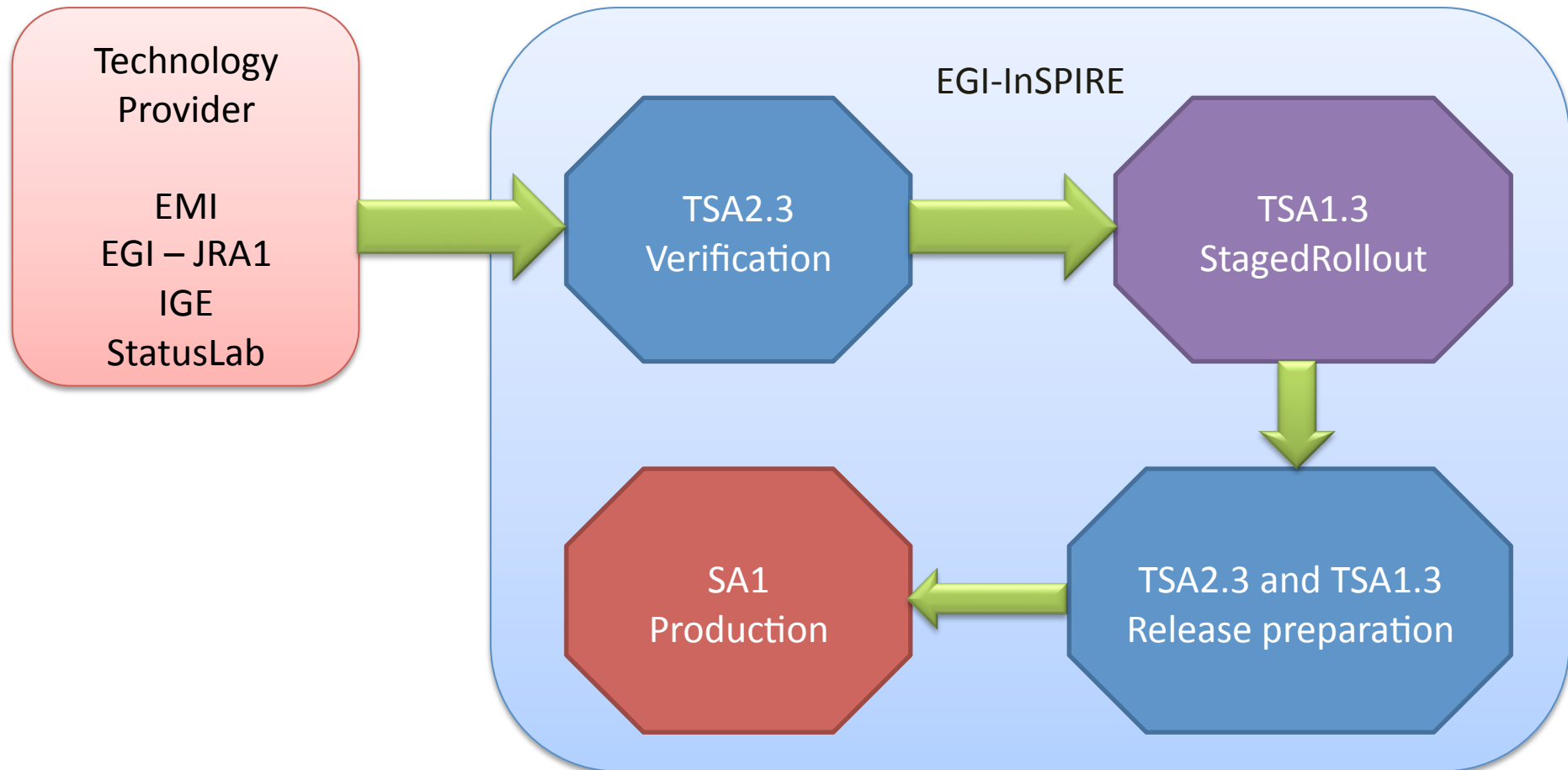


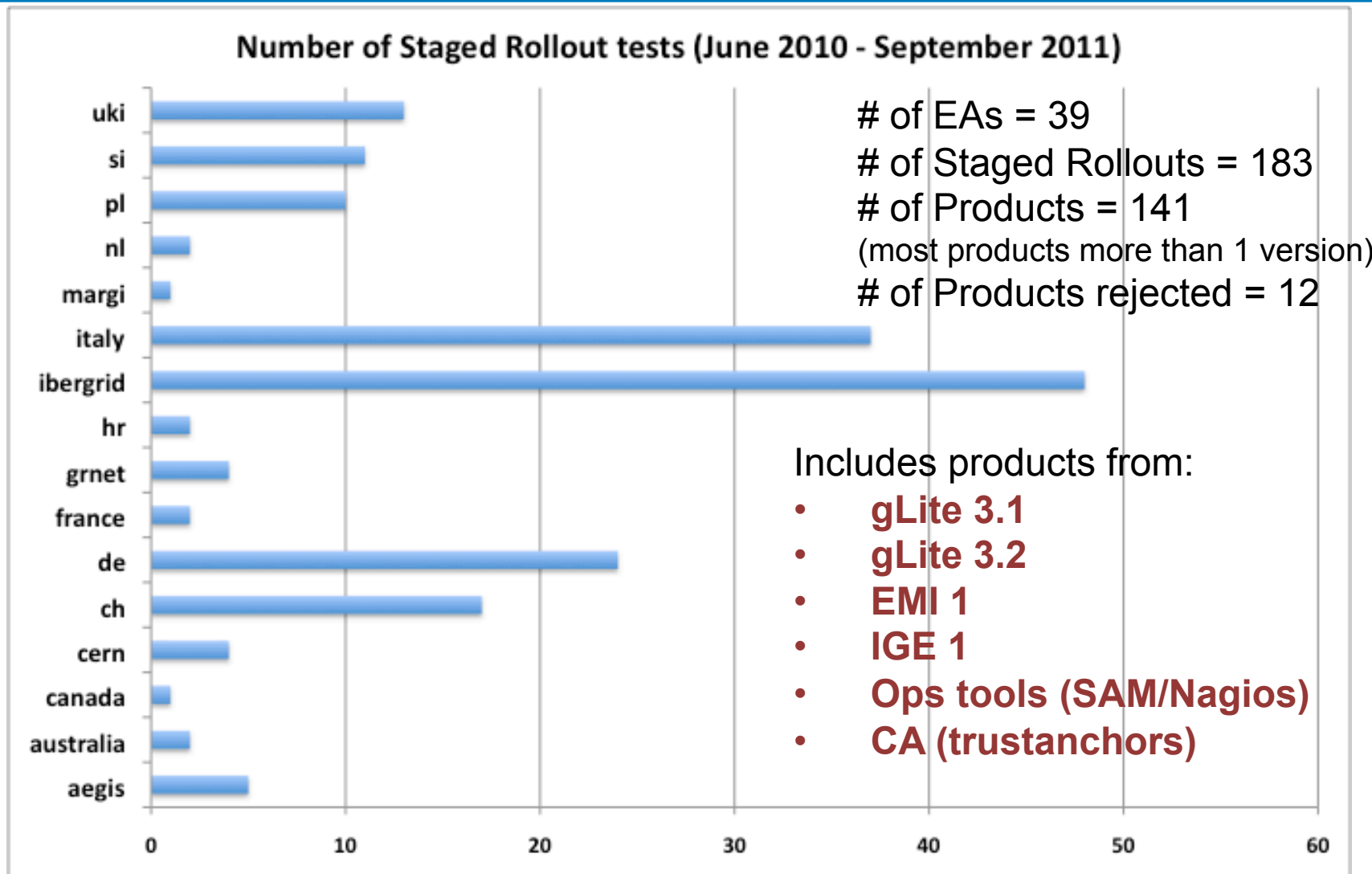
UMD distribution: experiences and feedback from sites

