SURFconext: a next generation collaboration infrastructure across institutional boundaries

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Dutch Academic landscape

SURF (240k students)
& 30 Hybrid Networks (420k students)
VRE perspective #1

Preparation phase
- Project proposal
- Project planning

Research phase
- Data creation
- Local storage & retrieval
- Documenting
- Institutional storage
- (re)discovery mechanism

Publication & post-project phase
- Retrieval mechanism

Treloar’s silo model

Support

Private
Group
Public

Data Management Rollout at Oxford, aka DaMaRO: http://damaro.oucs.ox.ac.uk/
We’re stuck with:

<table>
<thead>
<tr>
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<th>There is need for:</th>
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<tr>
<td>Private &amp; closed</td>
<td>Open &amp; widely accessible</td>
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<tr>
<td>Discipline oriented</td>
<td>Researcher in the centre</td>
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<tr>
<td>Focused inwards</td>
<td>Focus on relations &amp; networks</td>
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<td>Total(itarian) ERP solutions</td>
<td>Integration, loosely coupled</td>
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<tr>
<td>1990’s architecture</td>
<td>Relational systems &amp; apps</td>
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Welcome to your workbench

The workbench lets you install widgets, allowing you to compile and control a growing library of tools and information without having to visit multiple sites.

We've started you off with our default widgets. To install more on to your workbench:

1. Click 'Add app' in the top-left corner of workbench.
2. Mouse over each icon to read a short description of it. Once you find a widget you'd like to add, click the 'Add' button.
3. You can then choose to add more widgets, or return to your workbench.

You can arrange your workbench by dragging widgets around on the page. To do this click and hold on the blue title bar of each.

If available, you can edit your widgets' settings...
The Virtual Lab for Bird Movement Modelling

The VL-BMM is being developed by SARA Computing & Networking Services and the Institute for Biodiversity and Ecosystem Dynamics of the University of Amsterdam. It is a e-Science infrastructure for controlling the tracking system, downloading the data, uploading new measurement schemes, persistent storing of the data and exploring or analysing the measurements of the UvA-BiTS. The bird data are integrated with environmental data such as meteorological conditions (ECMWF) or sea currents (Delft3D).

In principle, access to the Virtual Lab is restricted to registered users. These users can control the base station and set the measurement parameters through Remote System Control (using LogMeIn) or download their data through Data Transfer (using Dropbox). The data from the Lesser Black-backed Gull that visited Amsterdam has been "donated" to accommodate guest who want to have a look at some of the functionality of the database, the kmz-generator, and the script wrapper. When you enter user name guest and password guest you can access the data of the Lesser Black-backed Gull with ID=1 in the period from 26 June 2010 to 30 June 2010.
market
fed.login
teams

- UvA
- EcoMare
- HvA
- VU
- Hosted
  - LifeRay
- Hosted
  - Sakai OA
- Google
  - Apps for
    - Education
Scenario 1

Google Apps for Education

market fed.login teams

UvA

HvA
Scenario 2

- UvA
- VU
- Hosted Sakai OA
- market fed.login teams
Zooming in on SURFconext & UvA
CoNext in practice, CNI fall 2012

1. SURFfederatie SAML
2. SURFteams
3. OpenSocial
4. Collaboration tools
Conext-ed @Univ. of Amsterdam
Dutch HE sector:

- Cloud first!
- Shared Professional and Educational Services
- Scientific Computing & Storage
- Commercial ICT Products & Services
- National Research & Education Network

CoNext in practice, CNI fall 2012
SURFmarket a cloud service broker: “A cloud service broker (CSB) plays an intermediary role in cloud computing. CSB’s make it easier for organizations to consume and maintain cloud services, particularly when they span multiple providers. (Gartner)”
Lessons Learned

- Technology was not a problem but OpenSocial doesn’t contain role information, extension needed (VOOT)
- Large vendors only open to incoming integration
- HE Institutions have “Cold feet”
- Legal differences between US & EU
- Serious impact on existing campus ICT infrastructure
Colophon

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