



Sviluppo middleware sostenibile Il caso di EMI

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Workshop CCR/INFNGrid
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©Alberto Di Meglio
EGI UF/EMI TF, Vilnius, 11-14 April 2011

EMI 1 (Kebnekaise) is out

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EMI 1 Middleware Release Announcement

The EMI project is pleased to announce the availability of the EMI 1 (Kebnekaise) release.

This release features for the first time a complete and consolidated set of middleware components from ARC, dCache, gLite and UNICORE. The services, managed in the past by separate providers, and now developed, built and tested in collaboration, follow well established open-source practices and are distributed from a single reference repository. The reference platform for EMI 1 is Scientific Linux 5 64 bit.

Kebnekaise will be supported for 18 months, with 6 additional months of support for security issues.

For more details on the EMI 1 release and the middleware products composing it, please refer to the following links:

- [EMI 1 Release page](#)
- [EMI User Forums](#)
- [EMI Software Repository](#)

[Tweet](#)

2nd EMI All-Hands Meeting

The second EMI All- Hands meeting will take place in Lund from Monday May 30th to June 1st. The meeting agenda and logistics information is available on the [event page](#).

Registration has re-opened until May 12! Please visit the event page above or follow the [direct link](#).

The main building of the University of Lund, Sweden, inaugurated in 1882

Middleware Updates

EMI 1.0.0 (Kebnekaise) has been released

- [Release of dCache Server 1.9.5-26](#)
- [Release of dCache Server 1.9.5-25](#)
- [Release of dCache Server 1.9.5-24](#)

- [Published Update 28 to gLite 3.2 \(sl5_x86_64\)](#)
- [Published Update 72 to gLite 3.1 \(sl4_i386\)](#)
- [Published Update 72 to gLite 3.1 \(sl4_x86_64\)](#)

A European Vision



Distributed
European
Infrastructure for
Supercomputing
Applications



Sustainability
Persistence
Interoperability
Easier Access



EMI Mission Statement



The European Middleware Initiative (EMI) project represents a close collaboration of the major European middleware providers - ARC, gLite, UNICORE and dCache - to explore and implement sustainable models to support, harmonise and evolve the distributed computing and data management middleware for deployment in EGI, PRACE and other distributed e-Infrastructures



