

SocioCortex – A Social Information Hub

Thomas Reschenhofer, Florian Matthes

Software Engineering für betriebliche Informationssysteme (sebis)

Fakultät für Informatik

Technische Universität München

www.matthes.in.tum.de

1. Vertical Social Solutions

- Tailored EA Visualizations
- Lexalyze
- Spreadsheet 2.0
- Darwin

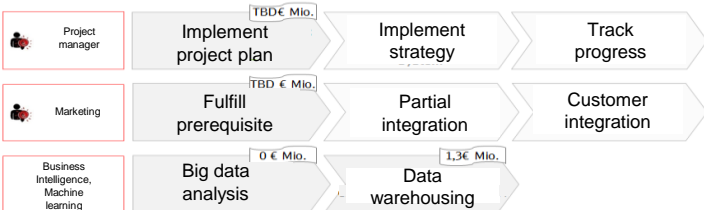
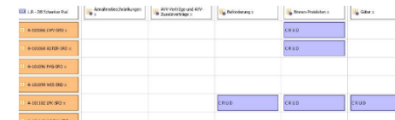
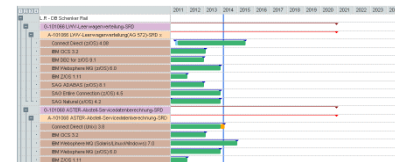
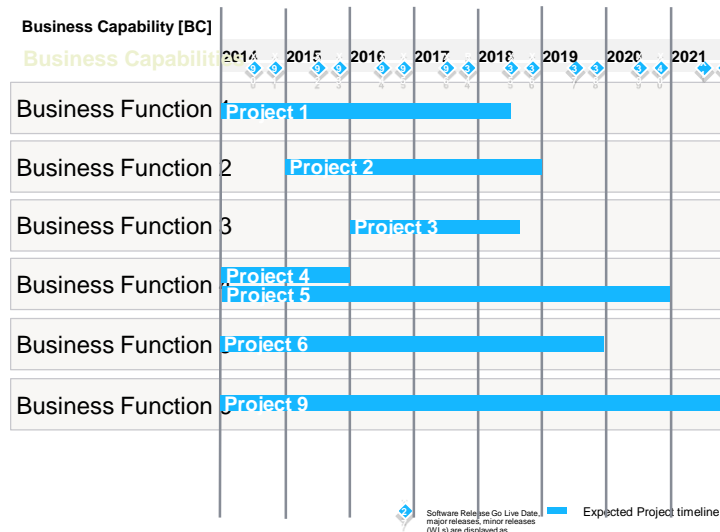
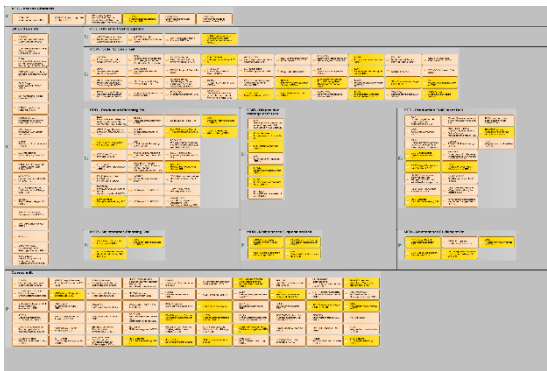
2. SocioCortex Overview

- Architecture & Concepts

3. Summary & Outlook

Requirements

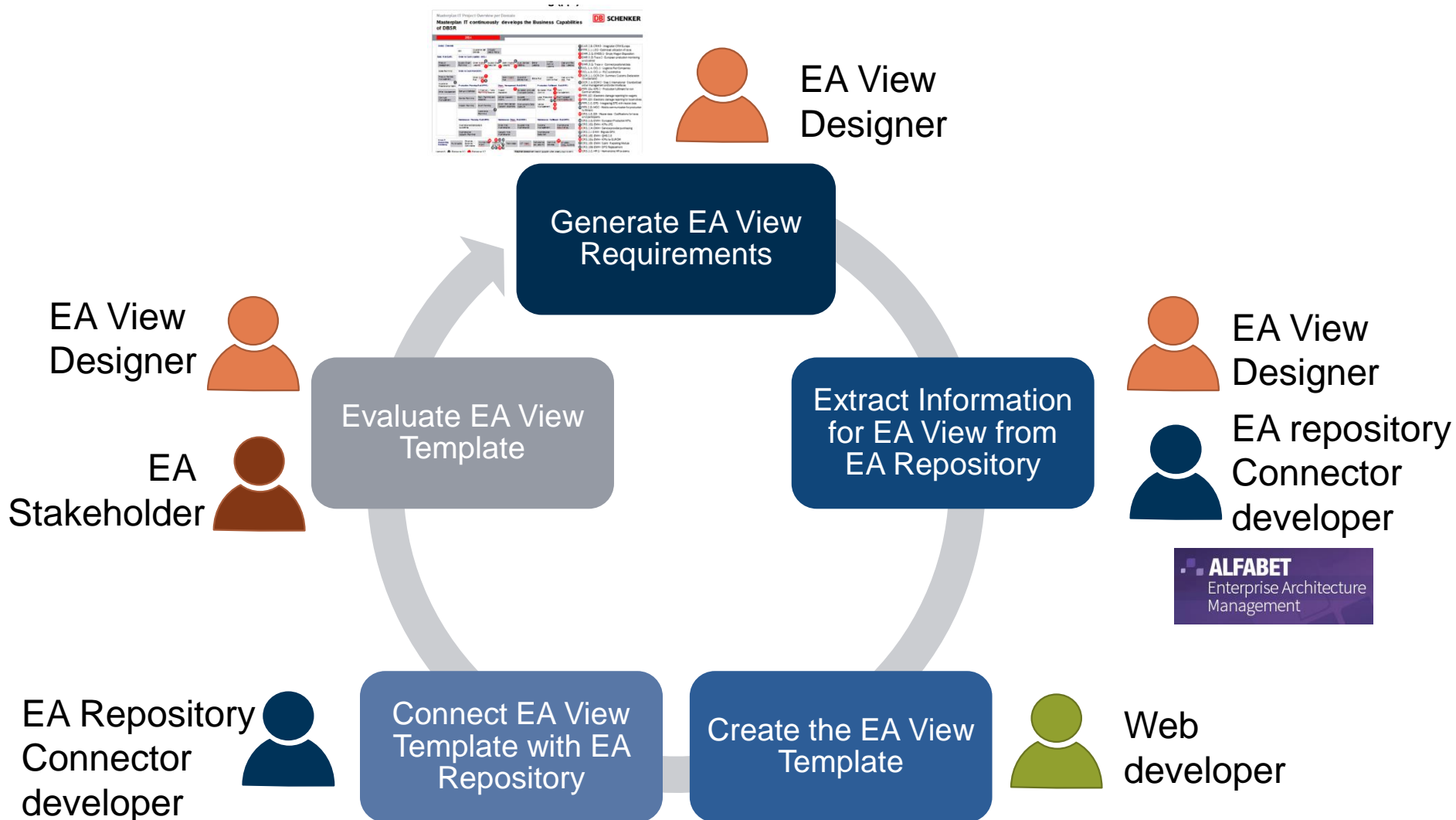
- **Highly customized** and **configurable** visualizations of the application landscapes
- Data connectors for multiple data sources
- Push-button for generating PowerPoint presentations



