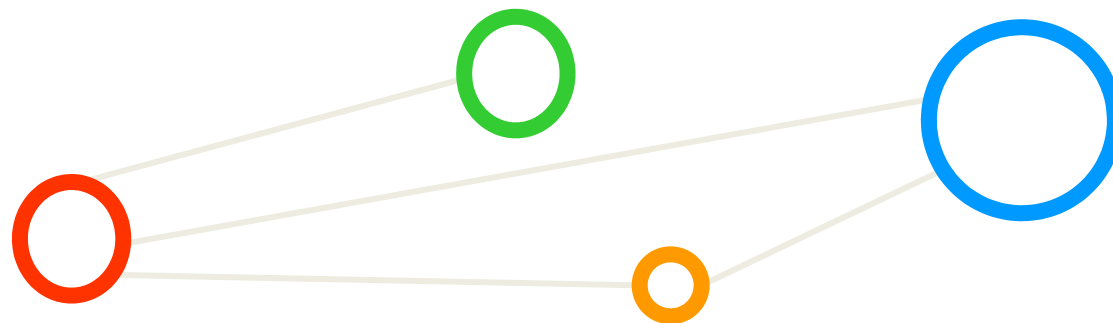# Workshop

ScienceSoft
open software for open science

Morris Riedel – Jülich Supercomputing Centre
Alberto Di Meglio, Florida Estrella – CERN

Open Grid Forum 36, Chicago
09/10/2012

Outline

Outline

ScienceSoft Fundamentals

– Ideas and Requirements from the Community

– Roadmaps and Current Features

Interactive Workshop

– 'ScienceSoft Walkthrough'

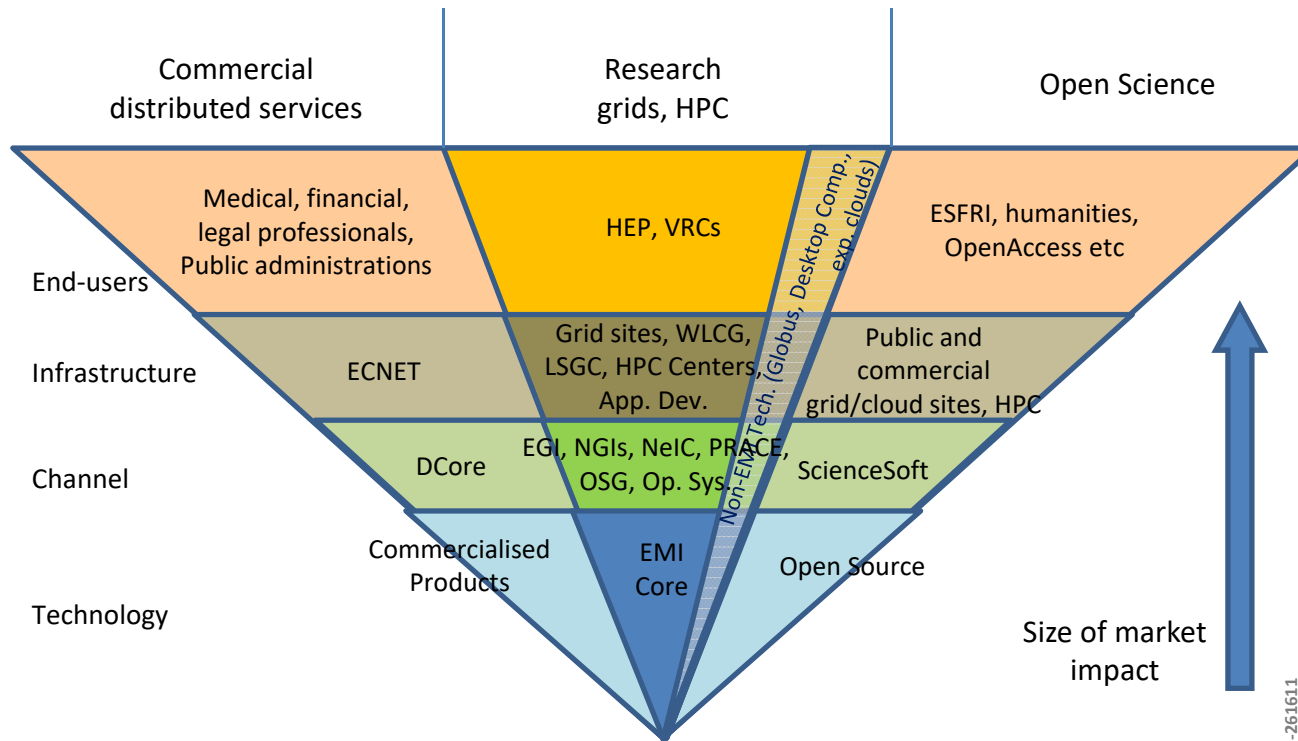– Questions & Comments?

