

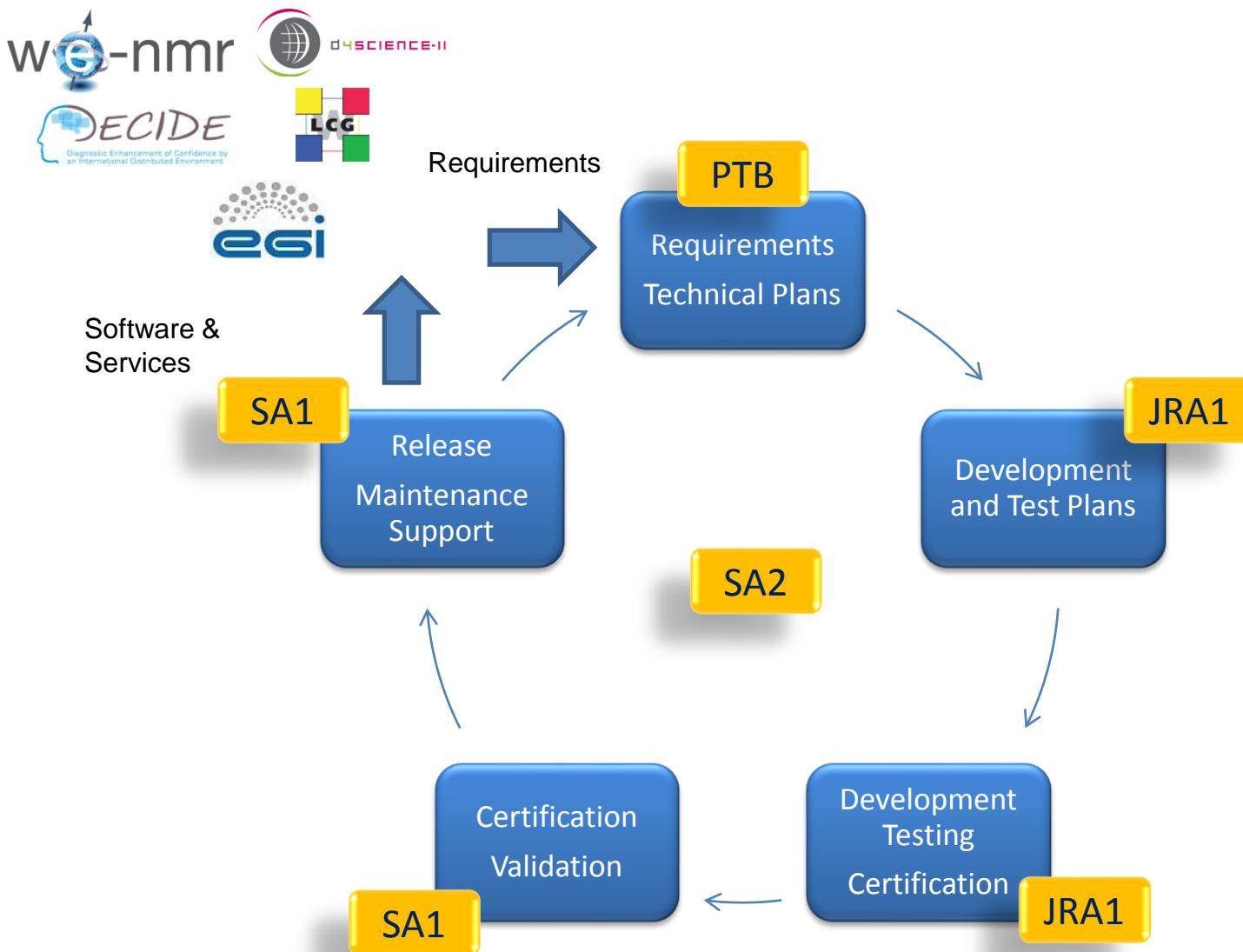


EMI: dal Produttore al Consumatore

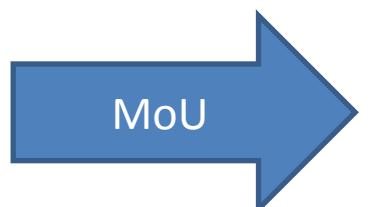
Francesco Giacomini
Workshop CCR/INFNGrid
La Biodola, 16-20 Maggio 2011

