

Bruno Silva de Sousa IT/OIS • October 2014

# **Make the most of SharePoint at CERN**

# Agenda

SharePoint at CERN

Some examples

What's new

Migration

Questions

# Wait, what is SharePoint?

It's a web based business collaboration platform for the Enterprise and the Internet.

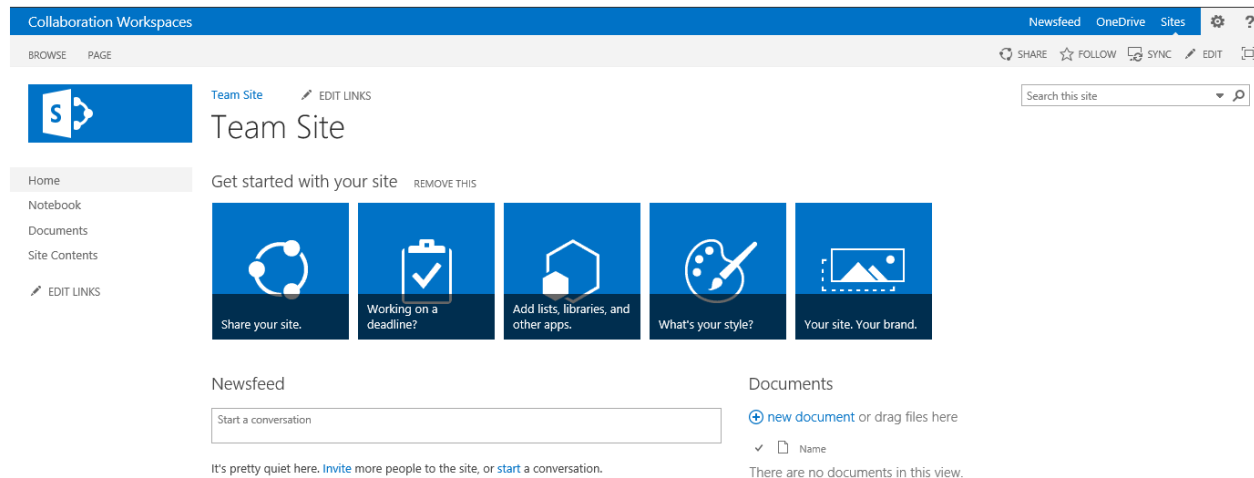
Its simplest definition



<https://www.flickr.com/photos/99159536@N00/3651315962>

But we focus on SharePoint as a tool for team collaboration that can implement business processes.

# How does it (used to) look?



**Evolving since 2001, 13 years of maturity.**

# But why SharePoint at CERN?

## Common problems back to 2007:

### Information organization

- «50 to 70% of employees get their relevant information from other people».
- «More than 80% of enterprise's digital information resides on individual hard drives and personal files».
- Individuals hold the key to knowledge and most of it is lost when they leave the enterprise.

### Technical skills

- Web developer skills required to publish information on the web, develop a surveys, share documents, create discussion forums

# But why SharePoint at CERN?

## The introduction of SharePoint 2007 would:

- Integrate and structure information on different systems.
- Empower end-users.
- Improve team collaboration.
- Enhance information search.
- Open new possibilities to develop new applications

# Some numbers

## Service pilot started in 2007

- Production quality service in 2009
- Major upgrade to version 2010
- Coming major upgrade to 2013

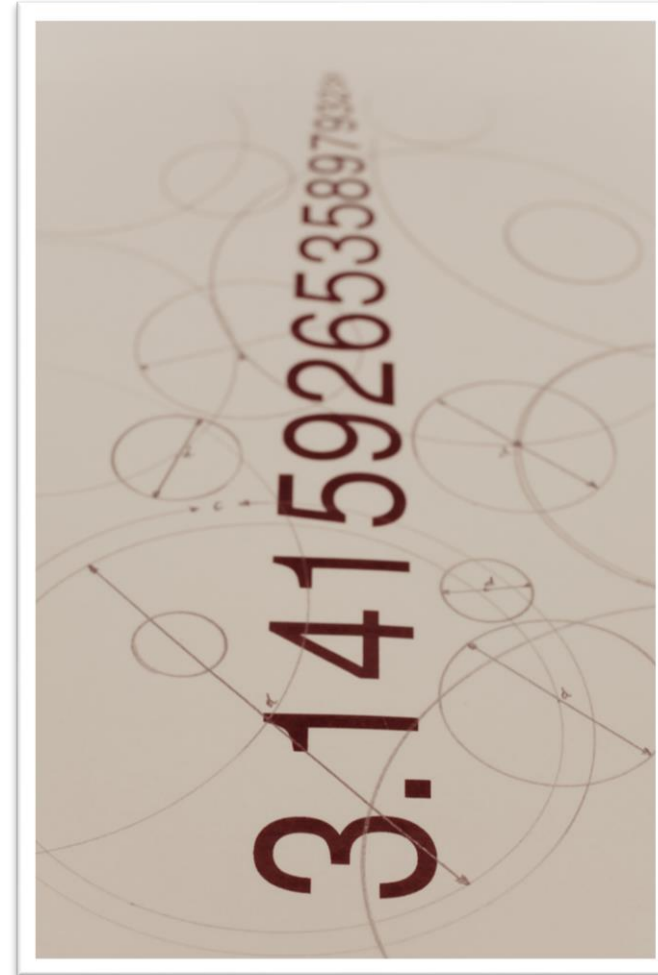
## 2568 Collaboration Workspaces created

