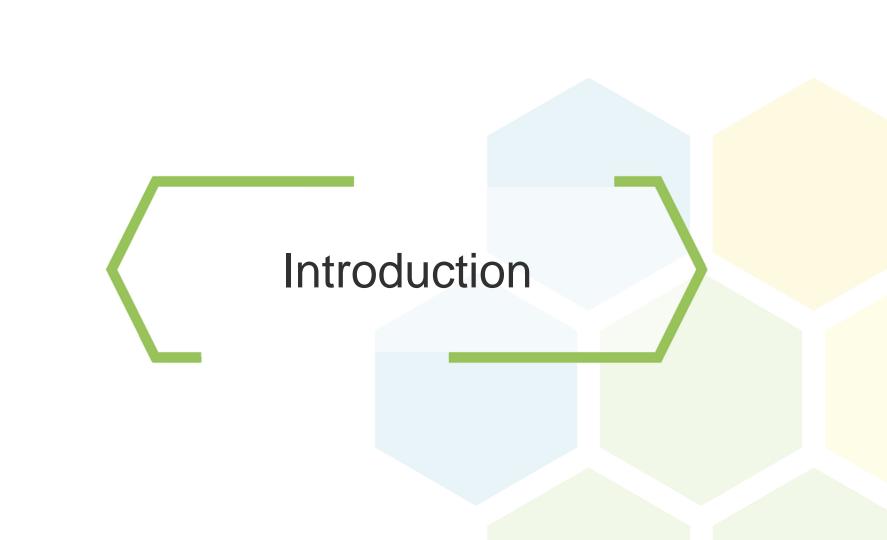
I Wish I Had Done This Differently

Suresh Joshee, University of Alberta



University of Alberta at a Glance

- Top 5 Canadian University
- 39,500 students and 15,000 faculty and staffs
 18 Faculties and 370 programs
- Annual budget of €1.26 billion (US \$1.34 billion)
- Attracts over €335 million (US \$ 357 million)
 sponsored research
- 230,000 Alumni worldwide



What is EDRMS?

- Electronic Document and Records Management System.
- Campus wide content management

What does it do?

- Reduce the cost of paper processing
- Faster response times
- Better adherence to audit and regulatory standards
- Streamline business processes



Credit: Max Pixel

What happened?

- Initiative started in 2008
- Several failed attempts due to tools, people and process
- Department specific deployment, often in silos

What did we learn?

Secure resources first (Funding, Technical, and People)

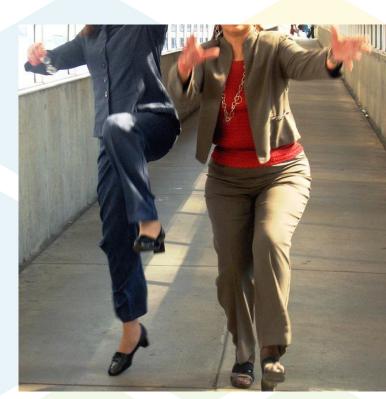
Student

Campus wide ECM implementation strategy



Where are we now?

- First Canadian University to implement Alfresco in campus wide ECM
- Currently 3 record streams in Alfresco
- 700,000 documents in the repository
- Alfresco 5.0.3, Ephesoft 4.0
- Growth of 20,000 documents monthly
- Searches performed 55,000 times per month



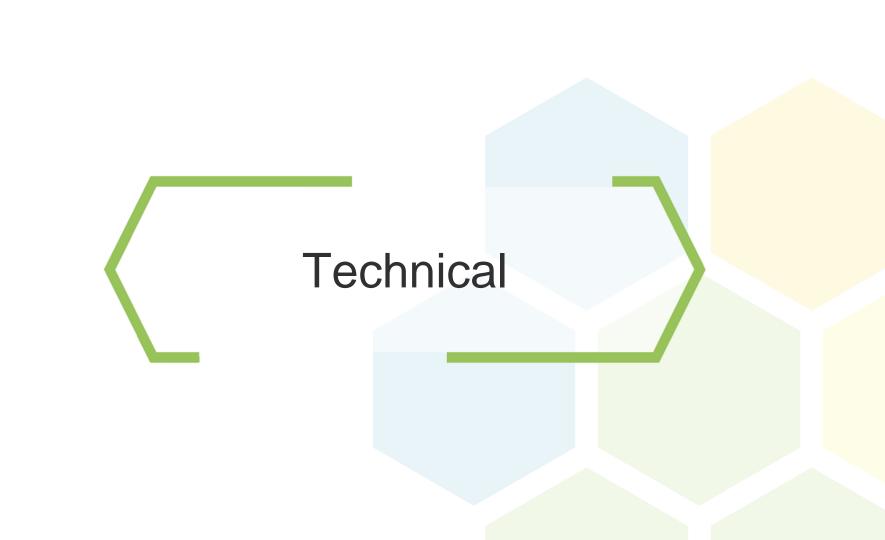
Credit: Max Pixel

Where are we heading?

