

NESOLU

WEB / APP / DEV



ENABLE BUSINESS GROWTH THROUGH DIGITAL INNOVATION



Web & Mobile Applications

WHAT WE DO



Process Optimization through Digital Innovation

We deliver business solutions to a variety of industries since 2009.



Conceptual Design

Great products come from great ideas. We conceptualize original product ideas for our clients or help them bring their own ideas to life.



Web and Mobile Application Development

User centric front and backend execution. iOS / Android with focus on user interface and user experience design.



AI powered Software

Custom created AI models for AI enhanced business applications.

Our Solutions



Resource Planning

ERP time tracking and resource planning tool



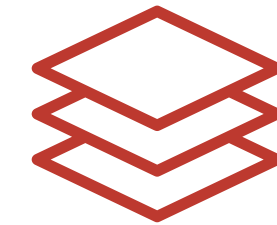
Supply Chain Management

Forecasting and demand planning tool



AI-driven Tools

Neuronal models used to achieve extraordinary tasks



Media Portal

Ensure cohesive brand experience



Brochure Generation

Empower sales force with lead generation tool



E-Learning

Meet curriculum objectives with intuitive learning platform



Course Management

Integrate visual course plan and connect to scheduling tool



Payment Solution

Secure and instant credit card payment options

Our Customers



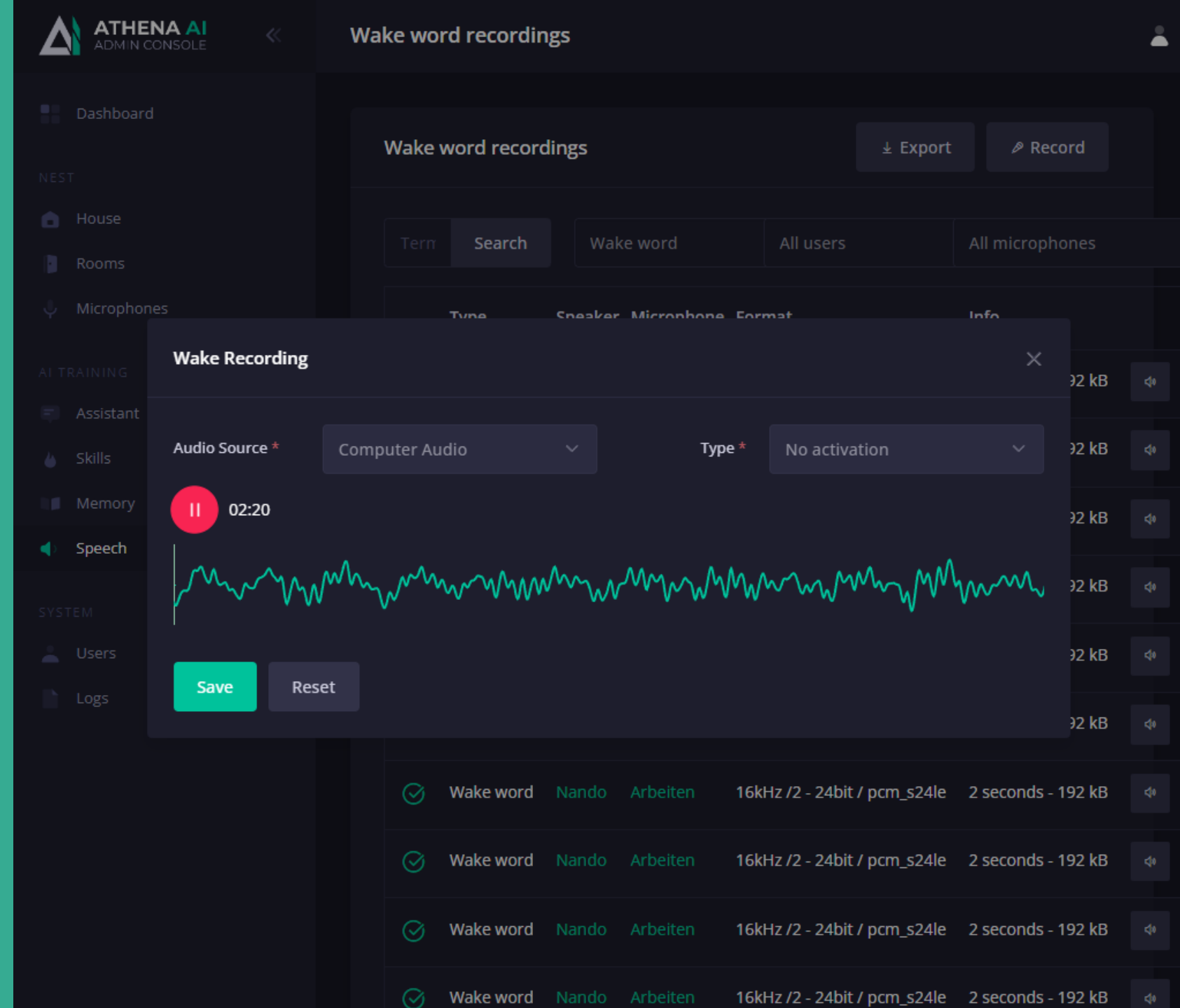
Athena AI

AI powered Software / Reference



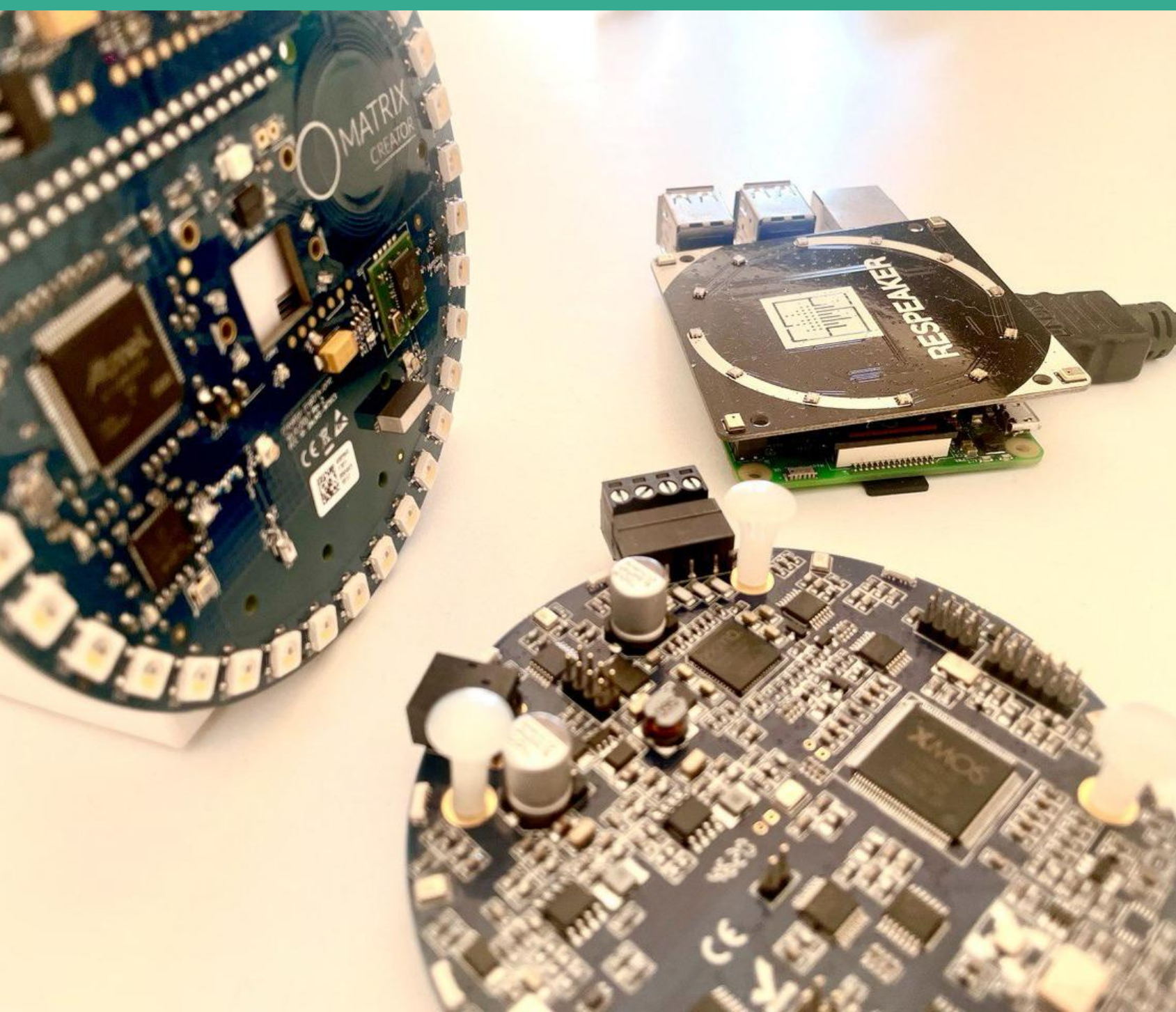
MICROPHONES

Omni directional Microphones that do low energy hotword detection.



