eGee

Enabling Grids for E-sciencE

www.eu-egee.org

GILDA Project

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Italy

The GILDA project
(https://gilda.ct.infn.it)

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Enabling Grids
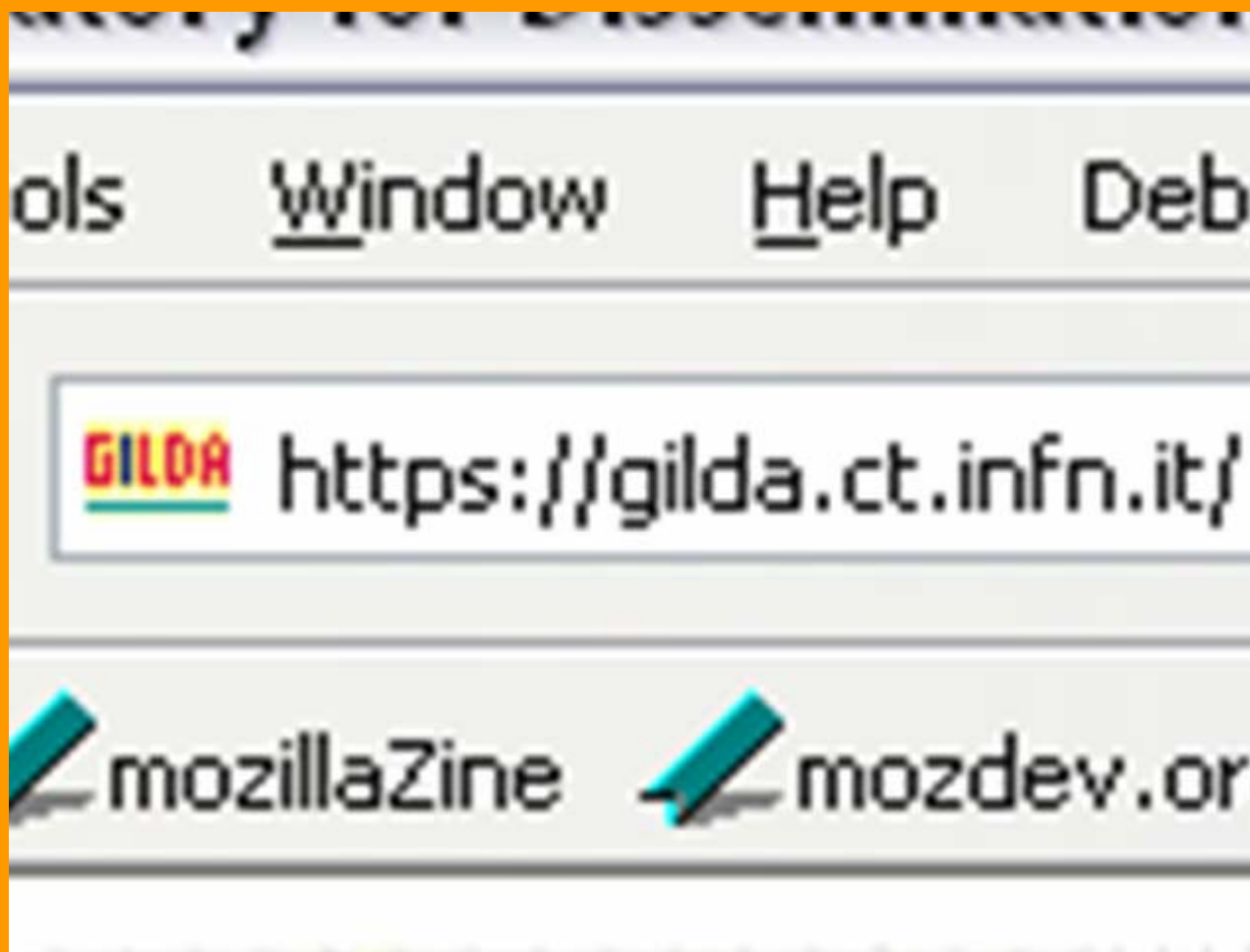for E-sciencE

Grid Tutorials

Video Tutorials

Live User Interface

User Interface PnP

Instructions for users

Instruction for sites

What is a "Testbed"?