© Cristina Aiftimieci
WLCG GDB, CERN, 11 May 2011

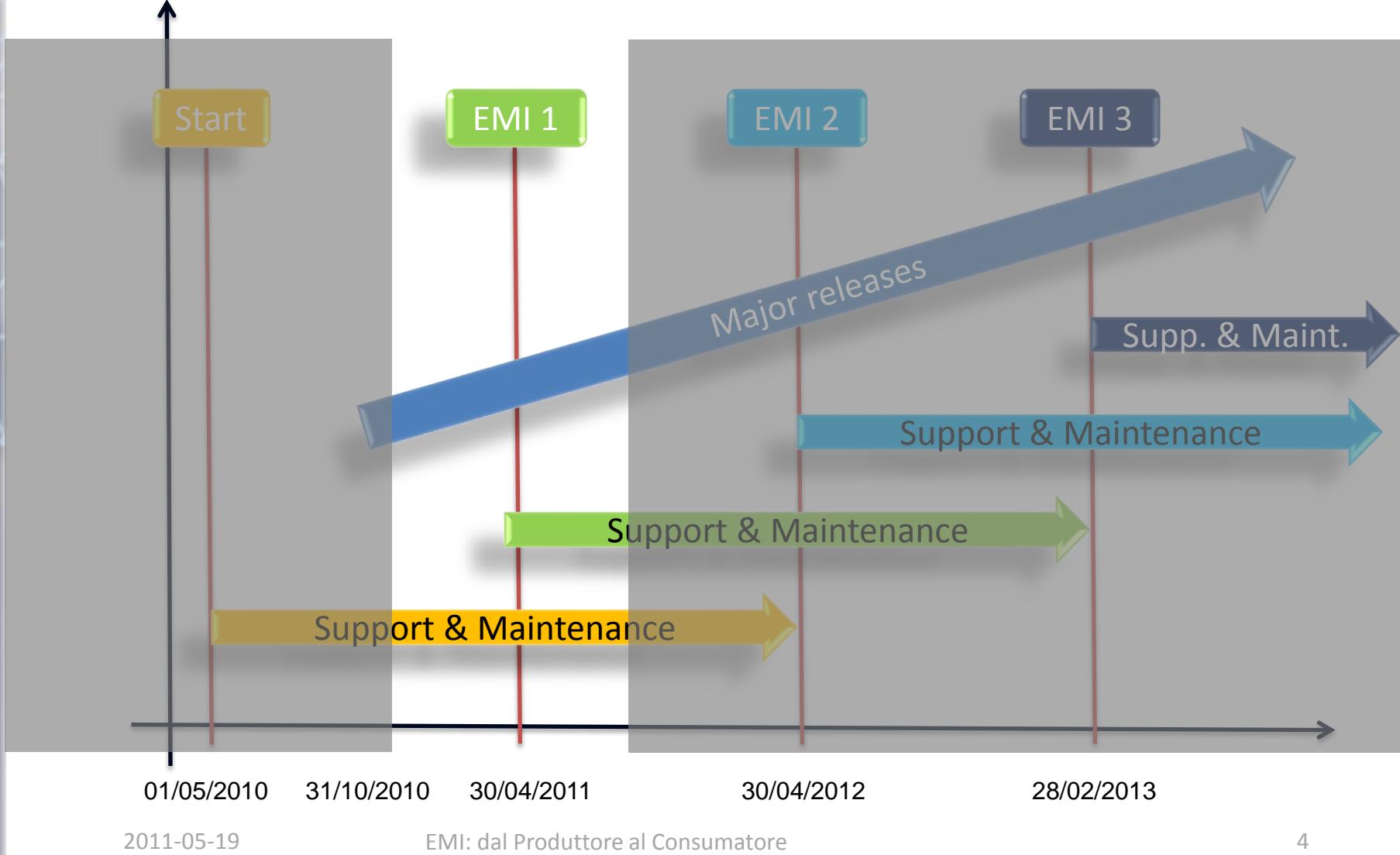
Consumers and Producers



SLAs, MoU and Networking



EMI 1 in the Release Plan



EMI 1 (Kebnekaise)



