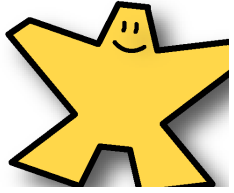


Nuxeo Collaborative Portal Server

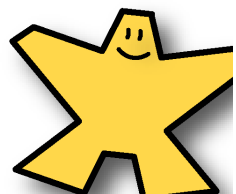
> Past, present, future (2004)



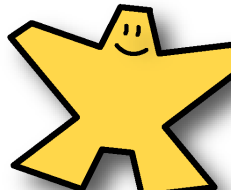


Agenda

- What is CPS and who are “we”?
- Where do we come from?
- Where are we standing now?
- Where do we want to go tomorrow?

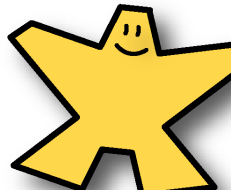


Introduction



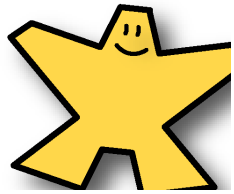
What is Nuxeo CPS ?

- Free / Open Source (GPL) software based on Zope / CMF
- Technical framework to build content management and collaborative work application
 - Intranets / extranets / public web sites
 - Business applications with focus on document management and workflow
- Also: freely available and ready to use product
 - Works out of the box
 - Easy customization



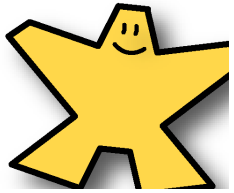
CPS basic functionalities

- All you would expect from Zope/CMF, plus...
 - Easy to create document types
 - Flexible editorial control (workflow)
 - Powerful user and access rights management (user groups)
 - Documents versioning
- Modular architecture based on CMF, with new services provided by tools
 - Easily extensible with new modules and tools
 - Many useful products already available
 - More in the pipe



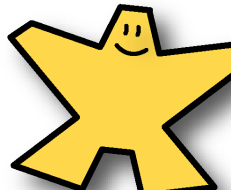
Who are “we”? (1/2)

- The CPS core team
 - Currently mostly Nuxeo developers
 - Opening to selected partners and third-party contributors
- Third-party products developers
 - Repository on cps-project.org
- Translators
 - Application i18n (aka “.po files”)
 - Documentation



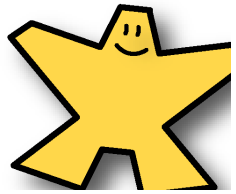
Who are “we”? (2/2)

- Systems integrators
 - Nuxeo
 - Partners
 - Others
- Customers and users
 - Central and local administrations
 - Academic institutions
 - Big companies
 - SMEs
 - Not-profit
 - Individuals



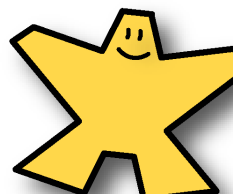
About Nuxeo

- French Zope company based in Paris
- Founded in 2000, self-funded, now with 20 people (developers and consultants)
- Expertise in Zope / content management / collaborative work
- We provide training / consulting / integration / development / hosting for global customers, either directly or through a network of partners
- We're mostly focusing on CPS now since it provides exactly what our customers want

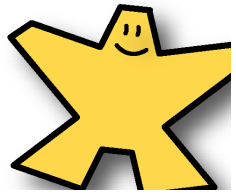


About our partners

- Mostly systems integrators
 - Capgemini (France, Belgium, Luxembourg)
 - Unilog (France)
 - Steria (France)
 - Semita (Reunion Island)
 - Touch Technology (Senegal)
- Call us / email us, we'd like to hear from you

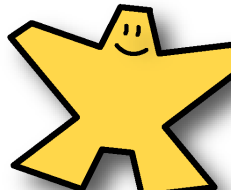


History



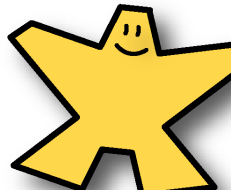
History (1/3)

