How best to migrate to LibreOffice

*With some tips from the field...*

Michael Meeks
General Manager at Collabora Productivity
michael.meeks@collabora.com
mmeeks, #libreoffice-dev, irc.freenode.net

“Stand at the crossroads and look; ask for the ancient paths, ask where the good way is, and walk in it, and you will find rest for your souls...” - Jeremiah 6:16
Overview

Introductions ...

What is LibreOffice

Why Migrate

How To migrate

Migration Tools & tips

Online
  Solving external sharing

Migration Case Study
  SEHSCT
  Savings & status
  Sample interop. Issues
  Sample feature wins

Why Training ?

Conclusions
What is LibreOffice:
Collabora Online: the enterprise-ready LibreOffice-based Online Office Suite that allows you to stay in control of your own documents, full control of your office files.

LibreOffice is the world’s most popular Open Source Office suite with over 120 million users. Collabora, a leading contributor to the project, and developer of the enterprise-ready, Long Term Support edition of LibreOffice, Collabora Office, has now brought LibreOffice to the Cloud with Collabora Online.

Can we add the version number here too?

Anne
27/04/2017 17:07

Great idea! Let’s check the rest of the document too, and let’s add a link:
www.collaboraoffice.com

Emily
27/04/2017 17:10
# Calc – Spreadsheets

## Top Keywords

<table>
<thead>
<tr>
<th>Keyword</th>
<th>Backlinks</th>
<th>Indexed URLs</th>
<th>URLs</th>
</tr>
</thead>
<tbody>
<tr>
<td>GuitarStraps</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bass Guitar Pick</td>
<td>79</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gibson Acoustic</td>
<td>97</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marshall Amp</td>
<td>285</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Les Paul Guitar</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fender Black amp</td>
<td>32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powered by Boogie amp</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SERP Rank

- Guitar Straps
- Bass Guitar Pick
- Gibson Acoustic
- Marshall Amp
- Les Paul Guitar
- Fender Black amp
- Powered by Boogie amp

### Non-Paid Search Traffic

- Non-Paid Search Traffic
- Conversions: 19,155
- Signups: 7,984
- Revenue: $670,424.24

<table>
<thead>
<tr>
<th>Keyword</th>
<th>Conversions</th>
<th>Signups</th>
<th>Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guitar Straps</td>
<td>38</td>
<td>10</td>
<td>$1,330.00</td>
</tr>
<tr>
<td>Bass Guitar Pick</td>
<td>236</td>
<td>197</td>
<td>$8,260.00</td>
</tr>
<tr>
<td>Gibson Acoustic</td>
<td>143</td>
<td>90</td>
<td>$5,005.00</td>
</tr>
<tr>
<td>Marshall Amp</td>
<td>550</td>
<td>391</td>
<td>$19,250.00</td>
</tr>
<tr>
<td>Les Paul Guitar</td>
<td>90</td>
<td>37</td>
<td>$3,150.00</td>
</tr>
<tr>
<td>Gibson Acoustic</td>
<td>762</td>
<td>497</td>
<td>$26,670.00</td>
</tr>
</tbody>
</table>

---

Note: The image shows a spreadsheet with data for GuitarShopExample.com from 1/1/2016 to 31/12/2016, including a graph of SERP rank and non-paid search traffic.
Impress – presentations ... + Drawings ...
Base – a built-in database component.
Comprehensive file importer

Collabora Online supports a huge number of binary formats

- 175+ import filters: ...
  - Office 95 to Office 2017
  - Visio, Quark Express, Publisher
  - Keynote, Numbers, Pages, Works
- Clear focus on interop. With
  - DOC, XLS, PPT
  - DOCX, XLSX, PPTX
  - RTF
  - OpenDocument – ODT, ODS, ODP
The LibreOffice community

- ~200 million LibreOffice user-base
- ~1000 people helping to develop LibreOffice
  - 100 localization teams: 62 PC, 33 Online
- ~300 individual committers in the last year
- Product developed in public.

Top contributors

16,749
Code Commits between July 2017 and July 2018

- Red Hat 5290
- Collabora 5302
- Volunteers 4619
- CIB 994
- TDF 215

Other 29
Apache Volunteer 10
Pardus 50
SIL 102
Munich 138

Berlin: Federal Ministry of Economics and Technology
City of Rome: Capitol Hill
Why Migrate?
It is possible to migrate to a LibreOffice based product, saving money, future proofing documents, and using cost savings to improve staff training & productivity & business-process
Some advice from TDF

Why not just use LibreOffice for free?

"The Document Foundation encourages large organizations deploying LibreOffice to do so in conjunction with a support partner, who can carefully assess specific requirements, help manage migration and provide bespoke fixes for identified issues. Purchasing LibreOffice support from a TDF partner also provides enterprises with an indirect means to contribute financially to the project, thereby funding its development, improving its stability, and accelerating its growth."

cf. release-notes
Recommended – use Certified Professionals

This is an OpenSource code-base: DIY is possible!