KnowARC

2011-05-19



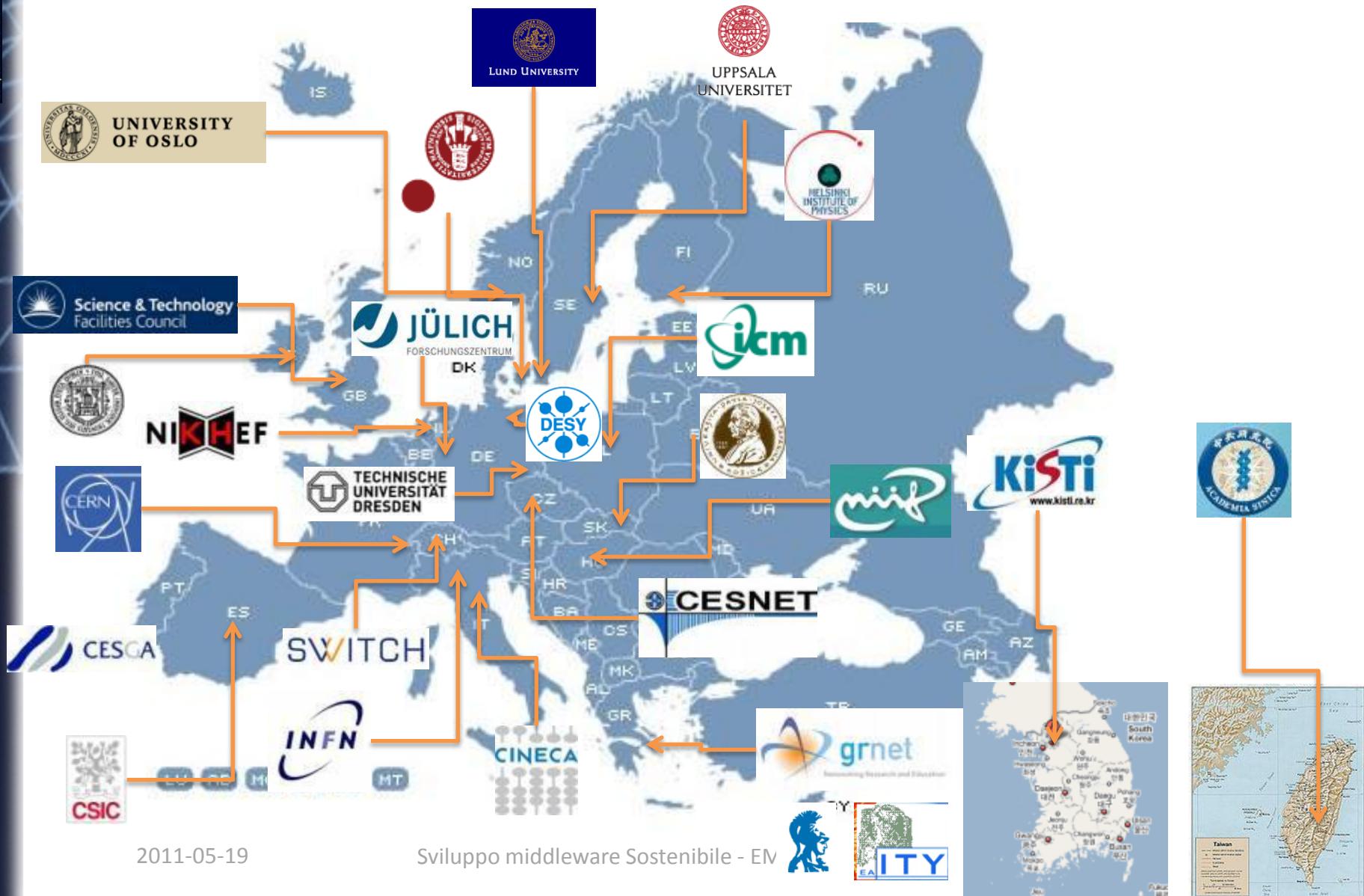
Sviluppo middleware Sostenibile - EMI

UNICORE



dCache.ORG

Partners (26)



