy, Cloud strategy

## Phase 3 (Monte Bianco)

- **Full realization of the consolidation plans**
- Implementation of AAI and Cloud strategy
- Finalization of new developments by bringing code to production level

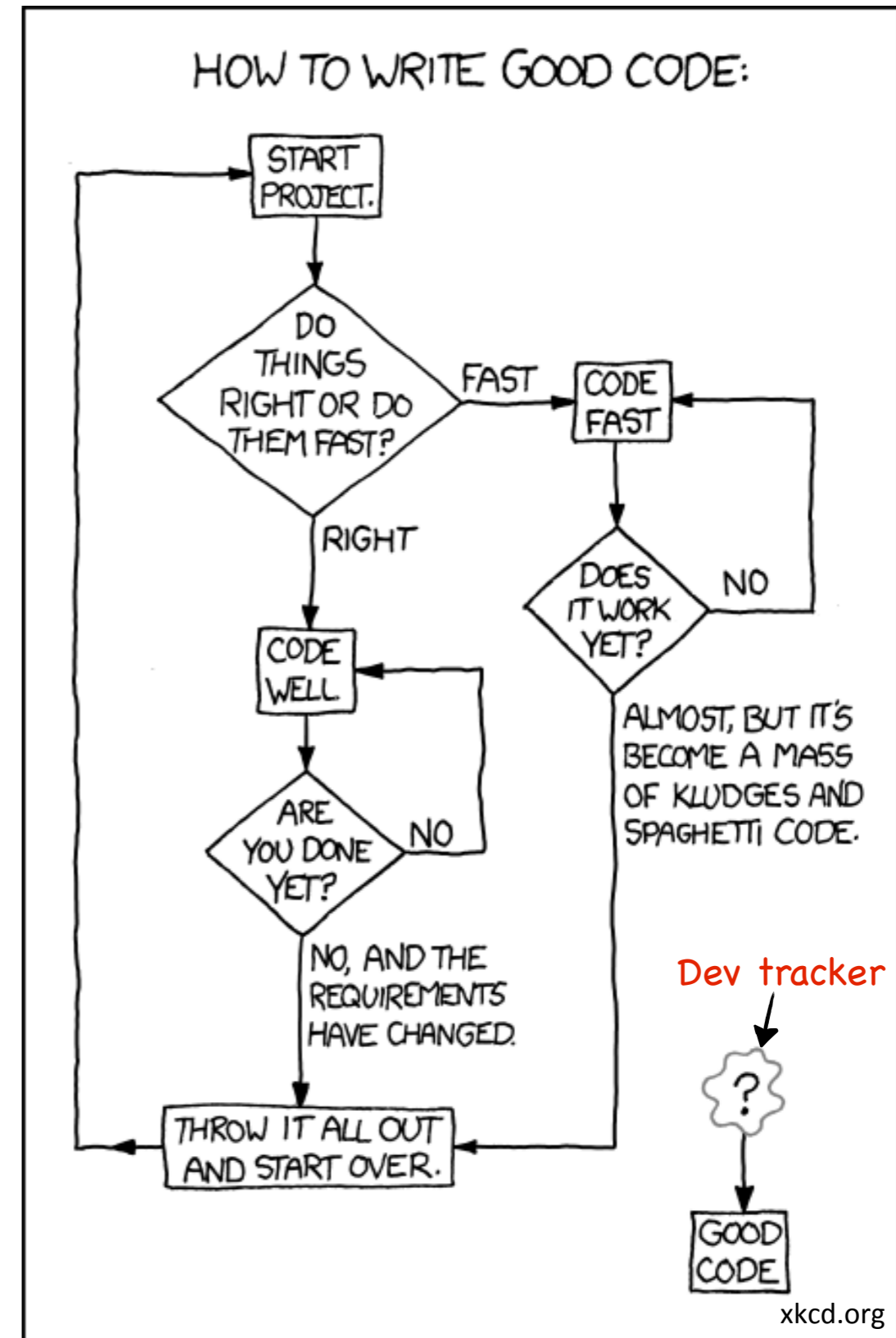
# Matterhorn release timeline



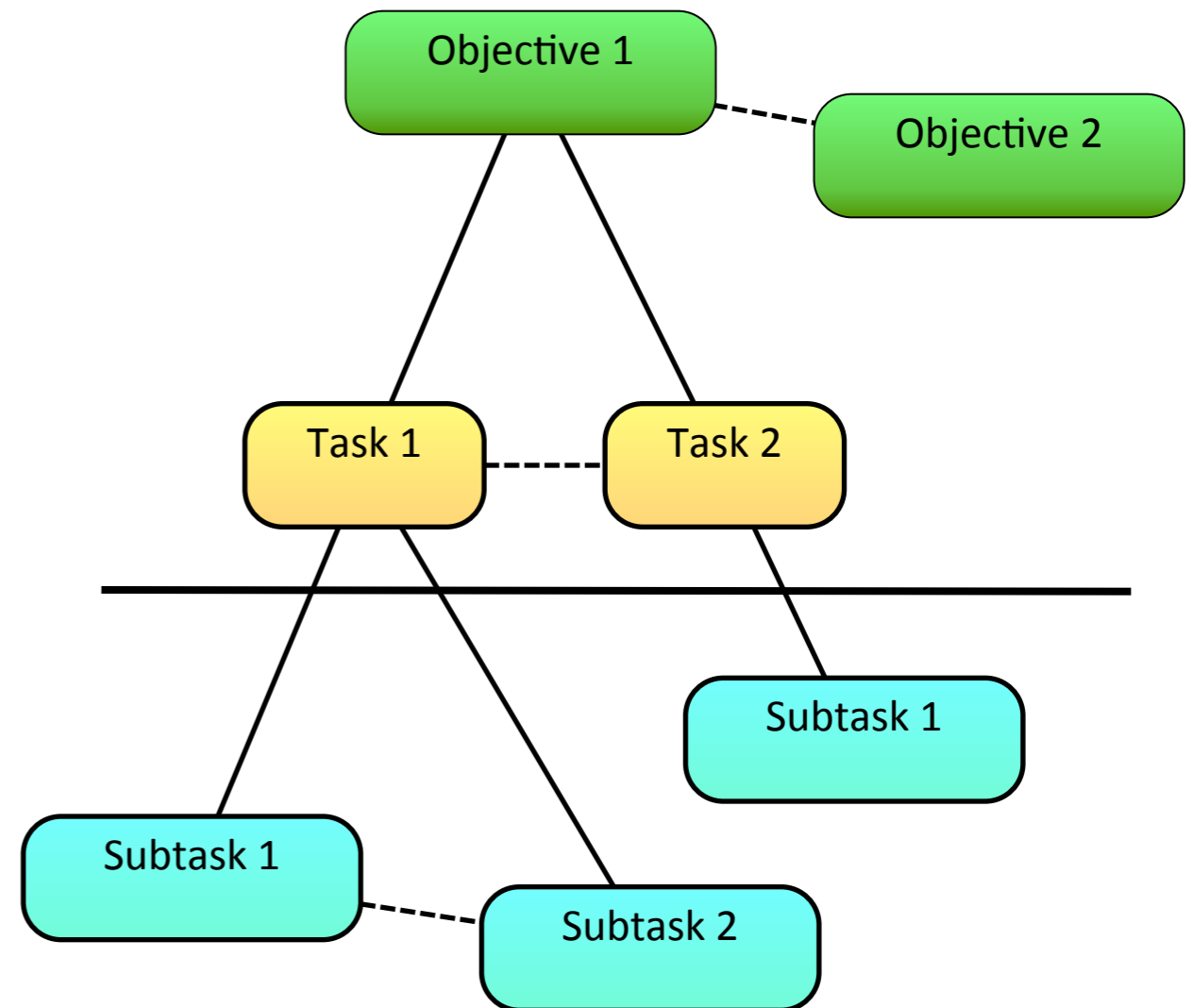
- Development tasks defined and being tracked - July, 2011
  - All Matterhorn tasks are defined
- BUILD environment ready for all platforms: – August, 2011
  - Not fully completed
- QA policies and procedures ready – September, 2011
- **RC1 (1st code freeze) – 14th Dec, 2011**
  - **Successful build and packages available**
  - **All foreseen functionalities should be implemented**
- RC2 (2nd code freeze) – 1st Feb, 2012
  - Bug fixes
  - Available test reports for in-house deployment of RC1
- RC3 ( 3rd code freeze) - 29th Feb, 2012
  - RC2 functionality and config testing, deployment on EMI testbed
- RC4 (final release) - 28th Mar, 2012
  - Full test reports for RC3
  - Fully deployed RC3 on the EMI testbed
  - Only authorized bug fixes (tracked)
- Final Release available in testing repository - 30th Mar, 2012

