



Leading Open Source Middleware

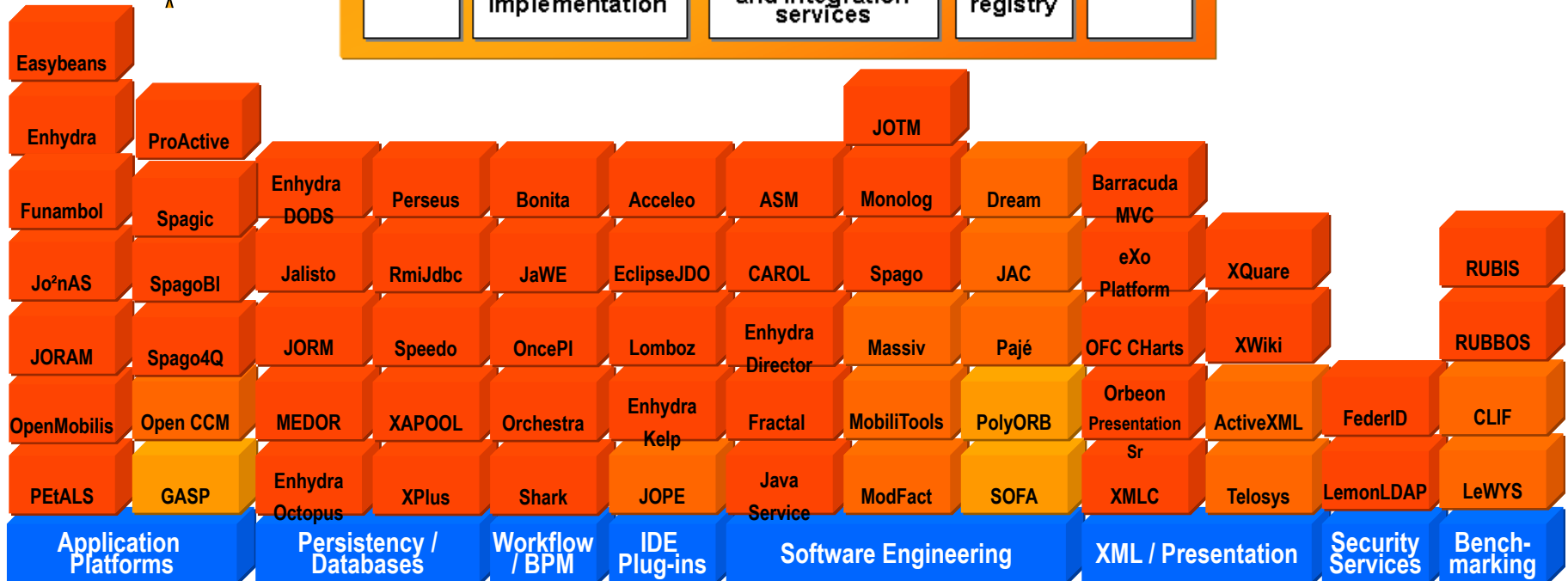
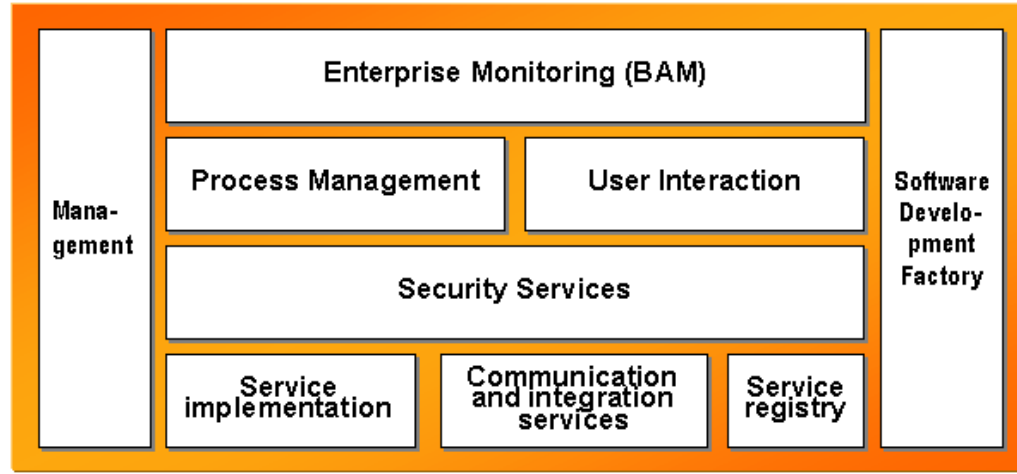
OW2 Technical Presentation

www.ow2.org

January 2009



Current Code Base*



*Selection based on: downloads, most recent update, number of developers, Java

Industry-Grade Projects

2008 top-16 Downloads



2,600,000 downloads

- ➔ sync4j
- ➔ lomboz
- ➔ xwiki
- ➔ acceleo
- ➔ exoplatform
- ➔ asm
- ➔ jonas
- ➔ spagobi
- ➔ ops
- ➔ bonita
- ➔ orchestra
- ➔ petals
- ➔ javaservice
- ➔ shark
- ➔ jotm
- ➔ joram