WRITE OR SPEAK

Chat with the AI through text or voice and let Athena assist your daily tasks.



PREPARE TRAINING DATA

Use the backend to prepare training data to improve the AI for your home.

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Assistant Test the trained AI model

Athena Model Version 2.1 Alpha
● Active

Athena 29T ago

Hey I'm Athena, how can I help you?

Did my daughter already leave for school or is she still home? If she overslept, please wake her up.

Send ➤

PROJECT / ATHENA AI

DESCRIPTION

SITUATION

AI based home assistant that comprehends the Swiss German language.

SOLUTION

LLM based home assistant that can be hosted completely on premise. Plans complex tasks and keeps context thanks to long time memory embeddings and NLPs.

FEATURES

- ✓ Swiss German Voice Input
- ✓ Realtime transcription to English
- ✓ Task planning and execution with finetuned GPT-J
- ✓ Long time memory with semantic embeddings
- ✓ Text to speech model to output speech
- ✓ Real Time Training by using the voice assistant

IMPACT

Doesn't send private audio data to Google / Amazon. Handles complex conversations like a human and is able to controll multiple connectors like Spotify, LeShop, HUE, Whatsapp and more.

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Product Configurator

Web Application / Reference

PROJECT / VÖGTLIN CONFIGURATOR DESCRIPTION

SITUATION

Vögtlin Instruments AG produces hardware to measure and regulate the flow of a wide range of gases. Their by the sales staff used product configurator tool was outdated and adding needed functionality was not possible anymore.

SOLUTION

Developed a web based responsive and more intuitive product configurator based on the requirements gathered during the collaborative conceptual design phase.

FEATURES

- ✓ Product configuration
- ✓ Implemented Product Administration
- ✓ Graph Drawing
- ✓ Complex Form Validation
- ✓ Generation of unique code
- ✓ New Work Flow Process
- ✓ Checkout & Data Export

IMPACT

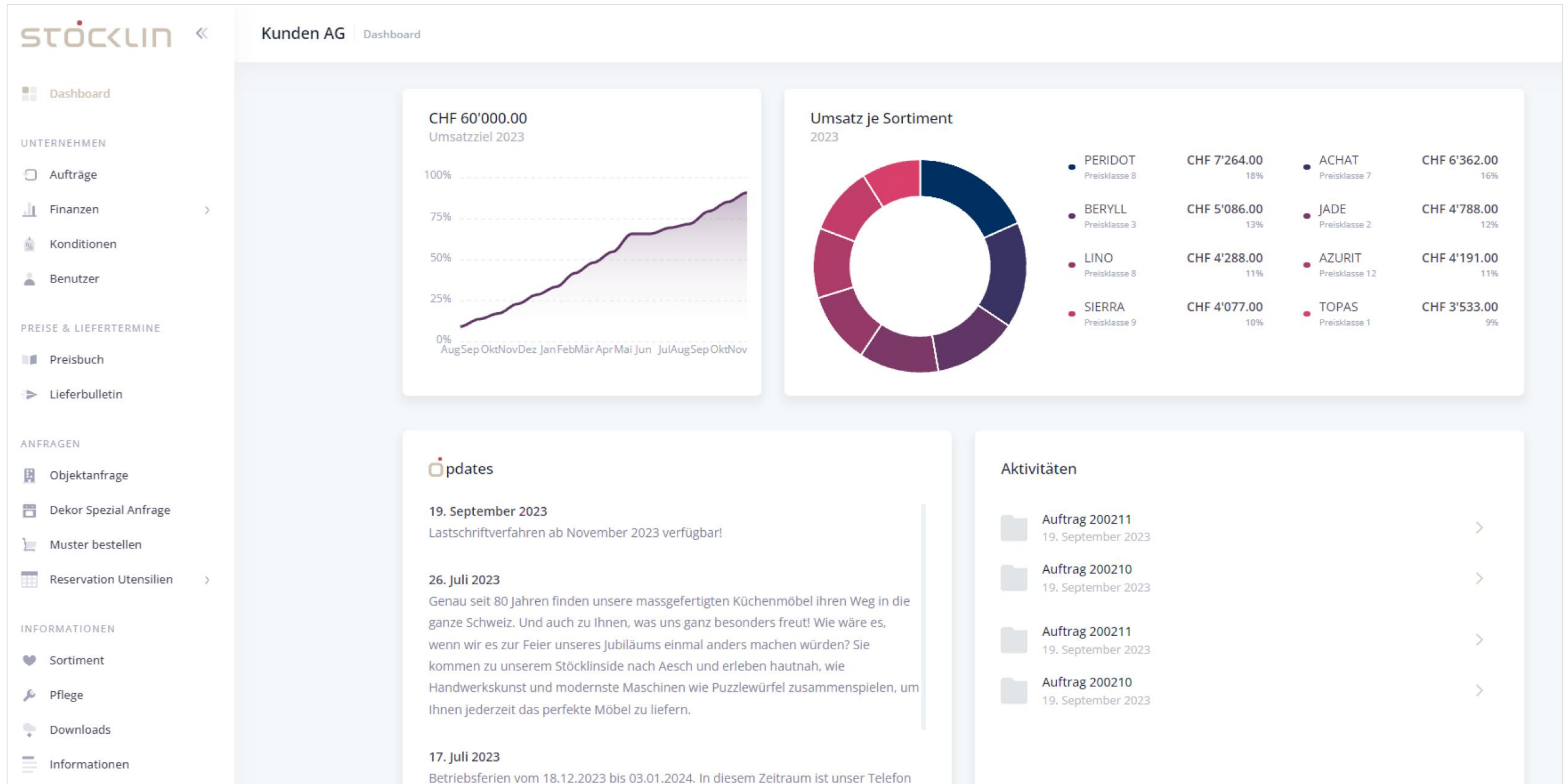
Products and possible configurations can be self-managed, the sales staff saves time during the requirements engineering, requirements are more precise for the production.