# Tracking JRA1 development

- A big project with many objectives, lots of products and almost no time -> need some way of tracking the development
  - To see what we've promised to do
  - To see how we progress
  - To pick up on problematic tasks
- The tracking tool in EMI is Savannah, so also for the dev tracker
- If you do development in EMI, you **must** be part of the dev tracker



- Dev tracker hierarchy
  - Objectives
    - Tasks
      - Subtasks
- **Objectives** are taken from DNA1.3.2
- Broken down to PT level **tasks** by JRA1 lead/PTB
- If needed, task owner can break down the task to **subtasks**
- JRA1 lead monitors objectives and tasks, task owner monitors subtasks





**LCG Savannah**

Logged in as jknllsen

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Related Recipes:  
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Search

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- Contributors Wanted
- Statistics

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**Site Help**

- User Docs: Cookbook
- User Docs: In Depth Guide
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**Links**

- GNU/Savane

## EMI Development Tracker - Tasks: Browse Items

Group: **Group** | Main | Docs | Support | **Tasks**

(-) Display Criteria

Browse with the **default** query form and **Simple** selection. Apply

Area: **Any** | Product: | Summary: | Category: **objective** | Status: **Any**

Product Team: | Open/Closed: **Open**

Additional constraint **deactivated** :

**Any** **modified** since **13** **October** **2011**

Show: **500** items at once ; items with a spam score lower than **5** . Warning: only 150 items can be shown at once, unless using Printer Version.

Click a column heading to sort results (up or down), or sort by priority or reset sort. You can also deactivate multicolumn sort. Currently, results are sorted by Area > Category > Should be Finished on .

**64 matching items - Items 1 to 64**

Item ID	Summary	Status	Category	Type	Product	Product Team	Area	Priority	Should Be Finished On
#21759	C1: Glue 2.0 support in job management services	problematic	objective	development			Compute	5	2011-08-31 00:00
#21761	C2: Agreements over an EMI compute accounting record	ongoing	objective	agreement			Compute	3	2011-10-31 00:00
#21762	C3: Intractive access of CEs	not started	objective	study			Compute	2	2011-10-31 00:00
#21764	C4: Common parallel execution framework design	ongoing	objective	design			Compute	3	2011-10-31 00:00
#21765	C5: Server-side implementation of EMI-ES	ongoing	objective	development			Compute	5	2011-11-30 00:00

# Dev tracker example

Choose **default** to get readable tracker

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Choose **default** to get readable tracker

Use search criteria to find your tasks

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You are both [technician](#) and [manager](#) for this tracker.

### task #21867: Nagios probes for AMGA

Submitted by: Balazs Konya <bkonya>

Submit Changes and Browse Items

Submitted on: 2011-08-04 08:03

Submit Changes and Return to this Item

Should Start On: 1 May 2011

Should be Finished on: 30 September 2011

Planned to be finished:

Assigned to: shwang

Product Team: AMGA

Category: \* task

Type: \* development

Priority: \* 5

Status: \* ongoing

Privacy: Public

Percent Complete: 10%

Open/Closed: Open

Discussion Lock: Unlocked

Product: AMGA

Area: \* Cross

Task page:

Request:

Planned Release: EMI 1.0 update

Associated Test: None

Description:

Provide and distribute tested and documented Nagios probes for the AMGA server according to the EGI operations requirements.

