

Embedded Analytics in Action

Sven Bertram, CEO, awinta GmbH

Michael Braam, Senior Sales Engineer, InterSystems Corporation



Agenda

Introduction

awintaOne BI

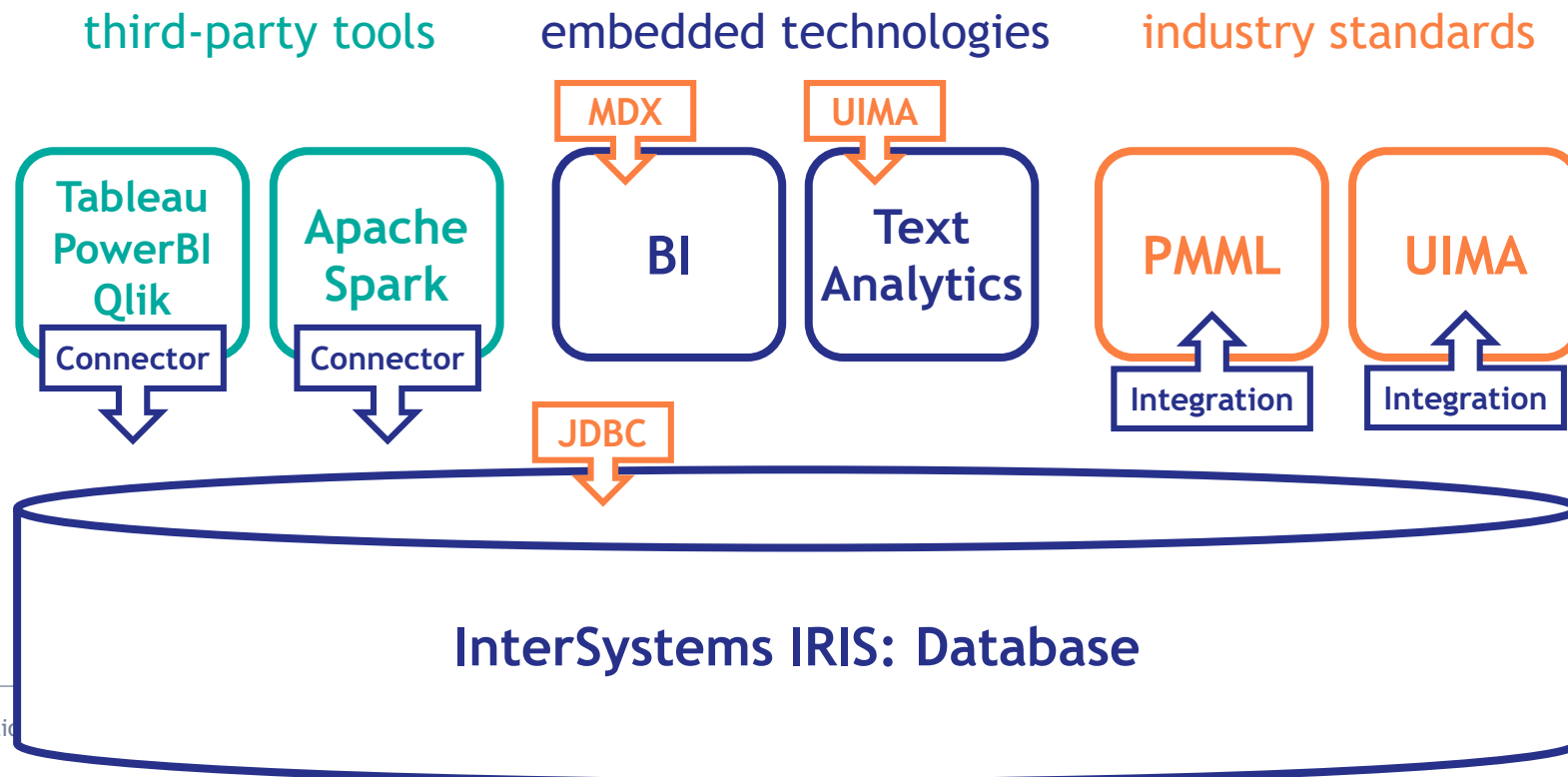
Technical implementation

Q&A



InterSystems IRIS Analytics Strategy

An **Open Analytics Platform** allows partners and end-users to build solutions and services that leverage best-of-breed analytics technologies, both embedded in the platform and complementary to it.