- Started in 2001 with the Intercom' project for the French Prime Minister
 - First CMF-based project at Nuxeo
 - First implementation of virtual publication (using Topics)
- 2002: the SIT du Bas-Rhin project
 - Collaborative work (workspaces)
 - Portal personalisation (using boxes)
- 2002: the GroupZope project
 - Groupware components: webmail, group calendar, metadirectory manager



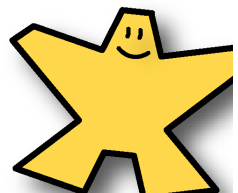
History (2/3)

- 2002–2003: Several projects based on CPS 2
 - CPS2 was the basis for all of our projects at the time
 - French Government Communication Services
 - Brittany, Oise local administration
 - Intranets in various administrations and (big/small) companies
 - Also used by other companies, like Capgemini
 - Branch in maintenance mode now
 - Still used by many people

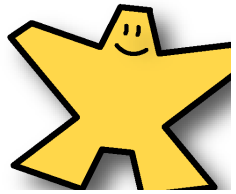


History (3/3)

- Now – CPS 3
 - Improved (= refactored) architecture for bigger projects
 - French Ministry of Interior
 - French Ministry of Defense
 - French Ministry of Culture
 - French Ministry of Finances
 - French Atomic Energy Commission (CEA)
 - ...
- Currently no plans for a new major rewrite / refactoring

