Agenda

- Business needs and use cases
- History
- Technology and architecture
- What’s new in Nuxeo 5.2
- Case studies
- The future: Nuxeo 5.2.x and Nuxeo 6
Who Am I?
Who am I?

- Founder and Chairman of Nuxeo (2000)
- Pioneer Open Source ECM **software vendor**
  - Sustained effort on R&D since 2003 (JEI, FP6, FP7, System@tic, Eureka...)
  - **Sustained** growth: from 0 to 3 ME turnover in 2008
- **International** organization: customers, partners, community (US subsidiary launched in Jan 2009)
- **50 employees** worldwide
Problems our customers are facing
avoid this
Nuxeo

Document Management

1. Capture
2. Share & collaborate
3. Process & Review
4. Publish & Archive
5. Search & Find
Nuxeo NewsWave
Nuxeo

Correspondance

Reporting

Unified mailbox
Workflow
Process
Share
Distribute
Archive
Find

Content Repository

Scanner
Mail
Fax
Nuxeo Digital Asset Management

Capture → Explore & Find → Process & Manage

Assembly & Delivery
History
A Bit of History

- Company started in 2000
- 2002-2005: Zope-based CPS project
- 2005: First Eclipse RCP based project
- 2005: Zope/Java hybrid: CPS4
- 2006-now: Full switch to Java
Our Original Goals

- Address the full ECM scope
- Initial focus on Document Management
- Architecture must be extensible and modular
- Enable and sustain the Ecosystem
- Easy to work with, design for participation
Our Original Vision

- Don't reinvent the wheel
  - Leverage existing standards, work on new ones (ex: JCR2, CMIS)
  - Build on proven open source libraries and components (JBoss, Apache, Sun, Eclipse)
- Use a robust software engineering process
  - Make it transparent for our community
Lesson Learned

- Zope Era
  - Value of components-based architectures
  - Basics of ECM
- Eclipse
  - OSGi and extension points
- Java Era
  - Value of standards (Java EE, additional JSRs, OSGi)
  - With proper tools, you can be as productive and have better quality w/ Java 5 than w/ Python
Technology and Architecture
Our technology

“More than a product, a platform!”

- Ubiquitous ECM platform
- Build around components & services ("Lego bricks")
- Advantages
  - Extensibility & customizability
  - Wide functional scope
  - Scalability & Security
Nuxeo Galaxy

Business Solutions
- NewsWave
- DAM for Intelligence
- Your Own Project

Packaged Applications
- Document Management
- Digital Asset Management
- Correspondence Management
- Content Aggregator
- Your Own App

Tech Platforms
- Nuxeo Enterprise Platform
  complete set of components covering all aspects of ECM
- Nuxeo Core
  lightweight, scalable, embedable content repository

Your Own Project
- DAM for Intelligence

NewsWave
- Document Management
- Digital Asset Management
- Correspondence Management
- Content Aggregator
- Your Own App

Your Own Project
- DAM for Intelligence

NewsWave
- Document Management
- Digital Asset Management
- Correspondence Management
- Content Aggregator
- Your Own App

Your Own Project
- DAM for Intelligence
Hierarchy of objects (folderish / contentish)

Formerly based on JCR / Jackrabbit (still supported)

Now native SQL engine: “Visible Content Storage”
  - Already supports PostgreSQL (prefered), MySQL, Oracle, MS-SQL, H2
  - Uses text indexes native to the RDBMS

May be extended someday to include a triple or quad store
Content Store Details (1/2)

- Documents are constrained by Document Types
  - Data models are defined by one or more schemas (ex: Dublin Core)
  - Behaviour is expressed by “facets” (ex: Folderish, Indexable, Versionable, etc.)
  - Also room for unconstrained content
- Access rights (ACLs)
- Replications, synchronisation, scalability
Other Persistence Needs

- Workflow: state stored by jBPM
- Relation engine: Jena triple store (currently)
- Directories: store in LDAP or SQL
- Audit: every action in the CMS can be logged to a specific DB for auditing purposes, for social timelines...
- User preferences (personal dashboard, notifications…)
- Conversion: cache for time-expensive transformations (ex: Word -> PDF rendering)
Workflow Details