B2B Partner Portal

Web Application / Reference

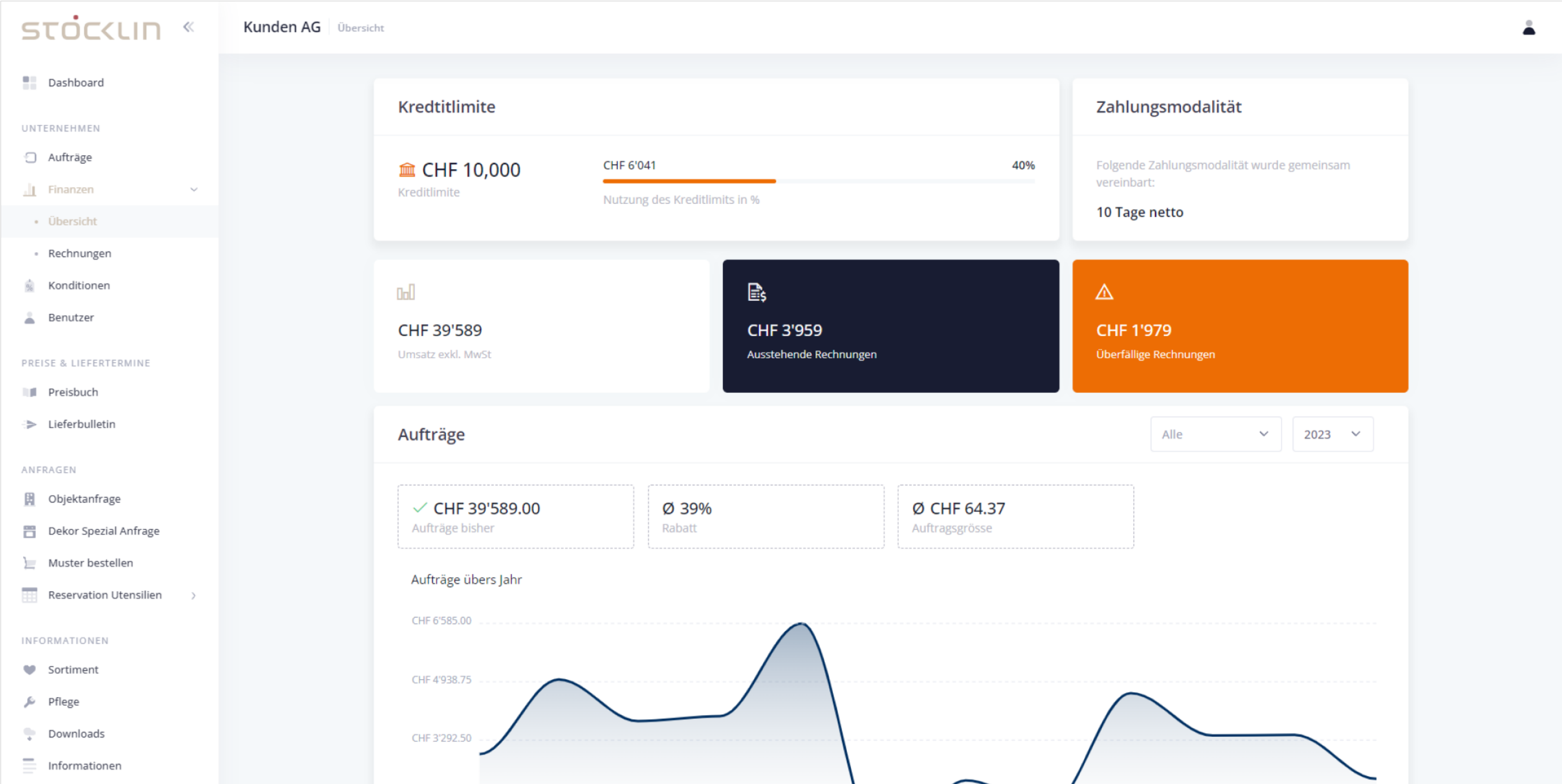
Our Work

B2B Partner Portal



Our Work

B2B Partner Portal



Our Work

B2B Partner Portal

AUFTRAG 200198

IN PRODUKTION

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Belegdatum
20.07.2023

Auftragsbestätigung Nr.200198 Stöcklin Möbel

Gew. Liefertermin
31.07.2023
Versandart
FELIX STANDARD

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Notfalltelefonnr.
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Anzahl Küchen
20
Anzahl Positionen
5
Anzahl Möbel
5

Pos Nr.	Artikel-Nr.	Beschreibung	Menge / Einheit	L/R	Höhe	Breite	Tiefe	Katalog Preis	Rabatt	Betrag (CHF)
01.01	AEH14.166055	Programm: Topas Fronten Farbe: UPAY Papaya Kanten Farbe Fronten: UPAY_LA Korpus Farbe: Korpusgrau	1 Stk.	L	2032 mm	600 mm	552 mm	526.00	40 %	3'156.00

PROJECT / B2B PARTNER PORTAL DESCRIPTION

SITUATION

Stöcklin Möbel AG is a kitchen manufacturer that works closely with kitchen planners throughout Switzerland. Previous communication was based on e-mail and telephone.

SOLUTION

Developed a web based responsive and more intuitive B2B partner portal based on the requirements gathered during the collaborative conceptual design phase.

FEATURES

- ✓ Real-time data directly from the ERP Microsoft Dynamics
- ✓ Proposal & order in real time
- ✓ Financial dashboard
- ✓ Delivery times chart
- ✓ Revenue goal tracking
- ✓ Agreement of terms
- ✓ Product range
- ✓ RFP & other forms

IMPACT

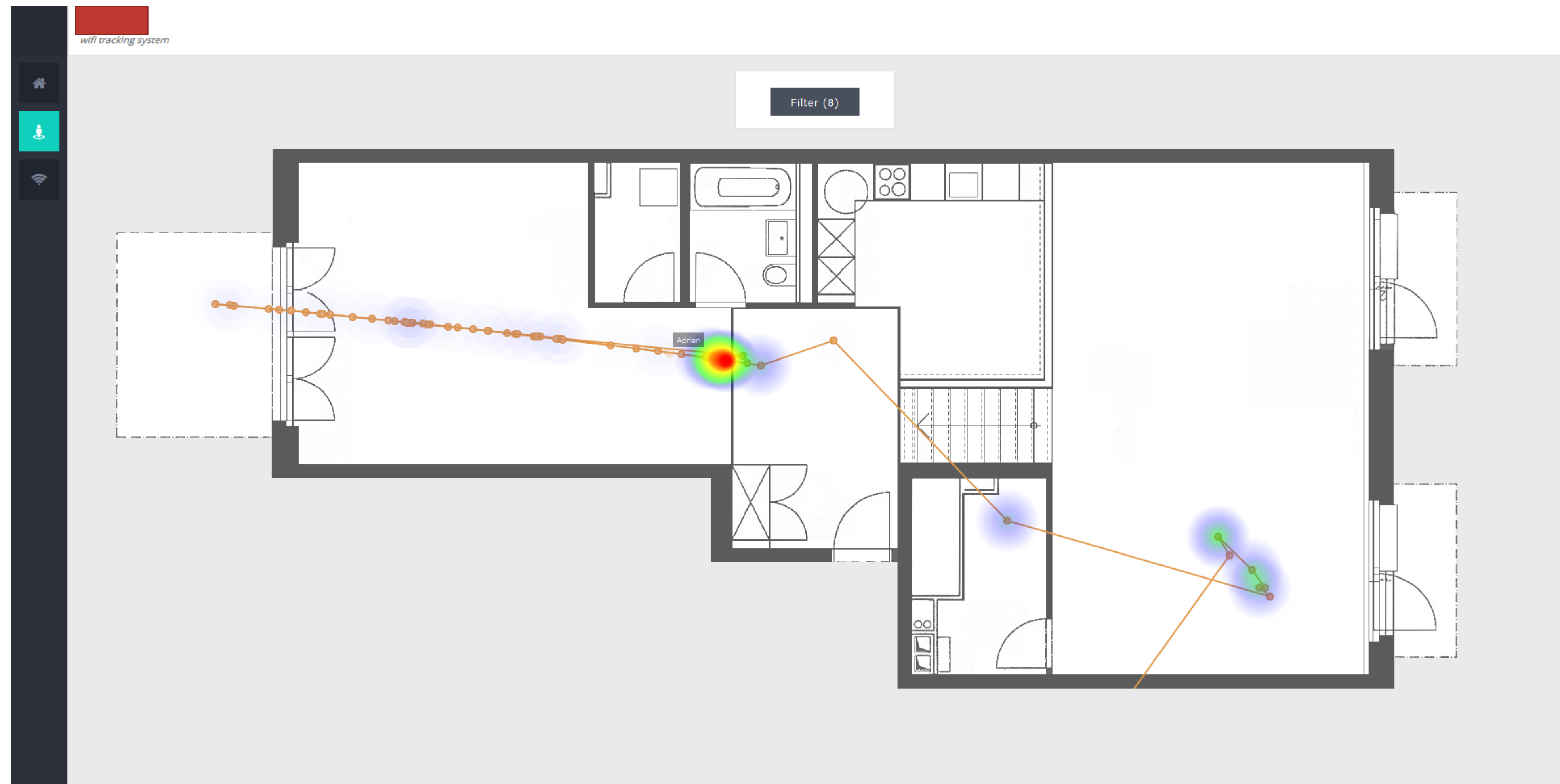
Collaboration has not only become more transparent but has also been raised to a new digital level. Partners benefit from real-time access to their data.