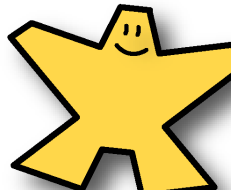


CPS current features

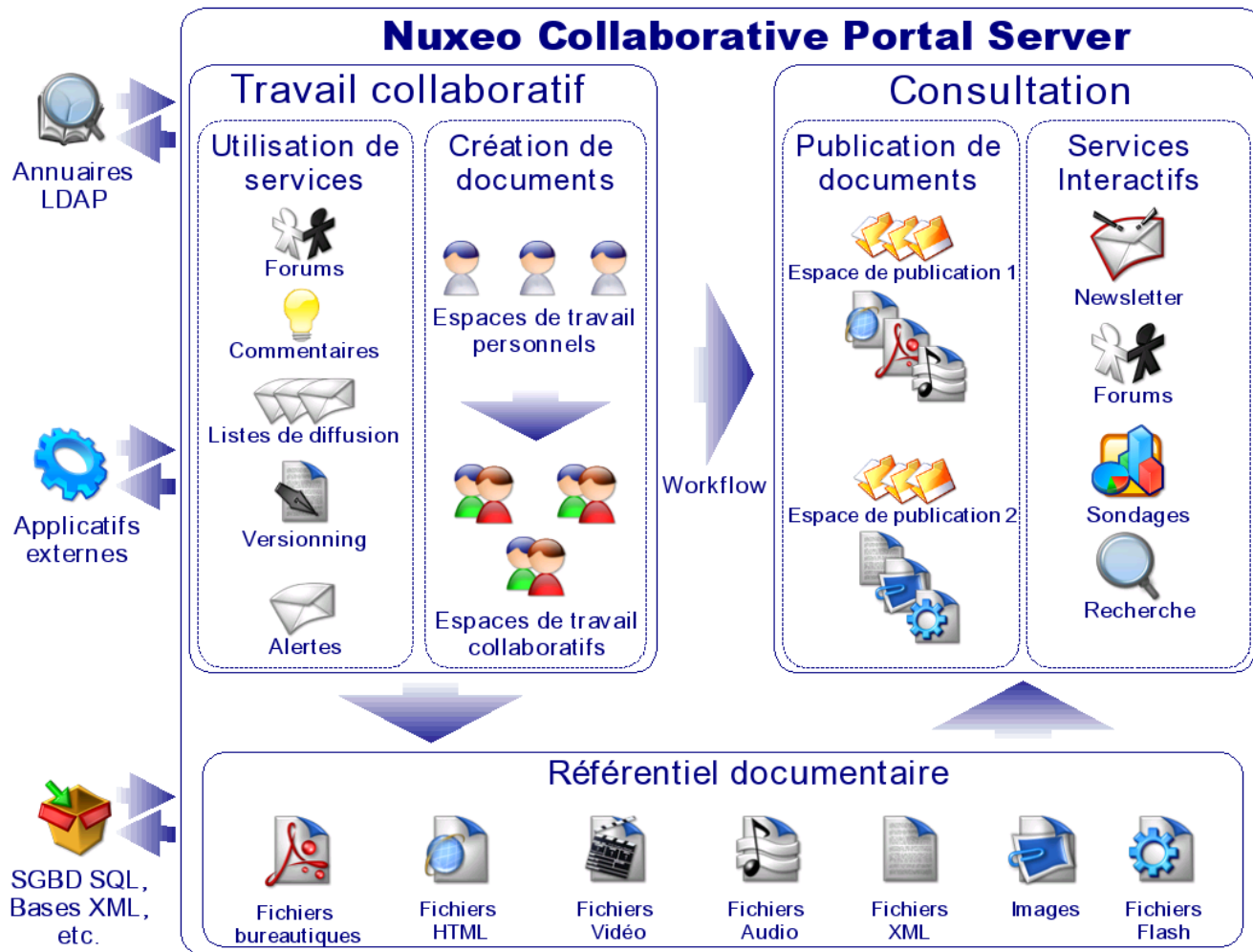


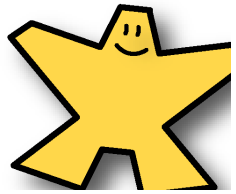
Fundamental functionalities

- Customisable web portal with portlets
- Publication spaces
- Workspaces
- Documents
- Services



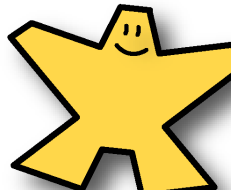
Functional diagram





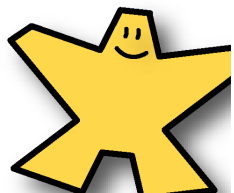
Technical core concepts

- Follow the CMF tools-based architecture, extended with some early ideas from Zope3
- Central repository and proxies in work and publication spaces
 - Provides the basis for versioning and content i18n
- Everything is workflow-driven (using DCWorkflow + extensions)
- Events and notifications

