

eDOC: a collaboration infrastructure to manage knowledge and information on nuclear projects and research activities

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International conference on Nuclear Knowledge Management:
Strategies, Information Management and Human Resource
Development

Saclay, 7-10 September 2004

Our context : missions and offers



Expertise domains

Knowledge Management Methods and Tools including : Web Publishing and Author Content and Document management, Online Collaboration

→ *Not a R&D unit but a internal service provider*

Clients typology

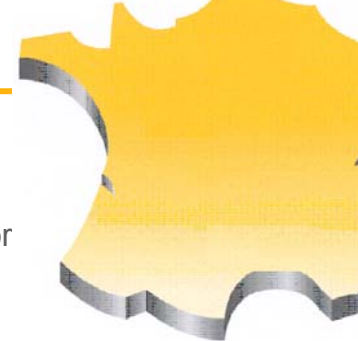
All research centers and departments of the CEA
Administrative units (HR, Finance, Strategy, Communication, Quality, etc.)
Inter-organism projects and collaborations
+ some assistance to partners (CNRS, AREVA, ANRT...)

Internal offers

Software Investment Decision helping
Knowledge driven Project Consultancy and Assistance
Web and Applications hosting
Applications Service Provider (web authoring, virtual workspaces, repositories...)
Scientific Information Portal Editor

Internal collaborations

With local IT supporting teams (one per research center)
Evaluation of built-in KM solutions (if industrial transfer is done)



Some initiatives in the recent past at CEA



- Critical knowledge capitalization projects
 - REX (Return on experience capitalization methodology)
 - MKSM ('Method for Knowledge System Management') for knowledge book production
 - Face to face work between expert and knowledge manager then knowledge modelization using multiple viewpoints
- But these are :
 - Post-mortem actions
 - Expensive to implement

New objectives

- integrating capitalization tools into projects' tools
- providing tools to support 'communities of practice' (inter-organisation projects, european projects, project teams)



Facilitate R&D projects

Managing a project, sharing information, managing knowledge and deliverables in cross divisional or multi-part projects is very difficult (for many reasons). The web collaboration platform should not be yet another project issue.

Share resources and best practices

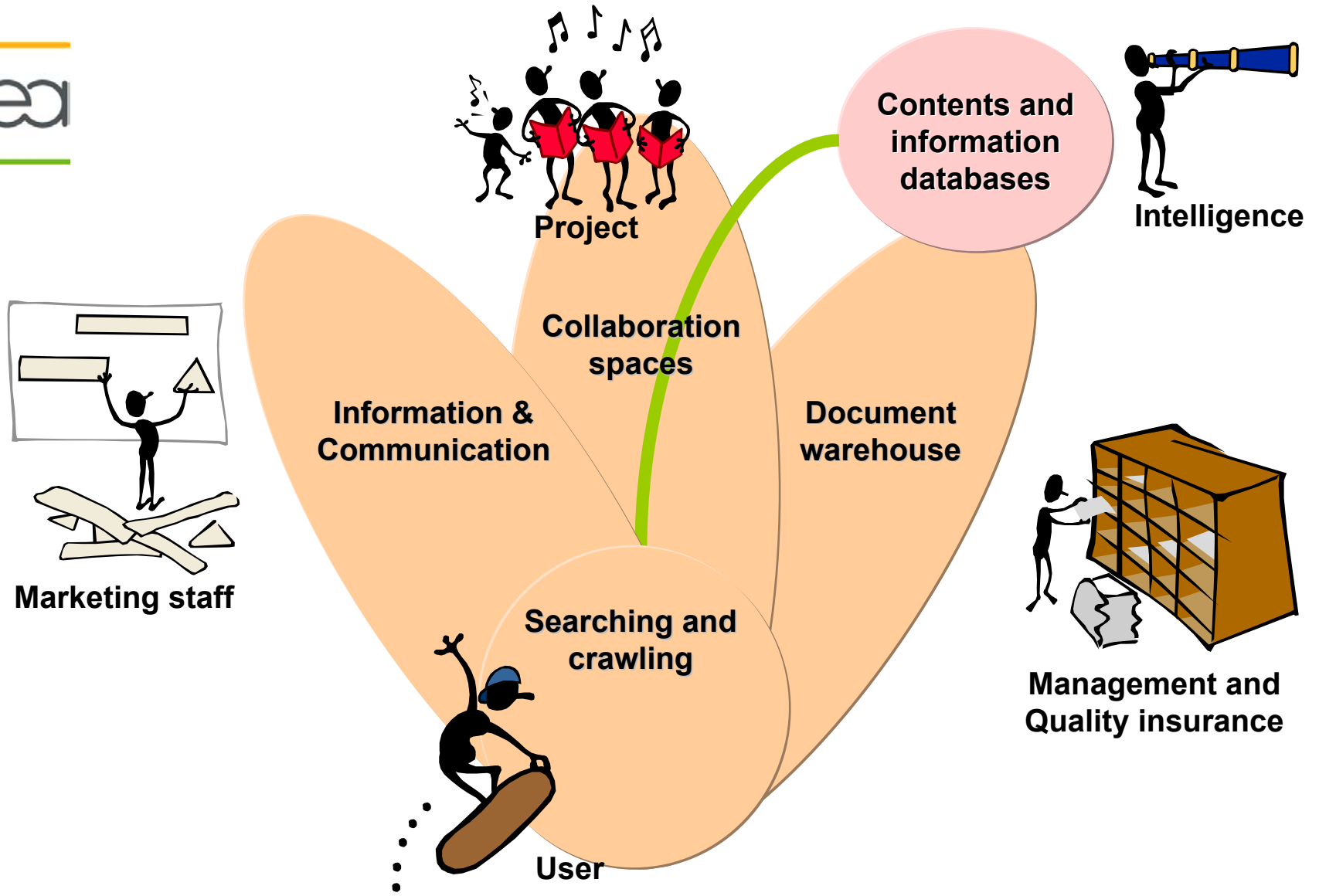
Basic document and information management tools are common. Specific developments have to be limited to what is really specific.