OW2 sync4j

➔ Mobile 2.0 messaging

- email & PIM sync
- device management
- data synchronisation server

➔ OMA standard

- Data synchronisation SyncML 1.2
- Device Management

➔ GNU Affero GPL v3

➔ Lead by Funambol

- funambol.com

➔ Community and commercial support available

➔ Users

- OpenMoko
- EarthLink
- Vodaphone
- ...

OW2 Lomboz

➔ JavaEE development environment

- Built on top of Eclipse WTP, Web Services, JSF and JPA
- Includes BPEL Editor and built-in support for Apache ODE
- SOA support with REST, JAX-WS and JAXB
- Java Portal and Portlet Development Tools and support for Liferay and eXo Portals
- Bundles Spring IDE, Hibernate and Struts Tools

➔ Lead by Eteration

➔ Support

- community
- support, maintenance and training by Eteration

➔ Users

- JavaEE developers all over the world

OW2 xWiki

➔ Generic platform for developing collaborative applications, and also

- Enterprise: full wiki
- Manager: wiki farm mgt
- Watch: RSS
- Workspaces: collaboration solution

➔ GNU LGPL

➔ Lead by xWiki community

➔ Support

- Community
- Commercial support provided by xwiki.com

➔ Many users

- OW2
- Mandriva
- Total
- ...

OW2 Acceleo

- ➔ Code generator
 - ➔ Uses the MDA approach
 - ➔ Natively based on Eclipse EMF
 - ➔ Provides
 - Off the shelf generators for JavaEE, .Net, PHP, Python, ...
 - Template editors for Eclipse
 - ➔ EPL
- ➔ Lead by Obeo
 - ➔ Support, maintenance and training available from Obeo
 - ➔ Users
 - Unedic (French unemployment)
 - Makina Corpus (SE)
 - Argia Engineering

OW2 eXo Platform

➔ Collaborative software suite

- Portlet Container (JSR 168/286 + WSRP2)
- Java Content Repository (JSR 170)
- AJAX based Portal (with WebOS layout)
- Enterprise Content Management (ECM)
- Collaboration Suite

➔ GNU Affero GPL

➔ Lead by eXo

- exoportal.com

➔ Community and commercial support available

➔ Users

- US Joint Forces Command
- PICA
- ...



OW2 ASM

➔ Java bytecode manipulation and analysis

- Simplicity
- Performance

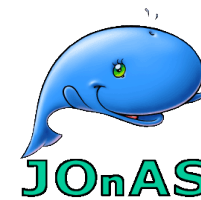
➔ GNU LGPL

➔ Lead by the community

➔ Community support available

➔ Numerous users

- Toplink
- OpenEJB
- WebLogic
- Eclipse Tools
- ...



- ➔ JavaEE implementation
- ➔ OSGi based service architecture
- ➔ EasyBeans EJB3 container
- ➔ Clustering
- ➔ Advanced mgt with JASMINe
- ➔ Sun certification (Java EE 5)
- ➔ GNU LGPL
- ➔ Lead by community
 - Grenoble Uni, INRIA, Bull, Peking Uni, UPM, ...
- ➔ Support
 - Community
 - Commercial support and training by Bull
- ➔ Many users
 - France Telecom
 - Geneva State
 - ...

➔ Business Intelligence platform

- Reports, OLAP analysis, Data mining, ETL/EI processes, analytical dossiers
- Includes Server, Studio (Eclipse), Meta (metadata) and SDK (APIs for integration from an external tool)

➔ GNU LGPL

➔ Lead by Engineering

➔ Support

- Community
- Commercial support by Engineering

➔ Many users

- Veneto and Emilia Romagna regions
- Other local authorities
- Italian healthcare
- Tourism industry

▪ ...

OW2 OPS

- ➔ Web forms for the enterprise
 - AJAX-based XForm engine
 - Includes FormBuilder and FormRunner
 - W3C Xforms 1.1 specification

➔ GNU LGPL

- ➔ Lead by Orbeon
 - orbeon.com
- ➔ Support
 - Community
 - Commercial support by Orbeon
- ➔ Many users
 - University of California
 - Caltech
 - VW

▪ ...