- 40 run on dedicated databases with 75GB
- 170 running on SharePoint 2013

## 800GB of data stored on SharePoint

- Not counting E-Groups Archives, CERN Search and Social

## No major service interruption in 7 years



<https://www.flickr.com/photos/35626815@N07/6062272092>

# Some examples

## Some nice examples about SharePoint at CERN

- Fire Brigade
- Open Days / CERN60 Voisins event
- FCC
- CMS Secretariat
- THE Port
- CERN Market
- BE IPAC papers approval

**This is not an extensive list but just some project where I was involved**



# Fire Brigade

## Daily operational tool

- Feuille de Garde
- Shift
- Checklists w/ iPads
- Deployment codes

## Departure Codes - Reports

C  
O  
M  
M  
U  
N  
I  
C  
A  
T  
I  
O  
N  
  
O  
P  
E  
R  
A  
T

Caller

Phone Number:

ID:

Name:

Intervention Type:

Other Information:

Location

Zone:

Site:

Location Comments:

Building:

Building Location: <https://gis.cern.ch/gisportal/>

Room:

Room Location: <https://gis.cern.ch/gisportal/>

Call Nature

Family:

Nature Comments:

Category 1:

Category 2:

Category General:

Compute Deployment

The following have to go on site:  
When code is ready click on "Compute Deployment"

The following have to be informed::  
When code is ready click on "Compute Deployment"

# Open Days / CERN60 Voisins


## Volunteers management

- Registrations
- Visit point/role assignment
- Email communication
- Statistics

Implemented in less than  
one week

CERN Accelerating science

Signed in as: bsilva

 CERN60 volunteers  
[Home](#) [Roles](#) [Public website](#)

YEARS/ANS CERN

First Name, Last Name \*

Gender \*

Mobile phone

Mother tongue \*

Additional languages ☐ English  
☐ Français  
Please choose a language ONLY if the you have a conversational level

Visit point \*

Other visit points? \*   
If from the organisation point of view it's necessary, I agree to volunteer for another visit point

Availability

Saturday morning

Saturday afternoon

Sunday morning

Sunday afternoon

Favorite role \*

Other role(s)   
Dosimeter handling  
Group forming operator  
Info mobile agent  
Info/check-in operator  
Lift marshal  
Parking marshal

Alimentary restrictions ☐ No  
☐ I am vegetarian

Comments

# Future Circular Collider


## Web platform for FCC

- Internet public facing site
- Collaboration platform
- Project management

CERN Accelerating science Signed in as: bsilva

Collaboration Workspaces

BROWSE PAGE

 Collaboration  
Public Documents Tools Help Recent EuroCirCol EDIT LINKS

FCC-Management

FCC Management Tasks Institutes Institutes by Task Human Resources

Show 25 entries

Search:

Previous 1 2 3 4 5 ..

Key	Title	Associated	Tags
1	Accelerators		Hadron, Tuning
1.1	Hadron injectors		
1.1.1	Overall design parameters		
1.1.1.1	Performance and gap of existing injector chain		
1.1.1.2	Performance and gap of existing injector chain		
1.1.1.3	Baseline parameters for hadron collider and HE-LHC option		
1.1.2	Functional machine design		
1.1.2.1	Beam dynamics and collective effects		
1.1.2.2	Collimation concepts		
1.1.2.3	Injection and extraction design		
1.1.2.4	Ion beam operation design considerations		
1.1.2.5	Lattice design and single particle dynamics		
1.1.2.6	Machine protection needs and concepts		

# CMS Secretariat

## Collaboration platform

- Internal procedures
- Meeting rooms reservation
- Inventories

The screenshot displays the CMS Secretariat Team Site on a SharePoint platform. The top navigation bar includes the CERN logo and the text "CERN Accelerating science". The main navigation menu lists various sections: "Collaboration Workspaces", "BROWSE", "PAGE", "CMS Secretariat Team Site", "COLLABORATION", "COMMUNICATION", "HUMAN RESOURCES", "MEETING & EVENTS", and "ROOMS & INDICO". The left sidebar contains a "Recent" section with links to "Meetings", "Special Tasks", "Team Tasks", "My Tasks", and "EDIT LINKS". The main content area features a "Newsfeed" with several posts by Nicoletta Barzaghini, including announcements about a new ECFA Workshop page, visa requirements for Russia, and the confirmation of the XC meeting. The right sidebar shows a "Visit CMS" section with a grid of images and a list of "Our Collaborators!" including Violette Clavel and BLD 42.

CERN Accelerating science

Signed in as: bsilvade (CERN)

Collaboration Workspaces

BROWSE PAGE

CMS Secretariat Team Site

COLLABORATION COMMUNICATION HUMAN RESOURCES MEETING & EVENTS ROOMS & INDICO

CMS Secretariat Team Site

Newsfeed

Start a conversation

Nicoletta Barzaghini

A new page for the ECFA Workshop is now created in the Conferences outside CERN subsite. <https://espace2013.cern.ch/cms-secretariat-team-site/travel/outsidecern/layouts/15/start.aspx#/SitePages/ECFA%20Workshop%20-%202021-23%20October%2014%20-%20AIX-LES-BAINS.aspx>

22 September Like Reply Follow Nicoletta Barzaghini

Nicoletta Barzaghini

From now on applications for visa for Russia (including travel to JINR Dubna) will need to be handled by Group/Department/Collaboration secretariats keeping in mind however the special arrangement that CERN has with the Russian consulate in Geneva (visa free of charge for most Member State nationalities). Be advised not use the services of CWT and/or commercial visa providers, but to apply directly to the Russian consulate.

16 September Like Reply Follow Nicoletta Barzaghini

Nicoletta Barzaghini

Nathalie Cimarosti nouvelle assistante administrative au Service des Relations avec les Pays-hôtes

20 August Like Reply Follow Nicoletta Barzaghini

Nicoletta Barzaghini

The XC meeting of the 25/08 is confirmed!