Sven Bertram

awintaOne BI

NOVENTI as a top health IT service provider in Europe.

Our brands cover almost the entire healthcare market.

20 independent
individual
companies

Headquarter
in Munich

Healthcare
Market

Over 1900
employees

Pharmacies

Group
revenues
over 156
millions €



19 billion
Billing
volume

doctors and
other service
providers



Introduction



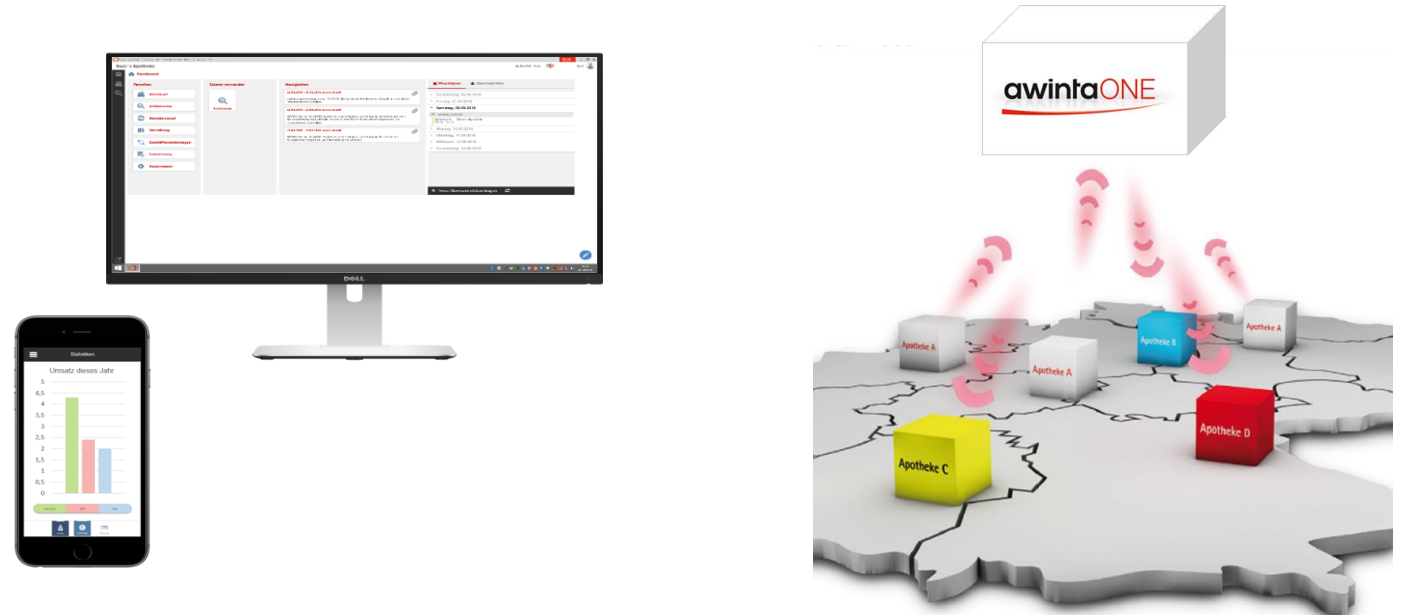
awintaONE



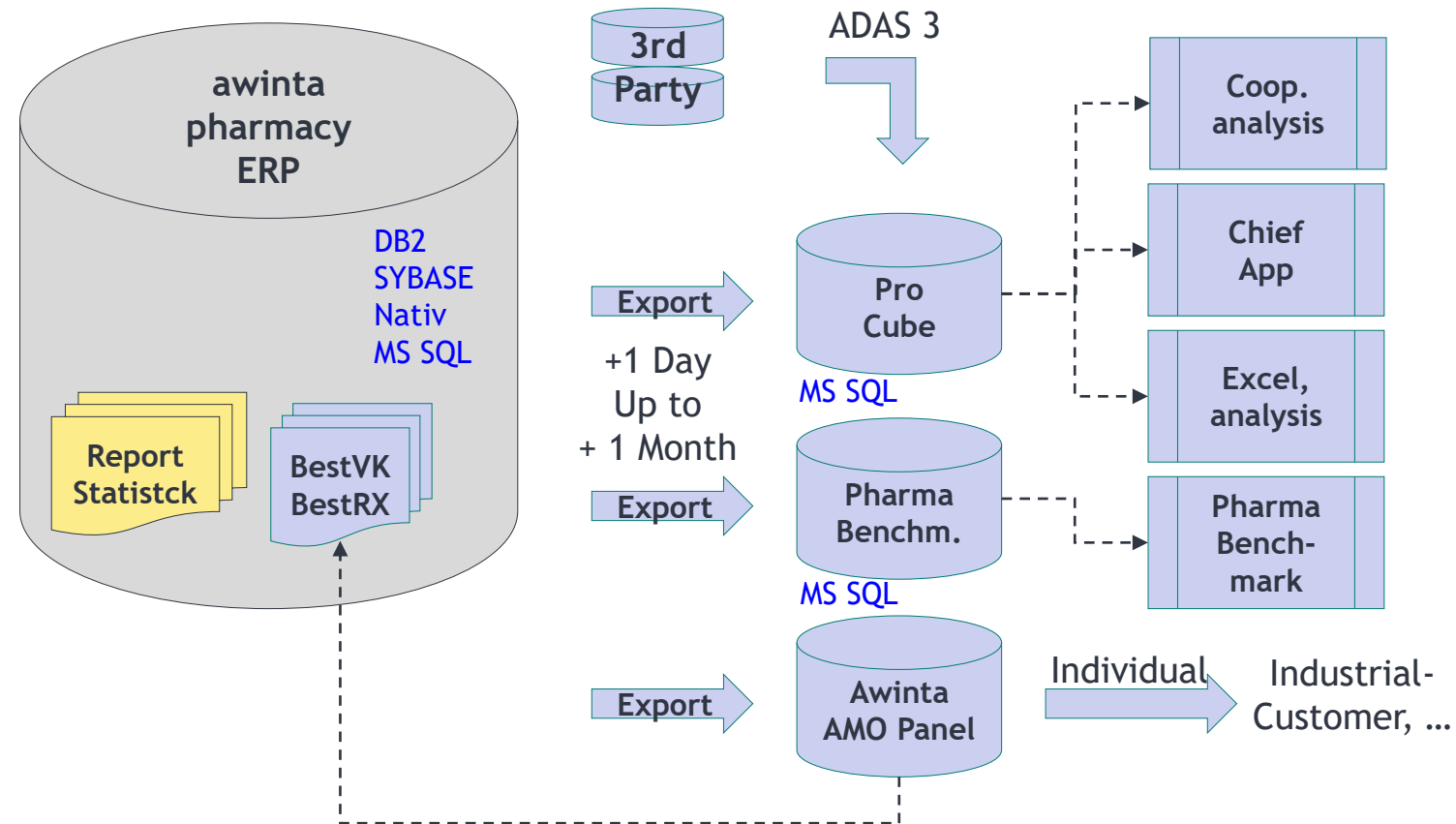
Introduction

- USP's awintaONE - ERP System
- Only multi client pharmacy system
- Only ONLINE System
- Pharmaceutical Knowledge Base
- Law & accounting
- Storage optimization
- Flexible UI
- APP - ordering systems
- ...

awintaONE



Cold Data (legacy model)