OW2 Bonita

- ➔ Workflow and BPM
- ➔ Built on top of a Process Virtual Machine
- ➔ Web 2.0 workflow console
- ➔ Graphical XPD L designer
- ➔ XPD L standard
 - Can be combined with Orchestra for BPEL support
- ➔ LGPL
- ➔ Lead by Bull
- ➔ Support, maintenance and training available from Bull
- ➔ Users
 - Canary Islands Gov
 - Geneva State
 - eXo
 - French Ministries of Agriculture and of Finance
 - ...

OW2 Orchestra

- ➔ Long running processes
- ➔ Built on top of a Process Virtual Machine
- ➔ Web 2.0 based console
- ➔ Graphical BPEL designer
- ➔ BPEL standard
 - Can be combined with Bonita for XPD L support
- ➔ LGPL
- ➔ Lead by Bull
- ➔ Support, maintenance and training available from Bull
- ➔ Users
 - Canary Islands Gov
 - Geneva State
 - eXo
 - French Ministries of Agriculture and of Finance
 - ...

OW2 Petals



- ➔ Scalable ESB
- ➔ Works in a distributed environment
- ➔ Easily extensible
 - OW2 Fractal model
- ➔ JBI implementation (JSR 208)
 - JBI components as plug-ins
- ➔ Sun certification
- ➔ LGPL
- ➔ Lead by EBM Websourcing
- ➔ Support
 - from the community
 - support, maintenance and training by EBM Websourcing
- ➔ Users
 - ACROSS (French Social Bank)
 - France Telecom

OW2 JavaService

- ➔ Allows server-type Java programs to be run in the background as a Windows NT/2000/XP system service
 - aka Unix daemon process
- ➔ BSD, LGPL
- ➔ Lead by JavaService project team
- ➔ Support from the community

OW2 Enhydra Shark

- ➔ XPDL Workflow
- ➔ Extendable and embeddable workflow engine framework
 - possibility to replace components (persistence, assignment, ...)
- ➔ based on WfMC specifications using XPDL
- ➔ LGPL
- ➔ Lead by Together Teamlösungen
- ➔ Support from the community and from Together Teamlösungen
- ➔ Users
 - GrECo (insurance brokerage)

OW2 JOTM

- ➔ Java Open Transaction Manager
- ➔ Support for multiple transaction models and specifications
- ➔ JTA, OTS, BTP
- ➔ GNU LGPL
- ➔ Lead by the community
- ➔ Support
 - Community
- ➔ Bundled with
 - JOnAS
 - Jetty
 - OFBiz

OW2 JORAM

- ➔ Java Open Reliable Asynchronous Messaging
- ➔ Provides access to a distributed MOM
- ➔ Built on top of an agent-based platform
- ➔ JMS implementation
- ➔ Sun certification
- ➔ LGPL
- ➔ Lead by ScalAgent
- ➔ Support from the community and ScalAgent
- ➔ Embedded in JOnAS
- ➔ Users
 - CS (critical systems)
 - CNES (French nat'l space studies)
 - JOnAS users
 - France Telecom
 - ...

OW2 projects and cooperative research projects

➔ **OW2 projects can be dissemination targets or used by cooperative research projects**

➔ **“Historical” cooperative projects**

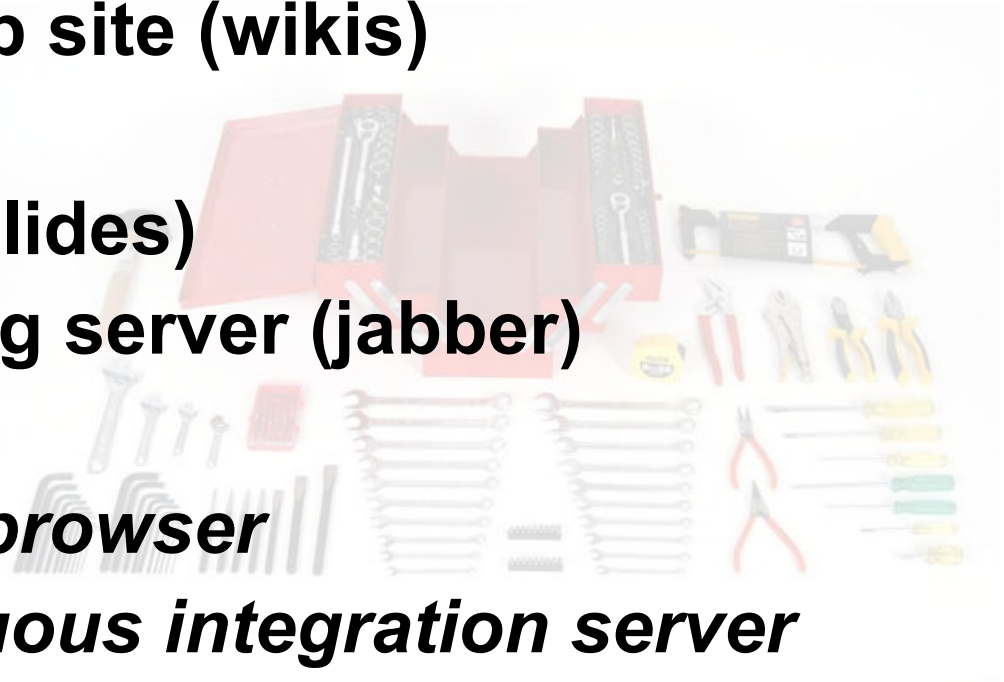
- French RNTL/RNRT Parol, Impact
- ITEA PEPiTA, OSMOSE