22 July Like Reply Follow Nicoletta Barzaghini

Nicoletta Barzaghini

IMPORTANT! - Please note that the official travels to Paris for UNESCO will be handled entirely by PH Secretariat.

12 June Like Reply Follow Nicoletta Barzaghini

Zsuzsanna Garai

Important: always check the Database if the person asking for a visa is a Prof. or a Dr. If this is the case use the corresponding title in the invitation letters.

04 June Like Reply Follow Zsuzsanna Garai

Nicoletta Barzaghini

IMPORTANT - REGISTRATIONS - Les Externals doivent être enregistrés avec la date de naissance dans From et non par défaut à la date du jour

09 May Like Reply Follow Nicoletta Barzaghini

Visit CMS

+ new picture or drag files here

Name Picture Size File Size

CMS Sec visits CMS CMS Secretariat Team DSC\_0033

DSC\_0039 DSC\_0040 DSC\_0042

DSC\_0053 DSC\_0056 IMG\_4146

IMG\_4151

Our Collaborators!

Violette Clavel

BLD 42

# THE Port

## Collaboration platform

- Event organization
- Documentation
- Experts registration
- Teams collaboration space
- Sharing ideas and discussion

The screenshot displays the 'THE Port' collaboration platform interface. At the top, a dark blue header features the CERN logo and the text 'CERN Accelerating science'. Below this, a blue navigation bar contains the text 'Collaboration Workspaces' and a 'Signed in as: bslivade (CERN)' indicator. The main content area is titled 'Home' and features a large article about land mine detection using trained dogs. The article text reads: 'One of the most sensitive methods to locate land mines uses special trained search dogs. A few molecules of the explosive itself can be detected by a trained dogs nose, which makes this method independent of the mine housing many other measurements are based on. A tracking and steering systems can help to improve the efficiency and thoroughness of the search. Same concept can be also adapted to rescue searches.' Below the article, a 'Newsfeed' section shows a conversation thread. The first post is by Drasko Draskovic, asking for input on team names. The second post is by aissatou.boussoura@gmail.com, suggesting four potential names: 'Techy-dog', '2) detection-dog', '3) techy-demining', and '4) track & find'. The thread continues with replies from aissatou.boussoura@gmail.com and Drasko, discussing the names and the project's goals. On the right side of the interface, there are several sections: 'Mailing lists' with a link to 'THEPort-Pier83@cern.ch', 'Inspiring Links' with a link to 'new link or edit this list', and 'Notes' with a link to '1-page info on mine detection dogs'. At the bottom right, there is a 'Notes' section with a link to 'Norwegian People's Aid' and a link to '1-page info on mine detection dogs'.

# CERN Market

## Classifieds portal for CERN People

- Ratings for sells
- Logon with Google Facebook accounts
- No need to register lightweight
- Nice discussion forum can be created with a couple of clicks

The screenshot shows the 'CERN Accelerating science' website with a 'Social' header. A left sidebar lists categories like Vehicles, Housing, and Computing. The main content area is titled 'Housing' and features a listing for a 'Maison individuelle 120m2 - 5 pièces - 2012 - ANDILLY (74)' by Ludovic Germain-Bonne. The listing includes a description of the property, its price (535,000 Euros), and contact information. Two images are shown: an exterior view of the house and an interior view of the living area. A right sidebar contains 'Community tools' such as 'Manage discussions' and 'Create categories'.

CERN Accelerating science

Signed in as: bsilvaide (CERN)

Social

BROWSE PAGE

Housing

Home

Categories

- Vehicles
- Housing
- Computing/TV/Video
- Furniture/equipment
- Baby items/babycare
- Services/car sharing
- Others

Members

Get updates

FAQ

Send feedback

Maison individuelle 120m2 - 5 pièces - 2012 - ANDILLY (74)

0 replies 1 rating

Ludovic Germain-Bonne

A vendre maison année 2012 sur la commune d'Andilly (74) St Symphorien, Constructeur Oxygène. Axe Annecy – Genève, entre st julien et Cruseilles au calme avec un ensoleillement idéal, à 15 minutes de Genève par autoroute.

120m2 habitable avec une cuisine équipée ouverte sur grand salon, 4 chambres dont une chambre de 30m2, 2 salles de bain, 2 WC. Sans Vis-à-vis, Alarme, visiophone.

Garage double carrelé avec porte motorisée, grand sous-sols à aménager (50m2) + cave + buanderie.

Terrasse de 55m2 plein sud avec pergola donnant sur un terrain de 820m2 arboré et clos, chalet extérieur, réservoir d'eau de pluie béton, 10 000Litres enterré.

Mode de chauffage pompe à chaleur + poêle à bois.

Prix: 535.000 Euros

Pour tous renseignements : 06 24 78 57 98

Community tools

- Manage discussions
- Create categories
- Create badges
- Assign badges to members
- Reputation settings
- Review reported posts
- Community settings

# BE IPAC papers approval

## Papers approval system for conferences

- Approval based on pre-defined workflow
- 3 levels of approval
- Notifications by email
- Can approve, request change or reject

CERN > Beams Department

BE Beams Department Beams Department

BE Home ABP - Accelerators and Beam Physics ASR - Administration, Safety and Resources BI - Beam Instrumentation CO - Controls OP - Operation RF - Radio-Frequency

Beams Department > IPAC Paper approval Tasks > IPAC paper approval - Flat bunches in the LHC

### IPAC Paper approval Tasks: IPAC paper approval - Flat bunches in the LHC

[Delete Item](#)

☒ This workflow task applies to Flat bunches in the LHC.