Each Testbed's node play different roles.

Testbed are "dedicated" Grid

II

RB

UI

RM

RC

CE

SE

WN

WN

WN

The GILDA Test-bed
(https://gilda.ct.infn.it/testbed.html)

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Merida
(University)

Seregno
(GL2006)

Turin
(Telecom Lab)

Bologna
(CNAF)

Perugia
(University)

Roma
(CNR-INAF)

Padua
(University)

Prague
(CESNET)

Vienna
(University)

Bratislava
(II-SAS)

Naples
(INAF)

Catania
(INFN-INAF)
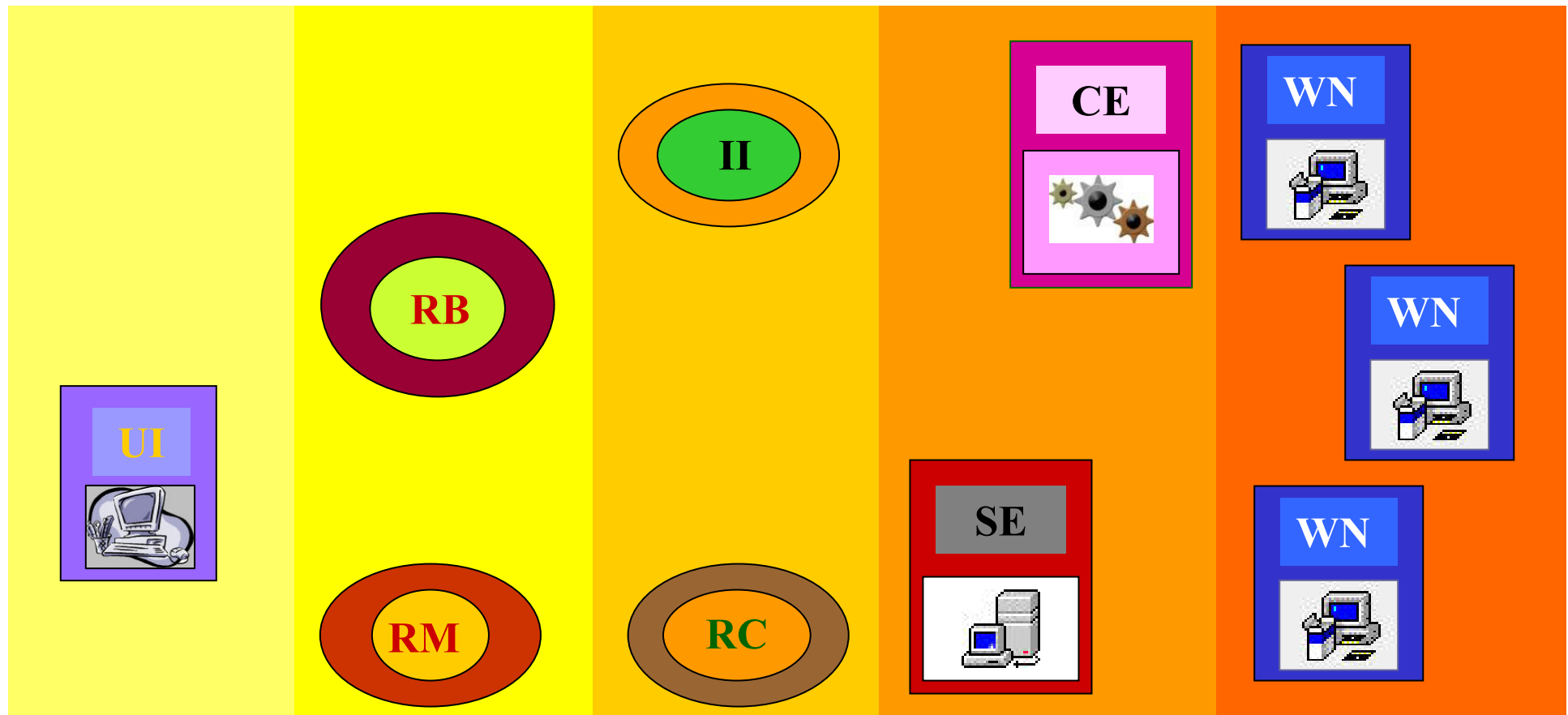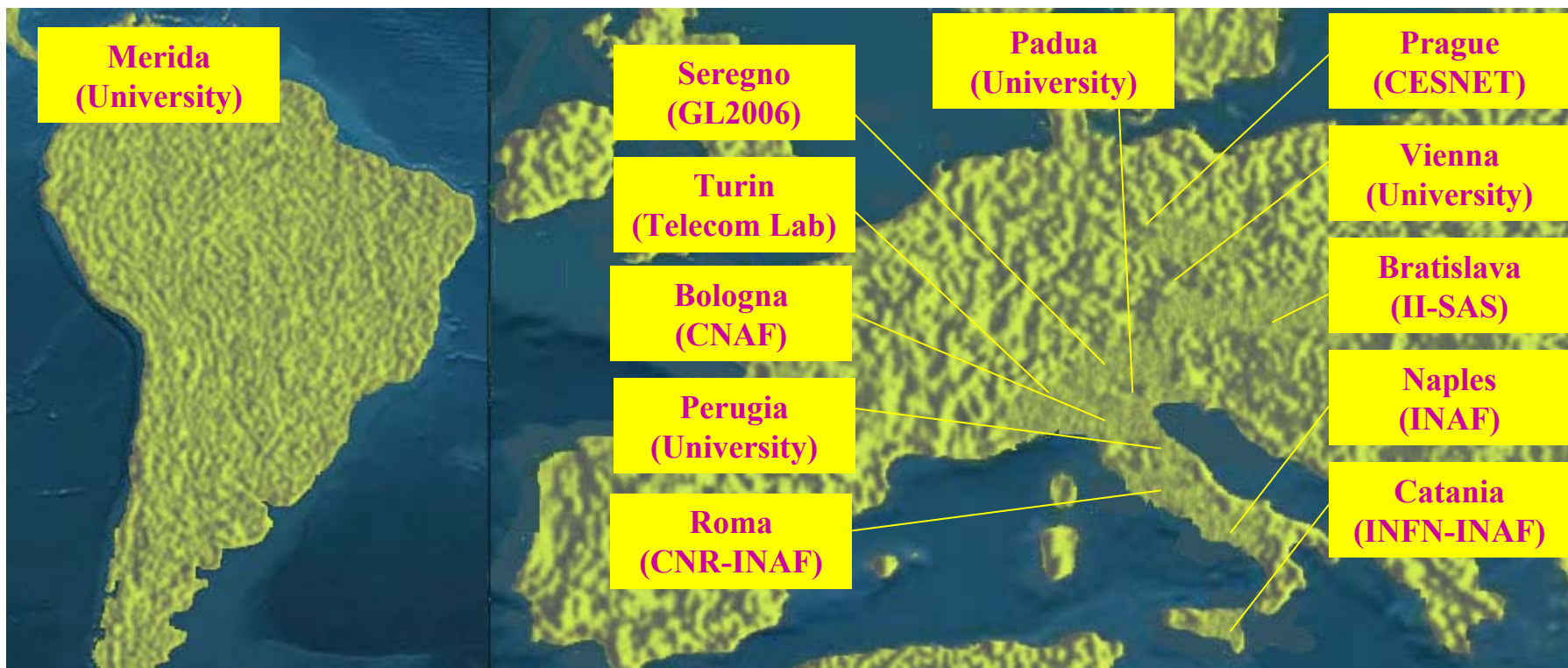
(3) LCG-2 Resource Broker (RB)	(1) Information Index (BDII)	(1) LCG-2 Replica Location Service (RLS)
(1) gLite Resource Broker (RB)	(1) Backup Information Index (BDII)	(1) MyProxy Server
(1)gLite Development Resource Broker (RB)	(1) GILDA VO Server	(1) Backup MyProxy Server
(1) gLite FiReMan Catalog	(1) GridICE Monitoring System	

The GILDA Certification Authority (https://gilda.ct.infn.it/CA)

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The GILDA Virtual Organization

GILDA Grid Demonstrator

* *The GILDA Grid Demonstrator* is a customized version of the full *GENIUS* web portal.

