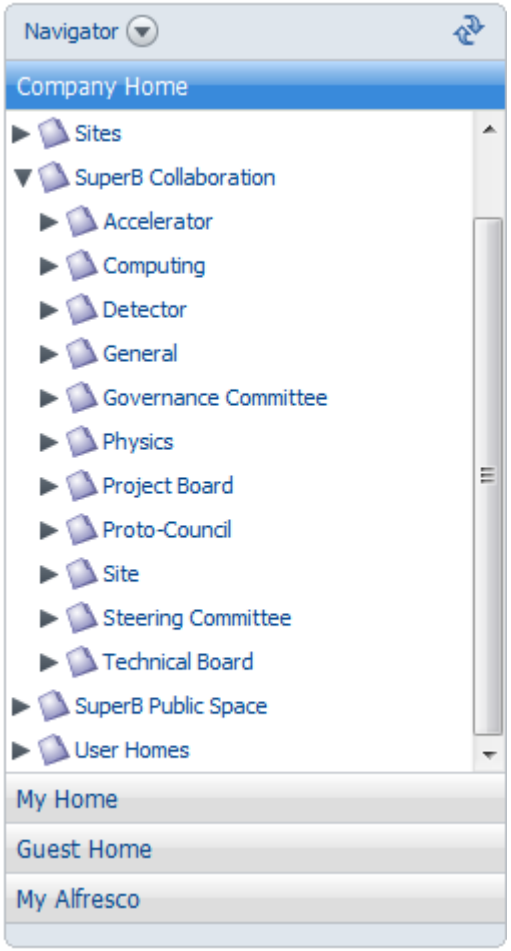
# Status of the Collaborative Tools

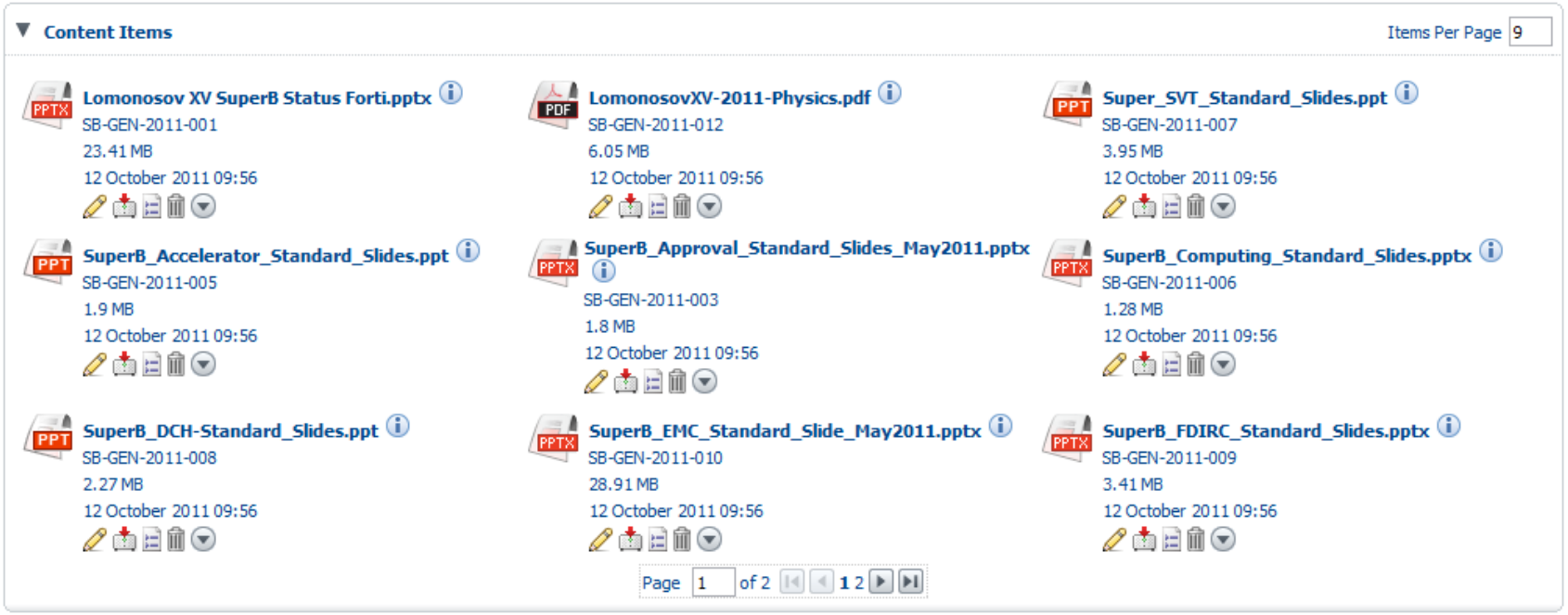
# Alfresco Explorer [1/2]