Your approval is requested for the paper above. Please click on the above link to see all details

<a href="#">Approve</a>	- The paper will be sent to the next approval level.
<a href="#">Request Change</a>	- Note: Request change should only be selected for major changes. The author will be notified of your request and the paper will be sent back to you for approval once the changes are made. Minor changes can be made directly in the document using track changes (in word) or comments (with Adobe). Once your changes are made you can click on save and approve.
<a href="#">Reassign Task</a>	- Assign task to person other than GL or DH. Once approved by the third party the paper will be sent to the next level of approval.
<a href="#">Reject</a>	- Paper will no longer be considered for the conference
<a href="#">Close window</a>	

Requested by  
[Elena Chapochnikova](#)

Comments history  
IPAC paper approval started by Elena Chapochnikova on 26/05/2014 09:22  
Comment:  
  
Approved by Elsa Gavril on 26/05/2014 09:40  
Comment:  
  
Approved by Erk Jensen on 29/05/2014 11:06  
Comment:

# Some examples

## There are many more:

- Internal audits management tool
- CERN Pension fund – risks management
- Finances – risks management
- EN – Simplified Procedure For Ordering Electrical Work
- EN-MEF – OSVC control
- HR – QNow
- TE/VSC – jobs management tool

...



# What's new

Better to try it 😊

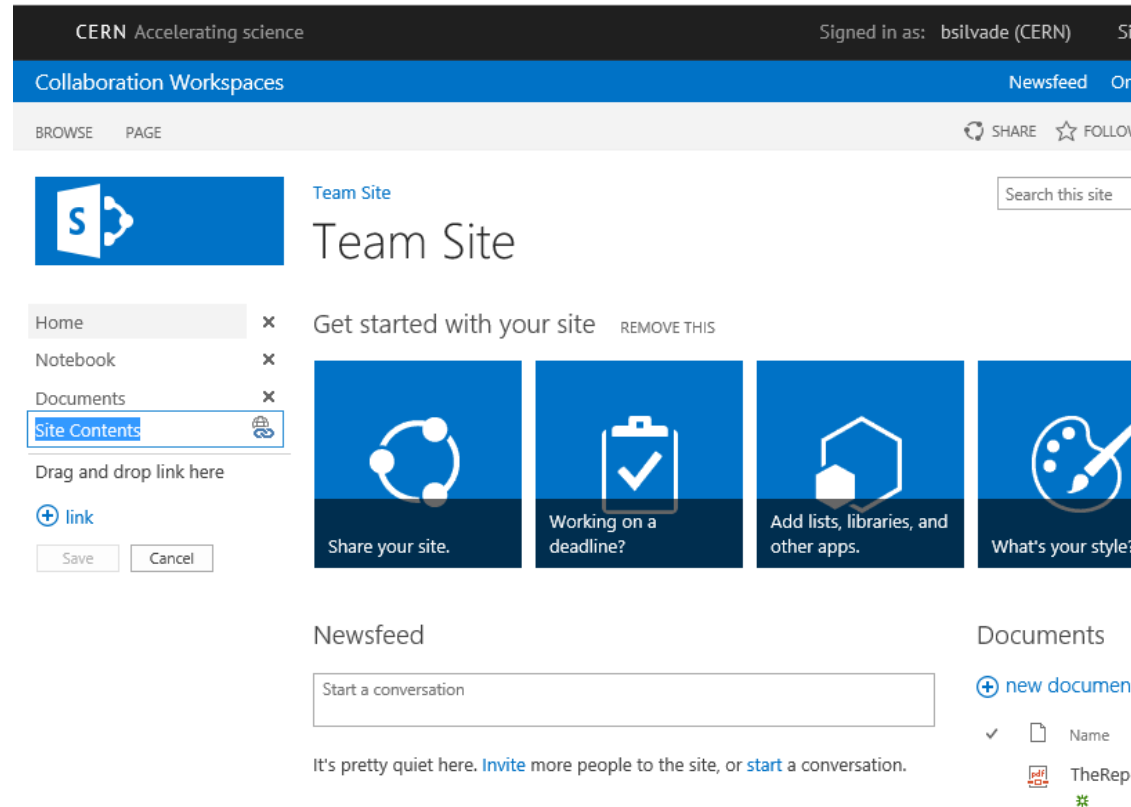
If you have a laptop go to  
<https://cern.ch/sp-sandbox>  
and play around!



# What's new

## New look and feel

- Simpler and cleaner interface
- CERN Toolbar
- Some buttons moved
  - Well known Site Actions button moved to the right ⚙️
- Less clicks to get things done



# What's new

## Better browser compatibility

- Drag and drop
- Quick edit mode
- Replaces datasheet view that used to work only with Internet Explorer

The screenshot displays the CERN Collaboration Workspaces interface. At the top, the header shows 'CERN Accelerating science' and the user is signed in as 'bsilvade (CERN)'. The main navigation bar includes 'Collaboration Workspaces', 'Newsfeed', 'OneDrive', and 'Sites'. Below this, a secondary bar has 'BROWSE', 'ITEMS', and 'LIST' tabs, with 'LIST' being the active tab. The interface is divided into several sections: a left sidebar with navigation links (Home, Notebook, Documents, Recent, Contacts, Site Contents), a top toolbar with various actions (View, Quick Edit, Create View, Modify View, Create Column, Navigate Up, Tags & Notes, E-mail a Link, Alert Me, RSS Feed, Connect to Outlook, Export to Excel, Connect & Export, Customize Form, List Settings, Settings), and a main content area. The main content area shows a table titled 'All contacts' with columns for Last Name, First Name, Company, Business Phone, Home Phone, and Email Address. A search bar is present above the table. The table has one row with empty cells, indicating a new entry or a filtered view. At the bottom of the main content area, there is a link to 'EDIT LINKS'.