➔ **Recent cooperative projects related to OW2**

- French RNTL SelfWare, JOnES
- French ANR SCORWare, SelfXL, SemEUsE
- IST FP6 SelfMan, FP7 ASPIRE
- CELTIC Servery

The OW2 project Tool Box

- ➔ **Static web site**
- ➔ **Collaborative web site (wikis)**
- ➔ **Mailing lists**
- ➔ **Forge (see next slides)**
- ➔ **Instant messaging server (jabber)**
- ➔ ***JIRA Bug tracker***
- ➔ ***Fisheye, source browser***
- ➔ ***Bamboo, Continuous integration server***
- ➔ **More coming up...**



➔ Based on GForge

- migration to NovaForge planned

➔ Includes all tools provided by a Forge

➔ The OW2 Forge contains specific additional tools

- project submission: customized OW2 form/questionnaire for positioning the submitted project w.r.t. the OW2 code base and the OW2 community
- project inventory: in order to be able to identify the degree of maturity of project (used for classifying projects)

➔ **Services mostly used by projects**

- SVN
- deliveries

➔ **Project leads encourage the wide use of trackers by users and developers**

- feature requests, to log demands
- bug tracker, to log all problems

➔ **All users, whether developers or end users, are encouraged to use the Forge tools**

- for reporting their problems
- for reporting their requests

- ➔ **Each project decides how to manage its contributors and its code base**
- ➔ **Typical process:**
 - 1. identification of new contributors through posts in the mailing list
 - 2. contributors produce bug reports, feature requests
 - 3. contributors send patches to the mailing list
 - 4. the project team tests these patches
 - 5. when confidence is acquired, the project team adds the contributor to the list of project committers