WiFi Tracking

AI powered Software / Reference

Our Work

WiFi Tracking



-  DASHBOARD
-  WIFI TRACKING
-  APP BENUTZER
-  CENTER INFOS
-  STORES
-  EVENTS
-  NEWS
-  CONTESTS / AR
-  STATISTIKEN
-  HILFE / FEEDBACK

ÜBERSICHTVISITOR FLOWHEAT MAPEINSTELLUN

Anzahl Besucher

Jetzt

60

Personen

Ø-Verweildauer

12:30

Minuten

TOP

COOP

+1%

Bereich

Anzahl Besucher

Heute

254

Personen

Im Vergleich zum Ø-Tag

+5%

Anzahl Besucher

Woche

2'462

Personen

Im Vergleich zum Ø-Woche

-2%

Anzahl Besucher

Monat

15'250

Personen

Im Vergleich zum Ø-Monat

-2%

Wiederkehrende Besucher

Woche

Neukunden

70%

1'723

Personen

Wiederkehrende Kunden

30%

739

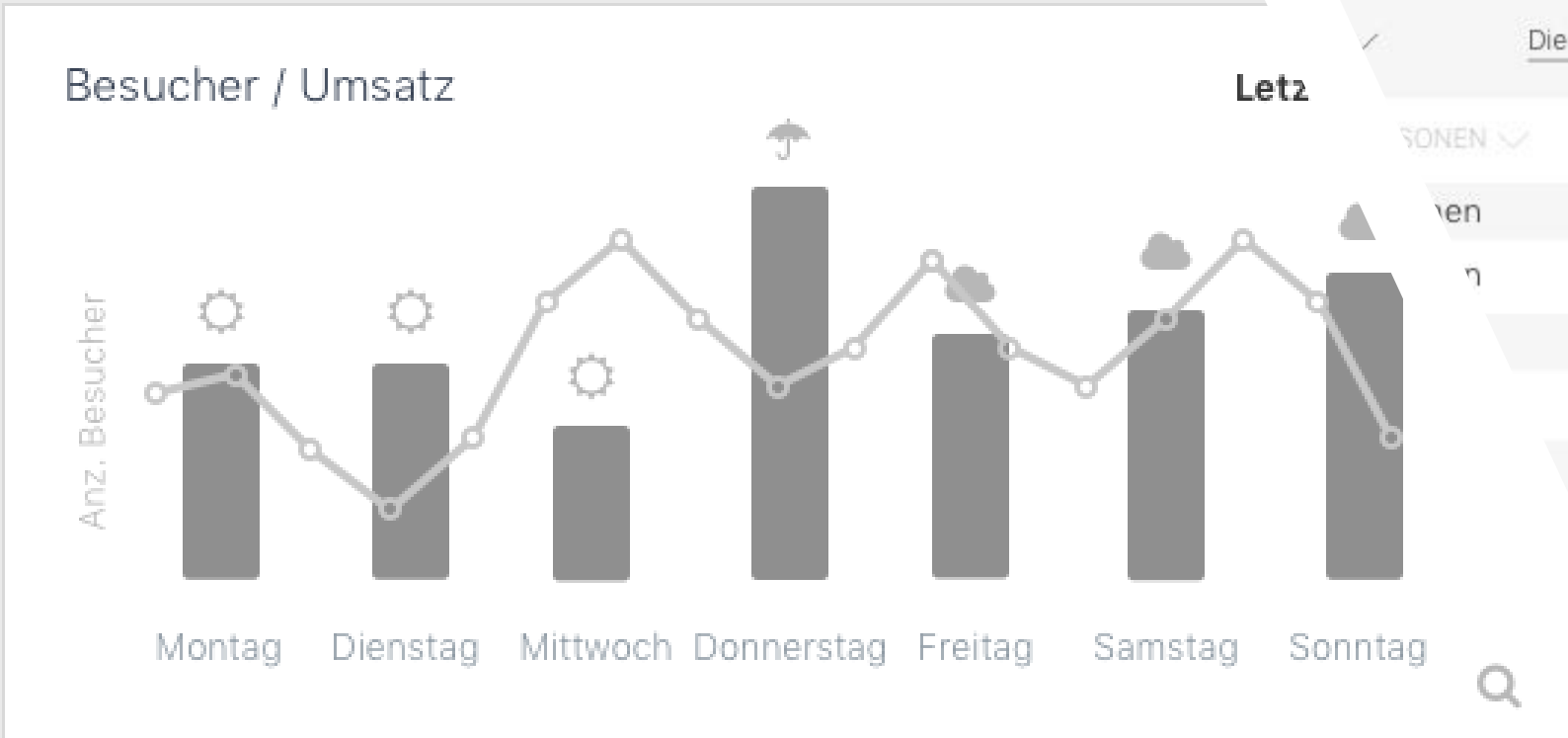
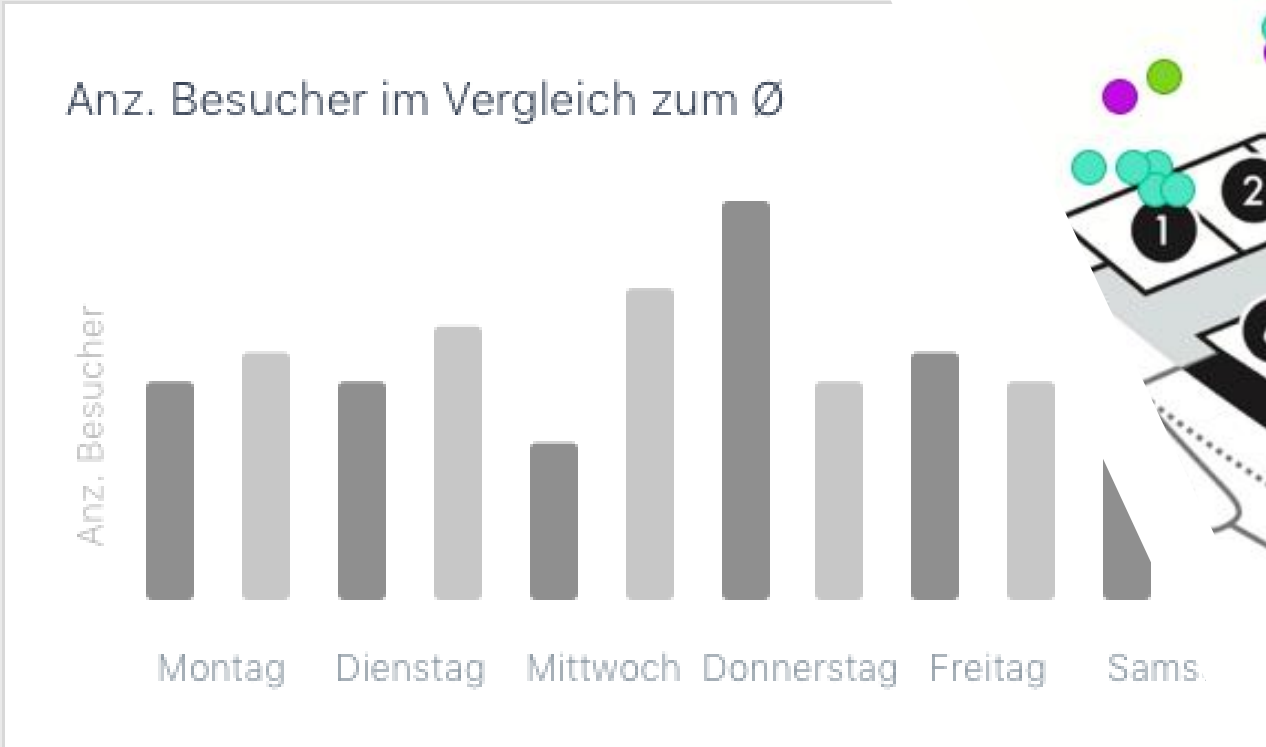
Personen

Mehr...

TagesanalyseExport

W	DATUM	BESUCHER	UMSATZ
⚙	Di, 01.11.2017	123	14'000 CHF
⚙	Di, 01.11.2017	123	14'000 CHF
⚙	Di, 01.11.2017	123	14'000 CHF
⚙	Di, 01.11.2017	123	14'000 CHF

Mehr...



