
UNICORE/w3

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Once you make your data easily (but securely) accessible - the sky's the Limit

UNICORE w3

A proposal to the UNICORE community

The Grid as a (Semantic)Web Application

Projection of the Resources of the Grid onto the read/write, Semantic Web

Why the Web ?

For the user ...

- Bookmarkability

http://zam439:8182/roger/usite/zam439ul_ul/storages/home/html/files/

- Explore and discover by clicking links

- Collaboration - the Participatory Grid

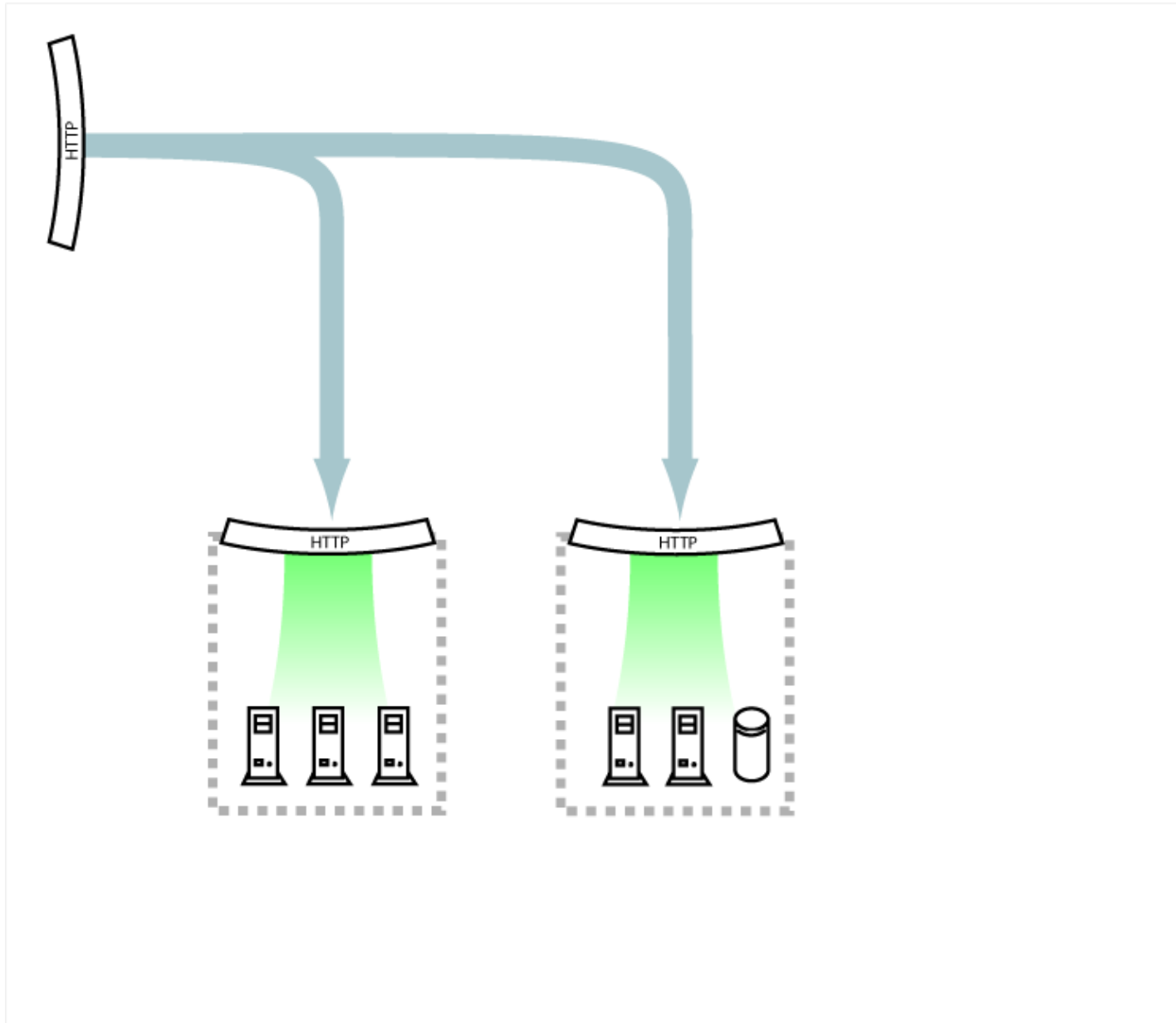
- Users use it all the time already

Why the Web ? (technical perspective)