EMI Nagios task force information: <https://twiki.cern.ch/twiki/bin/view/EMI/NagiosProbes>

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Task, assigned to PT leader or actual developer



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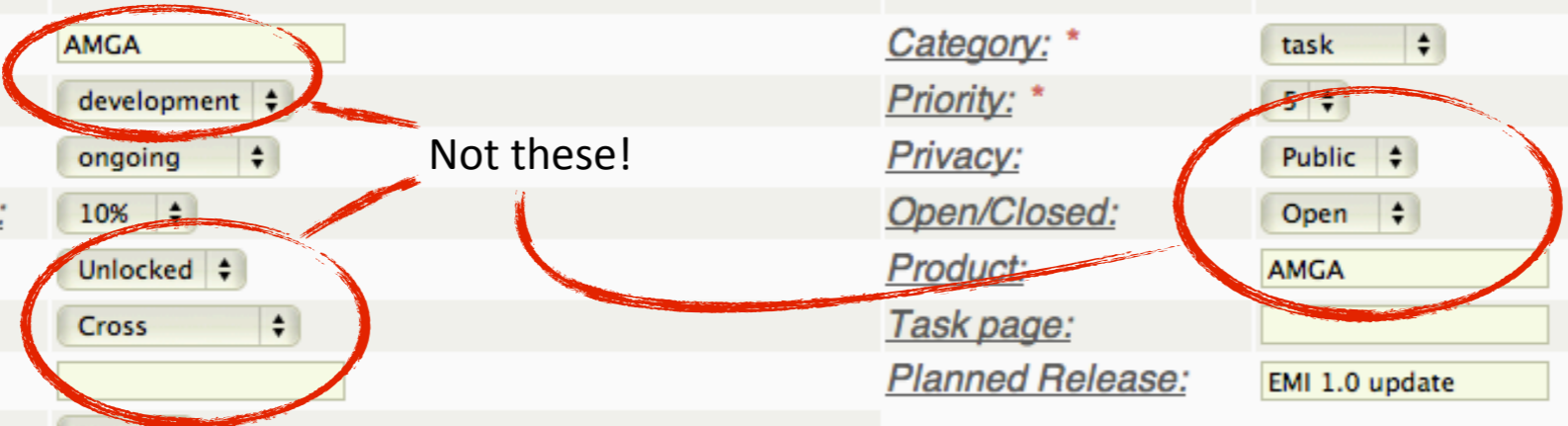
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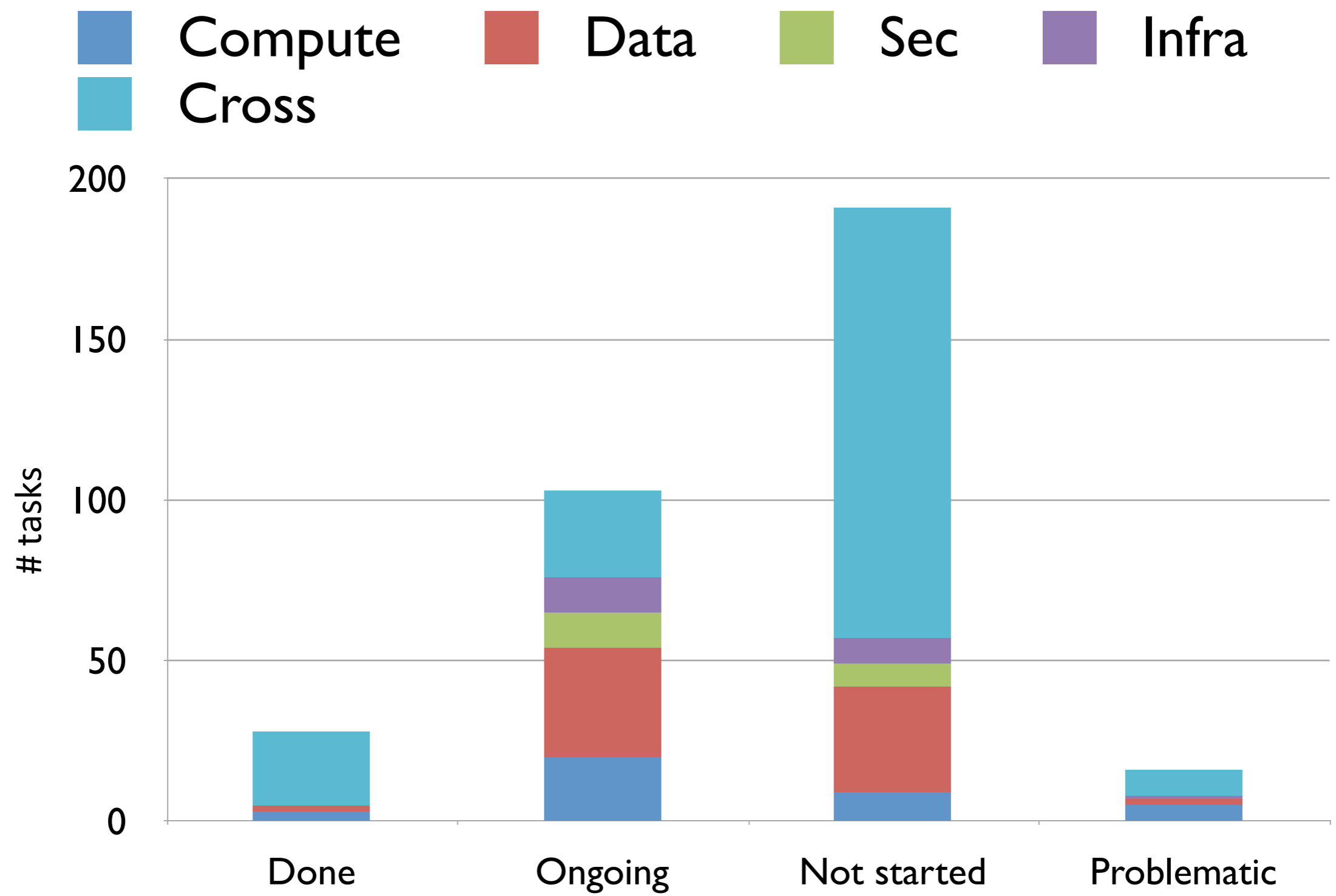
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  - Nothing new added, only news is that the development is tracked