- Campus wide ECM implementation
- Prioritize ECM implementation based on:
 - Return on Investment
 - Process Improvement
 - Compliance
- Alfresco 5.1 upgrade and Alfresco Record Management implementation



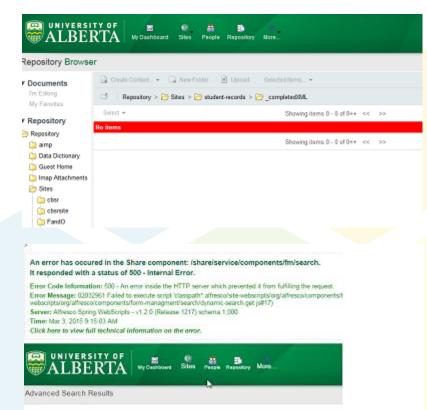
Credit: Brian Robert Marshall



1: Update Alfresco Regularly

Issues

- Alfresco Share bug in version 4.1.4
- Average search response time was 35 seconds
- Unstable system
 - Thousands of errors and timeouts
 - User frustration
 - Decreased confidence in the software
- On the verge of collapse of whole EDRMS initiative



2: Be on Alfresco Supported Platform

Issues

- Non-supported platform Limited help from Alfresco available
- Online community unresponsive, unable to help
- Supported platform can change between even minor versions.



Credit: Pixabay

3: Focus on Objective, Not on the Tools

- Current tools and technologies might not be the answer
- Match the tools and technologies to the requirements
- Create a business case for the tool that does the best job



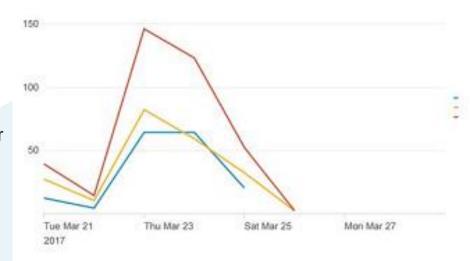
Credit: Pixabay

4: Log, Log and Log

- It will be very hard to find out what is happening on the system without proper logging
- Log every entry and exit point of the documents through out the document lifecycle
- Use log analysis tool such as Splunk or ELK.
- Do not overflow the log, allocate enough space for the log partition
- You will be surprised later how these logs will be used to solve various reporting issues

EDRMS - Etranscript Processed Clone(Alfresco 5.0)

This reports show the number of Etranscripts processed in the last 7 days 200

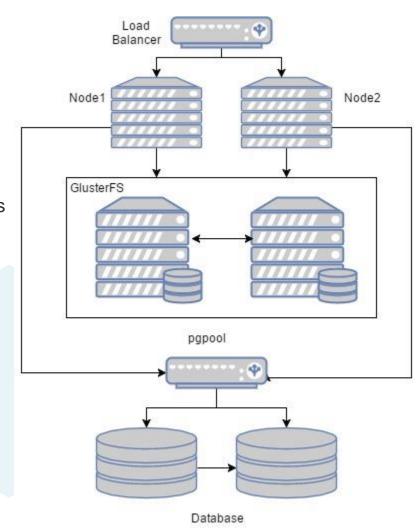


4: Log, Log and Log

```
---- Document Name -- 20170411109-PA xxxx 2017-04-10 110302 37.pdf
--- New name -- 1111111 Withdrawal(1).pdf
--- File Moved to -- Bell, Tinker 1111111
---- Document Name -- 20170411109-1TSAT_xxxxx_2017-04-10_120647_13.pdf
--- New name -- 3333333 Official Transcript SAT 2017-03-07(1).pdf
--- File Moved to -- Doe, John 3333333
---- Document Name -- 20170411109-A xxxxxx 2017-04-10 111036 13.pdf
--- New name -- 4444444 Admission Application 007229067 2017-04-07(1).pdf
--- File Moved to -- Chan, Jackie 4444444
---- Document Name -- 201704111010-PA xxxxx 2017-04-10 110302 38.pdf
--- New name -- 5555555 Withdrawal(2).pdf
--- File Moved to -- Joshee, Suresh 5555555
---- Document Name -- 201704111012-PA_xxxxx_2017-04-10_110302_39.pdf
--- New name -- 6666666 Withdrawal(3).pdf
--- File Moved to -- John, Doe 666666
```