ÜBERSICHTVISITOR FLOWHEAT MAPEINSTELLUNGERÄTE

Heat Map

Stockwerk

Ø-Verweildauer im Center

12:30

Minuten

TOP

COOP

+15%

Bereich

FLOP

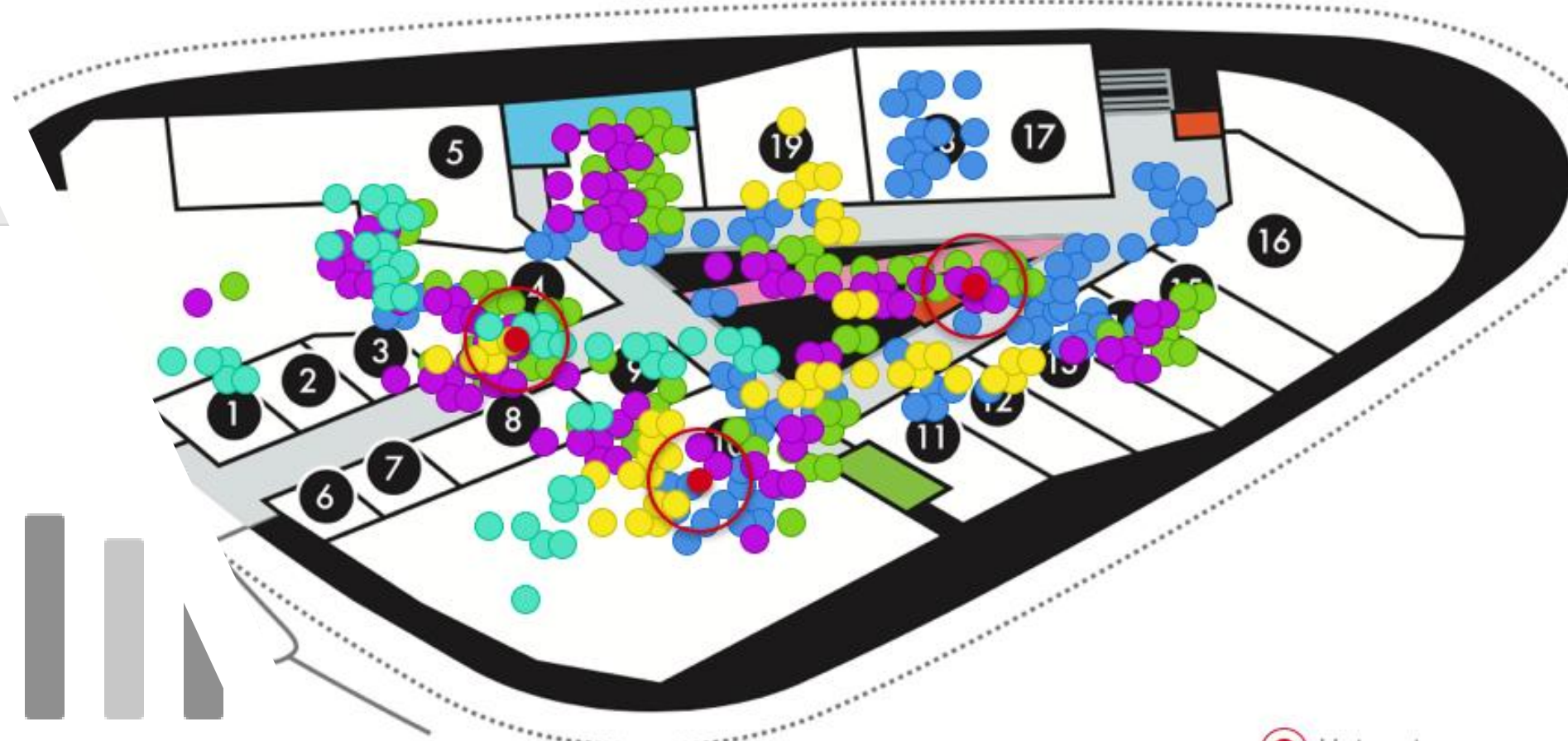
PHARM...

-15%

Bereich

HEAT MAP

PUNKTE



Hotspots Ausblenden

7

Mi 03.12.2017

Do, 04.12.2017

Fr 05.12.2017

Sa 06.12.2017

PROJECT / WIFI TRACKING DESCRIPTION

SITUATION

The stationary shopping industry struggles to keep up with online shopping and thus is forced to take measures to insure customer retention.

SOLUTION

Developed a WiFi tracking solution that tracks customer journeys within shopping centers to analyze what attracts most customers.

FEATURES

- ✓ Customer flows
- ✓ Heatmaps / Clusters
- ✓ In-depth Statistics
- ✓ Reporting features

IMPACT

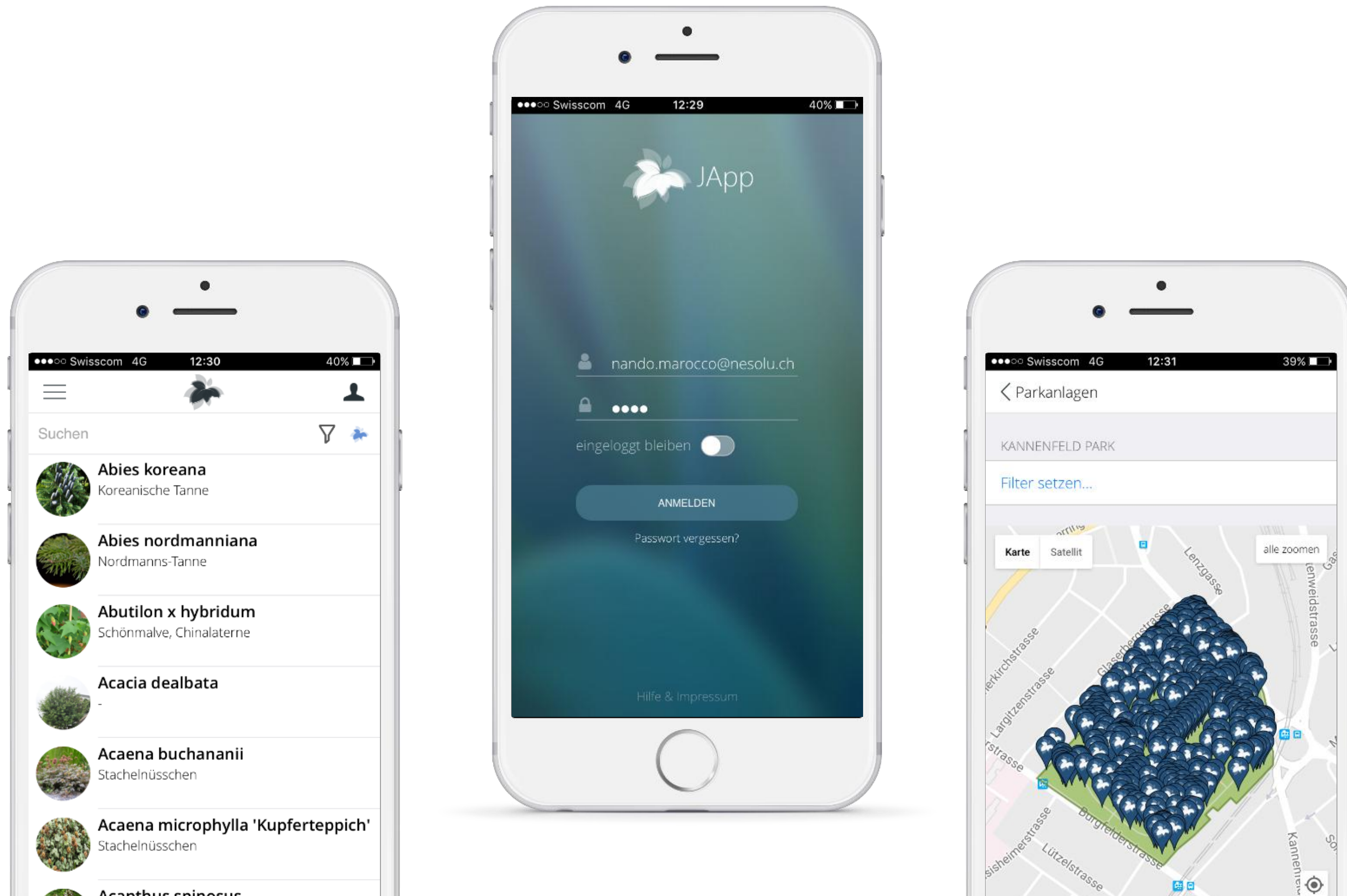
Owner of shopping center now has an appropriate toolbox to analyze measures that have been put in place.

E-Learning

AI enhanced Web & Mobile Application / Reference

Our Work

E-Learning App



PROJECT / JAPP DESCRIPTION

SITUATION

The student failure rate among gardening apprentices is one of the highest in various industries, with nearly 50% failing their final exams. This is a result of non-standardized syllabi / course materials that teachers implement as they see fit.

SOLUTION

Developed a digital e-learning tool to enable a consistent curriculum for future gardeners.

