

# Digital transformation in legal industry - showcased on Swiss Data Protection Act (DPA)



Jacqueline Stählin



Christian Laux



Philipp Thomann



# Why is the Swiss legal system not digitized?

- Legal requirement to hand in paper documents at court.
- No pressure to use digital solutions.

# What were the critical success factors of our solution?



Tailored to the case and the Swiss legal system



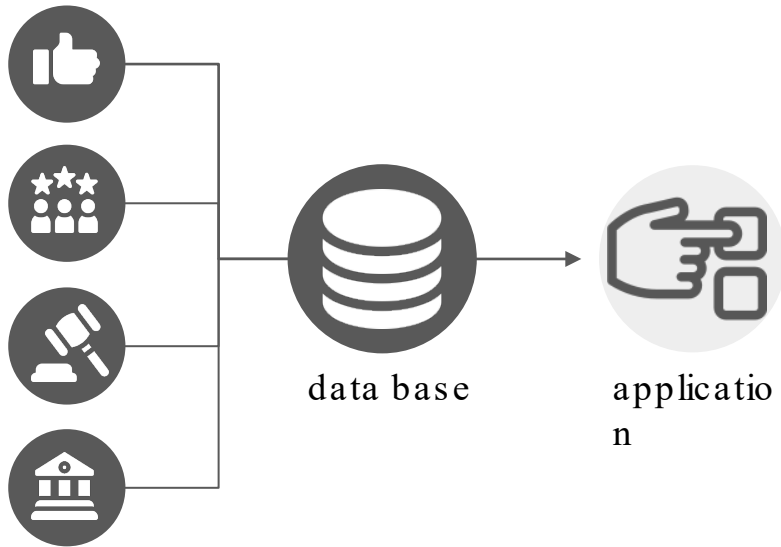
Transparency and trust



Emphasis on analytics service and communication



# How can you interpret a law text that is not in effect yet?



New Swiss data protection act (DPA) comes into effect next year.

Documents supporting interpretation of the new law text

- Text in different version, from the original one to the revised law text
- Recommendation by FDPIC (EDÖB)
- Precedents
- Comments of experts in the field



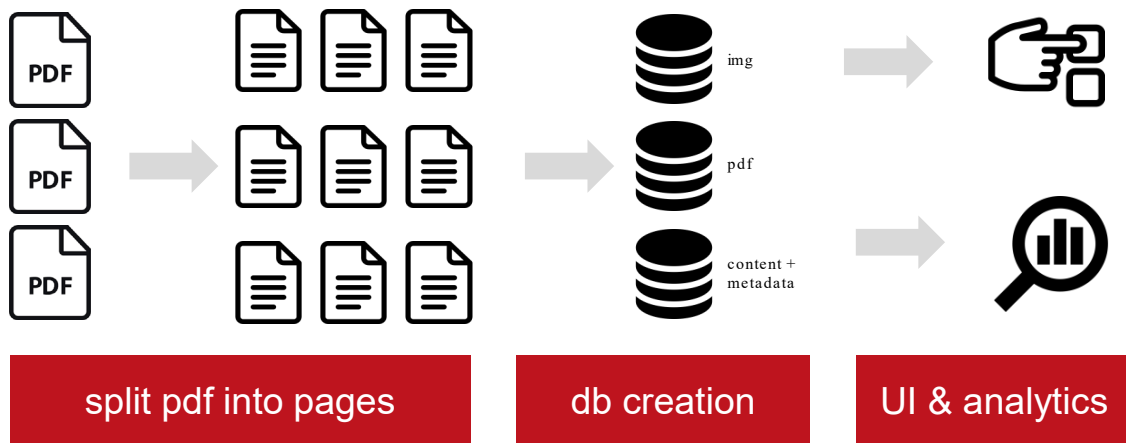
Tailored to the case

Inspection cockpit provides full insight around key document in the case

[Demo Video 1]



# A strong data pipeline is foundation for application and analytics



## Content database:

- 2-fold OCR and OCR selection
- extraction and cleaning of named entities
- automatic summarisation
- date parsing
- ...

## Front end:

- navigate pdf pages like the web
- full text search
- user can edit labels
- create document collections
- image-similarity enhanced search
- search-term suggestion
- ...





Transparency and trust

Show what you got.

[Demo Video 2]





Emphasis on analytics service and communication

Provide analytics service,  
and do it fast.