Contact: **Adrian Hernández-Méndez & Manoj Mahabaleshwar**

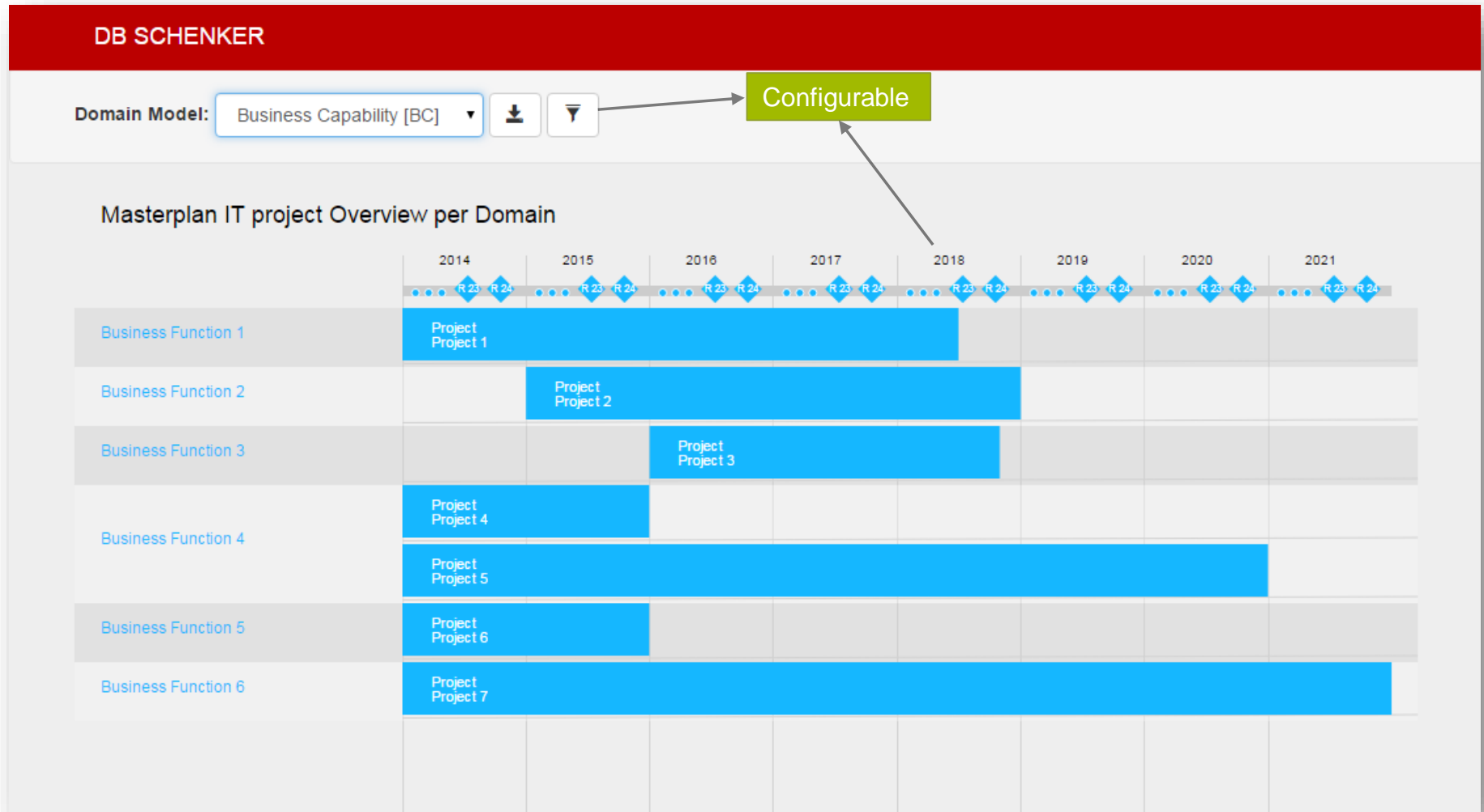
Tailored EA Visualizations

View-Driven Approach



Tailored EA Visualizations

Gantt-chart as an Exemplary Visualization

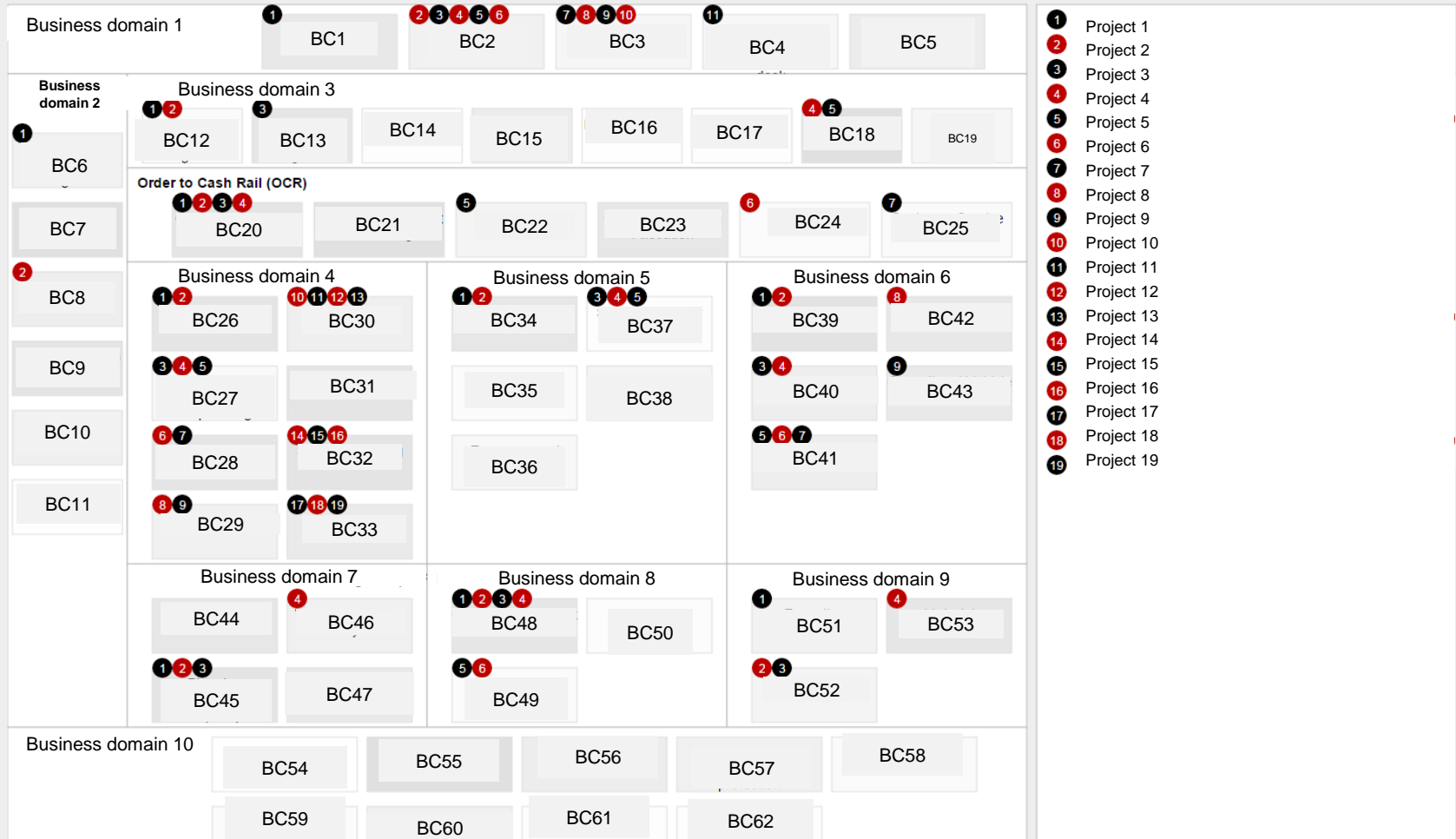


Tailored EA Visualizations

Cluster-chart as an Exemplary Visualization

DB SCHENKER

Select Year: 2015 Select Project Status:  





- Advanced data and **text mining** for the legal domain
- **Complex analysis** with focus on unstructured data
- Support of the drafting process of legal texts using **collaborative technologies**
 - Quality assurance within the drafting processes
 - Usage of consistent vocabulary
 - Avoidance of indeterminate legal terms
 - ...
- **Analogies** between the development of high-quality software code and legal texts



Contact: **Bernhard Waltl** | More Information on our [website](#)



Simple example: Automated part-of-speech tagging

Aktiengesetz

§ 1 Wesen der Aktiengesellschaft

Die Aktiengesellschaft ist eine Gesellschaft mit eigener Rechtspersönlichkeit. Für die Verbindlichkeiten der Gesellschaft haftet den Gläubigern nur das Gesellschaftsvermögen. Die Aktiengesellschaft hat ein in Aktien zerlegtes Grundkapital.