- Based on jBPM
- Workflows can be graphically designed using jBPM design tools, then seamlessly deployed in Nuxeo
- Used for publication and for more complex document management tasks
- Other WF engines might be plugged with some effort
Searching and Indexing (1/2)

- Used to use Lucene (via Compass) for full text search
  - Didn’t prove very reliable (transactionality issues)
- Now text index in the RDBMS
  - Enables mixing fulltext queries with “classical” relational queries (in JOINs…)
  - Performance is DBMS-dependent
Searching and Indexing (2/2)

- Open API for external search engine
  - Enables integration of classical search engine (SOLR) or semantic ones (Sinequa, Exalead, etc.)
  - But not integrated with NXQL / CMISQL
- Tags are usually expressed as “dc:subject” properties
  - Can be controlled or freeform
  - We still need a dedicated service and UI to manage the whole tag space
- Content can be published (w/ WF) in a hierarchical “file plan” as in traditional document management
Relations

- Based on Jena
  - Queries can be expressed in SPARQL
- Current uses:
  - “Depend on”, “Obsoletes”, “Supercedes”... relations between documents
  - Annotations
  - Wiki links (forward / backwards)
Interfaces: Web

- Current “Collaborative DM” interface
  - Based on JSF/Seam
  - Multiple front-ends deployment using standard Java EE architecture (Session Beans)

- WebEngine: lightweight “RESTful” interface
  - Based on the JAX-RS API
  - Easier to customise for mobile devices
  - Used by BBC for mobile site (for instance)
Interfaces: Rich Clients

- **RCP**
  - Eclipse RCP based, used by AFP and PA
- **eRCP**
  - Embedded RCP client developed by Yerbabuena Software (community member)
- **GWT**
  - Used for complex interaction (ex: annotations)
- **Flex**
Interfaces: Remote API

- Web services:
  - JAX-WS API based on Metro
  - Soon: CMIS WS profile
- REST
  - JAX-RS API (WebEngine)
  - Soon: CMIS AtomPub / REST profile
- Java API: EJB remoting (RMI)
Metrics

- 300 KLOC (non-comments)
- 5000 Java classes
  - Including 600 test classes
- 174 modules
- 73 external (open source) libraries
Development tools

- Maven for dependency management
- Mostly Eclipse for development
  - Standard Java / Java EE plugins
  - Specific “Nuxeo IDE” used for faster code->build->test turnaround
- Work on UML models -> document types, lifecycles and workflow specification generator has recently started
Metrics

- 300 KLOC (non-comments)
- 5000 Java classes
  - Including 600 test classes
- 174 modules
- 73 external (open source) libraries
What’s New in 5.2?
Nuxeo Enterprise Platform 5.2
aka Chicago

A full-featured software platform for ECM
Nuxeo Enterprise Platform 5.2
aka Chicago

A full-featured software platform for ECM

- Unbreakable
  stable & scalable

- Easy to use
  and to customize

- Supported

- Very wide scope
  features (func & tech)

- Great packaging
  Windows, Linux, Solaris

- Documented
From 5.1.x ...

- 5.1.x has evolved a lot
  - performances and scalability improvements
  - search service improvements
- A lot of new features via addons
  - VirtualNavigation / Annotations / Preview ...
- but no API / Model changes
Major new features

- Content **Annotations** (annotate docs & pictures)
- Content **Preview** (see your docs, in your browser)
- **Visible Content Store** (keep control of your data)
- **WebWorkspaces** (expose your work on the web)
- Windows® **Sharepoint® Services** interoperability
- and **30+ more!**
... to 5.2

Based on developer's feedback

- infrastructure improvements
- simpler and extended APIs
- better consistency of model and extensions
- partially merge some addons into infrastructure
- bring new features
What is new in 5.2

Web side
WebEngine

- New light and flexible web framework
  - content and object publisher
  - FreeMarker templating system
  - scripting support
- More than WCM: content apps
  - easy web development
  - full access to ECM platform
- Based on JAX-RS binding model
  - easily expose REST APIs
Make nice web sites with Nuxeo!
JSF WebApp

• Major infrastructure upgrade
  • Seam 2.0
  • JSF Sun RI / RichFaces 3.2
• Better infrastructure
  • ~90 RPS on a 2K€ server
    (40% faster than 5.1 & 100% faster than 5.2-m2)
  • fully Ajax-enabled
  • easier and more consistent development model
WebEngine and JSF together

• Common infrastructure
  • Auth / Cache / Transactions ...