Open Source Models



Community model

Apache, Eclipse

Support contracts
or Subscription
model

Red Hat, Canonical

Dual-licensing or
Commercial model

MySQL, gSOAP

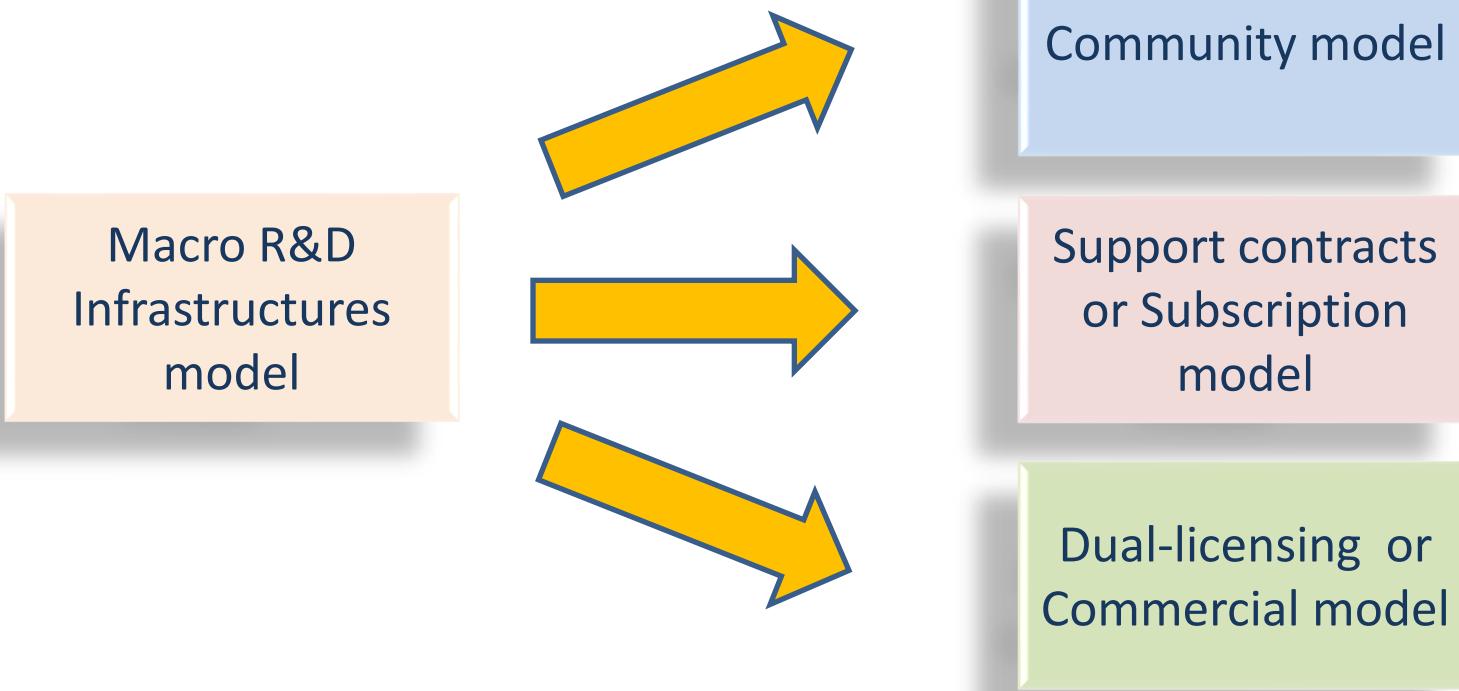
Macro R&D
Infrastructures
model

EMI and other publicly funded
projects

Open Source Models



Incubation in the right condition becomes



Sustainability Drivers

Expansion of the user base



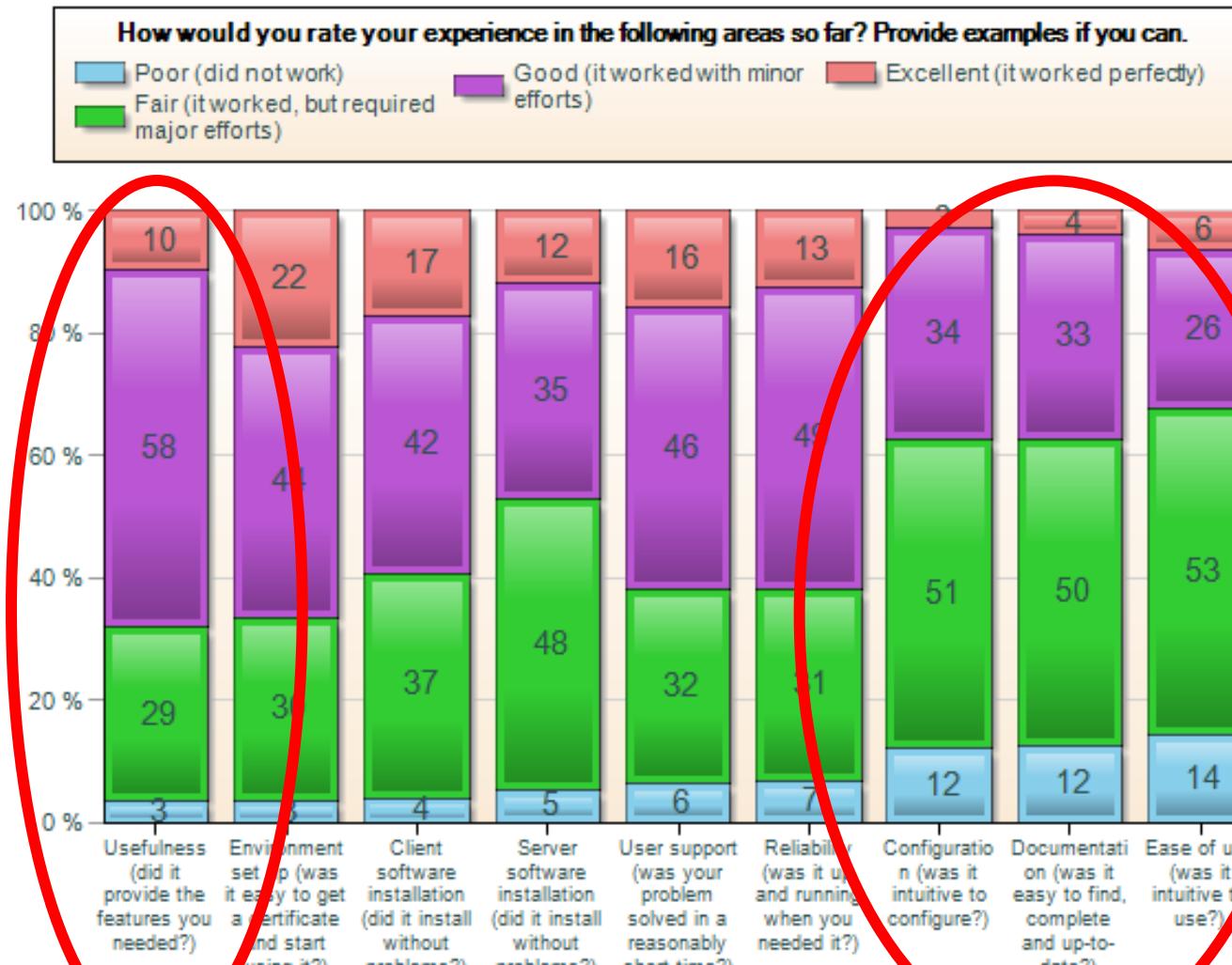
Decrease of costs



Commercial activities



Expansion of the user base



From EMI Distributed Computing Survey, Feb 2011



Expansion of the user base



Reduction of costs and effort



- Simplification, off-the-shelf software
- Best practices and policies
- Standard QA and software processes (ITIL)
- Standardization
 - Active involvement in OGF and SIENA
 - EMI ES contributed to OGF PGI
 - Proposal on Storage Accounting Records
 - Support for GLUE 2 .0, SAML
 - Use of standard SSL, http (webdav), NFS1.4/pNSF