§ 2 Gründerzahl

An der Feststellung des Gesellschaftsvertrags (der Satzung) müssen sich eine oder mehrere Personen beteiligen, welche die Aktien gegen Einlagen übernehmen.

§ 3 Formkaufmann. Börsennotierung

Die Aktiengesellschaft gilt als Handelsgesellschaft, auch wenn der Gegenstand des Unternehmens nicht im Betrieb eines Handelsgewerbes besteht. Börsennotiert im Sinne dieses Gesetzes sind Gesellschaften, deren Aktien zu einem Markt zugelassen sind, der von staatlich anerkannten Stellen geregelt und überwacht wird, regelmäßig stattfindet und für das Publikum mittelbar oder unmittelbar zugänglich ist.

§ 4 Firma

Die Firma der Aktiengesellschaft muß, auch wenn sie nach § 22 des Handelsgesetzbuchs oder nach anderen gesetzlichen Vorschriften fortgeführt wird, die Bezeichnung 'Aktiengesellschaft' oder eine allgemein verständliche Abkürzung dieser Bezeichnung enthalten.

§ 5 Sitz

Sitz der Gesellschaft ist der Ort im Inland, den die Satzung bestimmt.

§ 6 Grundkapital

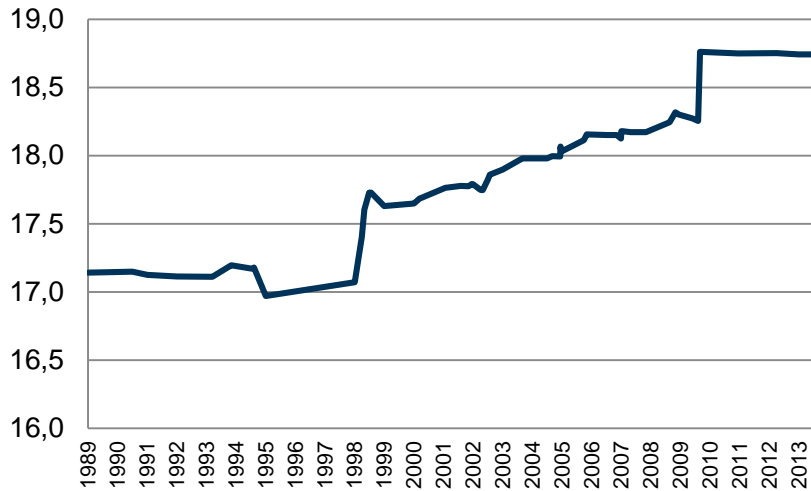
Das Grundkapital muß auf einen Nennbetrag in Euro lauten.