Building the Single Grid as part of the Web

- Global scale architecture
- URI's - uniform naming scheme
- RESTful HTTP - uniform interface
- RDF - uniform model foundation
- Rock solid Standards
- Loosely Coupled
- Extensible
- Good at binary content

Architectural Overview



Prototype

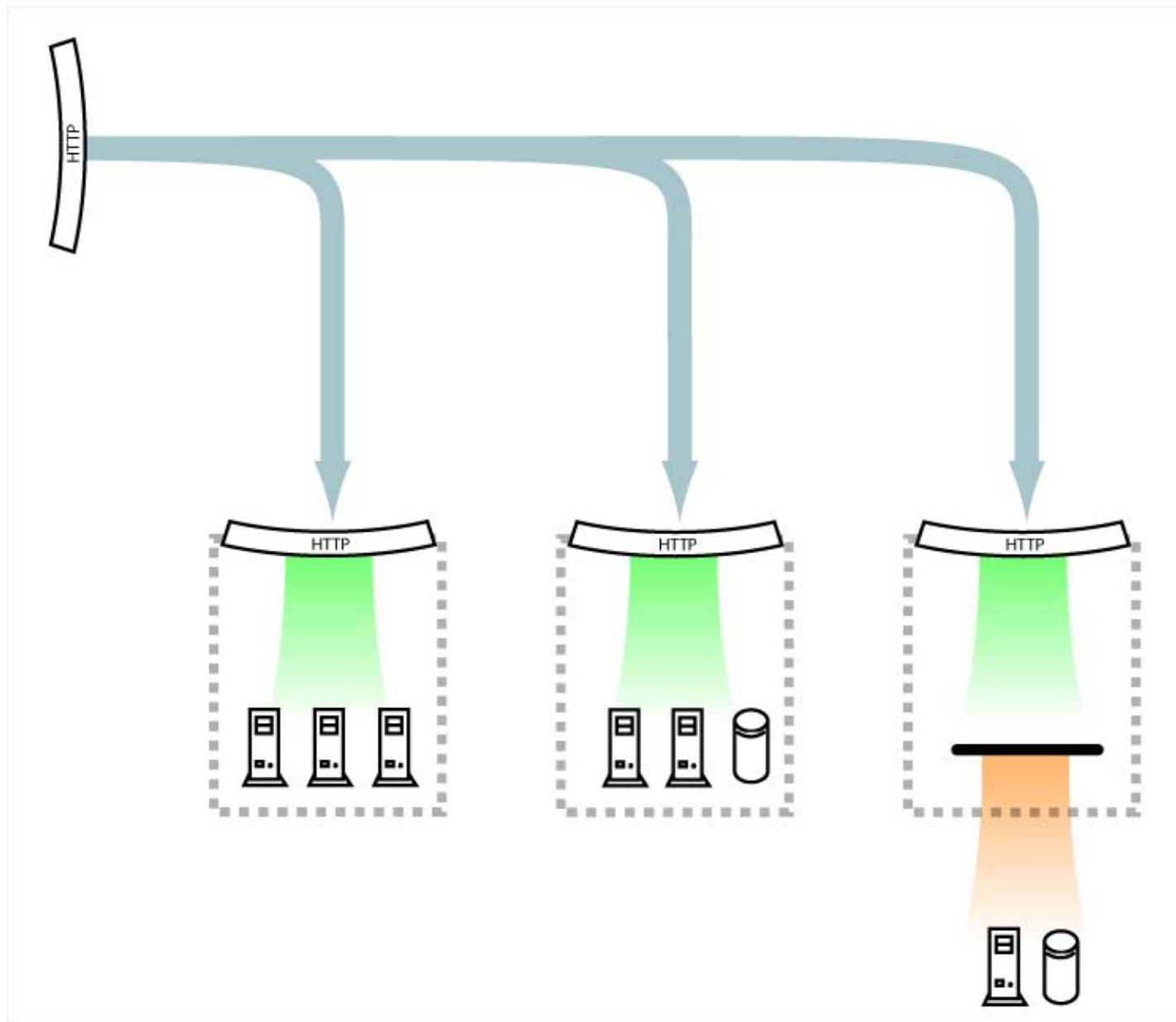
<http://localhost:8183/roger/feeds/sites.html>