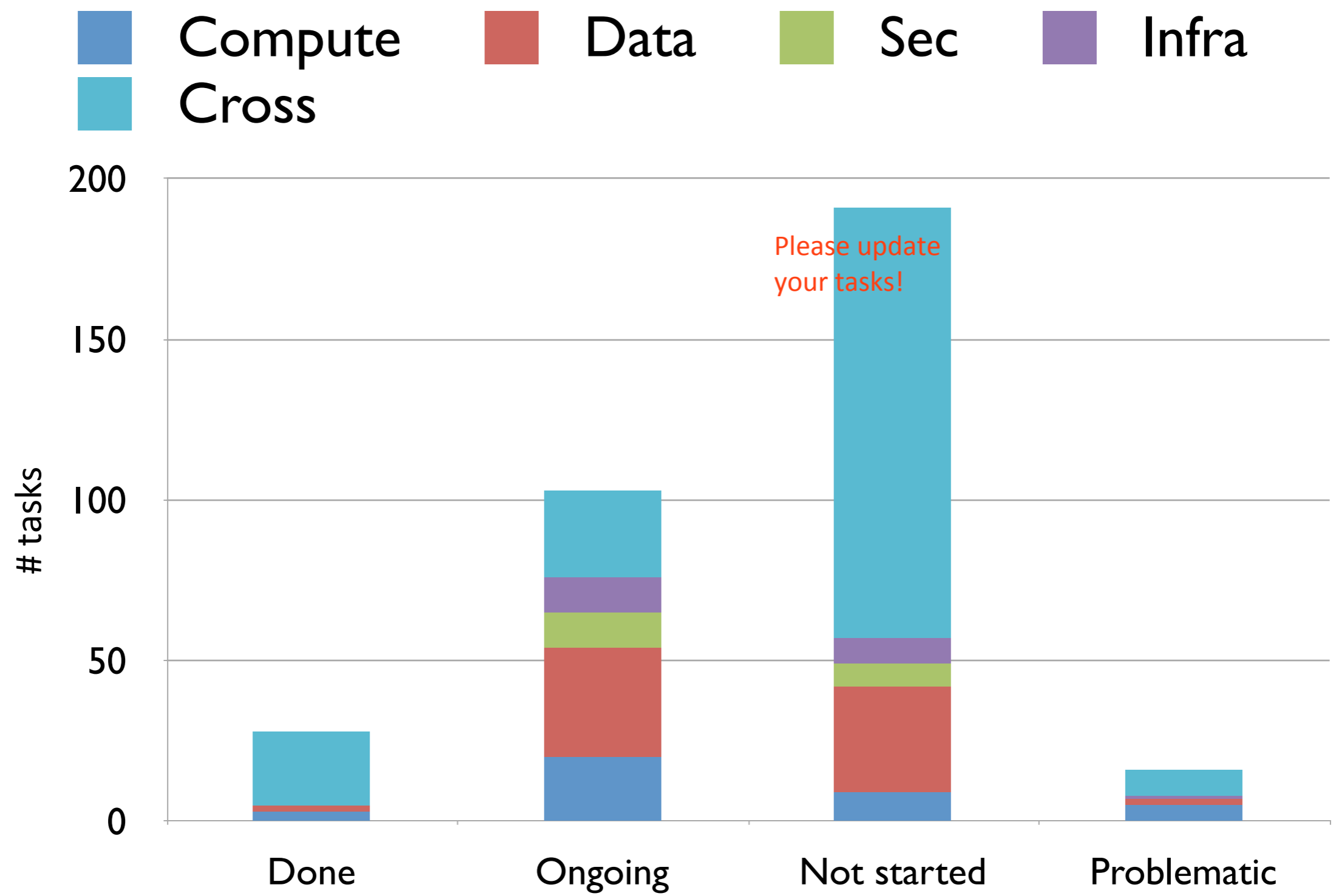
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  - Objectives X10, X11, X12, X13, X15, X16, X17 not yet broken into PT tasks
  - still need to define how to break them up
    - two already quite clear
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- If you miss tasks you think should be tracked, please let us know