- Alfresco upgraded to version 4.0b
- Repository setup as discussed at QMUL meeting:
  - SuperB Collaboration space contains a space for each division
  - Flat division space: removed all the approval steps. Space structure can be defined by each coordinator
  - Alfresco Explorer now allows only the upload of SuperB documents



# Alfresco Explorer [2/2]

- The repository automatically manages the assignment of document number (previously given by the management)



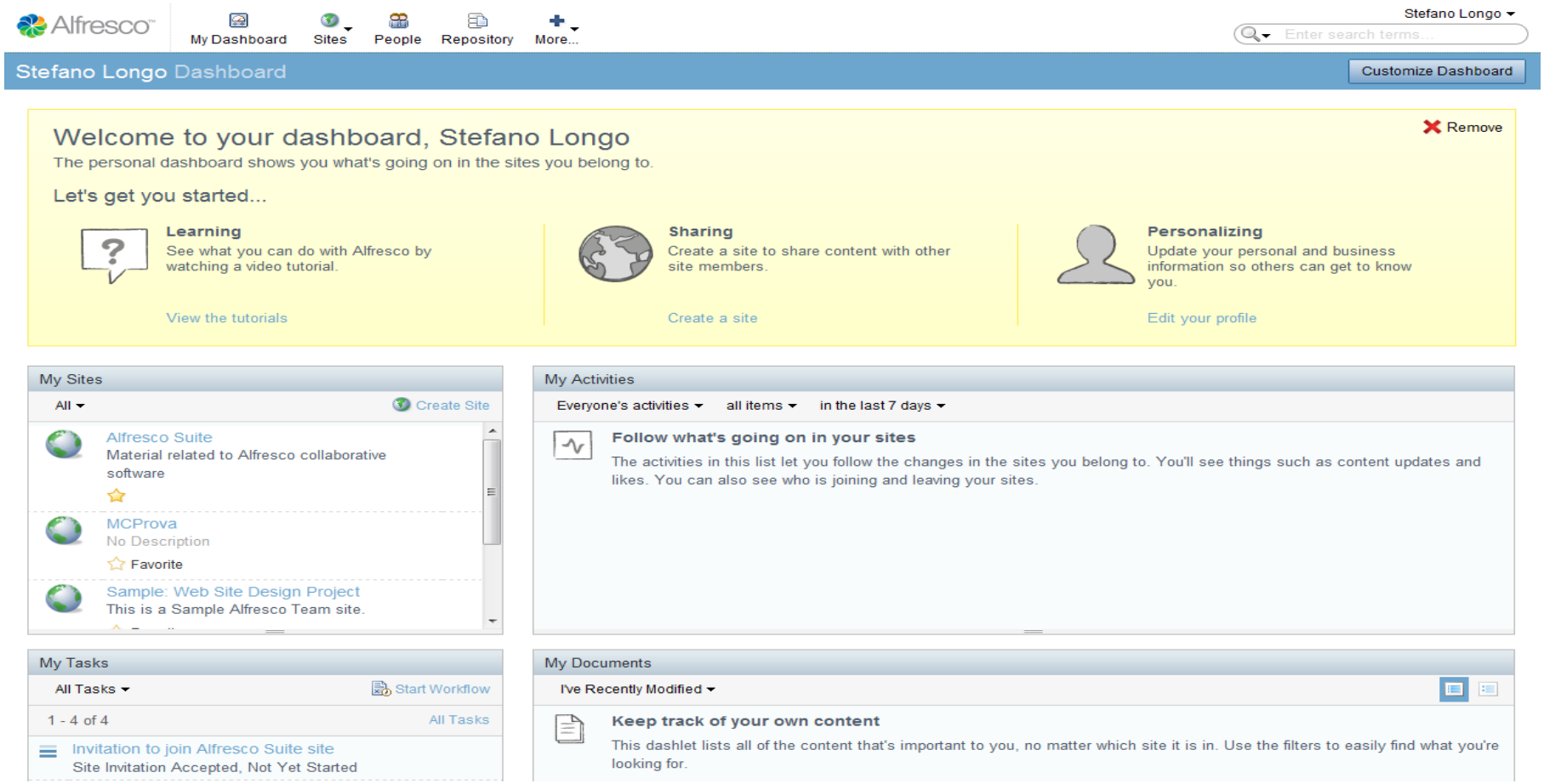
# Alfresco Share [1/3]