CERN Accelerating science

Signed in as: bsilvade (CERN) Sign out Direct

Collaboration Workspaces Newsfeed OneDrive Sites

BROWSE ITEMS LIST

View Quick Edit Create View Modify View Current View: All contacts Current Page

View Format Manage Views Tags and Notes Share & Track Connect & Export Customize List Settings

Home Notebook Documents Recent Contacts Site Contents

Stop editing this list

All contacts ... Find an item

✓		Last Name	First Name	Company	Business Phone	Home Phone	Email Address	+

EDIT LINKS

# What's new

## Themes

- Many themes available
  - “Change the look” under the gear icon
- Simpler to customize the look and feel
  - Set background image
  - Change colors and fonts
- 2 different layouts

The screenshot shows the 'Site Settings' interface for 'CERN Accelerating science'. The main heading is 'Site Settings · Change the look'. Below this, there are two main sections: 'Start over' and 'Try it out'.

The 'Start over' section includes a 'Drop an image here' box, a 'Colors' section with a color picker, a 'Site layout' dropdown set to 'Oslo', and a 'Fonts' section with 'Segoe UI Light' and 'Segoe UI' options.

The 'Try it out' section shows a preview of the theme. It includes a header with 'SITE TITLE' and a search bar. Below the header, there is a 'Page Title' section with a welcome message and a paragraph about hyperlinks. This is followed by a section titled 'Example of a simple list' which contains a table with three columns: 'Name', 'Modified', and 'Status'.

Name	Modified	Status
First Document Title	10/21/2011	Pending Review
Second Document Title	10/22/2011	Pending Review
Third Document Title	10/22/2010	Approved

# What's new

## Newsfeed

- New communication channel for your team
- Doesn't interrupt as email
- Promote discussion and sharing
- Informal and lightweight
- Unique place to find all conversations

The screenshot displays the CERN Web Services Newsfeed interface. At the top, a navigation bar includes 'CERN Accelerating science', 'Signed in as: bsilvade (CERN)', and 'Collaboration Workspaces'. Below this, a menu lists various services: IT/OIS Internals, Webservices, Mailservices, Desktops, Windows infrastructure, Printing Service, Service Management, Monitoring, PC Hardware, and Certification. The main content area is titled 'Web Services' and features a 'Newsfeed' section. This section includes a search bar, a list of posts with user avatars, names, and timestamps, and a sidebar with links to CERN Search, Drupal, SharePoint, and other resources. A commemorative plaque on the right side of the interface reads 'WHERE THE WEB WAS BORN' and provides historical context about the World Wide Web's development at CERN.

CERN Accelerating science Signed in as: bsilvade (CERN)

Collaboration Workspaces

BROWSE PAGE TIMELINE

Search this site

IT/OIS Internals Webservices Mailservices Desktops Windows infrastructure Printing Service Service Management Monitoring PC Hardware Certification

Web Services

CERN Search  
Drupal (url missing)  
SharePoint  
SharePoint 2010  
SharePoint 2013  
WebServices  
Major activities  
Mail team  
EDIT LINKS

Newsfeed

Start a conversation

Manuel Malo de Molina  
Windows Authentication is now enabled in our web service (webadmindservices-iis7). If you need to run as admin, you need to open the browser with /runas, or use it from another machine logged as adm  
@ You like this.  
Yesterday at 11:16 Unlike Reply ...  
Show all 7 replies

Sergio Fernandez Casado I almost had them remembered :) but this is a nice reference for future uses.  
6 hours ago Like Follow Sergio Fernandez Casado ...

Mario Rey Regulez The thing about not using Normal was to avoid the EnforceWebServicesPolicy flag for a website called 'ami'.  
6 hours ago Like ...  
Add a reply

Mario Rey Regulez  
I've made a proposal for a new organization of our Web Services help pages. Any more ideas? <https://espace2013.cern.ch/test-mr-sp2013/layouts/15/start.aspx#page/Home.aspx> (you should have access with your admin accounts).  
Monday at 09:24 Like Reply ...

Bruno Silva De Sousa Sounds very good to me! What about adding a Newsfeed/Social Community to the site to interact with our users - for things not related with support?  
Monday at 12:01 Like ...

Mario Rey Regulez I've just moved this document to our webservices document library, I don't know why I didn't do it before  
<https://espace2013.cern.ch/it-dep-is-internals/WebServices/WebServices%20site%20development/webservices-help%20proposal.aspx>  
6 hours ago 1 Unlike ...  
Add a reply

Bruno Silva De Sousa  
Looks like webredir servers are using a Verisign certificate... is there any special reason or we can use \*.cern.ch?  
22 September Like Reply ...

WHERE THE WEB WAS BORN

In the offices of this corridor, all the fundamental principles of the World Wide Web were developed.

Started in 1980 from a proposal made by Tim Berners-Lee, the WWW was first divided between an office in the Networking Division (CN) and one in the Computing for Physics Division (CPD).

In 1991 the team came together in the WWW Consortium (W3C), a worldwide organization to its full potential. The W3C was the European Commission, the Massachusetts Institute of Technology (MIT), the Institut National pour la Recherche Scientifique (INRS), and the Advanced Research Laboratories (AL).

In 1995 Tim Berners-Lee and Robert Calliau received the World Wide Web Award. In 2004, Tim Berners-Lee received the Millennium Technology Prize by the Finnish Technical Academy.