§ 7 Mindestnennbetrag des Grundkapitals

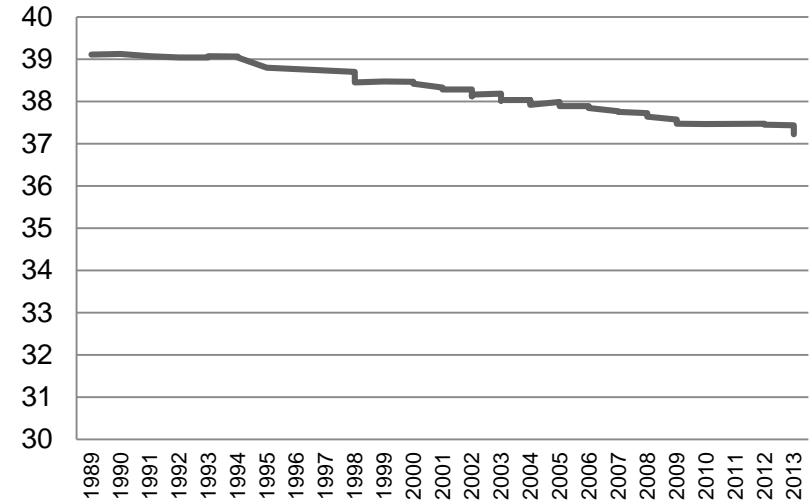
INFORMATIONS

- eigener
- zerlegtes
- nur
- Die
- eine
- die
- der
- den
- das
- Die
- ein
- Aktiengesellschaft
- Gesellschaft
- Rechtspersönlichkeit
- Für
- Verbindlichkeiten
- Gesellschaft
- Gläubigern
- Gesellschaftsvermögen

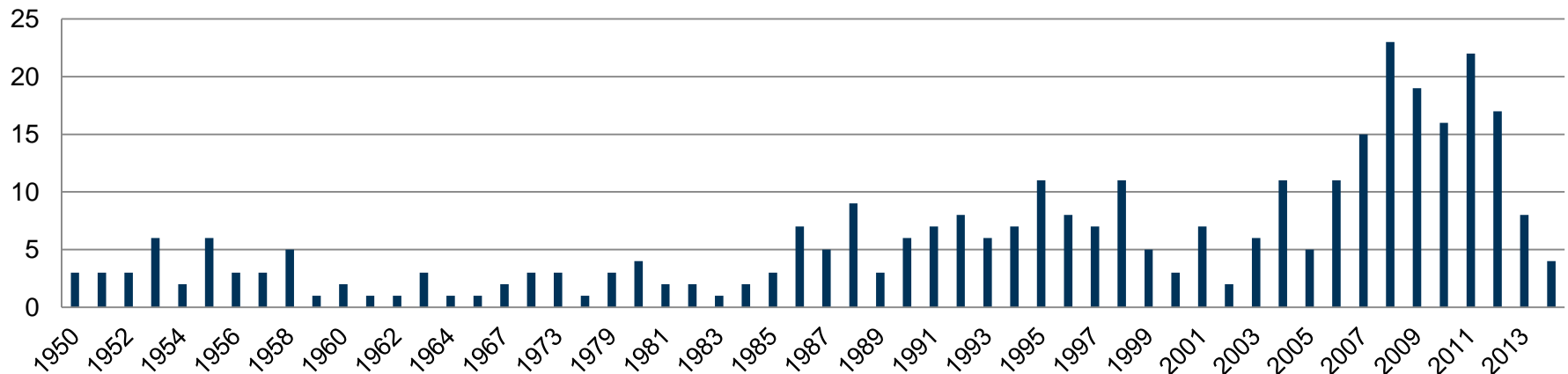
Indeterminacy (AktG) since 1989



Readability (AktG) since 1989



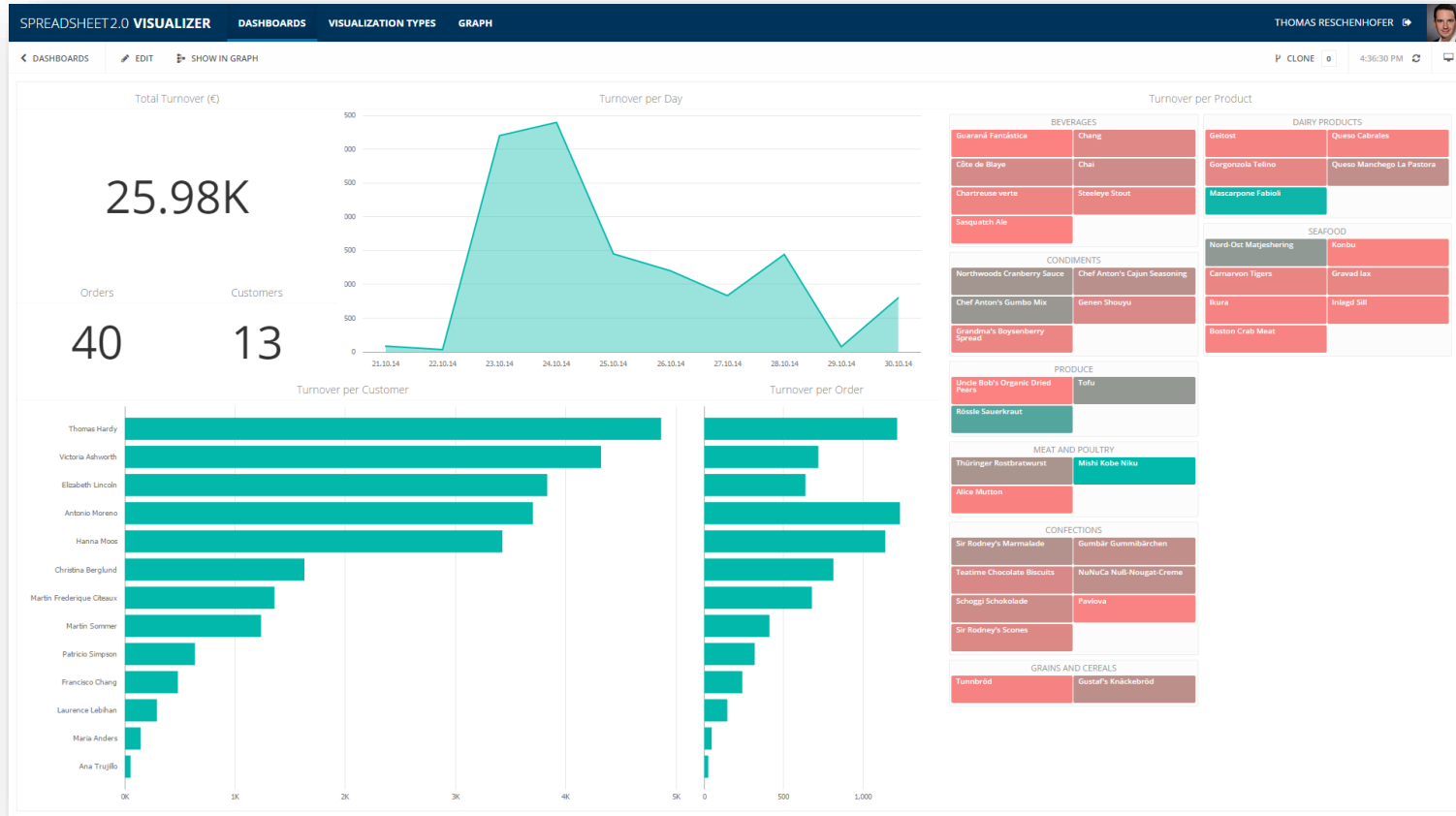
Federal Court of Justice Judgments (AktG) since 1950