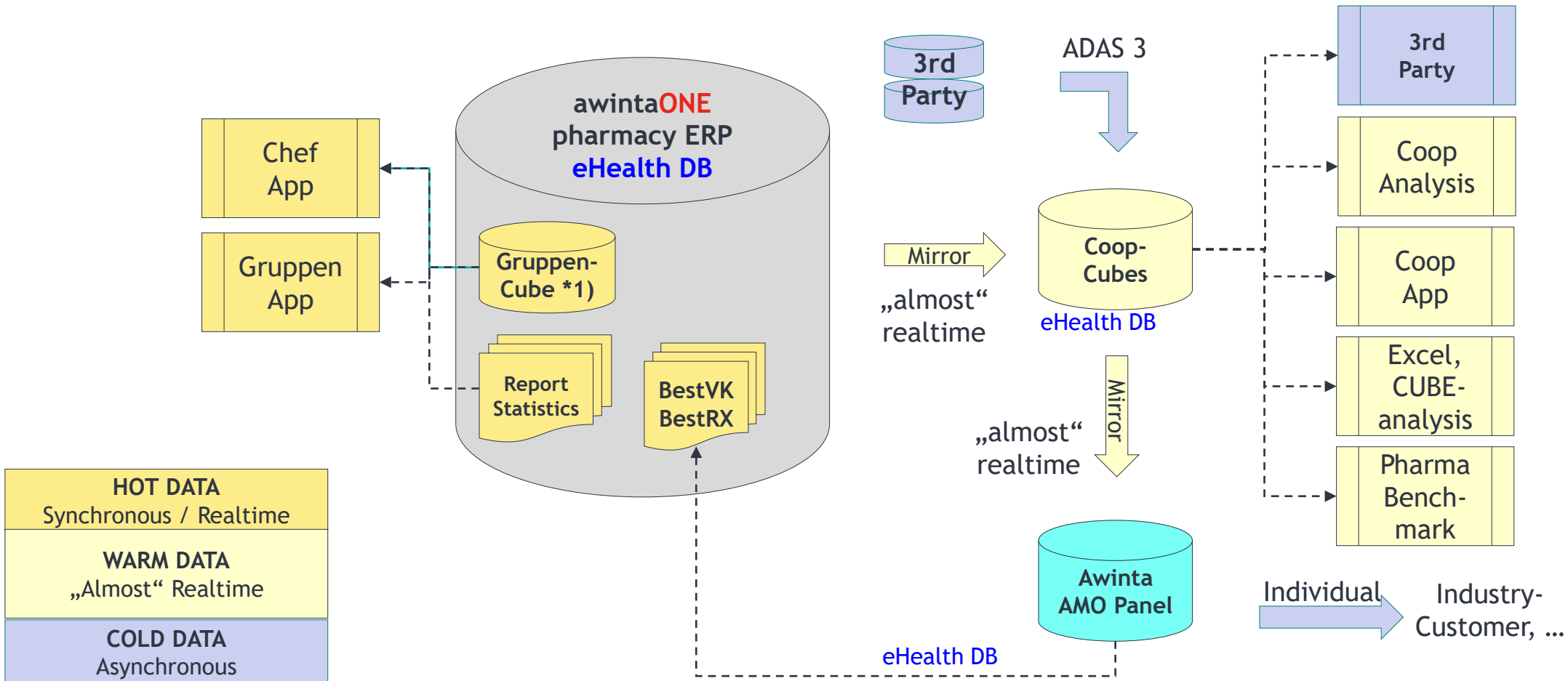


HOT DATA Synchronous / Realtime
WARM DATA „Almost“ Realtime
COLD DATA Asynchronous

Hot Data awintaONE



Zukunft. Gestalten. Können.



Dashboard and APP - UI

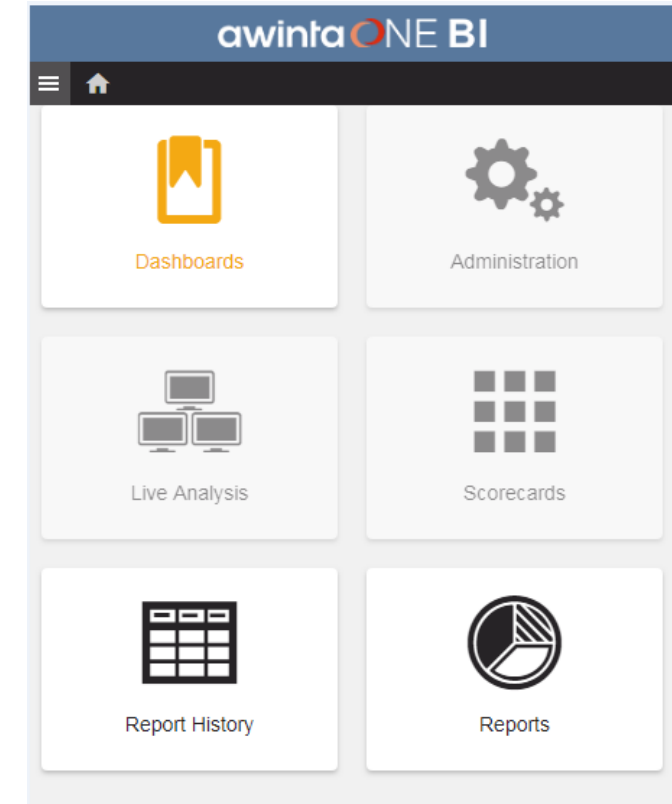


Zukunft. Gestalten. Können.