- EMI 1 is the result of 1 year of activity:
 - Continuous support and maintenance for the ARC, dCache, gLite and UNICORE
 - Collection of requirements, planning, development/integration/ standardization, testing, verification
- EMI 1 Release → **12.05.2011**

EMI 1 (Kebnekaise)



- Two distinctive aspects:
 - A distribution snapshot with common objectives and following common integration, standardization, quality criteria
 - A collection of Products (services, clients, libraries, metapackages) providing specific functionality

EMI 1 in Numbers



- 61 Products from ARC, dCache, gLite, UNICORE
 - <https://savannah.cern.ch/task/?group=emi-releases>
- 333 EMI packages
- 192 external deps, 172 from SL5/EPEL, 20 managed by EMI
- 100% of RPMS
- 86% of SRPMS
- Latest builds:
 - http://eticsrepository.cern.ch/repository/reports/id/d46efe8d-1efd-4874-aeaa-0d9b500125c4/sl5_x86_64_gcc412EPEL-/reports/index.html
 - http://eticsrepository.cern.ch/repository/reports/id/666bad57-0214-471c-8f9b-b02032c3e375/sl5_ia32_gcc412EPEL-/reports/index.html

EMI 1 Repository



- EMI 1 Package Repository:
 - base
 - updates
 - third-party
- *base* and *updates* are signed with an EMI key
- Repo files and public key can be installed
 - using an rpm (emi-release-1.0.0-1.noarch.rpm)
 - Manual download from the repository

EMI 1 Overall Features

- Single distribution from the same repository of all products from ARC, dCache, gLite, UNICORE
- Standard packaging and installation paths according to Fedora guidelines
- External dependencies almost entirely taken from base OS (SL5) or EPEL
- Built on SL5 x86_64 (fully supported) and i386 (partially supported)
- Several integration and standardization changes:
 - Use of the same Globus libraries for all services (from EPEL, maintained by IGE)
 - Use of the same version of each dependency

EMI 1 Release Criteria



- The release snapshot is based on the achievement of a set of “acceptance criteria” (certification, package formats, documentation, etc)

TWIKI > EMI Web > EMI-1 > EMI1AcceptanceCriteria (10-May-2011, AlbertoDiMeglio)

EMI 1 (Kebnekaise) - Acceptance Criteria List

The acceptance criteria are the conditions by which a Product is considered ready or not for inclusion in an EMI release. The criteria can be “exclusive” or “inclusive”. A criterion causes exclusion from the release, failing an inclusive criterion doesn’t cause exclusion from the release, but the Product is marked as not fully compliant. The exclusive criteria are marked in **bold** in the table. Refer to the legend for an explanation of the colour coding.

	Certification Report	Binary RPMs	FHS Compliance [1]	Documentation RPMs	Source tarball	Binary tarball	Source tarball	Comments
AMGA v 2.1.2	OK	OK	OK	OK	OK	OK	OK	
APEL parsers v 1.0.0	OK	OK	OK	OK	OK	OK	OK	
APEL publisher v 1.0.0	OK	OK	OK	OK	OK	OK	OK	
ARGUS v 1.3.0	OK	OK	OK	OK	OK	OK	OK	
ARGUS-EES v 0.0.10	OK	OK	OK	OK	OK	OK	OK	
CREAM LSF module v. 1.0.0-1	OK	OK	OK	OK	OK	OK	OK	
CREAM TORQUE module v. 1.0.0-1	OK	OK	OK	OK	OK	OK	OK	
DGAS-sensors	OK	OK	OK	OK	OK	OK	OK	
DPM v 1.8.1	OK	OK	OK	OK	Warning	FAIL	FAIL	Warning Not all src rpm, tar.gz, src.tar.gz, Doc i
LFC v 1.8.1	OK	OK	OK	OK	Warning	FAIL	FAIL	Warning Not all src rpm, tar.gz, src.tar.gz, Doc i
dCache v. 1.9.12	OK	OK	FAIL	OK	FAIL	OK	OK	Only dcache-server and dcacheVoms compliant, the clients are not. Not all c no ref. to EMI
Delegation Java v.2.0.1	Warning	OK	OK	Warning	OK	OK	OK	Certified - as being part of other servic ref. to EMI
core BDII v 5.2.3	Warning	OK	OK	FAIL	OK	FAIL	FAIL	Certified - as being part of other servic present, doc present not in pdf but in t
lcg-info-clients v1.0.0	Warning	OK	OK	FAIL	OK	FAIL	FAIL	Testing done, report format not compli
site BDII v. 1.0.0	Warning	OK	OK	FAIL	OK	FAIL	FAIL	Certified - not compliant to policies, Dc some in twiki, no ref. to EMI
top BDII v.1.0.0	Warning	OK	Warning	FAIL	OK	FAIL	FAIL	Certified - but not compliant to policies glite-info-provider-ldap - not FHS comp 3.1), some in twiki, no ref. to EMI
FTS v 2.2.6	FAIL	OK	OK	Warning	FAIL	OK	OK	No certification, no src.rpms, some do
StoRM SE v 1.7.0	FAIL	OK	OK	Warning	FAILED	OK	Warning	Not certified, Not all components have no ref. to EMI
Hydra v 1.0.1	FAIL	OK	OK	FAIL	OK	OK	OK	No certification, no doc