Spreadsheet 2.0 Visualizer

Customizable and Analyzable Dashboards

- Customizable dashboards consisting of multiple visualizations
- Analyzability to foster transparency of information flow



Contact: **Thomas Reschenhofer** | More Information on our [website](#)

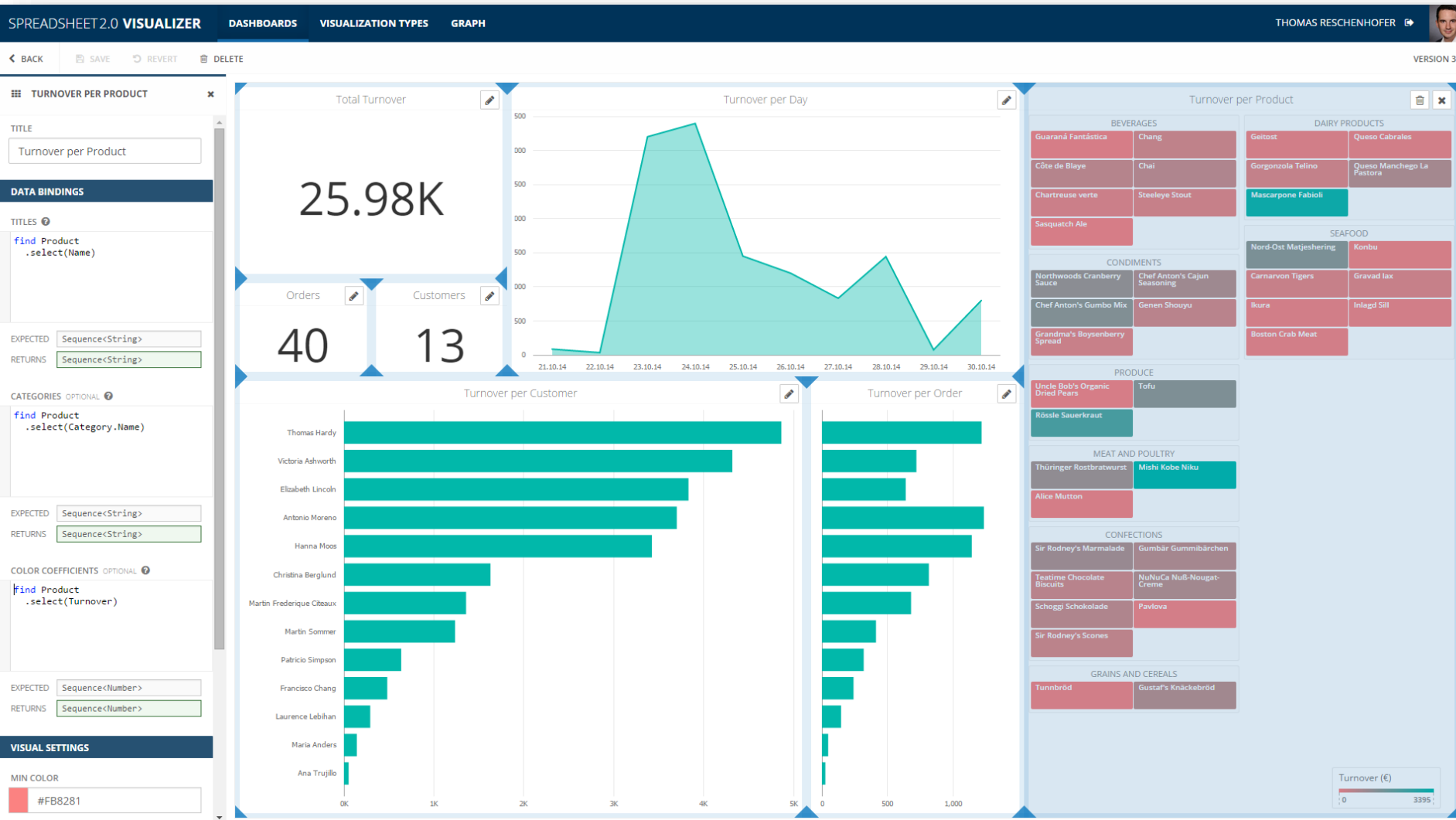
Deutsche Post DHL

risklab

msg
systems

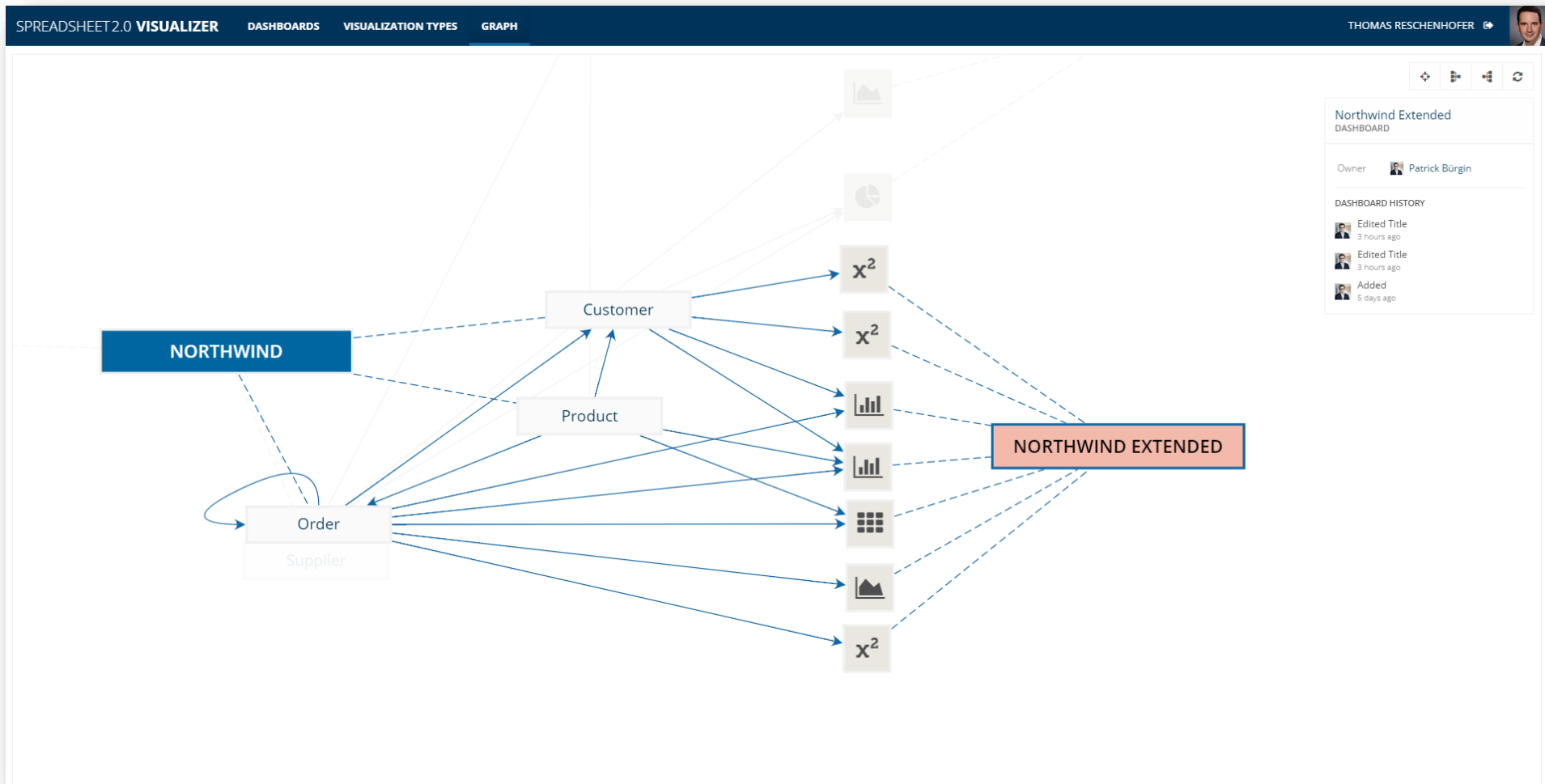
Spreadsheet 2.0 Visualizer

Customizing and Configuring a Dashboard and its Visualizations



Spreadsheet 2.0 Visualizer

Making the Information Flow Transparent



- Features of **Knowledge-intensive Processes**
 - Range from unstructured to loosely structured
 - Goal oriented describing the what and not the how
 - Require high flexibility during execution
 - Knowledge workers have to be empowered to structure their processes
- **Applications** of Darwin
 - Integrated innovation management process at DATEV eG
 - Development of a planned enterprise architecture state at HUK



Contact: **Matheus Hauder & Felix Michel** | More Information on our [website](#)



8 Darwin

Alert Groups Feed

Search

+ New

hauder

Favourites Repository

Software Development Project / Development / Sprint 7

Filter

Software Development Project

Darwin Wiki

Development

Sprint 1

Sprint 2

Sprint 3

Sprint 4

Sprint 5

Sprint 6

Sprint 7

Project

Scrum

Sprint

Sprint 7

Refactor getExpertises

95%

Delete history tab for pages

20%

Refactor picture in feed

45%

Refactor picture in profile

75%

Add comment function in feed

85%

Fix file controller

15%

Show completed tasks in profile

95%

Fix picture width in editor

10%

Attributes of this Sprint

Automatic MongoDB Update

✓

Expertise refactored

Add value ...

Meeting

17.12.2014

Mockup for feed

Add value ...

Mockup for profile

Profile Mockup.png

Picture in feed refactored

Add value ...

Picture in profile refactored

Add value ...

Picture width fixed

Add value ...

UserHistory deleted

✓

+ New attribute

Fix picture width in editor

Instead of setting the default value of images in the editor, the CSS files of the page and the CSS class `page-editor` which is used in the content area where added to the editor. This enables the look and feel of the page without adding some default values which would perhaps cause issues in the future because of the inline CSS it would generate.

The CSS files of the index.html where added to the `CKEDITOR.config` in `%PROJECT%\public\app\js\directives.js`.

The original problem of too big images is solved by adding `max-width: 100%;` to the corresponding CSS