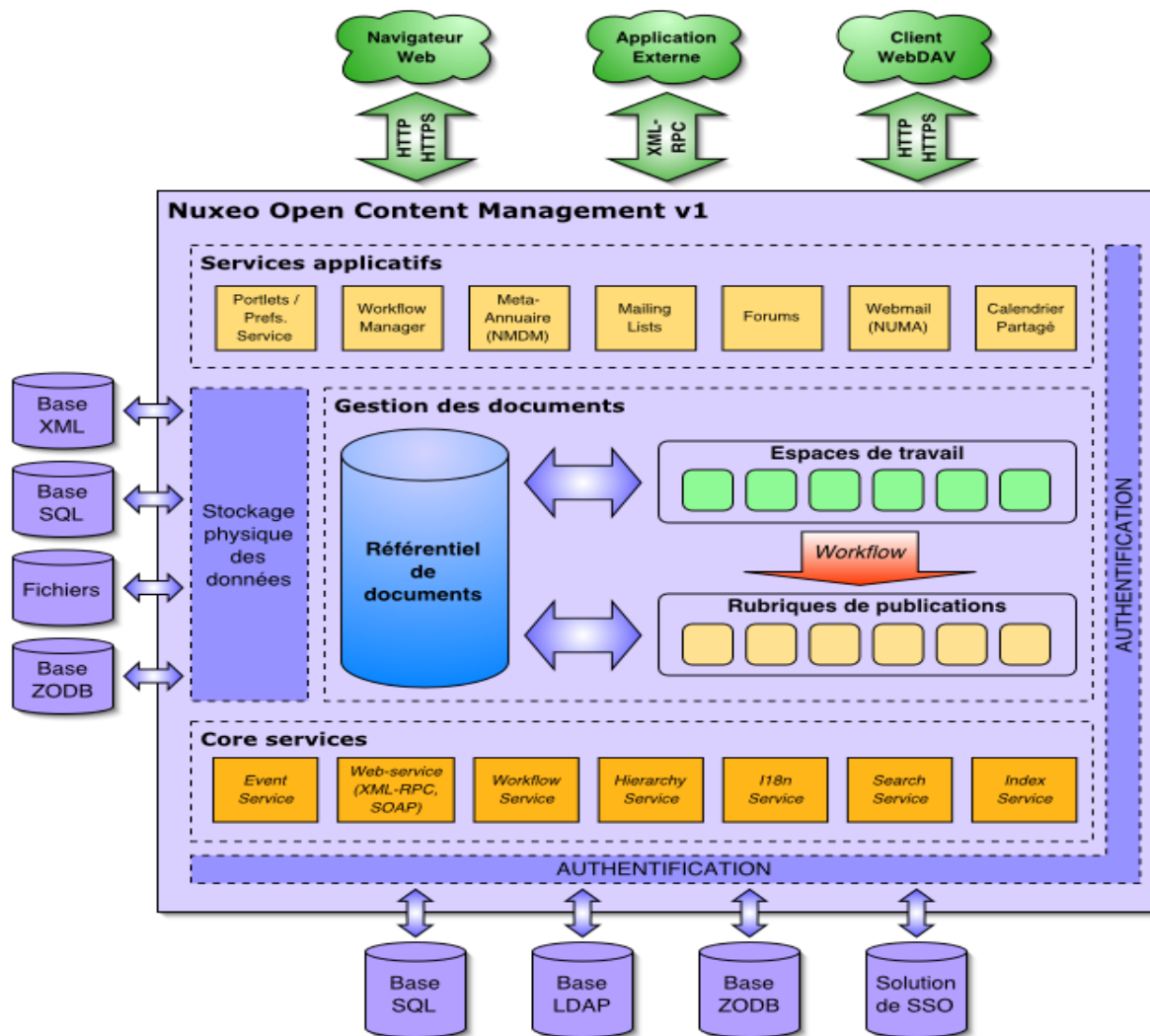


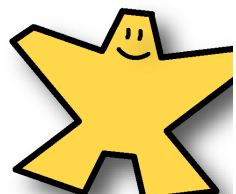
Revision system for documents

- Application-level versioning concept
- A document has a number of available revisions
- Independent publication
 - A document can be published in v.7 and pending in v.8
- Different languages have different revisions
 - Several translations can be pending
- Archived revisions
 - Archiving policy
- Global revision history



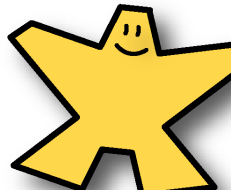
Technical diagram





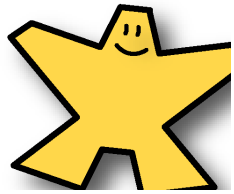
CPSCore

- Extends CMFCore with core services:
 - Virtual publication, versioning and content i18n
 - Repository
 - Proxies
 - Events notification service
 - Local workflow associations and workflow extensions
 - Navigation tree updates based on the notification service
- See Julien's talk tomorrow for more information



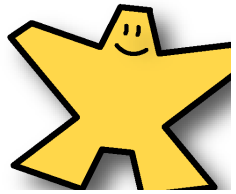
CPSDefault

- Extends CMFDefault by providing
 - A “portal” interface based on “boxes”
 - Default document types and workflows
 - Default skins and boxes types
 - A default installer



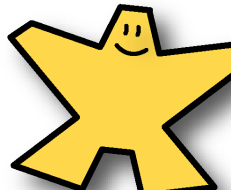
CPSSchemas & CPSDocuments

- Mostly Zope 3 concepts
- Content: fields, schemas grouping them
 - Storage adapters between schemas and object (intermediate representation)
- Views: widgets, layouts grouping them
- Reusability of schemas and layouts
- Vocabularies
- Factoring of common schemas (Dublin Core)
- Per-object customizability of schemas or layouts (aka “flexible documents”)
- Full TTW configuration through Tools



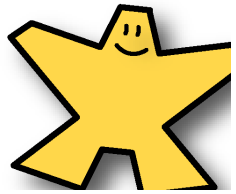
CPSDirectory

- Manages at least users, groups (including groups of groups) and roles
- Several pluggable backends
 - ZODB
 - LDAP
- Uses CPSSchemas for directory management forms, with ACLs on a field-by-field basis
- Coming soon: CPSUserFolder (see Julien's talk tomorrow)