Client UI - Dashboard



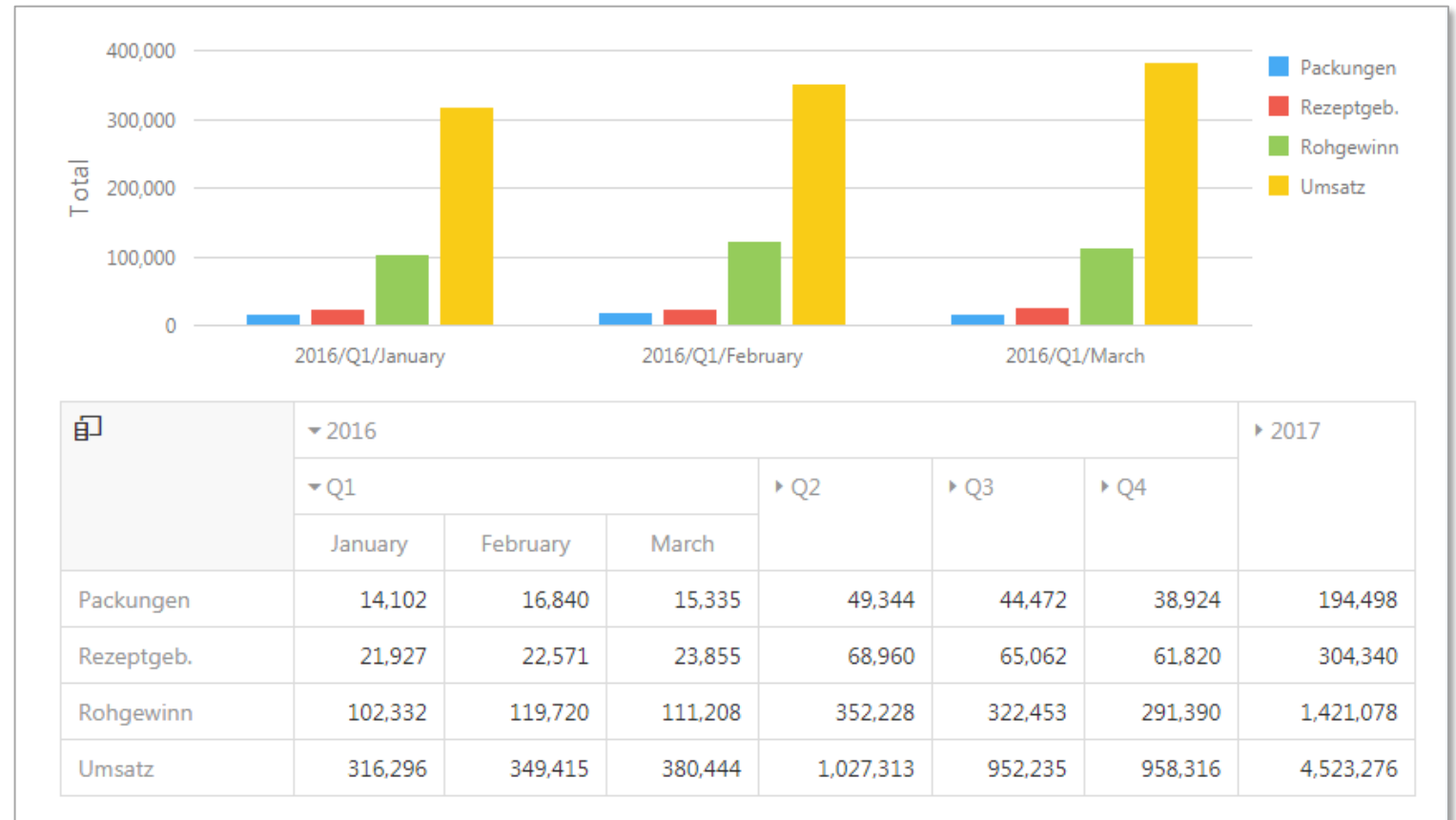
APP - UI