FEATURES

- ✓ E-Payment integration
- ✓ Scalable architecture supports thousands of students
- ✓ Machine-learning algorithms
- ✓ Platform agnostic (Android, IOS, Windows / Desktop, Tablet and Smartphone)

IMPACT

We reduced student failure rate by 50% and the app has become the official learning app of the Swiss Gardener Association.

Resource Planning Tool

Web Application / Reference

Our Work

Resource Planning Tool



PROJECT / ERP DESCRIPTION

SITUATION

The service industry, and gardeners in particular use manual processes to manage customers, leading to inefficiencies and human errors.

SOLUTION

Developed a custom enterprise resource planning tool to automate all business processes for gardeners.

FEATURES

- ✓ Resource / Gant-Scheduler / Task planning
- ✓ Work-time tracking and holiday / overtime calculation
- ✓ Customer management
- ✓ Offer and bill management
- ✓ Reporting features

IMPACT

Saved 110 work days / year enabling business efficiency and reducing manual errors.

Supply Chain Management

Web Application / Reference



PROJECT / MEPHA SCM DESCRIPTION

SITUATION

Demand planning of medications was unreliable with frequent stock-outs, driven by manual excel sheet tracking.

SOLUTION

We digitalized the demand planning process, integrating with SAP and evolving the platform into a web-app.

FEATURES

- ✓ SAP integration
- ✓ Stock-out prevention alerts
- ✓ Analysis of lost sales and opportunity costs
- ✓ LDAP integration to Mepha infrastructure
- ✓ Reporting features

IMPACT

The entire company now works with the same platform, ensuring transparency, accuracy and efficiency.

Digital Signage

Web Application / Reference

Our Work

Digital Signage



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PROJECT / EOTEC DIGITAL SIGNAGE DESCRIPTION

SITUATION

EOTEC wanted to offer a digital signage solution to its customers that allows for simultaneously presenting different content on multiple displays (i.e. displays at reception, meeting room, cafeteria) and can easily scale in numbers of customers.

SOLUTION

Developed a centralized cloud based digital signage solution with an intuitive client management system that allows for creating a new dedicated system for client with one click.

FEATURES

- ✓ Managing Customers & Displays
- ✓ Creating Records & Playlists
- ✓ Planning ahead
- ✓ Offline Caching
- ✓ Secure Licensing System

IMPACT

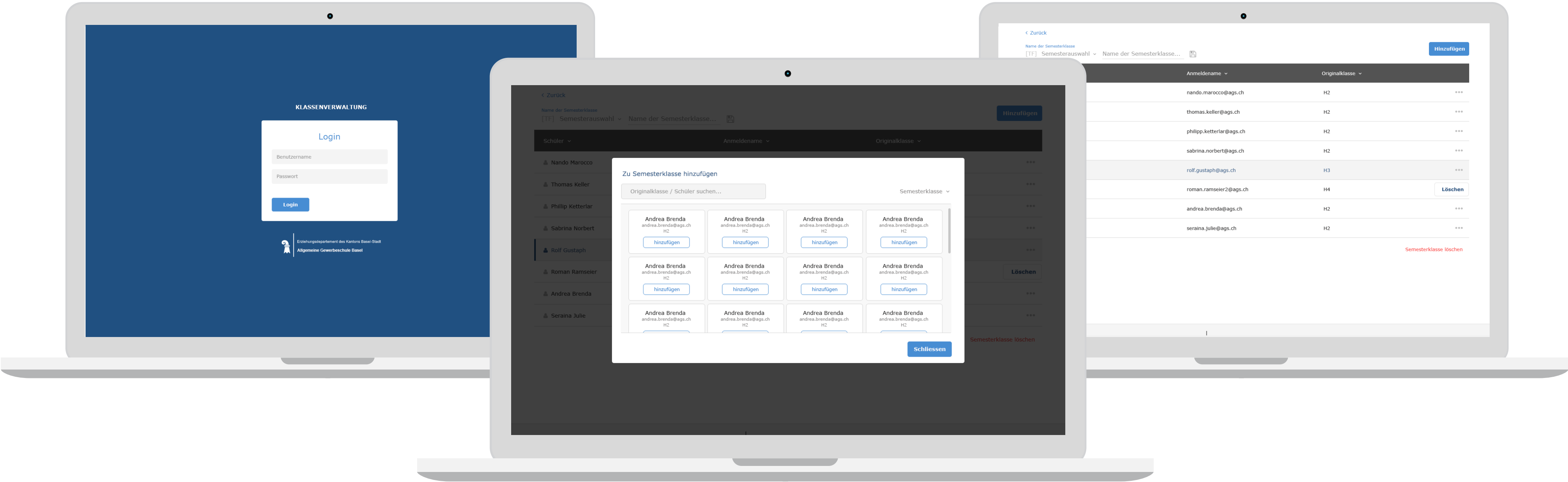
EOTEC has a digital signage tool that can be licensed to an unlimited amount of customers.

School Class Management

Web Application / Reference

Our Work

School Class Management



PROJECT / SCHOOL CLASS MANAGEMENT DESCRIPTION

SITUATION

The Allgemeine Gewerbeschule Basel-Stadt uses a class management tool that does not allow for creating individual exam classes with students from different classes.

SOLUTION

Developed standalone tool that imports classes and students from existing internal tool, allows for the creation of individual exam classes and exports these back to the internal tool.

FEATURES

- ✓ Synchronisation of Students and Classes from internal Tool
- ✓ Administration of Classes
- ✓ Creation of Individual Exam Classes
- ✓ Role based Permission System
- ✓ Active Directory based Login

IMPACT

The administration of exam classes became much easier and processes that used to need manual interaction could be successfully eliminated.

Order Form

Web Application / Reference

Our Work

Order [Form](#)

**IVB**
BEHINDERTENTRANSPORT

1

2

3

4

Transport definierenTransport wählenBestelleradresseBestellübersicht

Transport wählen



Medzinischer Patiententransport sitzend

Anfahrt0 km
Fahrstrecke3 km

85.00 CHF
Pauschalbetrag CHF 85.00

Auswählen

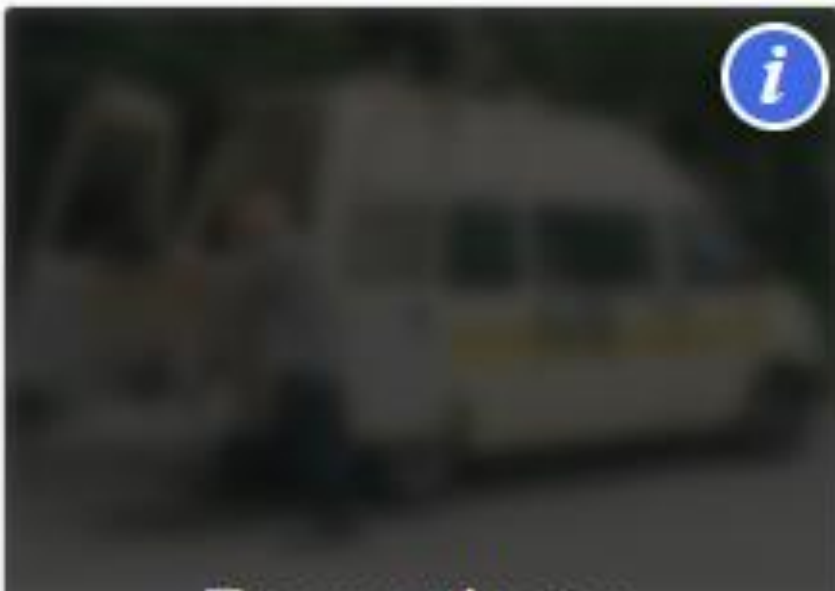


Medzinischer Patiententransport liegend

Anfahrt0 km
Fahrstrecke3 km

135.00 CHF
Pauschalbetrag CHF 135.00

Auswählen



Transportkosten übernimmt eine Kasse

Ja

Fragen

PROJECT / IVB ORDER FORM DESCRIPTION

SITUATION

Customers of IVB had to email or call in for ordering transportation for people with a disability.

SOLUTION

Developed an intuitive interactive ordering form connected with google services for distance calculation.