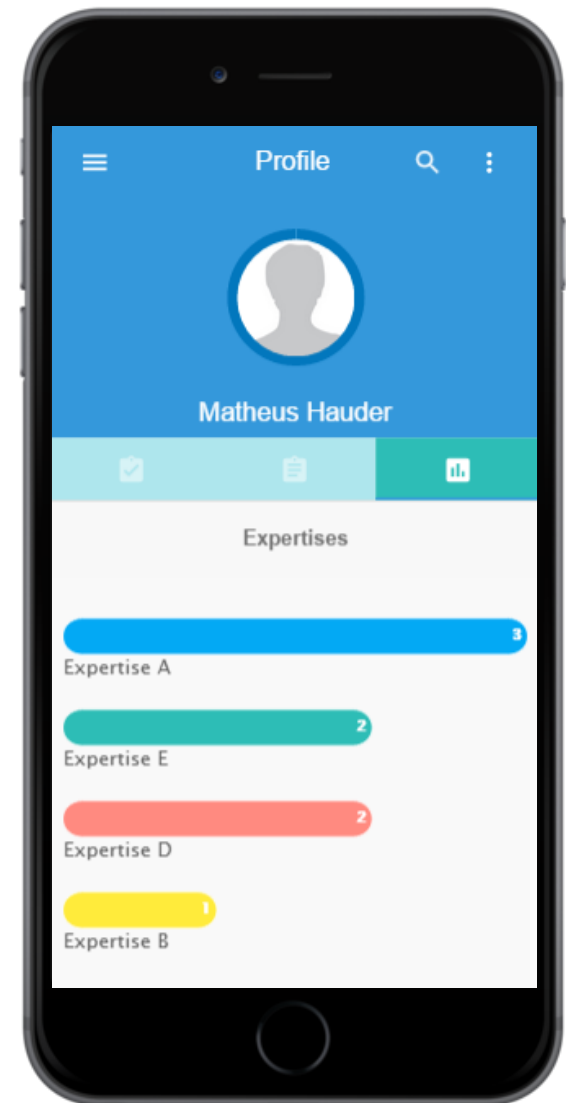
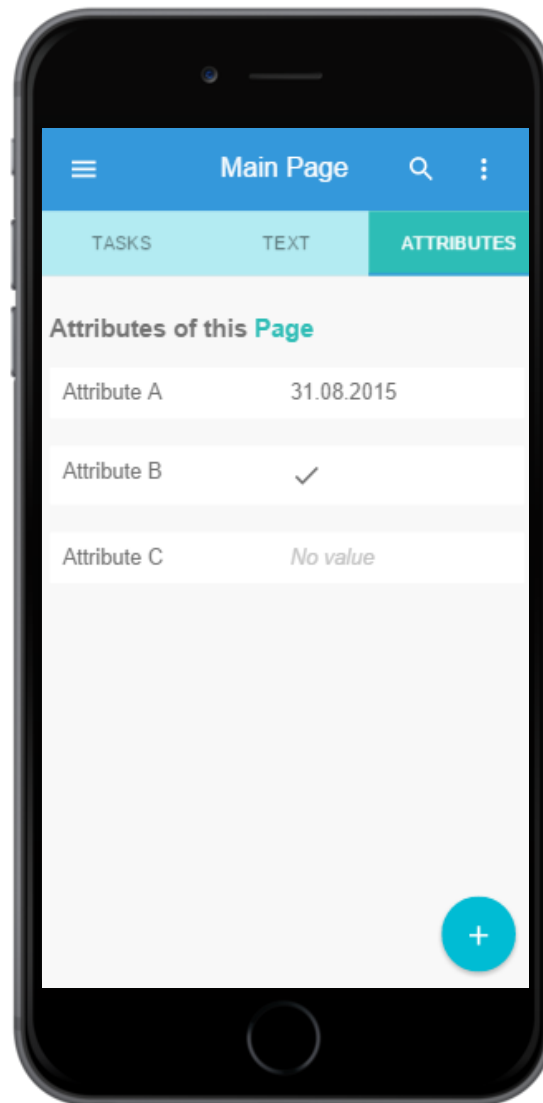
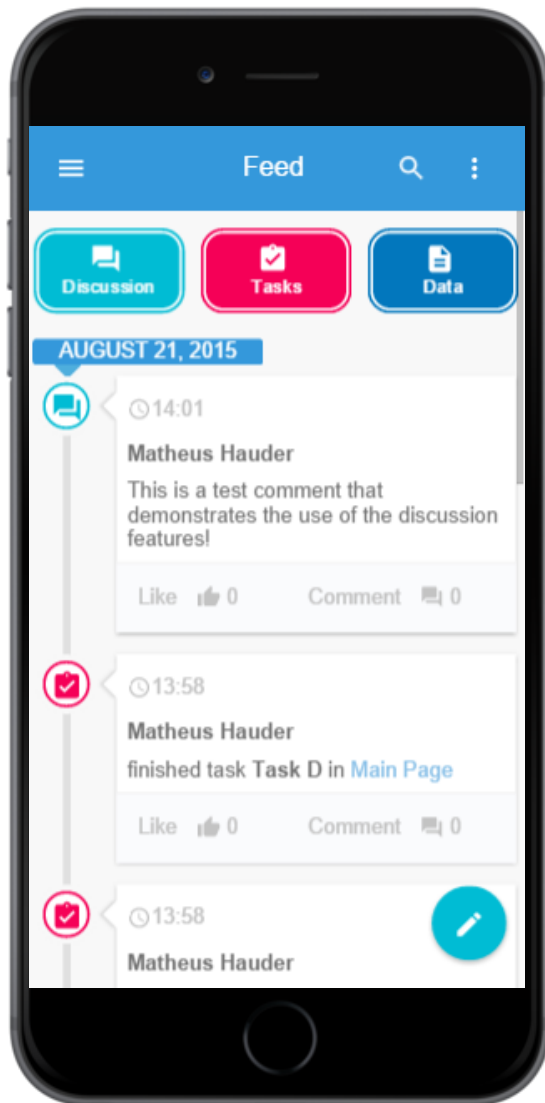
Automatic MongoDB Backup

Following [these instructions](#) a time triggered event was added to the servers operating system. It triggers every day at 4 o'clock to backup the current database. Afterwards it zips the data and stores them in a certain folder. The executing .bat file was changed to the following:

```
@echo off
```