Prepare long term memory management

Knowledge lifecycles are different from project lifecycle. Project manager has to sub-contract memory management to a more perennial and dedicated infrastructure.

→ Provide a ready to use online services infrastructure

ECM Typical issues



Technology choices

2002 : broad evaluation survey of both proprietary and open-source document and collaboration solutions



- Proprietary solutions :
 - Wide functional spectrum
 - Licensing schemes leading to one shot deployment for all employees
 - Top-down decision
 - Difficult chargeback policy in the case of inter-organization projects
 - Mostly frameworks

- Open-source solutions :
 - Very different maturity levels (security, modularity, ...)
 - Community analysis
 - Application cloning
 - 'Pay per functionality' model for new modules

→ We choosed to implement eDOC using open-source Zope/CPS application with limited fonctionnal and technical enhancement

eDOC functionalities



An eDOC virtual workspace

- A specific portal home page
- A set of workspaces
- A members directory

Workspaces management

- Personal or group workspaces
- Rights and roles
 - Manager, Member, Visitor, *Anonym*

Publishing folders

- Header and skimmers design

Content authoring

Extensible document typology set

- note, news, contacts, page web, files, URL, document, + optional specific data

Version management

Annotations

- Workflows for notification, reviewing, validation and publication

Informal collaboration

- Discussions
- Notifications
- Agenda and events
- Tasks and scheduling
- Bug/issue tracking

Push and pull

- Mailing-List
- Newsletter
- Notifications
- Search engine

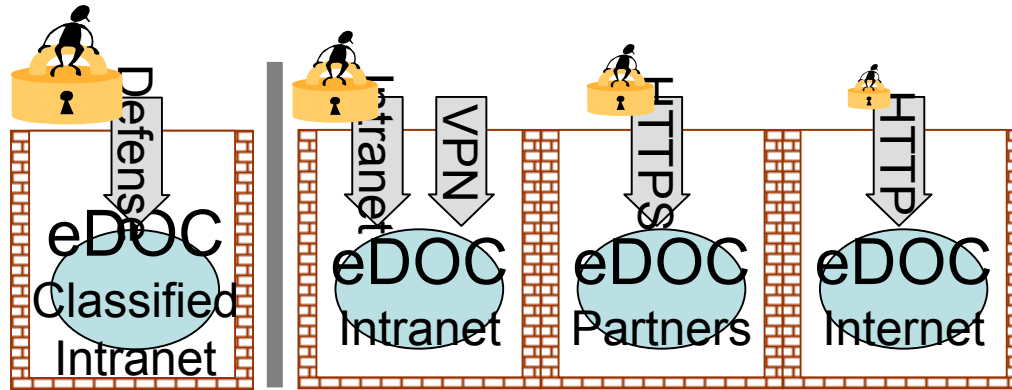
Reporting

- EC reporting forms for UE projects
- Trig and schedule for reporting

Application deployment strategies



- ‘All-included’ service offer: from technical service to application setup consulting
- Different security levels setups :



- Maintaining one application codebase with extension modules
 - Highly configurable module set, allowing deep personalization
- We map generic features to specific project needs
- We identify new needs and implement them as reusable functional modules made available for all users

Application example (nanolife european project)



Bringing Nanotechnologies To Life : Bringing Nanotechnologies To Life - Microsoft Internet Explorer

Fichier Edition Affichage Favoris Outils ?