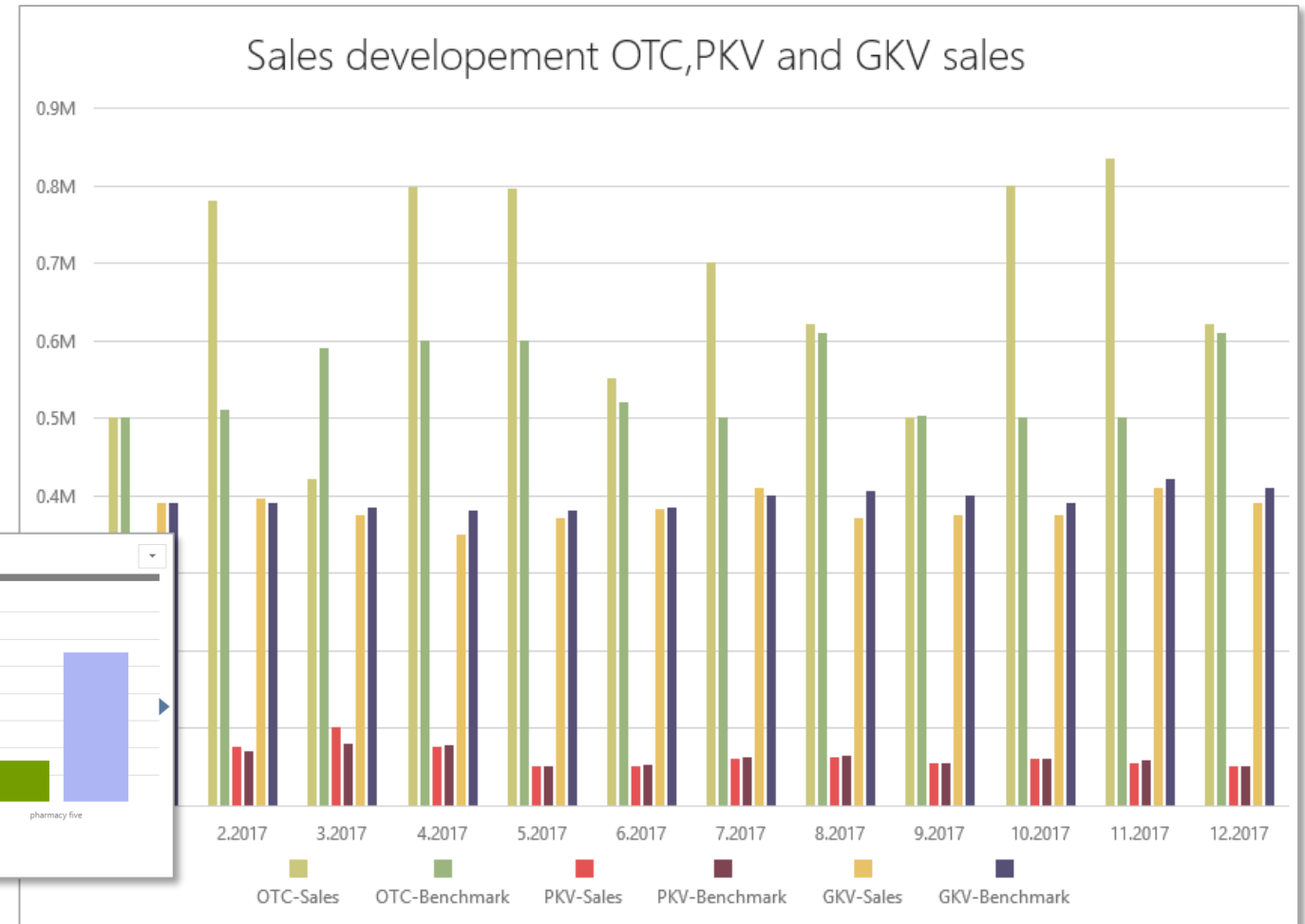
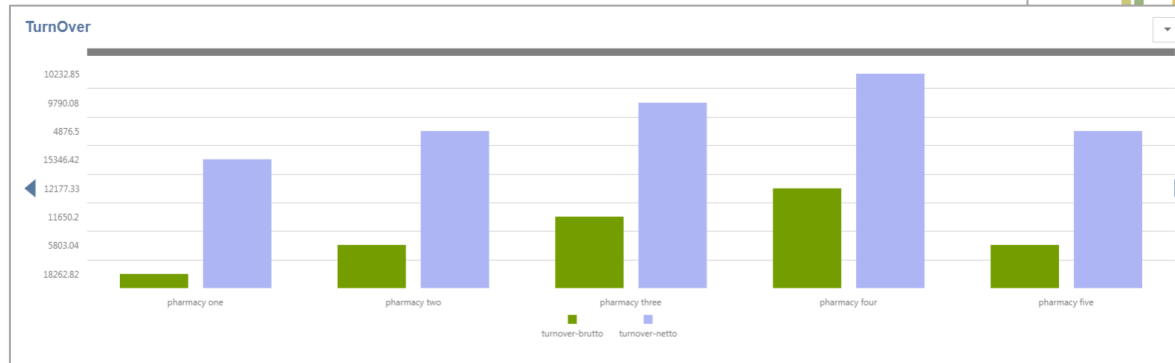
Financial sheet (Pharmacy)