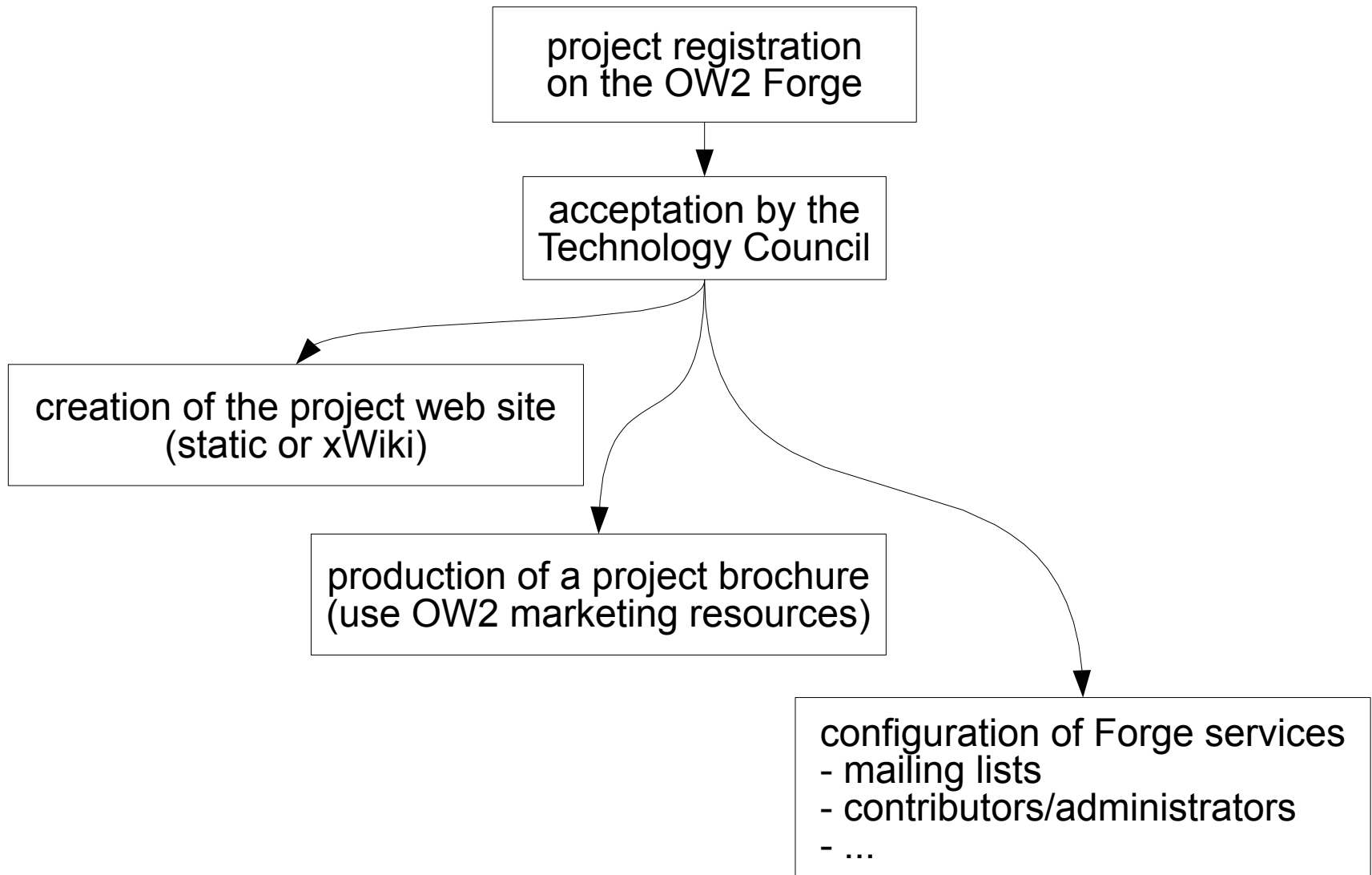
⇒ OW2 does not have its own licence

- Preferred licence is LGPL
- Many other licenses in OW2

⇒ Copyright of contributors

- authors should always be mentioned, even if they don't own the copyright
- the copyright may depend on the licence (ex: dual GPL licence may impose that the contributor abandons his/her copyright – see MySQL)
- can be multiple
 - ex : JOnAS contains code with multiple copyright from Bull, France Telecom, INRIA, ...

Project creation



Project life cycle

➔ Incubator

- Code being developed, prototype
- No real end user yet

➔ Mature

- Industry-grade code
- Users (success stories)
- Commercial support
- Academic activity

➔ Archive

- No more development
- Maybe some light evolutions

Project classification

Mature (37)

Acceleo	JOTM
ASM	Lomboz
Bonita	Open Mobile IS
CARDAMOM	OPS
CAROL	Orchestra
CLIF	PEtALS
Enhydra	ProActive
Shark	RmiJdbc
EasyBeans	RUBiS
eXo Platform	Salome-TMF
FederID	Sat4J
Fractal	SOFA
sync4j	Spagic
GASP	Spago
InterLDAP	Spago4Q
JavaService	SpagoBI
JOnAS	Telosys
JOPE	XWiki
JORAM	

Incubator (17)

Aspire RFID
Azuki Framework
BEEN
CMI
Dragon
Dream
Dysoweb
EasyWSDL
Elastic-Grid
FraSCAti
JASMINe
JWTGen
LeWYS
NovaForge
OSLC
Perseus
xPlus

Archive (25)

BarracudaMVC
C-JDBC
DotNetJ
DryverI
EclipseJDO
Enhydra XMLC
GOTM
HOWL
Introspector
Jalisto
Jonathan
JORM
Massiv
MEDOR
MobiliTools
Monolog
Odette FTP
Oscar
ParGRES
SNAP
Speedo
SURF
Tribe
XAPool
XSquare

Work in progress

➔ SSO

- One LDAP for all users
- One point to modify user account
- One point to login

➔ Migration to ow2-03

- Atlassian software suite

➔ Migrate all CVS to SVN (nearly done)

➔ Chinese infrastructure

- download mirror

Other future work

- ➔ **Webinar tool (based on DimDim)**
- ➔ **Software appliance facility**

➔ In China

- Chinese OW2 web site
 - <http://www.ow2.org.cn>
 - In Chinese
- Download mirror (coming soon)
 - For local Internet performance reasons

Let's Build it Together

www.ow2.org

For more information
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