Summary

UNICORE/w3 is

- The Grid embedded into the Web
- Projection of the Resources of the Grid onto the read/write, Semantic Web
- Empowering the user to make the best use of the Grid and the information contained in it

Corollary



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sites files jobs

Search for sites

[LIST](#) • [MAP](#) • [UPSINCE](#)

5 VSites total

sorted by: [labels](#); [then by...](#) • ☒ grouped as sorted • ☐ show duplicates

-  **DEISA FZJ CINECA-SP5**
http://zam439:8182/roger/usite/DEISA_FZJ_CINECA-SP5
 cpus 512
 storages [cineca_home](#), [root](#), [cineca_data](#), [spool](#), [uspace](#), [deisa_home](#), [alternativeuspace](#), [deisa_data](#), and [home](#)
 applications PERL, MPI, TC_SHELL, C_SHELL, MakeReturnCodeDecision, BOURNE-AGAIN_SHELL, XTERM, BOURNE_SHELL, and KORN_SHELL
-  **DEISA FZJ EPCC%20HPCx**
http://zam439:8182/roger/usite/DEISA_FZJ_EPCC%20HPCx
 cpus 1536
 storages [root](#), [home](#), [uspace](#), [alternativeuspace](#), and [spool](#)
 applications C_SHELL, PERL, KORN_SHELL, BOURNE_SHELL, and MakeReturnCodeDecision
-  **DEISA FZJ FZJ%20JUMP**
http://zam439:8182/roger/usite/DEISA_FZJ_FZJ%20JUMP
 cpus 1248
 storages [deisa_home](#), [uspace](#), [deisa_data](#), [root](#), [home](#), [alternativeuspace](#), and [spool](#)
 applications MakeReturnCodeDecision, TC_SHELL, KORN_SHELL, BOURNE_SHELL, BOURNE-AGAIN_SHELL, PERL, and C_SHELL
-  **DEISA FZJ IDRIS%20ZAHIR**
http://zam439:8182/roger/usite/DEISA_FZJ_IDRIS%20ZAHIR
 cpus 256
 storages [deisa_data](#), [uspace](#), [deisa_home](#), [root](#), [spool](#), [home](#), and [alternativeuspace](#)
 applications C_SHELL, BOURNE_SHELL, MakeReturnCodeDecision, PERL, TC_SHELL, KORN_SHELL, BOURNE-AGAIN_SHELL, MPI, and XTERM
-  **zam439u1 u1**
http://zam439:8182/roger/usite/zam439u1_u1

storagename

- 5 ✓ alternativeuspace
- 1 ✓ archive
- 1 ✓ cineca_data
- 1 ✓ cineca_home
- 3 ✓ deisa_data
- 3 ✓ deisa_home
- 5 ✓ home
- 5 ✓ root
- 5 ✓ spool
- 1 ✓ tmp

application

- 5 ✓ BOURNE_SHELL
- 3 ✓ BOURNE-AGAIN_SHELL
- 5 ✓ C_SHELL
- 5 ✓ KORN_SHELL
- 5 ✓ MakeReturnCodeDecision
- 2 ✓ MPI
- 5 ✓ PERL
- 3 ✓ TC_SHELL
- 2 ✓ XTERM