- Alfresco Share 4.0 deployed
- SSO filter written to enable Share integration inside SuperB portal

Share 4 introduces some nice new features

- Document management via drag-and-drop (locally and remotely - HTML5)
- Parallel Uploads
- Notifications by email
- Enhancement in spaces configuration and dashlets
- New Category and Tag manager
- Support for multimedia content

# Alfresco Share [2/3]



# Alfresco Share [3/3]

Some notes on Share 4.0

- Alfresco Explorer and Share access the same document repository
- There are already some known bugs in Share 4 (example: notification of an invite)->Consider the interface as a Beta release
- Content upload in Share has a different behaviour than Explorer: document are uploaded as generic content, typing have to be done manually after upload

# Administrative Database [1/2]

Development of a Master Database is completed.

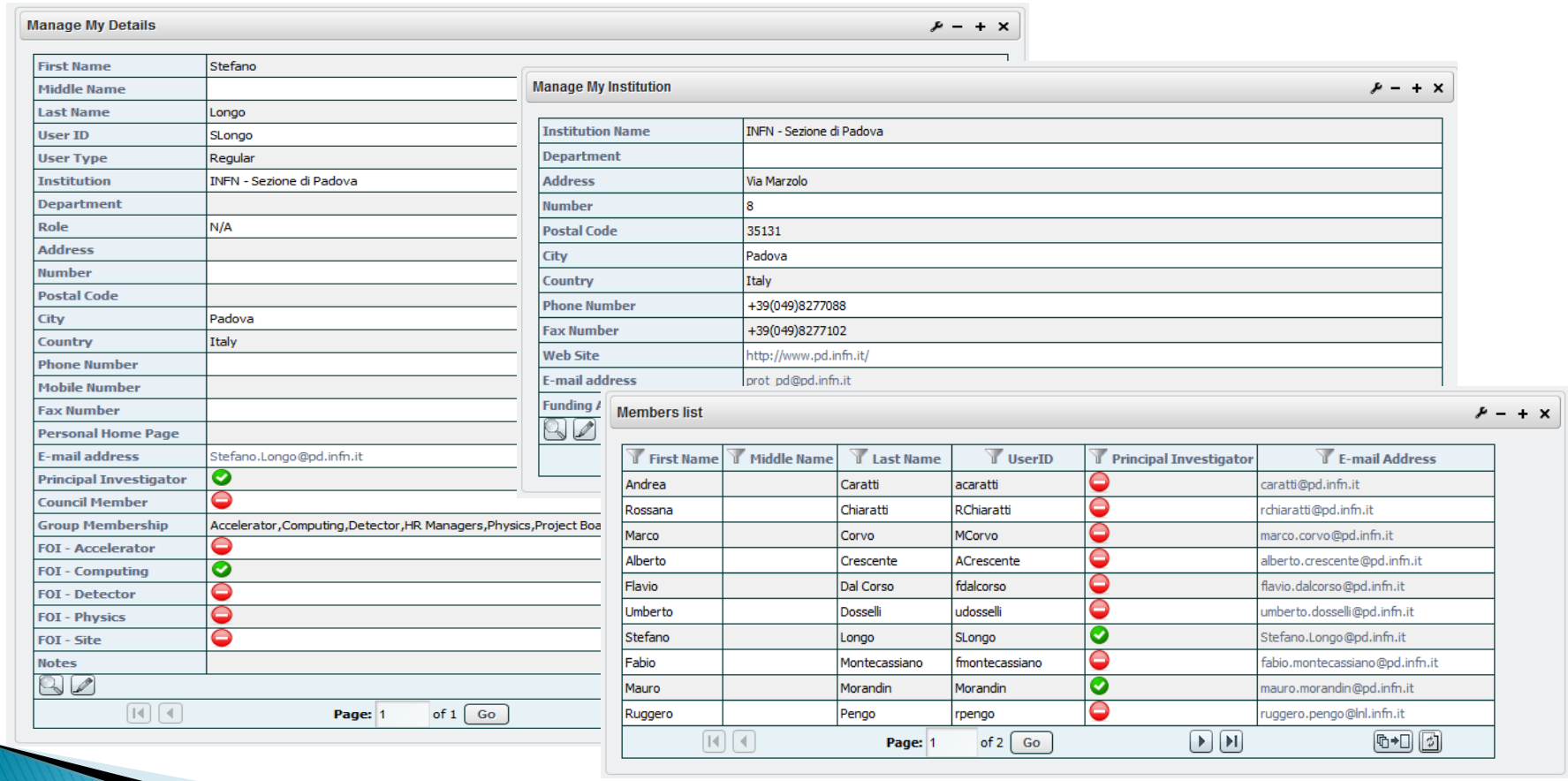
It's now used to track

- SuperB collaborators data (contact information, roles and affiliations)
- Institutions and Funding Agencies
- Group and collaboration membership

Directory service is partially sinchronized with the database -> this feature must be improved

# Administrative Database [2/2]

Access available through the portal or via ODBC



# Portal system [1/3]

There's a public space («Organization» menù) and a private space («Restricted Area») for each SuperB division (if you feel inspired you can start filling them with data)

At present the portal integrate:

- Alfresco Explorer (with SSO)
- Alfresco Share (with SSO – Beta)
- Indico (no SSO)
- Trac (no SSO – feasibility checked)
- Wiki (work in progress for SSO)

# Portal system [2/3]

SuperB users subscription procedure:

A new procedure – integrated with the administrative db – is available.

It automatize several tasks:

- Creation of users in the database
- Affiliation to institutions, collaborations, groups
- It sends a request to sbldap admin to start the procedure for a new account

Packages developed to access the admin db are also available for other applications

# Portal system [3/3]

Notes on subscription procedure:

- If certain PI data on the database is not synchronized with ldap, the procedure may fail
- We are still using the old GUI. A complete rewrite is needed.

Notes on the portal:

- The Forum is still waiting to be tested by users
- Liferay 6.1 is in Beta testing. We will proceed with an upgrade as soon as the version will be marked as stable.