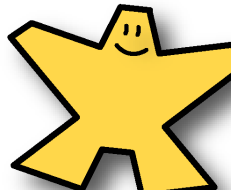
CPSInstaller

- Helps product writer easily install their products by taking care of
 - Document types registration
 - Skins registration
 - Workflow and actions configuration
 - Catalog configuration
 - ...
- Also useful for systems integrators
- Useful for stock CMF (CMFInstaller module)
- Will be extended to manage dependencies between products



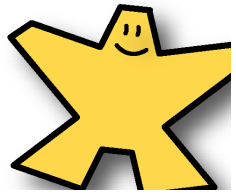
Other products

- CPSForum, CPSChat, CPSRSS
- CPSSubscriptions, CPSNewsletter, CPSMailboxer
- CPSUserFolder
- CPSCalendar + CPSWebMail (ex-GroupwareSuite)
- CPSSkins
 - See Jean-Marc's talk on wednesday
- ...



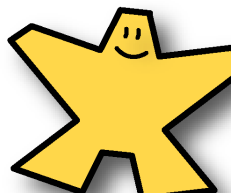
Case study: the MISILL Intranet

- Project done with Capgemini for the Ministry of Interior, of Internal Security and Local Rights
- 80000 users by the end of the project
- Toolbox to create the intranets for the Directorates inside the Ministry
- Migration of the public web site to CPS3



MISILL Intranet

- Incoming mail management
 - Indexes all incoming mails types using business metadata
 - Creates dynamic workflow chains for each mail
 - The mail goes down the executive chain, then back up for approval
 - This is a business-critical application because of the “60 days rule”
 - Answer can enrich a knowledge base
 - The mails is printed at the end of the chain
- Now a generic product (CourierCPS)



MISILL screenshot

File Edit View Go Bookmarks Tools Window Help

Home Bookmarks Intranet NG Google A lire Work A suivre Fun

Bienvenue sur le PSI de la DGCL Rechercher : mot clef ok

ESPACE PERSO INTRANET DGCL BASE DOCUMENTAIRE ESPACES PROJETS COURRIERS

Espace Courriers > Tableau de suivi > Dossier du courrier : 20042956

NAVIGATION
Lettre du préfet de...che

Dossier du courrier : DGCL-2004-87427 J-59
Normal

- ▶ Type Métier : Courrier entrant
- ▶ Créateur : [admin](#)
- ▶ Emetteur : Préfet Manche
- ▶ Destinataire : DSIC
- ▶ Date d'enregistrement : 21.01.2004
- ▶ Objet :

RÉSUMÉ COMMENTAIRES DOCS DE TRAVAIL HISTORIQUE PERSONNES MÉTA DONNÉES

Instructions : A traiter
Suivi : XXX

▼ 21.01.2004 1 - [admin](#)

Demiers post-it / visas :

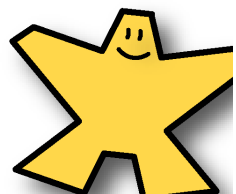
22.01.2004 [admin](#) ok c'est bon
[Répondre](#)
 22.01.2004 [admin](#) erreur [Suite](#)

Document entrant :

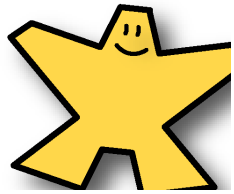
	Lettre du préfet de la Manche	21.01.2004	admin	0
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Clôturer Commenter Initier la réponse Modifier l'affect. Réinitialiser

NÜXEO

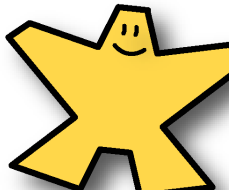


The Future



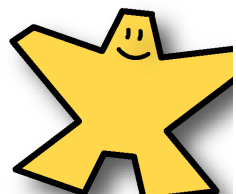
Technical roadmap (1/4)

- CPS 3.0 (stable, released 03/2004)
 - Core and default basic CPS products (CPSCore, CPSTDefault, CPSSchemas, CPSTDocuments, CPSTDirectories, CPSTForum)
 - Maintenance branch (3.0.1, 3.0.2...)
- CPS 3.1.0 (devel, released 04/2004)
 - Switch to XHTML, WAI enhancements
 - More widgets for CPSSchemas
 - New products: CPSTSubscriptions, CPSTInstaller, CPSTCalendar, CPSTRSS, CPSTChat, CPSTCollector, CPSTSkins