• Different characteristics
  • WebEngine: Stateless / Light / Rest
  • JSF: Stateful / PageFlow / JEE

• Different use cases
  • JSF: back office, business application
  • WebEngine: front office, WCM, web widgets
Theme manager

- Theme management has been improved
  - WebEngine enabled
  - WebWidgets
  - OpenSocial support

Wait for presentations from Jean-Marc and Damien ! :)

NUXEO DEV DAY 2008
What is new in 5.2

Document repository
Nuxeo SQL Repository

• Native SQL persistence
  • can be used as a replacement of Jackrabbit
  • default repository implementation for 5.2.GA

• Advantages
  • introspectable storage (DBA friendly)
  • easy low level imports
  • easy reporting using standard BI tools
  • better blob storage management
  • full support for query
Jackrabbit 1.4 Repository

- JCR Connector is maintained
  - with an upgraded version of Jackrabbit
- Improvements
  - faster
  - better blob store
- Better support for Query
Core Repository Model

- Operation management
  - easily inject custom code into Repository Core API
- Event handler model
  - better separation between handler types
- Better handling for complex properties
- Complete search API
  - repository now implements SearchService's API
What is new in 5.2
improved ECM services
Events and Audit Service

- Unified event and event handler model
  - easier contribution (will add scripting support)
- Audit customization is now a lot easier
  - no more JPA contribution
- Timeline service added to Audit log
  - view co-worker's activity from audit records
Transformers

- Integrate transformers created into addons
  - any2html, zip2text, image converters ...
- Integrate cache system from addons
  - temporarily store HTML or PDF view, tiles ...
- Tools for command-line based transformers
  - generic transformer
  - command-line registration/configuration service
Workflow and BPM

- 5.1 WF API is too complex
  - based on WFMC meta-model
- 5.2 introduces a new WF API
  - direct binding to JBPM
- 5.2 WF is simpler
  - only have to know JBPM and Nuxeo basic API
- 5.2 WF is faster
  - direct access to JBPM / Hibernate APIs
Search and Indexing

- Drop Compass based SearchService in 5.2
- SearchService now provided by the Repository
  - Jackrabbit 1.4 / Lucene 2.2
  - SQL Repository / FullText implementation is vendor dependent but NXQL compliant
- WebService API for external indexers
  - Sinequa CS
  - Exalead
  - Antidot
What is new in 5.2

new clients
New RIA clients

- Adds support for browser-based rich clients
- Flex clients
  - using plain REST or AMF via Nuxeo flex connector
- GWT clients
  - using plain REST
True multi-clients support

Nuxeo Platform

Content apps & WebSites

WebEngine

Eclipse RCP

Productivity-focused business apps

Administration

Dedicated RIA

GWT

Flex / Air

General public Application

JSF

Business Application

NXShell

NUXEO DEV DAY 2008
What is new in 5.2

new features
HTML preview and annotations

- Preview service
  - pluggable html transformers
  - preview adapter model
- Annotation service
  - annotate text & images
  - standard-compliant (W3C Annotea)
  - RDF Based
- GWT based annotation client
Preview & Annotations in action

3. GetField

Lit un champ commençant dans trois types d’enchaînement de balises :

- Titre
  Script Perl de découpe d’une séquence vidéo et de son équivalent XML de transcription, et d’ajout au XML les meta données suivantes : titre, auteur, date, durée, taille, chemin de la vidéo, plan de classement (‘classer’), niveau de confidentialité (‘confident’) et commentaire (‘comment’).

- Lecture
  Appelé en CGI par l’EBS de la GED MM via l’interface HTML de découpe vidéo.
  Nécessite le fichier de configuration /conf/videoGetCui.conf.