The CERN Library  
June 2004

# What's new

## Integration with Social

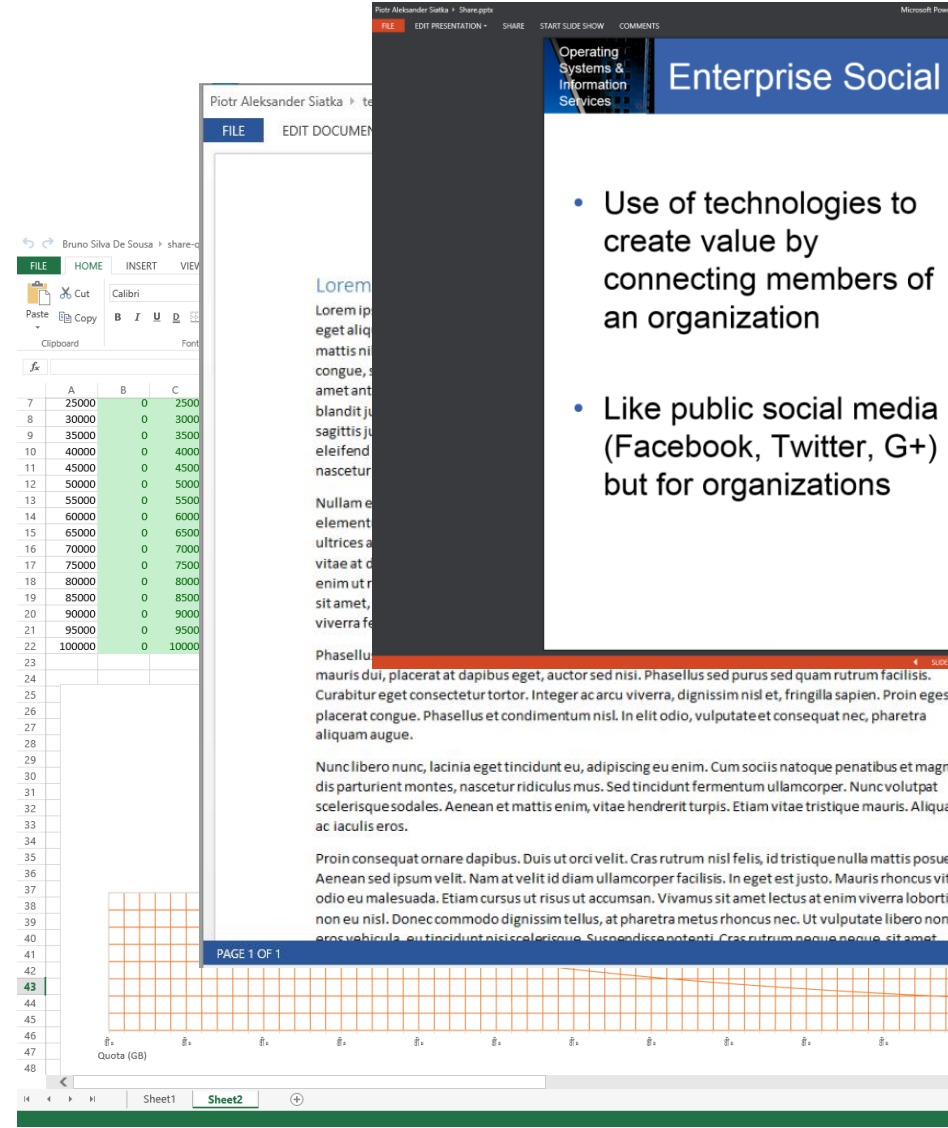
- Follow and contribute on all your Collaboration Workspaces in a single place <https://social.cern.ch>
- More details about Social <http://cern.ch/go/LZ9z>

The screenshot displays the CERN Social interface for a workspace named 'Pier19'. At the top, a navigation bar includes 'Newsfeed', 'OneDrive', and 'Sites'. Below this, the workspace header for 'Pier19' features a 'Home' link and tabs for 'Notebook', 'Tasks', and 'Resources'. A search bar is located on the right. The main content area is divided into several sections: a 'Mailing lists' section with a link to 'THEPort-Pier19@cern.ch', an 'Inspiring Links' section with a 'new link or edit this list' button and a list of links including 'Sensefly', 'Terabee', and 'Samira', and a 'Summary' section at the bottom. The 'Summary' section shows a timeline from 24 September to 29 September. A large, faint watermark of the CERN logo is visible in the background.