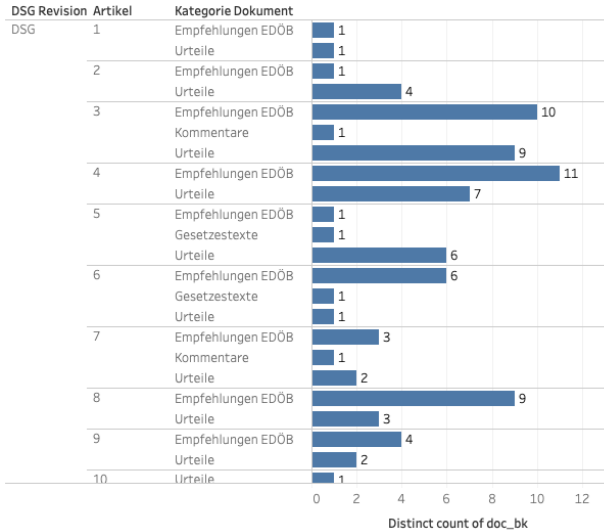




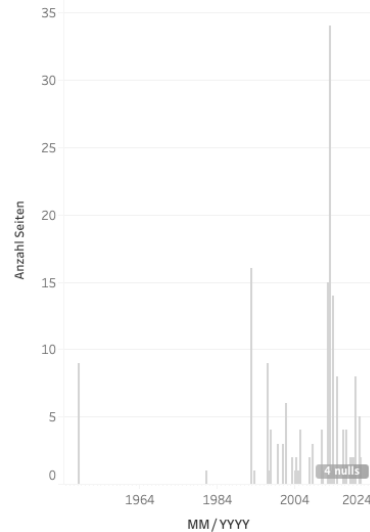
# Provide analytics service, and do it

## fact

Artikel und Referenzen



Zeitachse



Value add:

- Unanticipated speed of reaction
- Facts to support arguments

[Demo Video 3]

Kategorie Dokument	Dateiname	Seitenzahl	
Empfehlungen EDÖB	13_september_2010-biometrischedatenfu..	7	<a href="https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/934c24f59466fae74c07796d..">https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/934c24f59466fae74c07796d..</a>
		8	<a href="https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/bd63bef87551f87a51aa2447..">https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/bd63bef87551f87a51aa2447..</a>
		11	<a href="https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/26b9e04e26d5fe41c85c714a..">https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/26b9e04e26d5fe41c85c714a..</a>
		16	<a href="https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/c0121b6a431da7d9c67bf0d0..">https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/c0121b6a431da7d9c67bf0d0..</a>
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	15_november_2012-empfehlungandietone..	1	<a href="https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/bc08de0f5be83eed53329a3a..">https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/bc08de0f5be83eed53329a3a..</a>
		2	<a href="https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/9bb698437cd6046a47a7cd4..">https://sherlock-demo-dsg.oa.r.appspot.com/pdf_enriched/9bb698437cd6046a47a7cd4..</a>



# What does an expert say?

- Extension of an industry standard to open purpose
- Customisable knowledge base

# We have hit a sweet spot with our solution.

## → DPA-Inspector

- Support for DPA needs
- Support for legal departments

## → For the whole Swiss legal system

- Hook for analytics services
- Push for digitization



# Where is the journey going?

- Argument mining
  - Expanding inspection cockpit to take apart the chain of arguments that lead to a conclusion
- Technology Assisted Review
  - Self-learning by flagging as review is progressing



Try for yourself and join us for the discussion in the afternoon.



<https://dpa-inspector.app.d-one.ai>

Join our hallway discussion at 15.00 h

How can Lawyers and Data Scientists join forces?



LET'S MAKE SENSE



This talk provides an outlook on the next generation of eDiscovery Solutions and Consulting [EDSC] for the legal industry leveraging data. The legal industry feels the exponential growth of data and currently available tools do not meet the needs of lawyers when searching through hundreds of thousands of documents.

In a hands-on demo, we show how lawyers gain accuracy and increase cost efficiency with a solution based on a search engine on cross-referenced and context-enriched documents facilitated by NLP.

Due to the confidential nature of real-world tasks, we demonstrate the functionality on the evolution of Swiss Data Protection Act (DPA): alterations over time, quickly searchable, fully digital overview of the DPA law text, recommendations of government representatives (EDÖB) and, where available, relevant precedents.