# Status per area



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- A task is marked as problematic
  - if delayed more than a month
  - if expected to be delayed
  - if unknown who is/should be assigned
  - if task is unclear/problematic for the owner
  - if child task is problematic

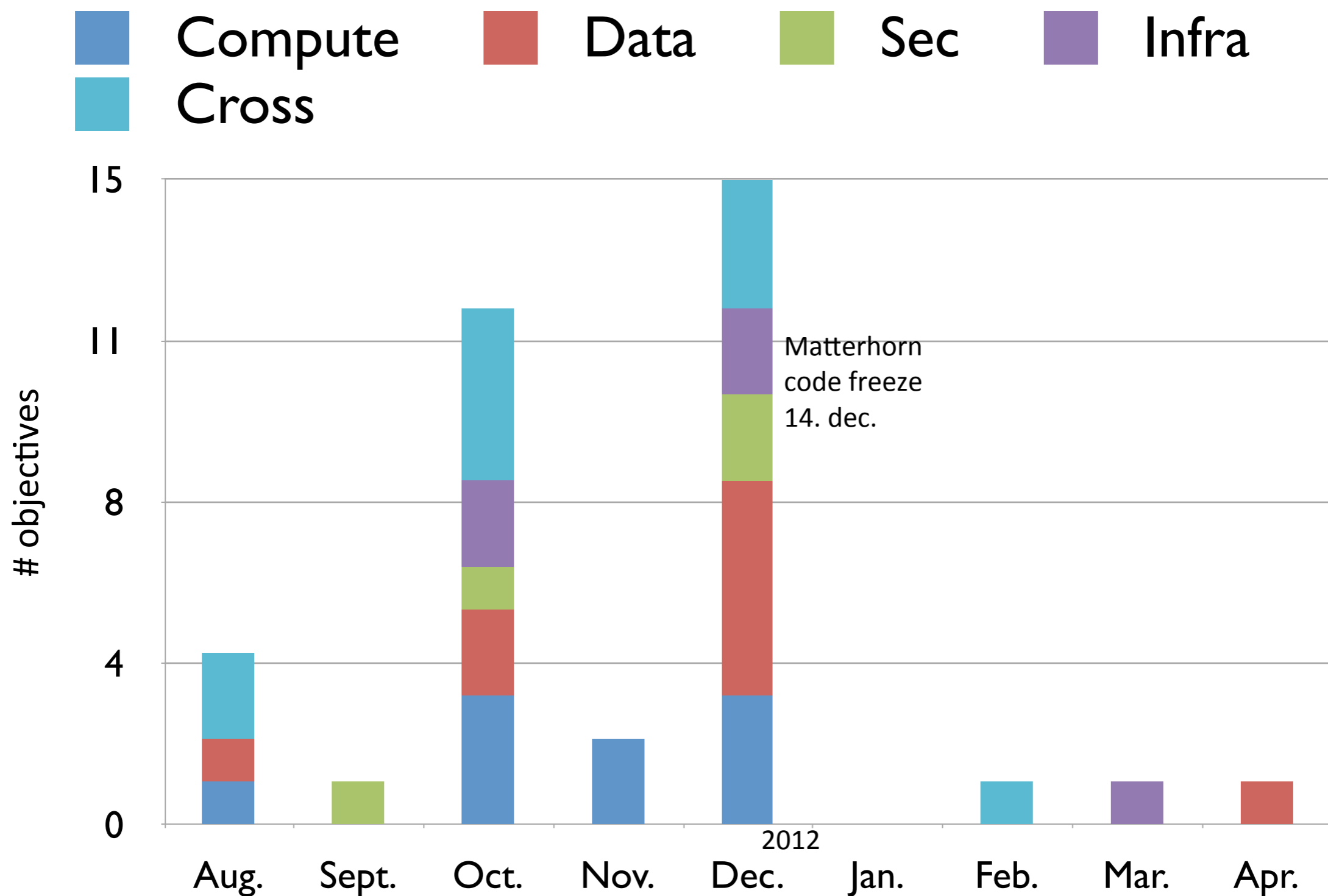
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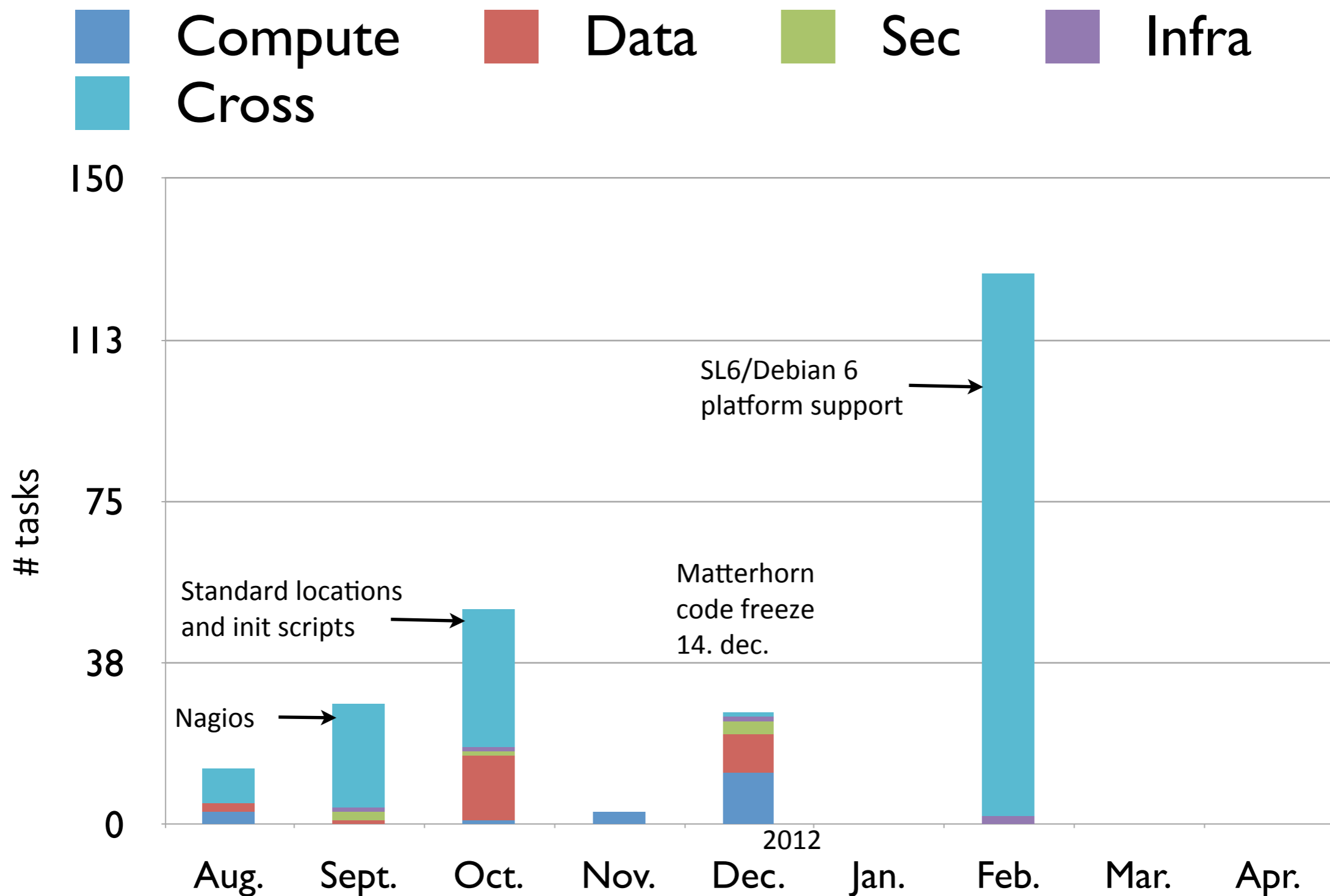
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  - ARC CE lost developer, replacement found - aims for EMI2 code freeze
  - CREAM found more issues than expected - aims for EMI2 code freeze
- Publish version information
  - Should be finished in August
  - Limited response from product owners
  - Not initially clear who should be assigned to glite-info-provider
  - Tasks for SEs and Hydra created quite late, no info from task owners
  - glite-info-provider task involves too many products - very hard to know if finished