# What's new

## Office Web Apps

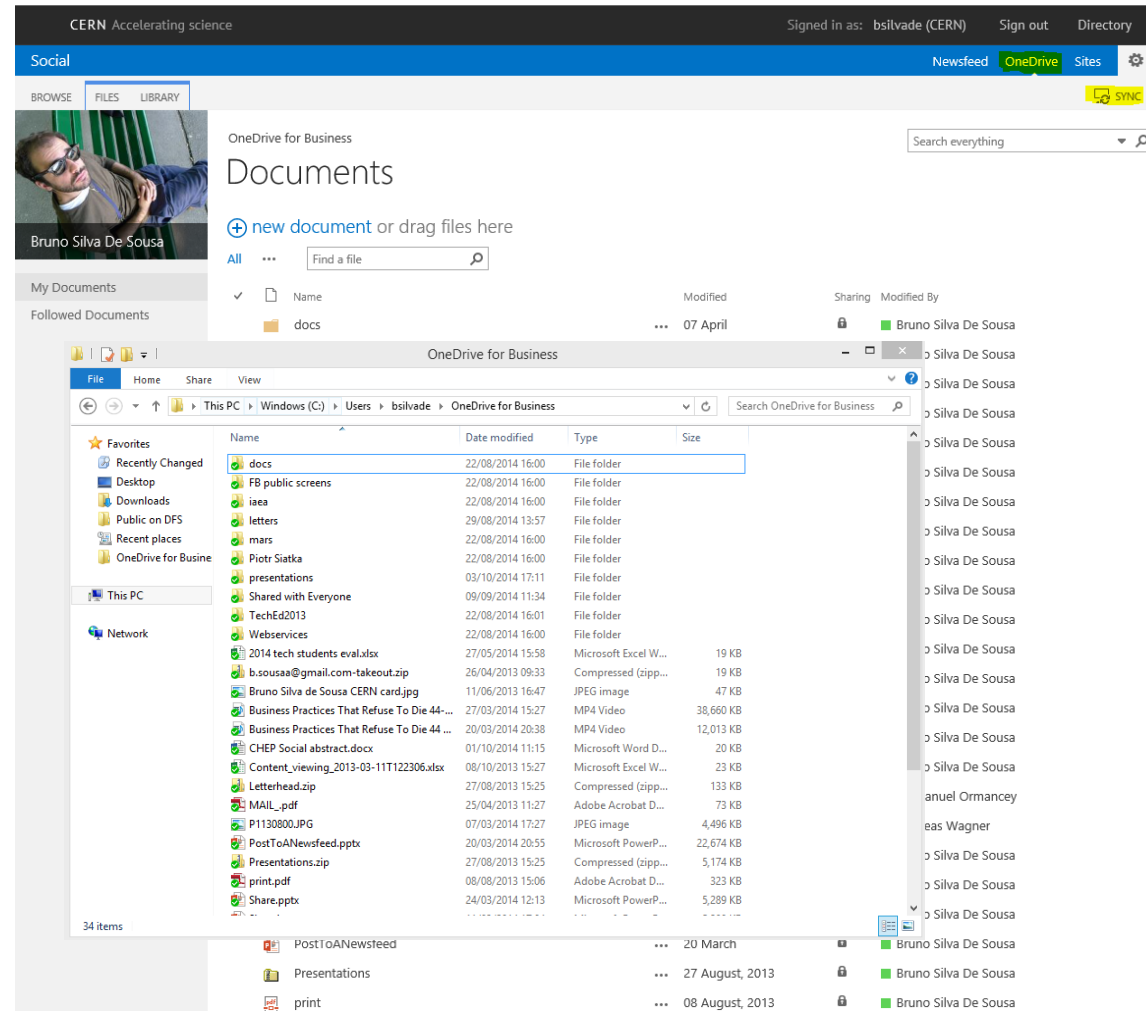
- Browser-based for Word, PowerPoint, Excel, OneNote and PDF files
- Multiple users editing
  - At the cell level on Excel
  - Paragraph lock on Word
  - Works also with Office 2013 as long as document are stored on SharePoint
- Tablets and mobiles too



# What's new

## OneDrive for Business

- Access documents when offline
- Personal space on OneDrive option
- 7GB quota for the moment
- You can also synchronize any document library from Collaboration Workspaces





# What's new

## InfoPath 2013

- Nothing new
  - But easy and useful and maybe not very well know
- Develop simple web forms with no code
  - Some logic can be added like validation, auto-resolve, etc...

### Inscriptions - New Item



Please tick all activities you are happy to perform and all timeslots you can make.

#### Activity

☒ I have no preference for a specific activity.

- ☐ Underground Guide
- ☐ Surface Guide
- ☐ Lecturer
- ☐ Activity Animator
- ☐ Bus Guide

☒ I have no preference for a specific location.

- ☐ LHC Point 1 - ATLAS
- ☐ LHC Point 2 - ALICE
- ☐ LHC Point 4 - RF
- ☐ LHC Point 5 - CMS and TOTEM
- ☐ LHC Point 6 - Accelerator Systems

#### Time Slot(s)

- ☐ Saturday, September 28th, morning
- ☐ Saturday, September 28th, afternoon
- ☐ Sunday, September 29th, morning
- ☐ Sunday, September 29th, afternoon

If you are already scheduled for a specific work in your experiment/installation, please let us know within the comment box below, otherwise you will be assigned to a task according to your choice above, if possible.