- Consolidated data of the key figures
- Dynamical information in pivotformat
- Quick overview
- Single source of information



Monthly development

- Monthly development of major sales figures.
- Comparison to Benchmark of the market and the connected pharmacies.



Motivation

- Cutting edge Technology
- ONLINE capabilities
- Hot-Data capabilities
- Open for communication APP Interfaces
- International eHealth experience
- DeepSee Technology
- Support and Training
- Long Term partnership with Intersystems



Technical implementation

Technical implementation

DeepSee REST-API (available since 2016.1.x)

- %DeepSee.REST.v1
- DeepSee.js - JavaScript Library

Swagger documentation to explore the API

DeepSee REST Client sample page to explore and test the API (DeepSee.RESTClient)

Use any REST client to work with the API

Angular and DevExpress to build the frontend



DeepSee REST-API

API allows to execute

- Calls which return Meta information
 - Examples:
 - Test server connection: (`///<server>:<port>/api/deepsee/v1/<namespace>/Info/TestConnection`)
 - available pivot tables (`///<server>:<port>/api/deepsee/v1/<namespace>/Info/Pivots`)
 - ...
- Calls which return analytics data
 - Pivot tables
 - MDX statements
 - KPIs



DeepSee REST JavaScript Library

Wraps the DeepSee REST-Service

DeepSee.js

- DeepSeeConnector
 - Connect to Business Intelligence data sources
- DeepSeeDataController
 - Work with a Business Intelligence data source
- DeepSeeResultSet
 - Work with the results of a Business Intelligence query
- DeepSeeUtils
 - Additional methods for working with Business Intelligence

Convenient way for Web and JavaScript developers to use the DeepSee REST-API



Summary

Challenges:

- Warm or hot data
- Responsive UI

Solution

- DeepSee cubes / subjects
- DeepSee REST API
- Angular + DevExpress (responsive UI)
 - Desktop
 - Mobile



Q&A

Sven Bertram, Michael Braam

More on Analytics @ Global Summit

Other sessions at the Solution Developer Conference

- Leveraging an Open Analytics Platform - Monday 1PM
- Using NLP for Clinical Decision Making - Monday 4PM - with Aluna Health
- Visualization for Insight - Monday 5PM
- InterSystems IRIS from Spark to Finish - Tuesday 2PM
- Machine Learning, how it works - Wednesday 11AM

Stay on for the **Post-summit symposium on AI & ML** - Wednesday 1:30PM

And even more at the Tech Exchange, on <http://learning.intersystems.com> and <http://community.intersystems.com/tags/analytics>



Please complete the survey in the event app or
text “summit” to 878787

Session recording and slides will be available at:
Learning.InterSystems.com

Search for “Global Summit 2018”

Visit the Tech Exchange to meet with a subject
expert

Key Resources



Online Learning

<https://learning.intersystems.com/>



Classroom Training

<https://intersystems.com/education/classroom.htm>



Developer Community

<https://community.intersystems.com/>



World Wide Response Center

[WRC Link](#)



Emails and Questions

OnlineTraining@InterSystems.com



The power behind what matters.



Thank you.