# Objectives per month



# PT tasks per month



- Too many tasks in JRA1
  - More visible after filling the dev tracker
  - If we get new requirements we should consider dropping some existing tasks
  - We might have to consider dropping tasks even without new requirements

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  - Some PTs seem overloaded
- Could improve response rate from some task owners
  - Surprisingly good response on the dev tracker already
  - However, very limited response from some task owners
  - The dev tracker is the one place to track development
    - please check if there are tasks your PT owns/should own and if they should be updated
  - and check your spam folder for mails from “noreply [Jon Kerr Nilsen] <[noreply-savannah@cern.ch](mailto:noreply-savannah@cern.ch)>” with subject “[task #....” :-)

- Nagios probes
  - Near half of the Nagios tasks done so far
  - JRA1 provides (or endorses existing) probes
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- Cloud strategy
  - NA3 cloud strategy is taking shape
  - Currently two alternative models
    - Service interoperation (SI) - use EMI components to manage cloud infrastructure
    - Virtual Grid Service (VGS) - package and configure EMI services in a VM image
  - Still not clear what the impact on JRA1 will be
    - SI will probably have higher impact, unclear if VGS will make any impact on JRA1 at all
  - Hopefully things will be clearer after AHM

- Parallel sessions this morning:
  - Compute: GLUE2, EMI-ES, CAR, consolidation
  - Data: GLUE2, SRM+delegation, SE+LFC synch, StAR, consolidation
  - Sec: XACML, SAML, credential validation, AuthN simplification
  - Infra: EMIR, MPI accounting, monitoring and mgmt, consolidation



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- Tuesday morning plenaries
  - Consolidation
  - Simplified credential management, what EMI 2 will offer (related task #21798)
  - Messaging Product Team Status Update
  - Service registry, publishing and discovery (related task #21808)
  - Accounting - from an EMI plan to an EGI operational service

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  - Accounting - from an EMI plan to an EGI operational service
- Tuesday afternoon working sessions
  - Standards, consolidation, harmonization, delegation

- Parallel sessions this morning:
  - Compute: GLUE2, EMI-ES, CAR, consolidation
  - Data: GLUE2, SRM+delegation, SE+LFC synch, StAR, consolidation
  - Sec: XACML, SAML, credential validation, AuthN simplification
  - Infra: EMIR, MPI accounting, monitoring and mgmt, consolidation
- Tuesday morning plenaries
  - Consolidation
  - Simplified credential management, what EMI 2 will offer (related task #21798)
  - Messaging Product Team Status Update
  - Service registry, publishing and discovery (related task #21808)
  - Accounting - from an EMI plan to an EGI operational service
- Tuesday afternoon working sessions
  - Standards, consolidation, harmonization, delegation
- More highlights/details in area summaries Wednesday morning

- EMI Year 2 is the year of implementation
- All dev tracker tasks should hopefully be clarified this week
- Hopefully many fruitful discussions at this AHM
- Keep the Matterhorn code freeze date in mind
- Don't hesitate to contact mailing lists/TF leader/PT leader/area leader/me/TD if you have questions/problems/delays



Thanks!

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# Extra slides