- As with Home Electrics, and/or self Gas Boiler maintenance
  - There are some risks... you may even be required to have professional supervision / sign-off ... professionals unlikely to help fix your mess for free.

Get expert help:

- Certified developers with Long Term Supported versions:
  https://www.documentfoundation.org/gethelp/developers/
- Certified Migrators
  https://www.documentfoundation.org/gethelp/migrators/
- Certified Trainers
  https://www.documentfoundation.org/gethelp/trainers/
How to ...
Segmenting – without format islands ...

**OOXML default**

Segment the users 'normal users'

This can cause a disconnection between areas within an organization.

**OpenDocument Format default**

**Everyone** installs LibreOffice / Collabora Office to build in compatibility and interoperability.

Step down the use of proprietary licenses as any enterprise agreement allows.

Crucially, from day 1, all proprietary users set ODF as their default save setting and any proprietary format anomalies are handled as part of the migration plan.
Preparation & Piloting

Things that don’t work:

- “I’ve installed LibreOffice as well as MS Office please try it and tell me if you have issues, we switch next month”

Instead

- Ask teams for templates & frequent documents
  → test these for interoperability
    - Either mend documents yourself; or get interop. Fixes

Pilot inside teams

- The Technical Wizard is prolly not the best pilot target
- Add the least technically savvy person in each group too.
Cost / Benefit - Improving your documents

Templates with issues

- Large extant document set with potential problems.
- Legacy documents used regularly
- Significant win from interop. Fix
  → File ticket
  → Deploy fix

Individual, not widely used documents

- Fix the templates going forward?
- Fix the existing used documents in-house.
“... the migration to LibreOffice represents an excellent opportunity to rethink the organization’s processes. For example, before migrating any existing Visual Basic macros, it is better to determine if the macros are still needed in order to discard those that are no longer used, and re-engineer the remaining ones. The same applies to document templates, and to proprietary plugins which connect the office suite to proprietary enterprise applications.”

LibreOffice Migration Protocol
Migration tools / assistants
Collabora OLE Automation Tool

Un-blocking migrations that are stuck with old VB6 / VB macros:
- https://www.collaboraoffice.com/coleat/

Some apps have:
- VB5 – Feb 1997
- VB6 – mid 1998
- Java - ...

Video ...
VBA macro interoperability ...

Substantial, incremental work here

- Many simple macros work out of the box ...
- Forms too.

Cost to fix

- VBA → Starbasic
  - same cost as
- Improve VBA interop.
  → huge win.
AutoText import

Originally only .DOC/.DOT format was supported

MS Word 2007 and newer saves AutoText in OOXML (.DOTM) format → now supported for import.
Open & Metric compatible fonts

Font metrics are embedded into documents

- We work hard to bundle and map metric compatible fonts

<table>
<thead>
<tr>
<th>Microsoft Office font</th>
<th>Compatible Open Font</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arial</td>
<td>Liberation Sans</td>
</tr>
<tr>
<td>Times New Roman</td>
<td>Liberation Serif</td>
</tr>
<tr>
<td>CourierNew</td>
<td>Liberation Mono</td>
</tr>
<tr>
<td>Arial Narrow</td>
<td>Liberation Sans Narrow</td>
</tr>
<tr>
<td>Cambria</td>
<td>Caleda</td>
</tr>
<tr>
<td>Calibri</td>
<td>Carlito</td>
</tr>
<tr>
<td>Symbol / Wingdings / Webdings</td>
<td>OpenSymbol + mappings</td>
</tr>
</tbody>
</table>
Windows Deployment bits ...

SCCM ?
- Yes it works → MSI (MSP available for Collabora Office...)
- Also - SMS Server, Novell ZENWorks, IBM Tivoli, Citrix, etc.

Group Policy / Management
- Yes – ADMX templates available here:
  https://www.collaboraoffice.com/windows-group-policy-admx/
- Translated – but more options are most welcome
- Can change default file formats → but don’t do that ...
Central Configuration Management with Windows Group Policy Editor on Windows Server

Set and locked on LibreOffice UI
Another way: Online ...
What is Online?

- Bringing LibreOffice to the browser.
- Documents + Spreadsheets + Slides
  - Viewing and Collaborative editing
- Interoperability with Microsoft formats
  - DOCX, DOC, RTF, XLSX, XLS, PPTX, PPT
- Import filters / Viewing for
  - PDF, Visio, Publisher, Keynote, Numbers, Pages + many more
- Powerful WYSIWYG rendering
- **On-premise** hosting.
- Architecture – bet on CPU threads & network ...
Why online?