- Champs
  
<Champs_2 Champs_X="valeur_X" Champs_3="valeur" Champs_Y="valeur_Y" [...] > valeur Champs_2 </Champs_2>
</Champs_1>

- Deux balises
  Lecture de la valeur du champ 2 sachant que sa position suit le schéma :

<Champs_1 Champs_X="valeur_X" Champs_2="valeur" Champs_Y="valeur_Y" [...] > valeur Champs_1 </Champs_2>

- Une balise
  Lecture de la valeur du champ 1 sachant que sa position suit le schéma :

<Champs_1 Champs_X="valeur_X" [...] > valeur Champs_1 </Champs_1>

- Paramètres d’entrée

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<th>Valeurs</th>
<th>Description</th>
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</thead>
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<tr>
<td>Utilité</td>
<td>Champs</td>
<td>Fournit les détails sur le profil d’entrée.</td>
</tr>
</tbody>
</table>
Annotations & pictures

• Annotations on picture
  • annotate an image fragment
  • extends W3C Annotea

• Tiling Service
  • tiles computation service based on ImageMagic
  • manages cache and preprocessed tiles

• GWT based client
  • navigate in large pictures
  • manage annotations
Tiling & annotations in action
Rendering Engine

- rendering framework
- extensible and pluggable
- default engine based on freemarker
- Can be used for very different purposes

WebEngine: Wiki markup

```
1. Overview
NuXeo WebEngine is a framework to build RESTful web applications on top of the NuXeo DP platform. The main goal for the WebEngine is to provide a framework to quickly build web applications on top of NuXeo DP. We don't need to have any advanced knowledge about J2EE or other Java related web technologies. The only thing you need to know is how Java works. So, before reading this documentation it is recommended to familiarize yourself with Java.

1.1. Java-RS
You can find some useful information about Java-RS here:
* http://www.vogella.de/free/tutorials/ResJavaRest.html
* http://code.google.com/p/zh这样的项目

Before starting to look at WebEngine, I will remember to you some aspects about Java-RS. Java-RS is a Java API to build RESTful Web Services. What the hell means that?

Usually the name of a REST service is the name of the class that you can find here more in the topic here:
http://www.java2s.com/Tutorial/Java/Deserve/deserve_5_style.html
* http://en.wikipedia.org/wiki/Representation_state_transfer

But let's forget for now the REST level. Generally speaking, Java-RS defines an API that let you access Java objects through HTTP requests.
```

TeleText rendering (from PA's system)
Mail connector

- Fetch mails from a mailbox
  - inject mails as Documents into Nuxeo
- View a mailbox as a Folder in Nuxeo
Query Wizard

- Provides a wizard to create a complex query
  - let end user access search full power
- Creates a virtual folder from a Query
  - define custom view on Document repository
What is new in 5.2
for developers
Nuxeo 5.2 – more productivity

The #1 programmer excuse for legitimately slacking off:

"RESTARTING JBOSS"

Hey! Get back to work!

JBOSS starting!

Use Jetty!
What has changed

• Improved API for a lot of services
• New web development model
  • WebEngine + scripting
• Packages for developers, with fast start up
  • Jetty / GlassFish / Tomcat
• Nuxeo Studio
  • Better IDE integration (hg & m2 plugins)
  • Artifacts wizards
  • Custom editors
What is new in 5.2
Deployment target
More deployment options

- Application Servers support
  - JBoss 4.2.3
  - GlassFish 3
  - Jetty
  - Tomcat 6
- could be planned: <Your App Server Here> :)
- Java 5 and Java 6
Target servers: why does it matter?

- More options is always more freedom
- To meet the requirements of our customers
- To provide lightweight deployment solutions
- To provide a lighter and faster dev environment
- The exercise is healthy for the platform
Who Uses It?
Major Nuxeo Customers
AFP Console NG

- Multimedia news authoring and publishing
- Targeted to multimedia Desks
  - XHTML WYSIWYG Editor
  - Full NewsML 1.2
  - IPTC support
  - Real-time collaboration and news feeds
  - Spellchecking support (with custom dictionaries)
- Photos / Videos / Flashs
- Java EE on the server side
- Eclipse RCP on the client side
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<td>GB-Nigeria-littérature-prix GB: une Nigériane remporte le prix littéraire féminin Orange Broadband LONDRES, 7 juin 2007 (AFP) - L’écrivain</td>
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Le Premier ministre japonais Shinzo Abe a réaffirmé mercredi l’opposition du Japon à une levée de l’embargo sur les ventes d’armes à la Chine lors d’un entretien avec le président français Nicolas Sarkozy en marge du sommet du G8.