– Call for Participation

References

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ScienceSoft Fundamentals

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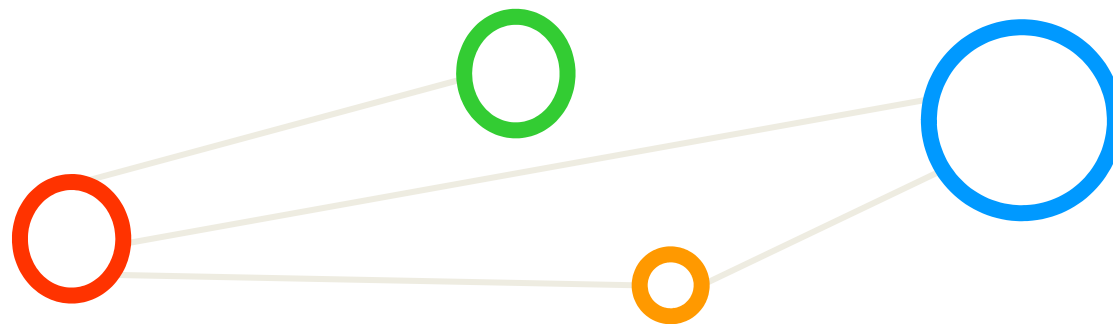
The EMI Vision and Strategy

ScienceSoft
open software for open science

Commercial distributed services

Research grids, HPC

Open Science

End-users

Medical, financial, legal professionals, Public administrations

HEP, VRCs

ESFRI, humanities, OpenAccess etc

Infrastructure

ECNET

Grid sites, WLCG, LSGC, HPC Centers, App. Dev.

Public and commercial grid/cloud sites, HPC

Channel

DCore

EGI, NGIs, NeIC, PRACE, OSG, Op. Sys.

ScienceSoft

Technology

Commercialised Products

EMI Core

Open Source

Non-EMI Tech. (Globus, Desktop Comp., exp. clouds)

Size of market impact

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EMI & Future Collaboration

ScienceSoft
open software for open science

Sustainability:
Future EMI Collaboration
extended to committed and new emerging
partners from the DCI community and beyond

| Pillar I EMI Partners - Post EMI Commitment (e.g. Table with products) | Pillar II Existing Users - Post EMI commitment and requirements (e.g. WLCG, PRACE, iMarine, etc.); document existing use cases | Pillar III New Users - Exploit and expand usage of EMI products beyond current user basis (e.g. product factsheets, FutureGrid, etc.) | Pillar IV Standards - Adopt industry standards and best practices in processes (e.g. industry standards adoption, release processes) | Pillar V Commercials - Engage with commercial partners (e.g. DCore systems, Buerhoop, Technicolor, SysFera, etc.) | Pillar VI Science Soft - Post EMI Collaboration Platform (e.g. ad-hoc partnering for new EC projects, exchange of open products, etc.) |

Existing EMI Collaboration and partners as a strong foundation for further activities

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Why ScienceSoft

ScienceSoft wants to

Focus	on software for scientific research
Solve	problems with availability and sharing of information about who does what, where, how, for whom
Create	a live community of software users and developers exchanging ideas, experiences and knowledge

Requirement analysis

Requirements/Gaps

- Lack of continuity in support, development, coordination of software
- Non-optimal communication between users and developers
- Lack of consistent real usage information
- Limited access to other users' experience
- Limited or complex ways of finding what exists already
- Limited possibilities of influencing the production of software
- Lack of visibility and recognition of development activities
- No way of assessing the user "market" and potential revenues

Possible solutions

- Software and services catalogues
- Generation of usage statistics
- Honour system (Peer-reviews)
- Citation system to allow software to be referenced in papers
- Marketplace for products, services, and people to match user needs and software products and skills
- Platform integration support based on the catalogues information
- Support for creation of ad-hoc communities and groups
- Coordination, collaboration and discussion tools
- Support for organization of technical events