- On-premise – control of your data
- On-premise – control of your CPU & network

Bonus features

- A reduced feature-set sphere – easy to win.
- Document Formats – somewhat less relevant:
- Server / Certification / Revenue model …

C’bra is investing heavily:
Collabora Online: the enterprise-ready LibreOffice-based Online Office Suite that allows you to stay in control of your own documents, full control of your office files.

LibreOffice is the world’s most popular Open Source Office suite with over 200 million users. Collabora, a leading contributor to the project, and developer of the enterprise-ready, Long Term Supported edition of LibreOffice, Collabora Office, has now brought LibreOffice to the Cloud with Collabora Online.

With Collabora Online you now have access to a powerful, enterprise-ready and 100% Open Source Online Office suite functionality, with excellent support for all popular office file formats and
What it looks like: Calc

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>GuitarShopExample.com</strong></td>
<td><strong>1/1/2016 - 12/31/2016</strong></td>
<td><strong>SERP Rank</strong></td>
<td><strong>Non-Paid Search Traffic</strong></td>
<td><strong>Page</strong></td>
<td><strong>Backlinks</strong></td>
<td><strong>Indexed URLs</strong></td>
<td><strong>URLS</strong></td>
<td><strong>Search</strong></td>
<td><strong>Conversions</strong></td>
<td><strong>Signups</strong></td>
<td><strong>Search</strong></td>
<td><strong>Conversions</strong></td>
<td><strong>Signups</strong></td>
<td><strong>Search</strong></td>
</tr>
<tr>
<td>2</td>
<td>Top Keywords</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Guitar Straps</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Bass Guitar Pick</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Gibson Acoustic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Marshall Amp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Les Paul Guitar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Gibson Acoustic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Peavey Amp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Fender Black amp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Hollowbody guitar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Mesa Boogie amp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
What it looks like: Impress

Collabora Online
an overview & benchmark

By Michael Meeks
General Manager
michael.meeks@collabora.com
Mobile devices ... 

- Ongoing work
- Collabora Online responsive UI
- Can we re-target this at Android and iOS?
Quick Migration case study: SEHSCT

a great team there, re-using their slides
Current Position with SEHSCT

- Feasibility phase completed – end of March 2018
- Roll-out continuing
  - 1700 staff requiring office productivity software now migrated to Collabora Office
- Cost avoidance at present – over £220,000
- Target – at least 60% migrated by end of March 2019 (subject to the successful completion of other internal projects)
- Resulting in potential cost avoidance of over £700,000 (based on 60%)
Hardware Considerations

• VDI/Zero clients
• Chromebooks
• iPads
• PCs
• Laptops
### Service Desk Calls 01/06/18-31/08/18

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>42 infra calls recorded in Total</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>Training Issues</td>
<td>24</td>
<td>57%</td>
</tr>
<tr>
<td>IT issues (not related to Collabora Office)</td>
<td>9</td>
<td>21%</td>
</tr>
<tr>
<td>Collabora Office-related issues</td>
<td>9</td>
<td>21%</td>
</tr>
</tbody>
</table>

78% of calls logged as “Collabora Office” not an issue with the software
Communication Strategy

- Information Presentations
- Information Posters
- Collabora Office Sharepoint site
- Information video
- Information gathering meetings
- iconnect page
- Emails
Training Requirements

• Functionality similar to Microsoft Office applications
• Originally envisaged users would not encounter any great difficulties in adapting
• However skills level of staff overall very poor and so often unable to make necessary editing change to documents as required or how the documents were originally created doesn’t allow successful conversion
• Training manuals and quick guides created
• Extensive range of training courses offered
• Only 18% of current Collabora users availed of advertised training yet in survey 47% stated they felt “Not so confident” or “Not at all confident” about using new applications
Do you feel confident in making any formatting adjustments required to existing document, eg change margins, insert page breaks, adjust columns?

Half of people don’t feel confident with basic formatting ...
User Feedback – Survey Results

Do you feel you would need further training in GovOffice?

But also don’t feel they need further training: happy as they are?
Conclusions

- Vast majority of files are compatible between Collabora Office and Microsoft (dependent on quality of original document creation)
- Extremely good partnership between SEHSCT and Collabora
- Willing to modify and enhance software
- Support required to manage change
- User-base need to be provided with sufficient skills
- Ideally team to go ahead of Collabora Office project to check quality of document and standardise processes
- Initial dip in productivity but majority should adapt without issue, if adequately supported and trained
Sample fixes for SEHSCT
Interoperability corner cases you can find if you try.
Collabora GovOffice had a flaw that prevented the rightmost border of table in example file (“Form 0.doc”) to be moved using mouse drag.