EXHIBIT

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sites files jobs

Search for sites

LIST • MAP • UPSINCE

5 VSites total



Map Satellite Hybrid

- DEISA_FZJ_FZJ%20JUMP
- zam439u1_u/

DEISA_FZJ_FZJ%20JUMP
http://zam439:8182/roger/usite/DEISA_FZJ_FZJ%20JUMP

cpus 1248

storages [deisa_home](#), [uspace](#), [deisa_data](#), [root_home](#), [alternativeuspace](#), and [spool](#)

applications MakeReturnCodeDecision, TC_SHELL, KORN_SHELL, BOURNE_SHELL, BOURNE-AGAIN_SHELL, PERL, and C_SHELL

storagename

- 5 ✓ alternativeuspace
- 1 ✓ archive
- 1 ✓ cineca_data
- 1 ✓ cineca_home
- 3 ✓ deisa_data
- 3 ✓ deisa_home
- 5 ✓ home
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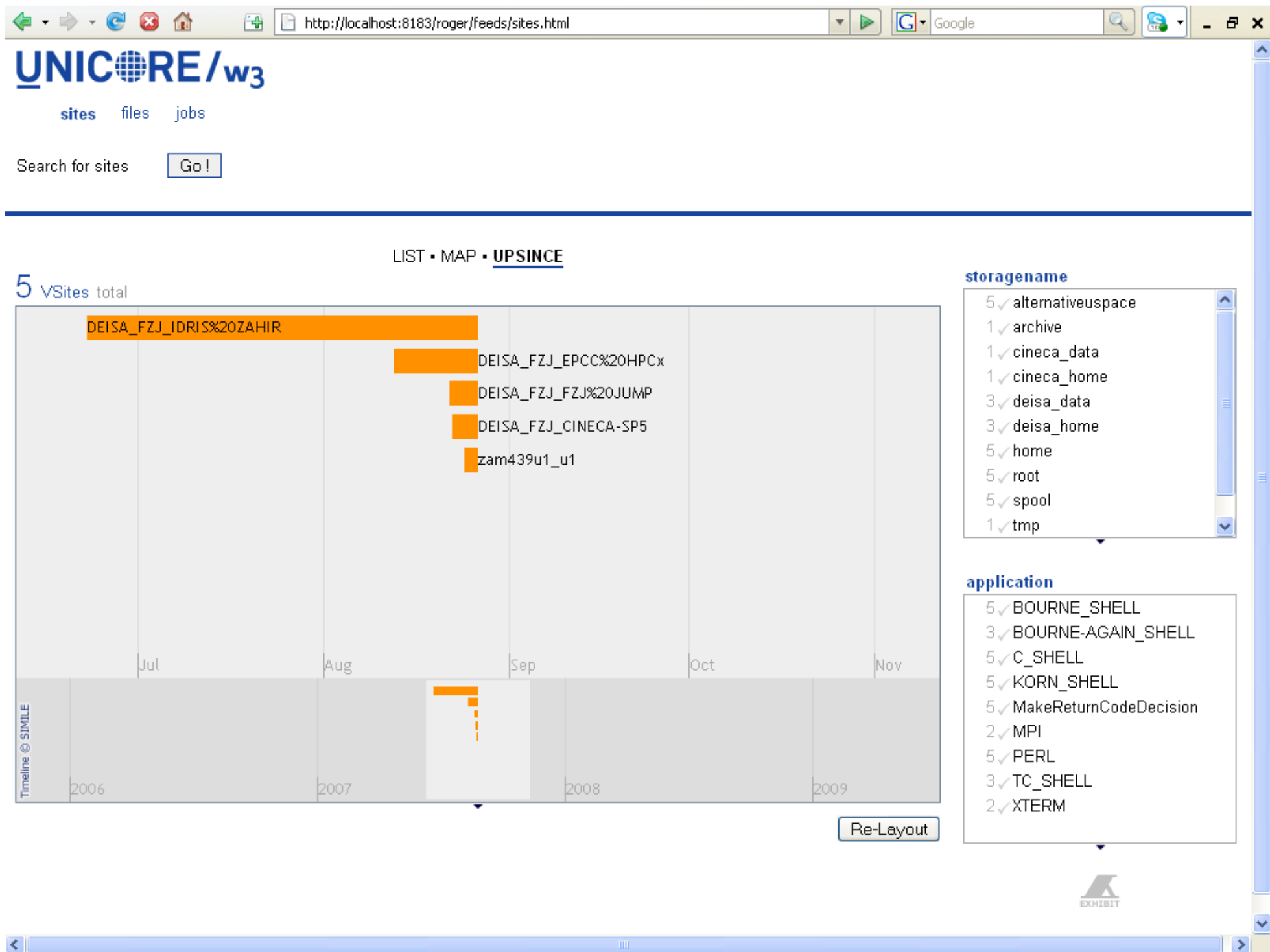
application