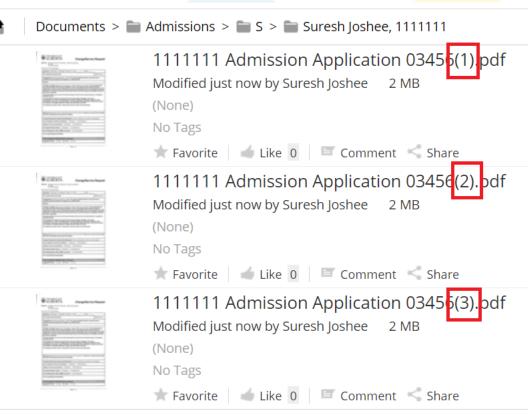
5: Simplify Architecture

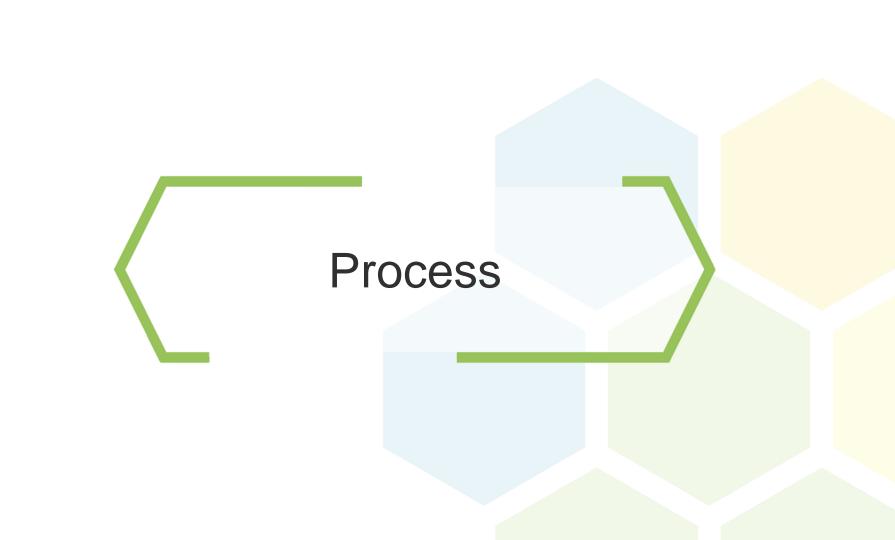
- Reduce the number of variables that might impact your Alfresco implementation
- Do cost benefit analysis before introducing the new tools
- Take time to understand and work with various Alfresco components and subsystems Hazelcast, ImageMagick, Ghostscript, LDAP, various Caches.
- Use monitoring tool such as jVisualVM which provides the holistic picture of the Alfresco and JAVA threads



6: Other Technical Aspects to Consider

- Folder structure and document naming ____
 convention still working on these issues
- How other systems or users will be connecting to Alfresco – Make sure that connections are stable and reliable
- Always follow your model name with the organiation name to avoid namespace collision.





7: Knowledge Sharing

- Build & develop in-house expertise
- Always build AMP and deploy internally you will be surprised how many dependencies are there
- Housed the software code inside your organization
- Consider Intellectual property (IP) right of the software code – who owns the code and how the updates to the code will be made after the contract expires



Credit: Pixabay

8: Change Management Process

- Focus on people aspect of the change not only system change
- Provide ample training with heavy focus on people
- Communicate the message behind why this change is necessary
- Involve users in testing





Credit: Alan O'Rourke

9: Other Aspects to Consider

- Establish the funding model or how it will be funded
- Establish the proper governance structure Steering for direction / strategy and Change Advisory Board (CAB) for managing the day to day operations
- Build small but think bigger; build in phases rather than all once - you will never get right in the first time, always need to incorporate user feedback



Credit: Pixabay

Questions? Suresh Joshee University of Alberta

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