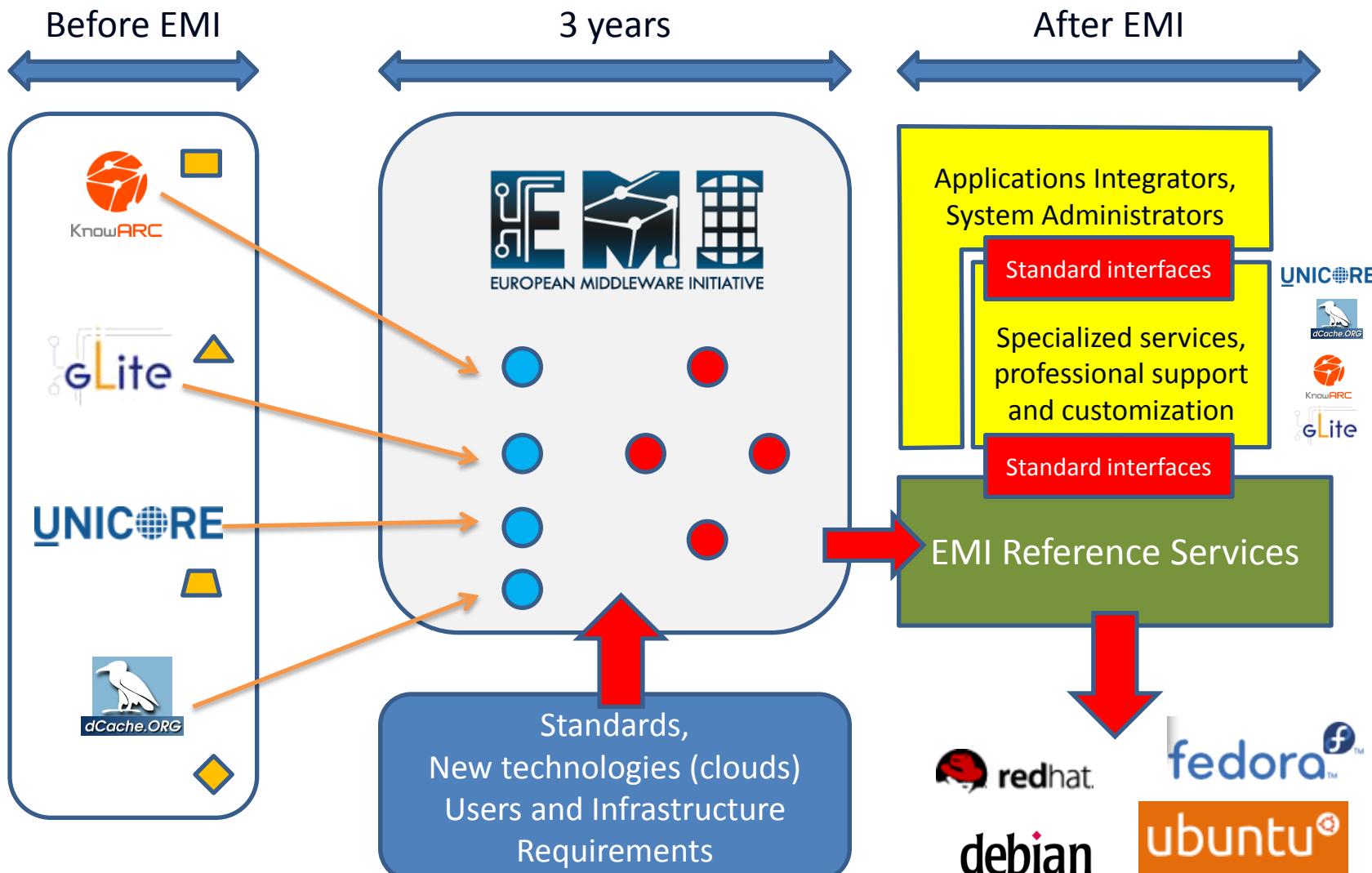
Involvement of commercial partners



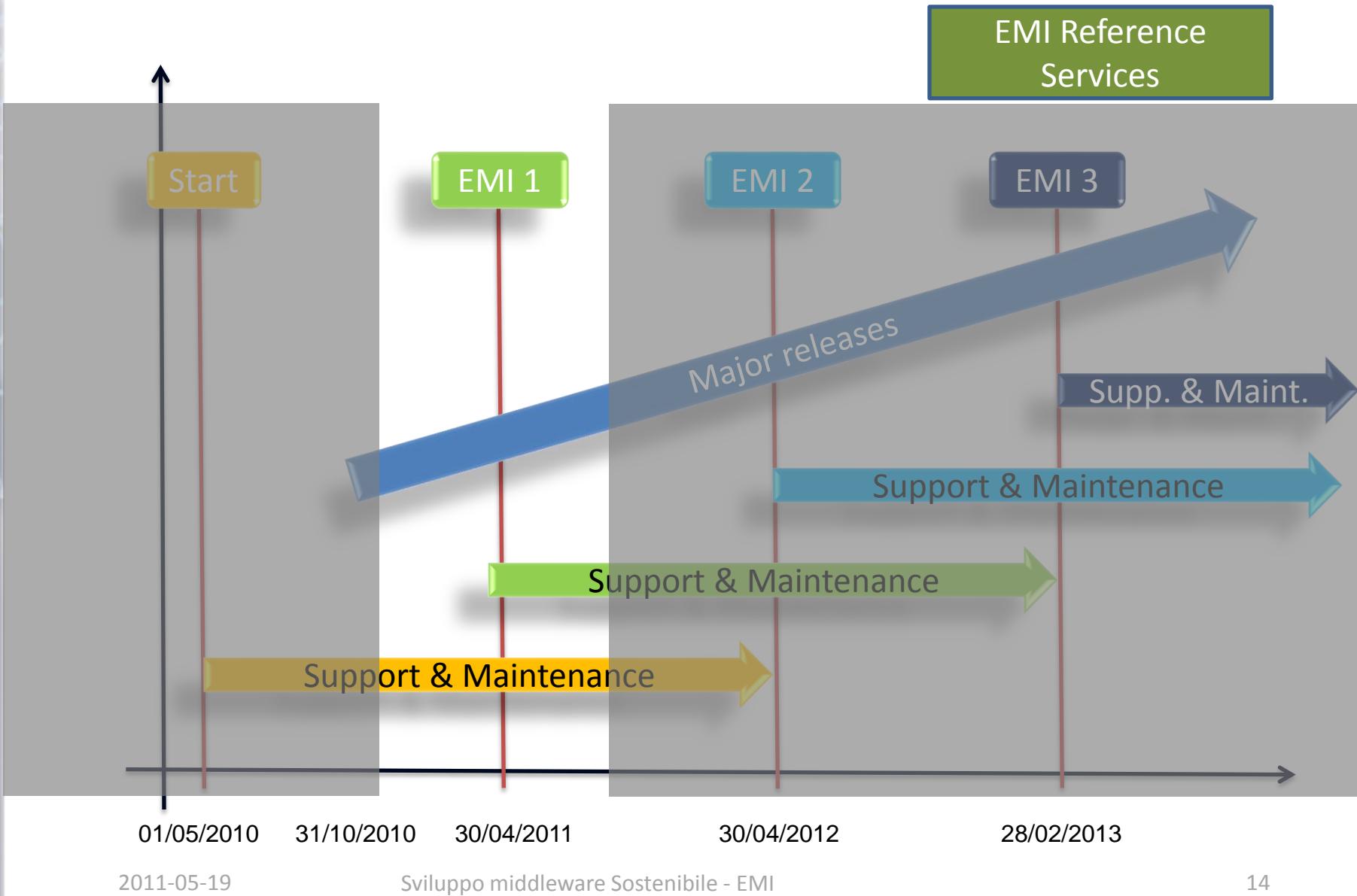
- On three fronts
 - Making the software more standard
 - Working on business models and market analysis
 - Promoting the creation of professional, SLA-based services
- Dual licensing model is interesting



EMI Middleware Evolution



Release Plan



EMI 1 (Kebnekaise)



- First important step in the implementation of the roadmap:
 - ARC, dCache, gLite, UNICORE integrated in the same distribution
 - Standard packaging and installation paths according to Fedora guidelines
 - Distributed as RPMS and Source RPMS
 - External dependencies almost entirely taken from base OS (SL5) or EPEL
 - Use of the same Globus libraries for all services (from EPEL, maintained by IGE)

EMI 1 (Kebnekaise)



- Support for SAML, http/webdav for file access, initial support for Glue 2.0
- NFS1.4/pNSF support in dCache, other storage services to follow
- First implementation of WMS on SL5 64bit
- Argus integration for policy management

Release Codenames



Kebnekaise (SW), 2104 m



Matterhorn (CH), 4478 m



Monte Bianco (IT/FR), 4810 m
17



European Middleware Initiative

Thank you

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