"Le Japon s’oppose à toute initiative de l’Union européenne en faveur d’une levée de l’embargo sur les exportations d’armes à la Chine", a indiqué M. Abe au Président français, selon un responsable gouvernemental japonais.

"Il est important de connaître la position du Japon sur cette question", a simplement déclaré M. Sarkozy, sans répondre directement au dirigeant nippon.
The Workspace

Collaborative Workspace

Publishing Sections

Metadata & Rich Text Editor

Incoming Feeds

Quick View

Search Results
Workflow

Collaborative Workspace

Publishing Sections

Metadata & Rich Text Editor

Incoming Feeds

Quick View

Search Results
It’s even bigger, actually
Le président français Nicolas Sarkozy est arrivé mercredi après-midi à l’aéroport de Rostock-Laage (nord-est de l’Allemagne), pour participer au sommet du G8 qui se tient dans la station balnéaire de Heiligendamm, du 6 au 8 juin.

L’Airbus présidentiel, en provenance de Paris, s’est posé peu avant 14h00 GMT, selon les images transmises par la télévision interne du G8.

M. Sarkozy est descendu de l’avion main dans la main avec son épouse Cécilia, toute vêtue de blanc. Le couple devait immédiatement se rendre en hélicoptère à Heiligendamm où il résidera, comme les autres chefs de délégation, dans un luxueux complexe hôtelier au bord de la Baltique.

Le président français, qui a succédé le 16 mai au vétéran Jacques Chirac, participe à son premier sommet des huit grandes puissances.

Il devait aussitôt s’entretien avec la chancelière allemande Angela Merkel, puis avec le Premier ministre japonais Shinzo Abe.
Flexible Picture Editor
Delivered to customers
NUTXT Project

- New editorial system for PA to serve analog and digital Teletext in the UK
- Create the foundation for other systems at PA that might migrate to it (photo, text)
- 100+ users, 4 locations (UK, India)
Workspace

Collaborative "Baskets"

Publishing area
Staging / On Air

Metadata and Content Editor

Collection / Slots Management

Search
Photo Collection etc.
Anti-Semitic death threats have been sent to Chelsea football boss Avram Grant in a package containing a white powder, police said.

A note addressed to Grant was opened by a member of staff. It was found to contain anti-Jewish insults as well as claims that the powder was lethal.
India skipper Mahendra Dhoni attracted the highest early price as bidding got under way for players in the Indian Premier League.

Some star-studded names are tournamant.

Dhoni was bought by Chennai (£359,410) and Shane Warne $150,000 (£85,000).

Australia's Adam Gilchrist went for $700,000.

The auction continues throughout the day in Mumbai on Wednesday.
The future: Nuxeo 5.2.x and 6
Roadmap

- March 2009: Nuxeo 5.2 RC (done)
- April 2009: Nuxeo 5.2 GA
- June 2009: Nuxeo 5.2.1
  - Bugfixes + addons + tools
- Later: Nuxeo 5.2.2, 5.2.3, etc. (one every 2 months?)
- End of 2009(?): Nuxeo 6
Nuxeo Workshop

Lean environment to imagine and create next-generation content apps
Nuxeo Workshop

Lean environment to imagine and create next-generation content apps

- Deep integration with dev tools (ex: m2, hudson, hg)
Nuxeo Workshop

Lean environment to imagine and create next-generation content apps

- Deep integration with dev tools (ex: m2, hudson, hg)
- Handy editors (doctypes, forms, query, etc.)
Nuxeo Workshop

Lean environment to imagine and create next-generation content apps

- Deep integration with dev tools (ex: m2, hudson, hg)
- Handy editors (doctypes, forms, query, etc.)
- Fast code/deploy/test cycle
Nuxeo Workshop

Lean environment to imagine and create next-generation content apps

- Deep integration with dev tools (ex: m2, hudson, hg)
- Handy editors (doctypes, forms, query, etc.)
- Fast code/deploy/test cycle
- Live content browser & debugger
Nuxeo Command Center
Nuxeo Command Center