Darwin

Mobile User Interface



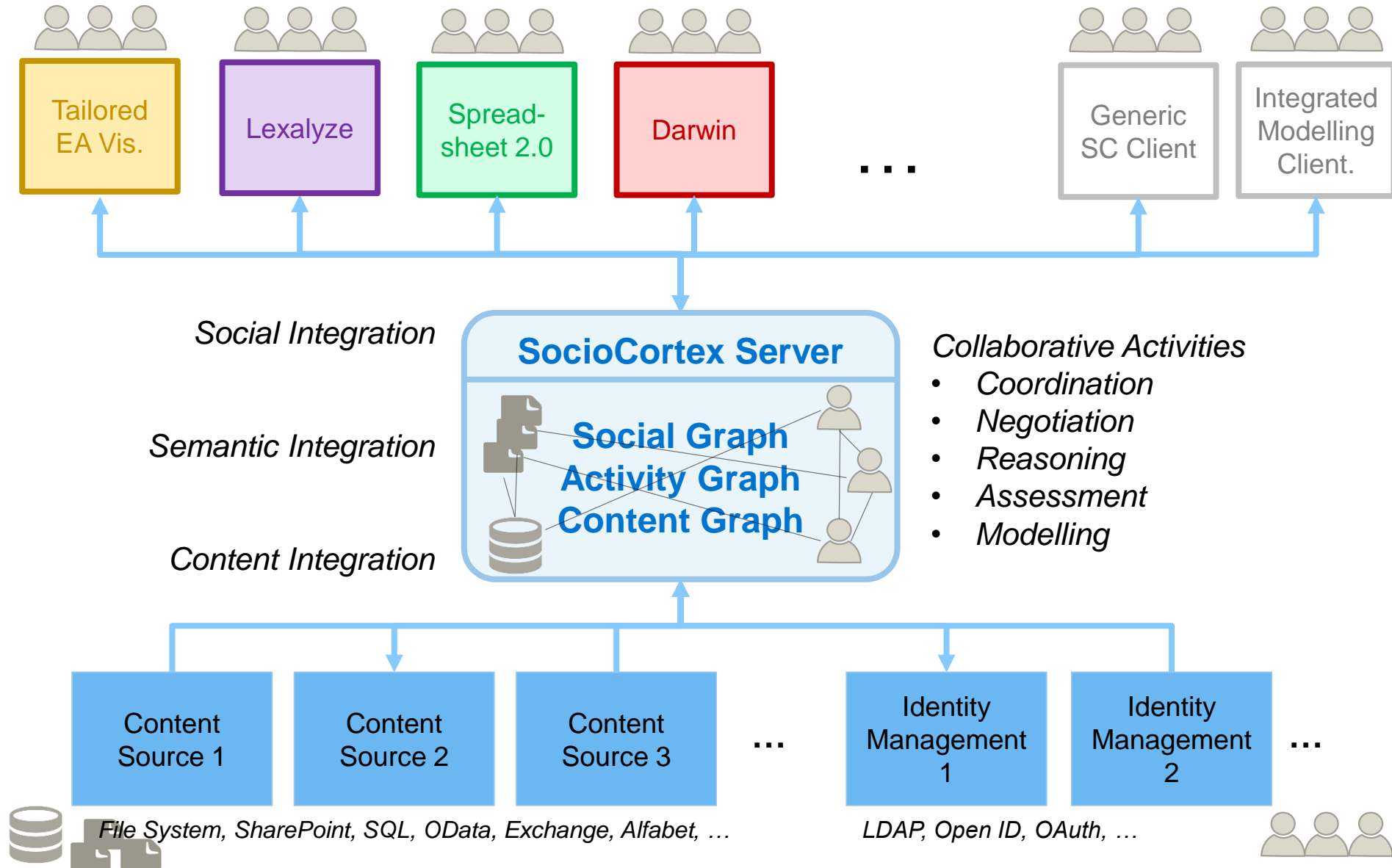
1. Vertical Social Solutions

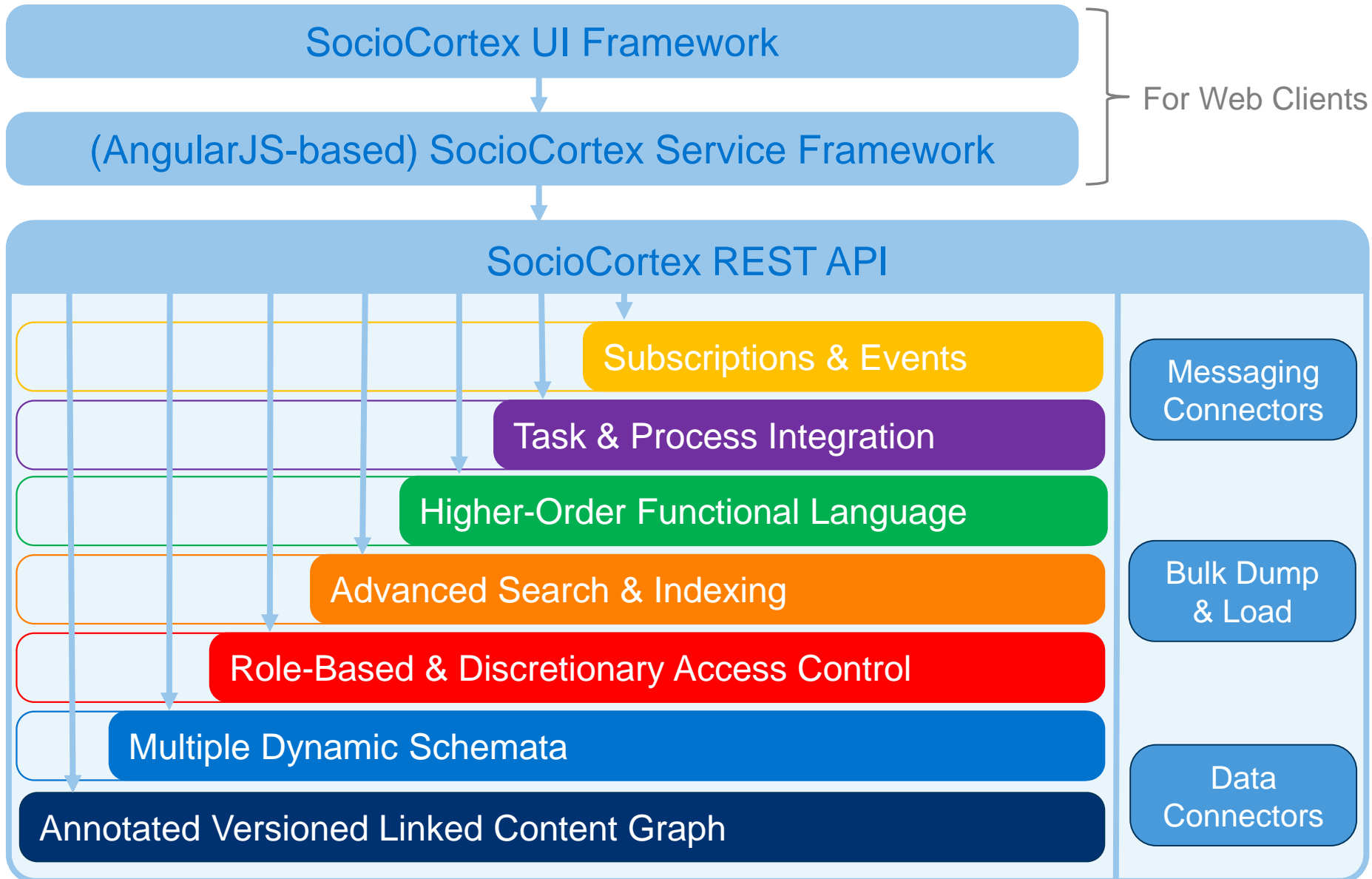
- Tailored EA Visualizations
- Lexalyze
- Spreadsheet 2.0
- Darwin

2. SocioCortex Overview

- Architecture & Concepts

3. Summary & Outlook





1. Vertical Social Solutions

- Tailored EA Visualizations
- Lexalyze
- Spreadsheet 2.0
- Darwin

2. SocioCortex Overview

- Architecture & Concepts

3. Summary & Outlook

- Open Source (Bitbucket)
 - SocioCortex Clients
 - SocioCortex Data Connectors
 - SocioCortex Documentation
- Free SaaS
 - SocioCortex Server



Contact: **Thomas Reschenhofer** | More Information on our [website](#)

- **TUM LLCM**
 - Open platform for digital mobility
 - SocioCortex as a tool to support the management, analysis, and visualization of integrated service monitoring data
- **TUM Informatics Intranet**
- **InCoBate**
- **Your Use-case?**



Thank you for your attention. Questions?



Thomas Reschenhofer
M.Sc.



Technische Universität München
Department of Informatics
Chair of Software Engineering for
Business Information Systems

Boltzmannstraße 3
85748 Garching bei München

Tel +49.89.289.17100
Fax +49.89.289.17136

matthes@in.tum.de
wwwmatthes.in.tum.de