Notes:

[1] FHS = Filesystem Hierarchy Standard, <http://www.linuxfoundation.org/en/FHS>

-- DoinaCristinaAftimie - 09-May-2011

<https://twiki.cern.ch/twiki/bin/view/EMI/EMI1AcceptanceCriteria>

EMI 1 Products



- All Products individually tracked
 - <https://savannah.cern.ch/task/?group=emi-releases>
- Many enhancement in all Products, most notably:
 - CREAM: http://bit.ly/cream_emi1
 - Bug fixes ~ 24
 - DPM: http://bit.ly/dpm_emi1
 - Bug fixes ~ 10
 - VOMS: http://bit.ly/voms_emi1
 - Bug-fixes ~ 34
 - WMS: http://bit.ly/wms_emi1
 - Bug fixes ~ 40

EMI 1 Known Issues



- Components not in as of 12/05/2011:
 - FTS, Storm, Hydra
 - Certification not completed in time
- BDII released but:
 - Certification report could be more detailed
 - Not all RPMs comply with the standard fs hierarchy
 - Documentation missing
 - A number of outstanding bugs not yet fixed
- Torque support
 - Best effort, but we are working to address this
- Commitment to work on these issues in the coming days and provide updates/fixes

Next Steps

- As of next week:
 - start regular updates – support and maintenance phase
 - every product/component maintained independently (but only backward compatible changes)
- Start porting to SL6 and Debian (precise schedule to be worked out)
- Start EMI 2 development work, based on prioritized requirements
- Start the “EMI Release Preview Testbed”

SLA



- Signed with EGI on 2011-04-15
- It covers Software releases, Requirements analysis, Requirements and software testing reports, Web-based support
- Defines roles and responsibilities
- Outlines the parameters of all covered services
 - E.g. for support it defines response (not solution) times depending on priority:
 - 4 hours for Top Priority
 - 2 days for Very Urgent
 - 5 days for Urgent
 - 15 days for Less Urgent

EMI Release Preview Activity



- EMI-coordinated release assessment with external entities (aka volunteers)
 - Volunteer 'sites' (12) providing hardware resources and administration effort to install and configure products
 - Volunteer 'user communities' (6) providing effort to test the products deployed by volunteer sites using community-specified use cases
- MoUs in place/being established with some of these volunteers (5)
- Release preview wiki, including list of volunteers and service inventory:

<https://twiki.cern.ch/twiki/bin/view/EMI/EMIReleasePreview>

EMI Requirements Analysis Phase



- The EMI 2 ***major requirements*** analysis phase ended last week
 - Based on requirements received from EGI, WLCG and some user communities
 - Analyzed, prioritized and recorded in the EMI Requirements tracker:
 - <http://savannah.cern.ch/emi-req>
- Taking into account the effort and resources available, we are always open to further discussions on these requirements and their priorities
- ***Minor requirements*** submitted through GGUS at any time will be considered

Communication Channels



- emi-announce@eu-emi.eu
 - <http://mail.eu-emi.eu/mailman/listinfo/emi-announce>
- User Forums:
 - <http://www.eu-emi.eu/forums-mls>
- EMI 1 web site:
 - <http://www.eu-emi.eu/emi-1-kebnekaise>
- Package Repository:
 - <http://emisoft.web.cern.ch/emisoft/index.html>



European Middleware Initiative

Thank you

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