- Monitoring Services
  - extensible sensors
  - nagios integration
Nuxeo Command Center

- Monitoring Services
  - extensible sensors
  - nagios integration

- Admin Console
  - live monitoring (operations, jobs, stores, pools, etc.)
  - visual operations (backup, restore, cluster, etc.)
CMIS & Unified ECM API

- Exposes CMIS API and model
  - as main api for content access
- Extends CMIS to expose more services
  - audit, multi-files support, complex properties ...
- New high level API
  - simpler model
  - smaller set of interfaces
  - Java and REST APIs
New Unified ECM API: why?

- Easier for developers and integrators
  - simpler model
  - smaller set of interfaces
- Standard compliant
  - business application's core logic is not bound to Nuxeo
  - create vendor-neutral apps
- Technology-neutral (http based)
  - can be called remotely from any technology
Nuxeo in the Sky

the first ECM platform built on and for the cloud

- **Grid** technologies at the **core**
- Everything **distributed**
- **Cloud storage** for Nuxeo Core (sky's the limit)
- Grid for distributed **job execution**
- **Built-in** horizontal **scaling**
New services

- Remote publishing (multi-sites management)
- Replication and offline mode
- Unified ECM API with CMIS support
Remote publishing

- Current publishing service
  - publish via proxies in the same Repository
  - publish XML/FOP transformed content to local/remote filesystem (ftp/http ...)
- Target: one generic publishing service
  - publish locally or remotely
  - publish on filesystem or on Nuxeo
  - have a unified publishing interface
- Address multi-sites management challenges
Unified publishing

File System

XML

HTML

Local publishing (proxies)

Nuxeo remote publishing (DocumentModels)

XML publishing

HTML publishing

http

ftp

rest

java

Nuxeo

DMs

NUXEO DEV DAY 2008
Nuxeo Sync: use cases

- Decentralized architectures
  - local read-only copy for centralized content
  - “reverse distant publishing”
- Apogee mobile users
  - local working copy for offline usage
  - push back data when back online
Nuxeo Enterprise Platform 6
aka New York

Content apps for enterprises
Nuxeo Enterprise Platform 6
aka New York

Content apps for enterprises

- Better UI
  simplify, streamline, lighten
Nuxeo Enterprise Platform 6
aka New York

Content apps for enterprises

- Better UI
  simplify, streamline, lighten

- Leverage the cloud
  all things distributed
Nuxeo Enterprise Platform 6
aka New York

Content apps for enterprises

- Better UI
  simplify, streamline, lighten
- Leverage the cloud
  all things distributed
- Focus on content apps
Nuxeo Enterprise Platform 6
aka New York

Content apps for enterprises

- Better UI
  simplify, streamline, lighten

- Leverage the cloud
  all things distributed

- Social Features
  Open Social, “Widgets”

- Focus on content apps
Nuxeo Enterprise Platform 6 aka New York

- Better UI: simplify, streamline, lighten
- Leverage the cloud: all things distributed
- Focus on content apps

Content apps for enterprises

- Social Features: Open Social, “Widgets”
- Nuxeo Core 2: CMIS, fully distributed
Nuxeo Enterprise Platform 6
aka New York

Content apps for enterprises

- Better UI
  simplify, streamline, lighten
- Leverage the cloud
  all things distributed
- Focus on content apps
- Social Features
  Open Social, “Widgets”
- Nuxeo Core 2
  CMIS, fully distributed
- Better packaging
How You Can Help

- Test, file bug reports or RFEs
- Comment on proposed new API or API refactorings
- Write or improve pieces of documentation (FAQ, howtos, Nuxeo Books...)
  - Use our Wiki for easier collaboration
- Write or improve translation files
  - Already: EN, FR, DE, IT, ES, VN, CN
How You Can Help (contd.)

- Become a committer
  - First, submit your patches to the Jira
  - You must adhere to the projects coding rules and quality standards
  - We will give you direct access after a while
- You’re also free to develop your own extensions
  - We can host them if you want
  - Including putting them under CI, etc.
Questions?