Précédente Revenir Rechercher Favoris Média

Adresse https://project.nano2life.org/

Bringing Nanotechnologies To Life search [] [ok] [advanced search]

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Nano2Life

Portal

admin

- Log out
- My boxes
- Members
- Directories
- Global boxes
- Résumé des droits
- Portal configuration
- Check mirror
- Upload mirror

Hierarchies

Workgroups

Private

Quick Links

- FP6

[Réalisé par CEA/DSI/SITI]

Welcome



Welcome to Nano2Life Workspace

For any information, please contact [the coordinator](#)

Latest News

- First successful STREP out of Nano2Life on cell-on-chip** (07/05/2004 10:08)
The first joint STREP coming out of the Nano2Life consortium has been accepted by the European Commission.
- Nano2life fellowships for nanobio summer schools 2004** (07/01/2004 09:38)
This news present the results of the first call for supporting theregistration to summer schools in nanobiotech.
- New pictures on eDoc** (05/14/2004 15:02)
Photographic libraries are now available on eDoc
- Successfull meeting of the Joint Research Programme in Stresa, Italy, on 19 - 20 May 2004** (04/26/2004 07:49)
Short summary of the first meeting of the Joint Research Programme of Nano2Life.

Next events

- WP7 meeting** from 10/18/2004 10:00 to 10/19/2004 18:00 in Barcelona, Spain
- ExBo meeting** from 10/20/2004 13:46 to 10/21/2004 13:46 in PCB, Barcelona, Spain

All Events >>

Objectives

Nano2Life is the first European Network of Excellence supported by the European Commission under the 6th Framework Programme. Its objective is to merge existing European expertise and knowledge in the field of nanobiotechnology in order to keep Europe as a competitive partner and to make it a leader in nanobiotechnology transfer.

Nano2Life is tackling fragmentation of European nanobiotech by joining 23 so far unconnected dynamic, highly specialised and competent regions and centres with experience in initiating and running nanobiotech programmes. A pool of 21 high tech companies is associated to the network.

Nano2Life aims to set the basis of a virtual European Nanobiotech Institute, focused on the understanding of the nanoscale interface between biological and

Nano2Life est le premier réseau d'excellence européen reconnu par la Commission Européenne dans le 6ème Programme Cadre de Recherche et Développement. Son objectif est d'intégrer l'expertise européenne existante dans le domaine des nanobiotechnologies et de rendre l'Europe plus concurrentielle y compris dans le transfert industriel.

Nano2Life vise à réduire le morcellement des nanobiotechnologies européennes en intégrant 23 centres ou régions jusqu'ici indépendants, ayant une expérience reconnue dans la mise en œuvre de programmes en nanobiotechnologies. Un groupe de 21 sociétés privées de haute technologie est également associé à ce réseau.

Nano2Life doit préparer les fondements de l'Institut Européen des NanoBiotech,

N2L Events

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Latest Documents

- N2L address book** 07/27/2004
- European funding possibilities for mobility** 07/15/2004
- Internal N2L newsletter #1** 07/01/2004

User's manual

When anything else failed, read this [manual](#)

Application example (nanolife european project)



Bringing Nanotechnologies To Life : Private area - Microsoft Internet Explorer

Fichier Edition Affichage Favoris Outils ?

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Adresse https://project.nano2life.org/Members/adminCPS/Nano2LifeSummerschoolApplicationForm_create_form?base=Summer+school+application+form OK

Nano₂Life Bringing Nanotechnologies To Life

search [] ok advanced search

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Portal > Members > Area of admin CPS

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Hierarchies

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Private

- Private area
- Area of admin CPS

Quick Links

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[Réalisé par CEA/DSI/SITI]

New summer school application form

Name of the applicant []

Summer school Neuchâtel [v]

Institute / Organisation []

Your education level Undergraduate [v]

Address Undergraduate [v]
Graduate [v]
Postgraduate [v]

Phone []

Fax []

e-mail []

Date of birth []

Gender Female [v]

Motivation []

Scientific background (including refs to 3 recent publication) []

actions

- View
- Access rights

Return on experience



- Keep it simple !
 - Strong project management commitment needed
 - Separate website project and collaboration platform project
 - Low total cost
- eDOC project show that it is possible to build generic low-cost service offer that covers a large part of projects' needs.