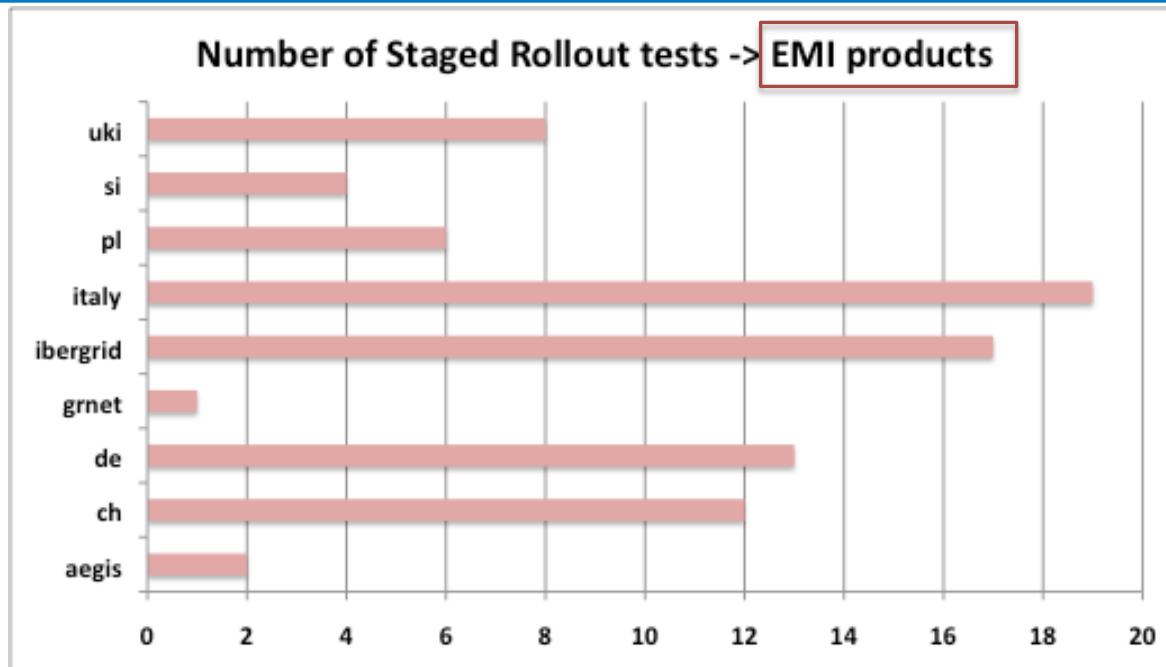
Mario David
TSA1.3

- SW workflow: high level view.
- Experience from EMI/UMD SW provisioning.
- Some statistics.
- Survey EMI/UMD in production
- Issues and comments
- Conclusions/summary



- UMD release:
 - EGI takes SW products from the technology providers (EMI and IGE at the moment).
 - Produce a provisional list of products that are “*candidates*” for the UMD release.
 - Put’s them through the SW provisioning workflow:
 - Verification: verifies generic and specific quality criteria.
 - Staged rollout: deploys and configures the product in production instances.
- Staged rollout relies on Early Adopter sites that are the first ones to deploy the new versions in production, before general availability.
- **The products passing successfully the SW provisioning will be included into the UMD release.**





of EAs = 22

of Staged Rollouts = 82

of Products = 47

(some products more than 1 version)

of Products rejected = 3

$$\frac{\#EA}{\# EGI_sites} = 9.8\%$$

NGIs in GOCDB = 34

EGI sites = 225

EMI products: 38

EMI products in UMD: 32

Products **no EA coverage**:

- **AMGA**
- **FTS**
- **HYDRA (not yet released)**
- **LFC Oracle (may have 1 EA)**
- **VOMS Oracle**
- **MyPROXY (1 Unofficial EA)**



Survey EMI/UMD in production I

Survey about the level of deployment of UMD and EMI released services into the production infrastructure.

Question 1: List here which services (if any) did you deploy from the UMD repositories (<http://repository.egi.eu>), please include the service version.

Question 2: List here which services (if any) did you deploy from the EMI repositories (<http://emisoft.web.cern.ch/emisoft/>), please include the service version.

Total	Q1 (UMD repos)	Q2 (EMI repos)
63	6	9 (5 are early adopters)

~24% of the sites responding have deployed products from EMI or UMD



Survey EMI/UMD in production II

Survey about the level of deployment of UMD and EMI released services into the production infrastructure.

Additional comments and answers

- Mostly upgrade plans in the coming months.
- Sites should be aware that UMD contains products that underwent the verification and staged rollout procedures, thus subject to production environment/load.

- Huge load: large number of EMI products to be verified and staged rollout:
 - 1st Major release.
 - Several updates: more than 1 version of a product in the SW provisioning almost in parallel or close in time.
- dCache is taken by sites from dcache.org:
 - Release in EMI/UMD has somewhat outdated versions.
 - 2 sites did the staged rollout based on versions they had in the past or presently in production.
- ARC is taken by most sites from nordugrid.org. Similar reasons to dCache. Also, ARC sites deploy some variety of Linux flavours (not just SL5).
- Sites strive for stability and as low as possible upgrade rate.
- Sites will “jump” for new versions if they have real and annoying issues.

- EMI release rate is set around every 3 weeks:
 - Major release (12 May) and 6 updates (until 1st September) → ~ 1 release every 3 weeks
- UMD release rate is planned to be quarterly after UMD 1.3:
 - Major release 11th July, 1st update after 3 weeks, 2nd update after 1.5 month (from the update 1).
 - 3rd update (UMD 1.3) planned for the end of October (but see later on).
 - Except for urgent updates or security vulnerabilities.
- **Verification and staged rollout have detected and open a quite large number of GGUS tickets: 40+ GGUS tickets:**
 - Some of those issues appeared only in the production environment (i.e. staged rollout)
 - Some have to do with documentation
 - ...

- Staged rollout has been done in production instances in some cases, but also in test instances that are included in production:
- Comments please *“Need to be involved earlier (much earlier) in beta testing, so that any issues that are discovered can be solved before the actual certification in EMI, and thus make it the next round of updates”*.
- We still need more EA teams even for already covered products:
 - Although ~ 100% of sites expect to have stable, robust, etc. MW products, there is a “price” to get there.

- UMD1.3 by the end of October.
- Both ARC and dCache should strive to have their latest production versions in EMI and then UMD:
 - This will give them more visibility to be adopted by more/newer sites.
- The “price” of being early adopter (EA) will compensate later in more stable and robust SW.
- In staged rollout, issues maybe found by 1 EA and not by others:
 - More EA teams for each product gives “*redundancy*”, “*failover*”, “*backup*”.