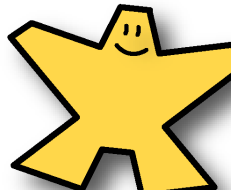
Technical roadmap (2/4)

- CPS 3.1.1 (devel, released 05/2004)
 - CPSForum refactored to use CPSSchemas
 - Speed enhancements
- CPS 3.1.2 (devel, release RSN)
 - New products: CPSWebMail, CPSUserFolder, CPSMailBoxer, CPSTypeMaker, CPSNewsletter
 - I18n of content rework
 - More scalability work



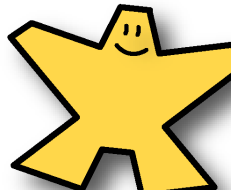
Technical roadmap (3/4)

- CPS 3.2 (stable, 09/2004?)
 - Stable release -> lots of testing
 - High-level XML import/export (CPSIO)
 - User management refactoring (CPSUserFolder)
 - Workflow editor (ported and refactored from CPS2)
 - Advanced metadata editor
 - Thesaurus
 - More repository work towards scalability
 - GIS (CPSMapServer)
 - Jabber



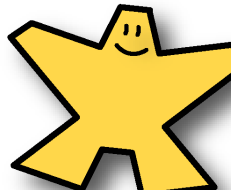
Technical roadmap (4/4)

- After CPS 3.2 (later)
 - Installer refactoring (dependencies management)
 - Multi-pages forms
 - Better XML handling
 - Better OpenOffice.org integration
 - Groupware tools refactoring
 - Better WebDAV support
 - Replication, staging, multi-site publication (we already have working prototypes)
 - ERP5 integration (announced last year, still WIP)
 - Usability enhancements (best practices)



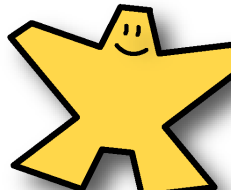
Products and business roadmap

- CPS “flavors” designed for specific target audiences
 - WebPublisher: simple web publication à la Plone / SPIP / Typo3
 - CommunityServer: sharing and collaborating server à la Yahoo! Groups.
 - Document lifecycle / records management
 - CourierCPS: mail management with complex lifecycle
- CPS versions or branches developed, supported and maintained for specific customers



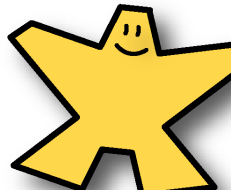
Community roadmap

- Already some great community members outside of Nuxeo
- New www.cps-project.org to go live in a few days
 - Fully internationalized (not only EN and FR)
 - Better 3rd-party products repository
 - More documentation, with translation workflow if there are volunteers
- User guide soon to be available in 4 languages (FR, EN, IT, ES)
- Technical documentation will be written or translated in English



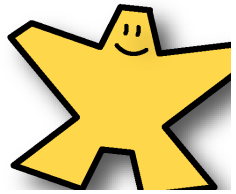
Conclusion

- CPS is a rich and powerful free / open source framework for Web Content Management and Collaborative Work
 - Already in use in several high profile projects
 - Supported by big and agile IT organizations
- Many users (3000+ source downloads / month, 600+ mailing lists subscribers)
 - Included or contributed in some Linux distributions
- New, exciting projects in the pipe



The end

- Thanks to
 - The CPS developers at Nuxeo, customers, partners and everywhere
 - Clients and users
 - The Zope and Python gangs
- We're hiring
 - Professional & enthusiastic Zope/CMF developers
 - Location: Paris or telecommuting
- Contact: sf@nuxeo.com



More information

- Sites
 - www.nuxeo.com
 - www.nuxeo.org/cps
 - www.cps-project.org
 - cps.demo.nuxeo.com
 - www.zope.org
- Mailing lists
 - lists.nuxeo.com
- White papers & documentation
 - Check on www.nuxeo.com and www.cps-project.org web sites