- 5 ✓ BOURNE_SHELL
- 3 ✓ BOURNE-AGAIN_SHELL
- 5 ✓ C_SHELL
- 5 ✓ KORN_SHELL
- 5 ✓ MakeReturnCodeDecision
- 2 ✓ MPI
- 5 ✓ PERL
- 3 ✓ TC_SHELL
- 2 ✓ XTERM

POWERED BY Google

500 mi
1000 km

EXHIBIT



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sites files jobs

Search for files containing up to a depth of

[LIST](#) • [MAP](#)

9 Files and Directories total

sorted by: [depth](#) and [labels](#); then by... • ☒ grouped as sorted • ☐ show duplicates

[1 \(4\)](#)

[/xxx \(3\)](#)

- ☐ [/xxx @ DEISA_FZJ_FZJ%20JUMP](#)
[http://zam439:8182/roger/usite/DEISA_FZJ_FZJ%20JUMP/storage/s/home/file/s/xxx](#)
- ☐ [/xxx @ DEISA_FZJ_IDRIS%20ZAHIR](#)
[http://zam439:8182/roger/usite/DEISA_FZJ_IDRIS%20ZAHIR/storage/s/home/file/s/xxx](#)
- ☐ [/xxx @ DEISA_FZJ_EPCC%20HPCx](#)
[http://zam439:8182/roger/usite/DEISA_FZJ_EPCC%20HPCx/storage/s/home/file/s/xxx](#)
Size : 10

[/xxx.sh \(1\)](#)

- ☐ [/xxx.sh @ zam439u1_u1](#)
[http://zam439:8182/roger/usite/zam439u1_u1/storage/s/home/file/s/xxx.sh](#)
Size : 9

[2 \(4\)](#)

- ☐ [/xxx/commons-collections-3.2.jar @ DEISA_FZJ_IDRIS%20ZAHIR](#)
[http://zam439:8182/roger/usite/DEISA_FZJ_IDRIS%20ZAHIR/storage/s/home/file/s/xxx/commons-collections-3.2.jar](#)
Size : 571259
- ☐ [/xxx/de @ DEISA_FZJ_FZJ%20JUMP](#)
[http://zam439:8182/roger/usite/DEISA_FZJ_FZJ%20JUMP/storage/s/home/file/s/xxx/de](#)

isContainedByVSite

- 1 ✓ DEISA_FZJ_EPCC%20HPCx
- 3 ✓ DEISA_FZJ_FZJ%20JUMP
- 4 ✓ DEISA_FZJ_IDRIS%20ZAHIR
- 1 ✓ zam439u1_u1

[group by](#)

depth

- 4 ✓ 1
- 4 ✓ 2
- 1 ✓ 3

EXHIBIT

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sites files jobs

Search for files containing up to a depth of

LIST • **MAP**

7 Directories and Files filtered from 9 originally ([reset](#))



Map controls: Map, Satellite, Hybrid

Tooltip for Germany:

- [/xxx/de](#)
- [/xxx](#)
- [/xxx/de/fzj](#)

isContainedByVSite 2✓

- 1 DEISA_FZJ_EPCC%20HPCx
- 3✓ DEISA_FZJ_FZJ%20JUMP
- 4✓ DEISA_FZJ_IDRIS%20ZAHIR
- 1 zam439u1_u1

[group by](#)

depth

- 2✓ 1
- 4✓ 2
- 1✓ 3

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EXHIBIT