FEATURES

- ✓ Address Validation
- ✓ Price Calculation based on Selected Service, Distance, Time and Special Rules
- ✓ Binding Ordering
- ✓ Order E-Mail Notification

IMPACT

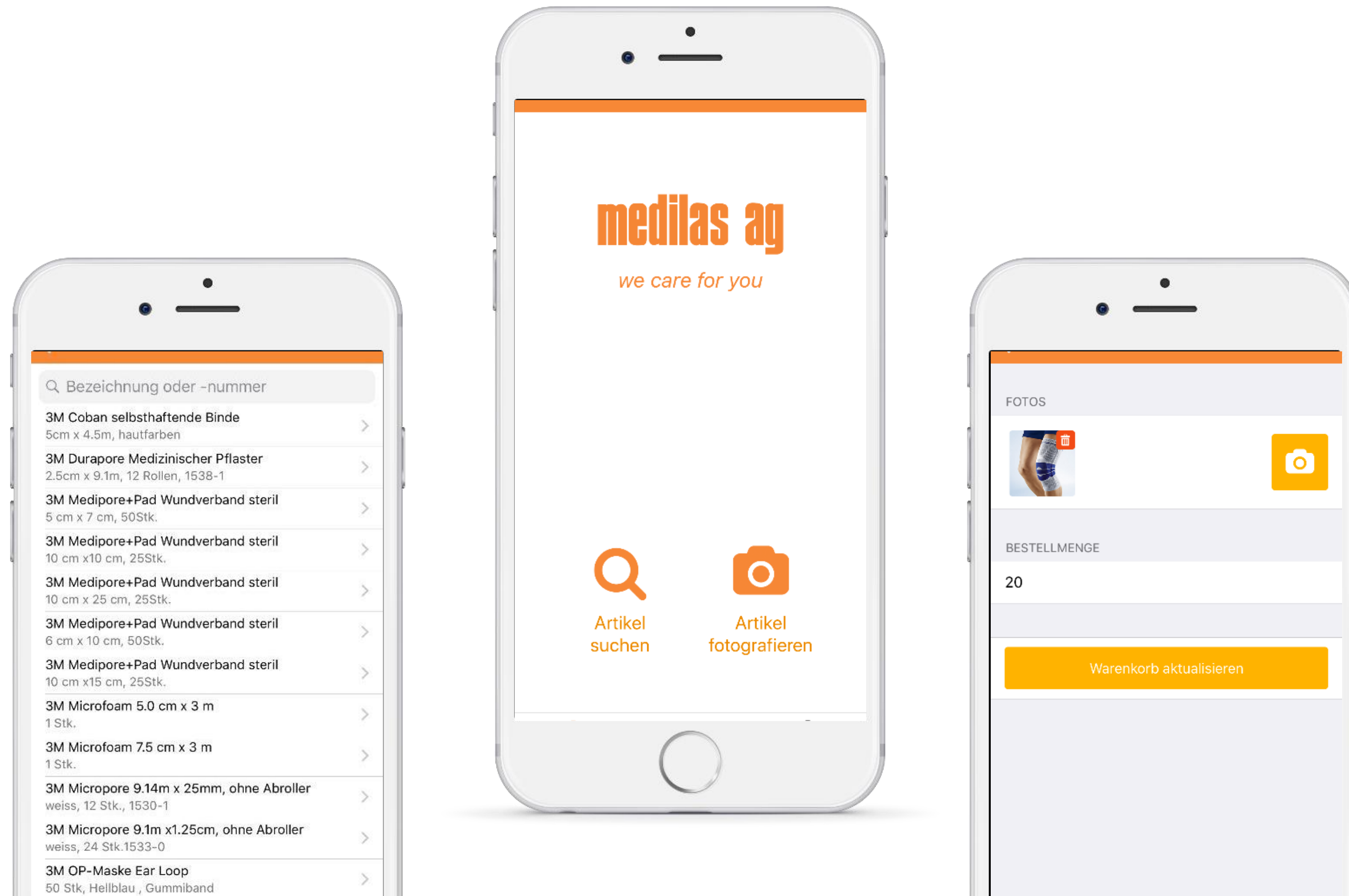
Less emails and calls, easier handling of requests, more precise and transparent price calculation for customers.

Logistics App

Mobile Application / Reference

Our Work

Logistics App



PROJECT / SWISSMEDLOGIC APP

DESCRIPTION

SITUATION

SwissMedLogic offers logistics services to hospitals and medical institutions. Reorders were requested by customers manually either by email or phone call.

SOLUTION

Developed mobile app that holds entire product list and easily allows for reordering stock. Products can be searched via search bar or even easier by scanning the bar code. Special products can be reordered by uploading a picture.

FEATURES

- ✓ Product List
- ✓ Search bar
- ✓ Barcode Scanner
- ✓ Picture Upload
- ✓ E-Mail Notification

IMPACT

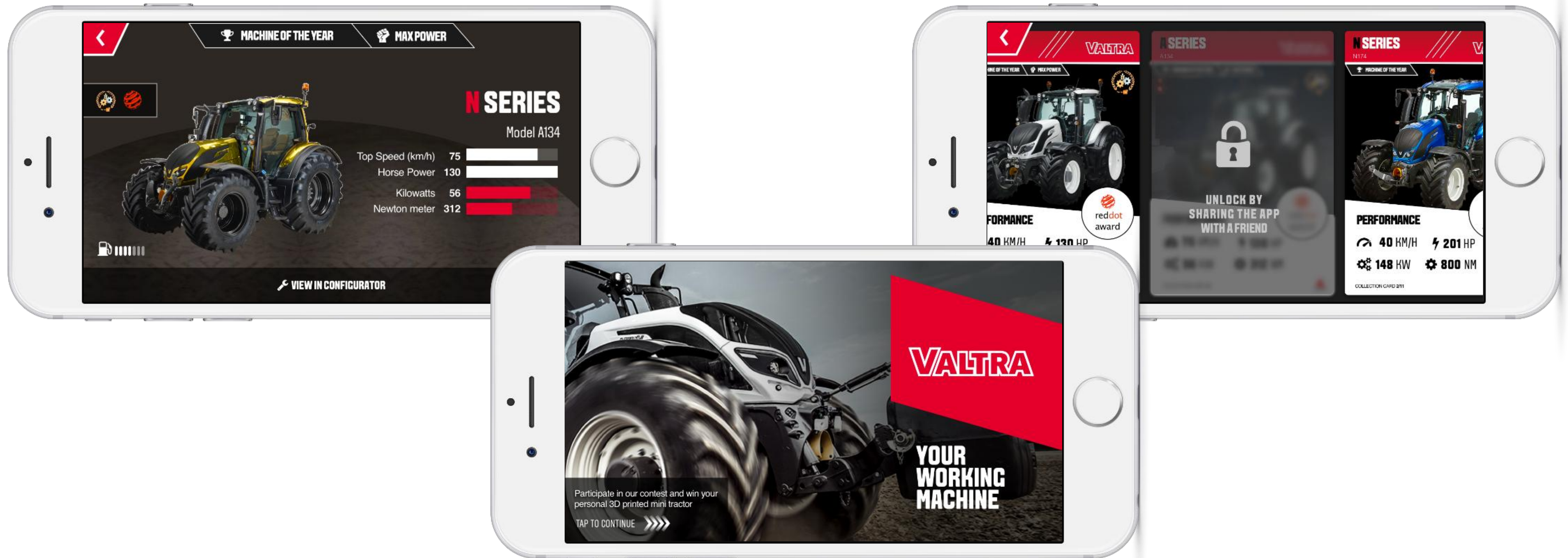
The process of reordering products became much easier for the customers. Also the internal process of reorders was streamlined and became more time efficient.

3D Configurator App

Mobile Application / Reference

Our Work

3D Configurator App



PROJECT / VALTRA 3D CREATOR APP

DESCRIPTION

SITUATION

Valtra, the international manufacturer of tractors and agricultural machinery, wanted to make their customer base more aware of their innovative concept “Unlimited Studio” which allows for full customization of tractors.

SOLUTION

Developed a 3D mobile app based on the cross-platform real-time engine Unity.