#### Activity Comments

Français

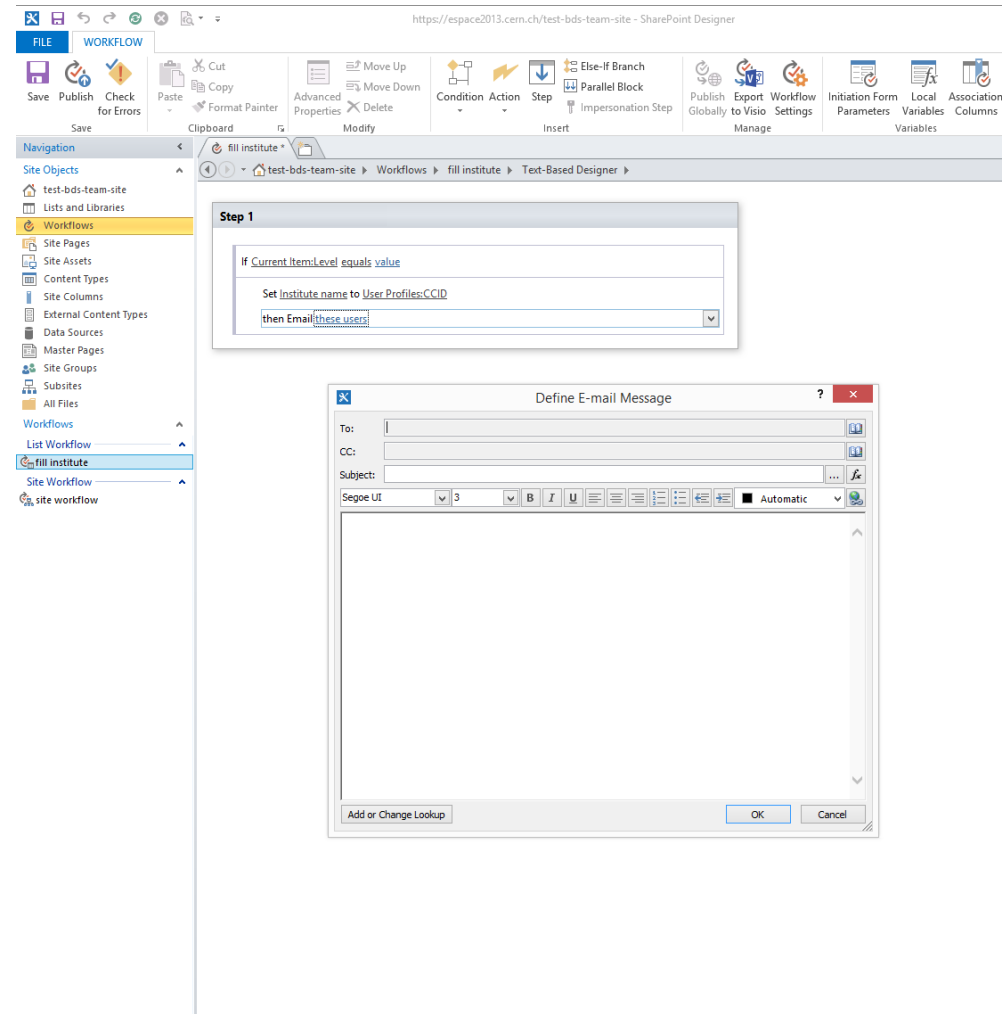
Next

2/4

# What's new

## Workflows

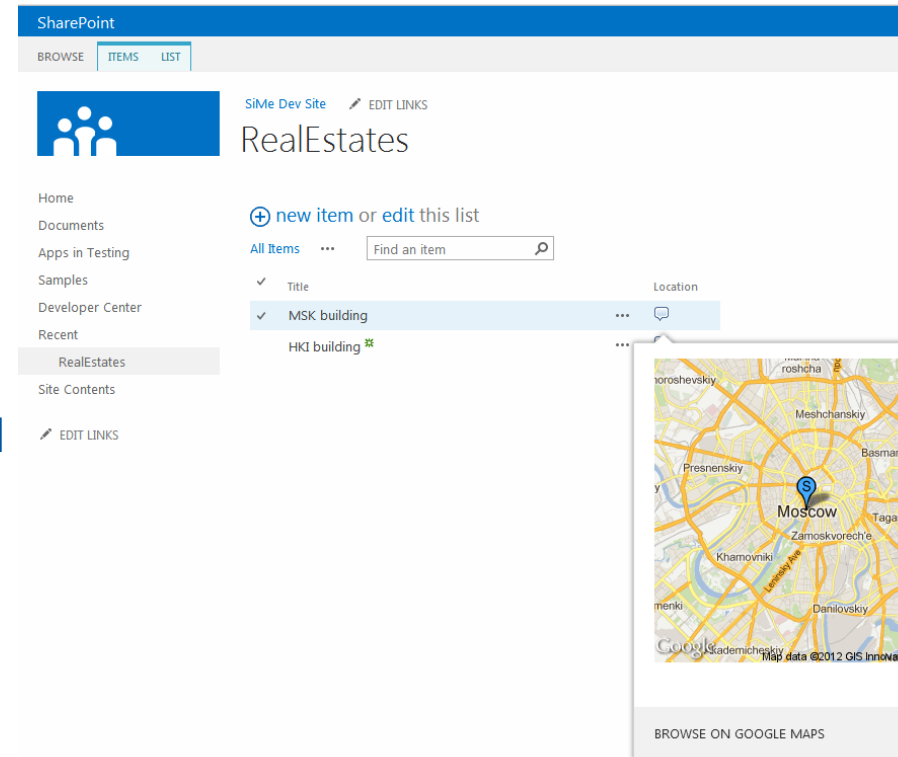
- Trigger actions when content is added/modified on a list
  - E.g. send email, start approval, send data
- Create workflows with SharePoint Designer 2013
- New workflows engine available soon
  - Call Web Services, loops, pauses, wait for events
    - You can make scheduled tasks running on your site



# What's new

## For developers

- REST API using OData protocol
- CORS support with SSO authentication
- How or write data from any CERN site into SharePoint e.g. Social API on Drupal site
- List views customizations supported with JSOM



Q&A and discussions at <https://cern.ch/sharepoint2013/>

# Discontinued features

## Meetings Workspaces site type

- Existing ones still work
- Cannot create new ones
- Use Team Site instead
- If your site contains those we will contact you

## Design view on SharePoint Designer

- No more WYSIWYG XLST transformations
- Which isn't bad
- Use CSOM instead
- Better and easier code to maintain

# Migration

## All Workspaces will be migrated to 2013

- We need you to upgrade your sites running with 2007 layout to 2010
- If that's the case we will get in touch with you

**If your site is ready you can request migration now – via Service Desk**



<https://www.flickr.com/photos/53806810@N06/7958547110>

# More information

**Service support via Service Desk**

**Community site with Q&A, tips, how-to's**

- <https://cern.ch/sharepoint2013>

**Training available at CERN**

- SharePoint Collaboration Workspace – Level 1
- SharePoint Collaboration Workspace – Level 2
- <https://cta.cern.ch>

**Plenty of online resources available on the Web**

- Training courses for SharePoint 2013 <http://bit.ly/1yxFNW7>
- How-to videos on YouTube

# Recommendations

## **SharePoint can help you on**

- Team collaboration
- Business processes automation
- Save time and money

## **Can quickly adapt to new business scenarios**

- Play by the rules with no-code solutions

## **Sometimes its better to adapt the process to SharePoint then the opposite**

- or it comes at a cost

## **Take this migration as an opportunity to review your site and add new features**

# Questions?

**...and thanks for your attention!**