* 50 concurrent demo users setup. No certificates needed.

* Each user can access the Gilda Grid

  Demonstrator at the "secure"
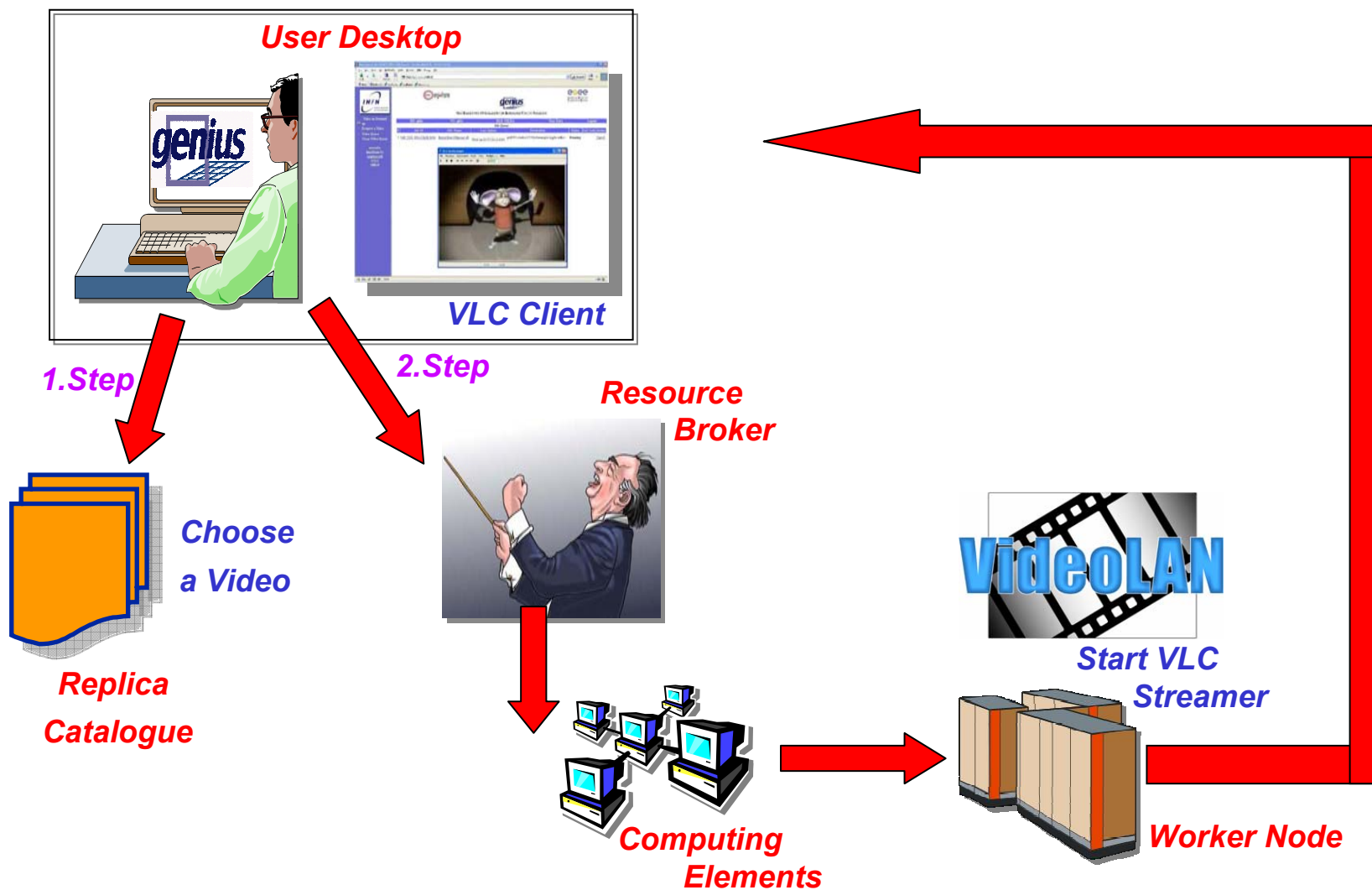
  URL https://grid-demo.ct.infn.it.
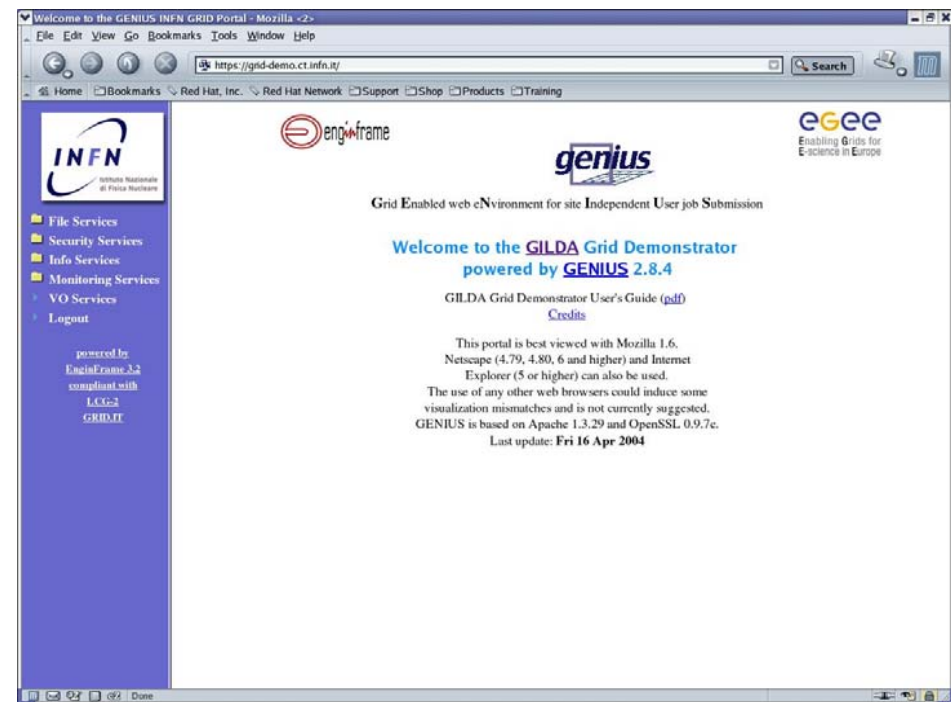
VLC Media Player

- **VLC (initially VideoLAN Client)** is a highly portable multimedia player for various audio and video formats (**MPEG-1**, **MPEG-2**, **MPEG-4**, **DivX**, **mp3**, ...) as well as **DVDs**, **VCDs**, and **various streaming protocols**. It can also be used as a server to stream in unicast or multicast in IPv4 or IPv6 on a high-bandwidth network.

- VLC media player is a cross-platform media player and server. It works under **Linux**, **Windows**, **Mac OS X**, **BeOS**, **BSD**, **Solaris**, **Familiar Linux** and **QNX**.

- Last release **VLC.0.7.2** - May 2004.

- More information about the VideoLAN streaming solution can be found in the streaming section **http://www.videolan.org/.**

The Video on demand application

User Desktop

VLC Client

1.Step

2.Step

Resource Broker

Choose a Video

Replica Catalogue

Start VLC Streamer

Computing Elements

Worker Node

Video On Demand in Real Time

Conclusions and outlook for GILDA

- GILDA is a real virtual laboratory for dissemination of grid computing.

- It is a complete suite of grid elements (test-bed, CA, VO, monitoring system, web portal,video-tutorial, live user interface) and applications fully dedicated to dissemination purposes and pre-porting of new applications to EGEE Infrastructure.