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Requirement analysis

- 1st ScienceSoft Workshop – CERN, Feb 2012
  - First meeting of the original « Steering Committee » and other interested persons
  - Helped streamlining the requirements and possible features
- Overview document:
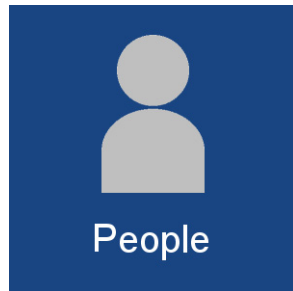 - http://cdsweb.cern.ch/record/1451518/files/sciencesoft_v1.0.pdf

Roadmap

ScienceSoft
open software for open science

- 4 Phases

  – **Alpha (March-June 2012**): discussions, refinement of ideas, requirements and features

  – **Design (July-December 2012):** detailed design and prototyping

  – **Concept (January-April 2013):** proof-of-concept, iterations on features

  – **Operation (May 2013 onwards):** community managed activities

Roadmap

ScienceSoft
open software for open science

- Features:
  - Web portal, Data model, Data discovery and automation, Comment and rating system, Subscriptions and followers, Data processing and reporting, Marketplace, Software IDs

- Each feature is associated to a forum topic on the ScienceSoft portal

- Roadmap: http://sciencesoft.org/roadmap

- Forums: http://sciencesoft.org/forum

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Current features

People

Organizations

Collaborations

Software

Add

Search

Map

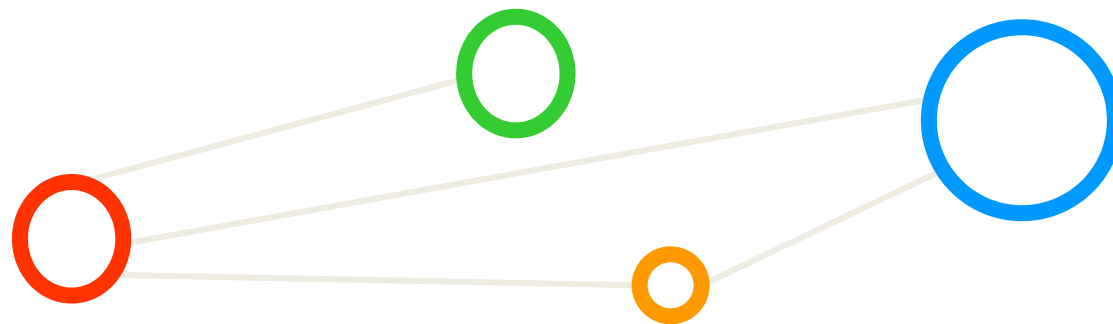EMI INFSO-RI-261611

Interactive Workshop

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Call for Contributions

- Register yourself

- Register organizations and collaborations

- Register software

- Contribute to the discussion using the forums

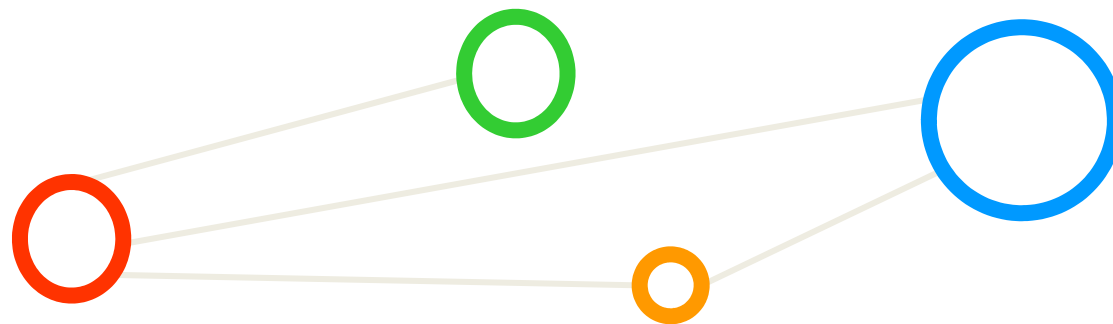- Lead one or more topics

- Give us feedback

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Workshop Notes

ScienceSoft
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- 'ScienceSoft Walkthough'
- **http://sciencesoft.org**

- Questions?

- Comments?

- Participate!

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References

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Comments

- Use case Definition from the community
  - Understanding not completely clear
  - Starting use cases to focus
    - *Initial use cases*
    - *Claim to be someone – LinkedIn (openid source)*
    - *Collaborate*

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References

- ScienceSoft portal:
  http://sciencesoft.org
- Overview document:
  http://cdsweb.cern.ch/record/1451518/files/sciencesoft v1.0.pdf
- Roadmap:
  http://sciencesoft.org/roadmap
- Forums:
  http://sciencesoft.org/forum
- Help: links under the Help menu in the portal

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http://sciencesoft.org