# Wiki and Directory Service

Note: Alberto Gianoli is the administrator of both tools

Wiki:

- The wiki is now private. Only SuperB users are allowed to acces its pages
- Alberto is working on the integration of Jasig CAS (SSO) and the wiki

LDAP:

- Is partially synchronized with the administrative DB.
- A better procedure is needed

# Mailing Lists

Note: Riccardo Veraldi is the Sympa administrator

We have investigated the integration of Sympa with our directory service

List members can now be configured via file or through an LDAP source (not both at once)

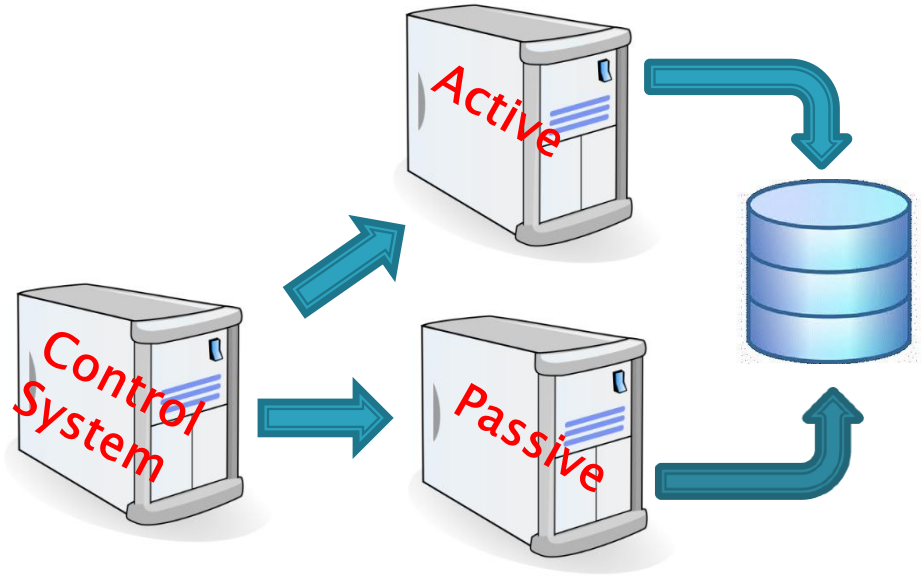
We are ready to setup user subscription – at least for general interest lists – via our directory service

# High Availability Cluster [1/4]

To avoid services unavailability, all the collaborative tools will be moved to an High Availability Cluster.

The architecture will be similar to the one used for «portale sistema informativo INFN»:

- Two virtual machines for each service
- Active/Passive configuration
- Locking done through cluster FS



# High Availability Cluster [2/4]

Storage:

DELL EqualLogic PS4100E

- Reduntant controllers (2), each with 2x1Gb Eth. for iSCSI, 1 Eth. for management, 8GB RAM
- 6x1TB HD NL-SAS, upgradable to 12
- RAID 5, 6, 10, 50 support
- Reduntant power supply (2)
- Support for various environment, included cluster filesystem
- Support for 256 volumes, 128 snapshot per volume
- Management and accounting «onboard»
- Upgradable with other EqualLogic systems, providing load balancing among units

# High Availability Cluster [3/4]

Service/Control server

DELL PowerEdge R610

- Reduntant power supply
- 2xIntel Xeon E5645 (2.40GHz, 6 cores, HT, 12MB cache)
- 36GB of RAM@1333MHz
- RAID controller: PERC H700 with 512MB of cache
- 2xHD SAS, 146GB@10kRPM
- Broadcom Netextreme controller with TOE and iSCSI offload

HA Cluster was designed with

- 2 R610 server for the execution of service VMs
- 1 R610 (with less resources) for the management of the cluster

# High Availability Cluster [4/4]

Current Status:

- Storage call for tender is over, the purchase procedure should be completed in a short time
- The budget was not enought to buy also the PowerEdge servers. For now we will borrow some resources, next year we will evaluate if it will be the case to buy also servers for the execution of VMs
- We will proceed as soon as all the hardware resources will be available.

# Thanks
# For your attention!