We resolved this to allow resizing this table normally.
Excel Validation Sheet drop-down cells

The test document supplied to us used a rare syntax for a feature that we already had: data validity.

Amazing generated files from some internal system: fun!

Using a deprecated pre-ISO / OOXML standardization XML syntax for this.

Now it imports with all required validity criteria information and properly filled drop-down list (bottom).
Cross-page table re-flow

The test document contained a table with a cell whose minimum height was greater than page height.

Collabora GovOffice’s response - was to do the ‘obvious’ thing - which is ?

Now behaves in an interoperable way.

Before: nothing

After: ...
Tolerate broken OOXML – like MS Word.

3\textsuperscript{rd} party application generated a DOCX file, which was invalid OOXML (but Word somehow handled it)

- Practical definition of OOXML – is MS Word’s behaviour.

- Use Carlito (Calibri) as default font when default font is not specified

- Accept “pt” as measurement unit in \texttt{<w:sz>} element of \texttt{<w:rPr>} which should be interpreted as integer only (size in half-points)

- Tolerate multiple final \texttt{sectPr} instances (should be only one)

- Accept \texttt{<w:br>} element as a child of \texttt{<w:body>}

- Tolerate CRLF in OOXML text (convert to space on import)
Some .DOC and .DOCX with floating tables were imported incorrectly.
Product Management interaction: some fruit …

“where is the roadmap”…
Time – sheet / spreadsheet issue.

Extended sheet protections UI

- What a micro-feature!
- We round-tripped this stuff silently

But ...

- This protected (time) sheet filled by hundreds of users
- Consumed by a financial system with no sense of humour ...
  - You must delete blank rows!
- Good for staff to get paid ...

Added UI options – and UI enforcement.

- ODF extension too ...
Customize Windows installer

- Disable Base, Draw, Math without losing functionality in Writer, Calc, Impress

- Collabora provided MST (Microsoft Installer Transform) files that disable Base, Draw, Math user interface.
Exporting Sharepoint Lists to Calc

● Collabora GovOffice is handler of .iqy files

● Collabora GovOffice opens the actual link inside the .iqy file

● The MS ADO recordset is opened by an XSLT filter that generates spreadsheet with one sheet with data and autofilters.

What happened to Sharepoint Integration in the last year ... - Mike Kaganski – later
Feature: Insert Watermark

- Custom shape on page background (vector graphics)
- Fully interoperable with MS Word watermarks
Writer table as Mail Merge Data Source

- Similar feature existed in MS Word

- Collabora developed a data source driver for Writer tables based on the driver for Calc tables
Many Thanks!

To South Eastern Health Trust & their team

- Everything we do is funded by our customers
- They are the real super-stars.
- It takes guts and vision to do the right thing first ...
- A pleasure to work with their team.

Thanks to to Crown Commercial Service & Cabinet Office ...
In your migration you will have troubles, don’t worry – certified professionals can defeat them with you
Why training?

with your savings,
invest in your staff
A typical ‘bug’ in the software:

He heard quiet steps behind him. That didn't bode well. Who could be following him this late at night and in this deadbeat part of town? And at this particular moment, just after he pulled off the big time and was making off with the greenbacks. Was there another crook who'd had the same idea, and was now watching him and waiting for a chance to grab the fruit of his labor? Or did the steps behind him mean

---

He heard quiet steps behind him. That didn't bode well. Who could be following him this late at night and in this deadbeat part of town? And at this particular moment, just after he pulled off the big time and was making off with the greenbacks. Was there another crook who'd had the same idea, and was now watching him and waiting for a chance to grab the fruit of his labor? Or did the steps behind him mean
But I know about Tabs! ...

He heard quiet steps behind him. That didn't bode well. Who could be following him this late at night and in this deadbeat part of town? And at this particular moment, just after he pulled off the big time and was making off with the greenbacks. Was there another crook who'd had the same idea, and was now watching him and

Hanging indents the hard way!

This example courtesy of an experienced lawyer
And many more! ...

“The key-bindings are very familiar in LibreOffice – eg. Ctrl-B to bold, Ctrl-O to open” ...

“there are keyboard accelerators!?”

“I have to fill out this long spreadsheet, but have to keep going back to the top to check I’m using the right column ...”

“I spend lots of time re-typing documents that arrive in ALLCAPS in lower case – is there an easier way?”

And so it goes on ...
Conclusions & Questions

Migrating to LibreOffice is just change management

- You should engage certified developers & migrators & trainers
- Collabora has lots of great Swiss partners – eg. Adfinis
- Interact with real engineers, and see real progress on your timeline.

Interoperability to taste: ODF or OOXML

Training

- Improve your staff & discover crazy business process disasters

Thanks to SEHSCT team for sharing their data ...

Contribute with us to an open future.
“Migrating to Collabora Office is no different to any other organization change I’ve managed”