FEATURES

- ✓ 3D Tractor Models & Environments
- ✓ Rotation & Configuration of Parts
- ✓ In App Video Content
- ✓ Game Sense through Unlocking
- ✓ Contest → Data Collection

IMPACT

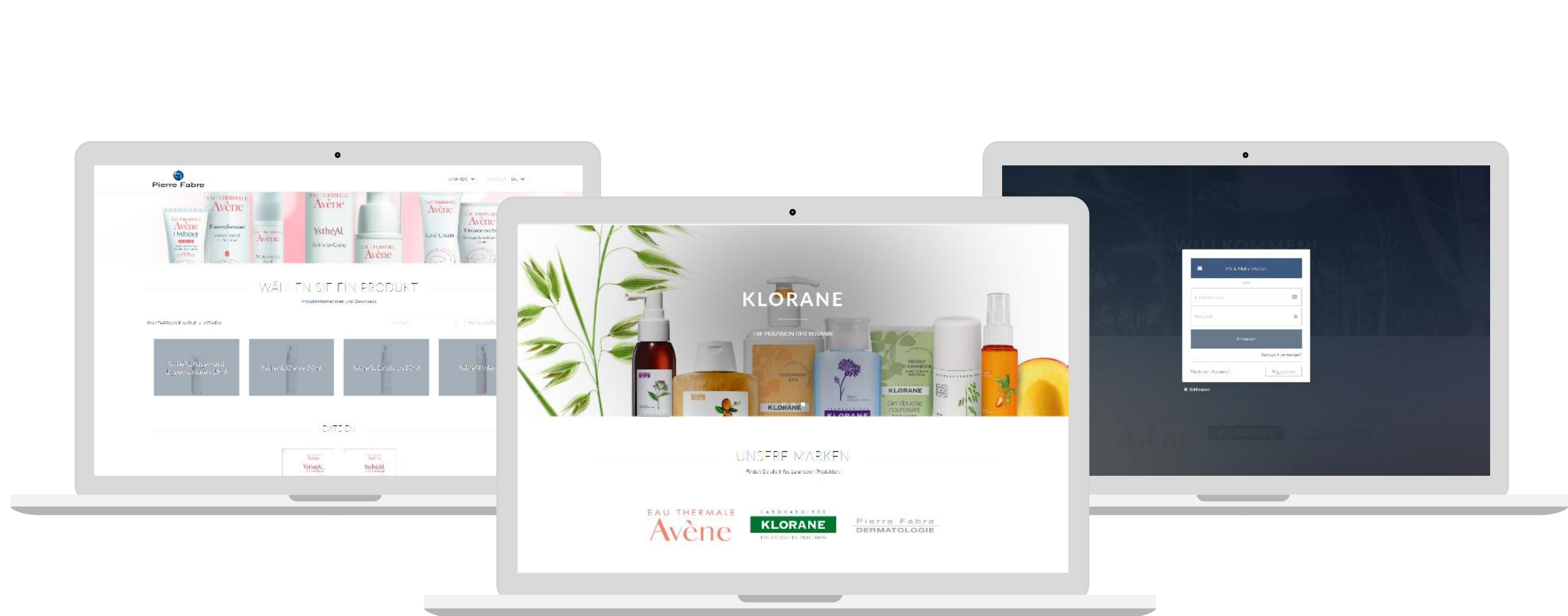
The concept „Unlimited Studio“ that allows for full customization of tractors was communicated to the immense customer base of Valtra.

Media Portal

Web Application / Reference

Our Work

Media Portal



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PROJECT / PIERRE FARBRE MEDIA PORTAL DESCRIPTION

SITUATION

Manual sharing mechanism of press materials and brand assets led to an inconsistent brand experience.

SOLUTION

Created a media platform to facilitate a consistent brand sharing experience with internal and external stakeholders.

FEATURES

- ✓ Single Sign-on for journalists
- ✓ Upload and download feature for pack shots and assets
- ✓ Access to entire product portfolio
- ✓ User behaviour based cross-selling
- ✓ Event planning for promotional activity
- ✓ Reporting and statistics of downloads and user behaviour

IMPACT

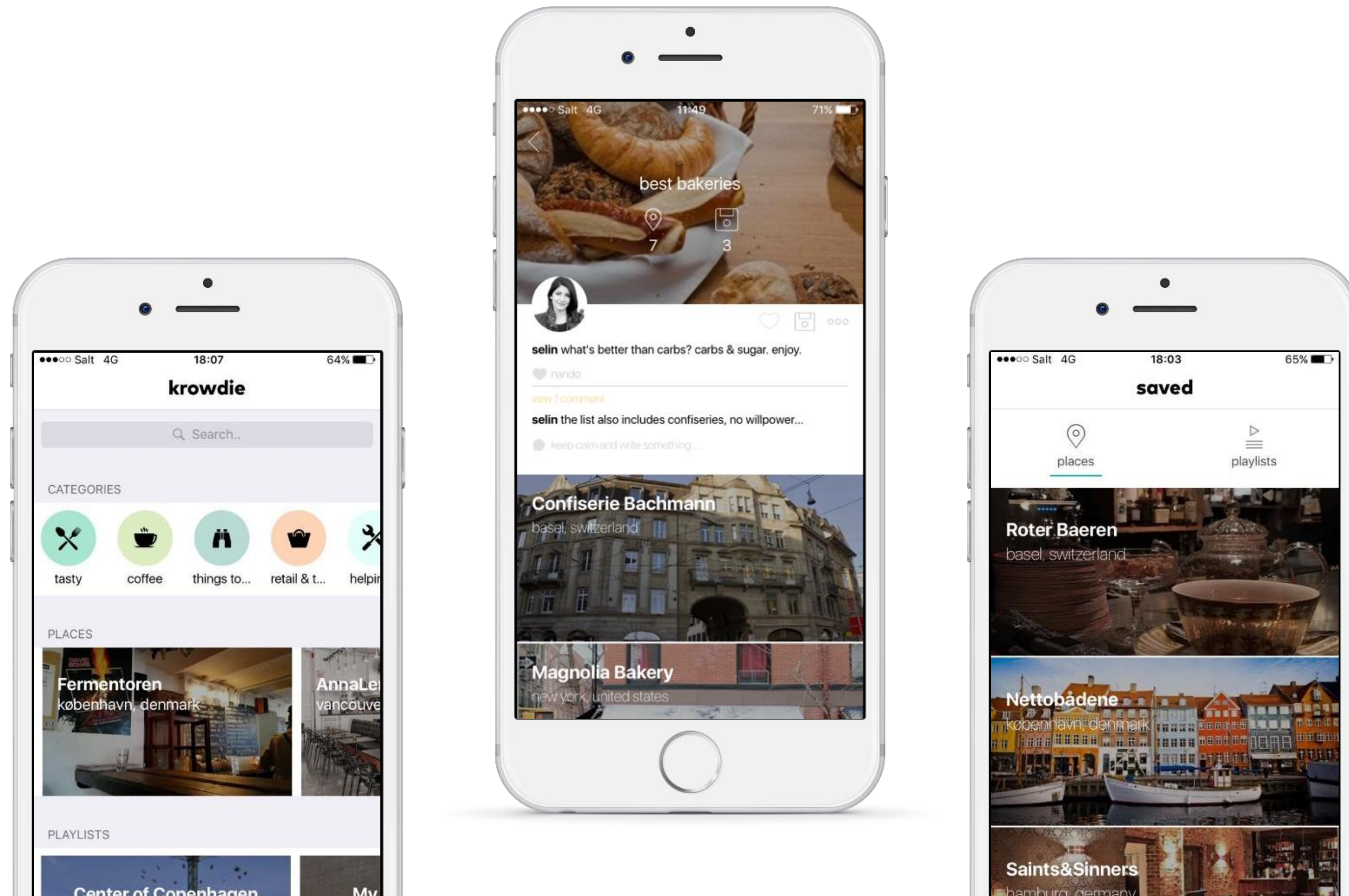
Improved usability, higher journalist engagement and up-to-date information exchange.

Employee Engagement

Mobile Application / Reference

Our Work

Employee Engagement



PROJECT / KROWDIE

DESCRIPTION

SITUATION

Word of mouth is part of our social DNA, and a part of how we make decisions. The average person has 16 word of mouth conversations a day and according to a recent Nielsen study, 74% say word of mouth is most influential in their purchase decisions. Yet, there is no digital platform supporting this authentic word of mouth, specifically for the workplace.

SOLUTION

Conceptualized and developed a lifestyle engagement app for the workplace, focusing on recommendations - powered by your friends at work.

FEATURES

- ✓ Contact synch mechanism that connects co-workers automatically
- ✓ Intuitive UI / UX that lets users discover, share and save relevant recommendations with their colleagues
- ✓ Playlist generation feature allows curated lists to be shared in and out of app

IMPACT

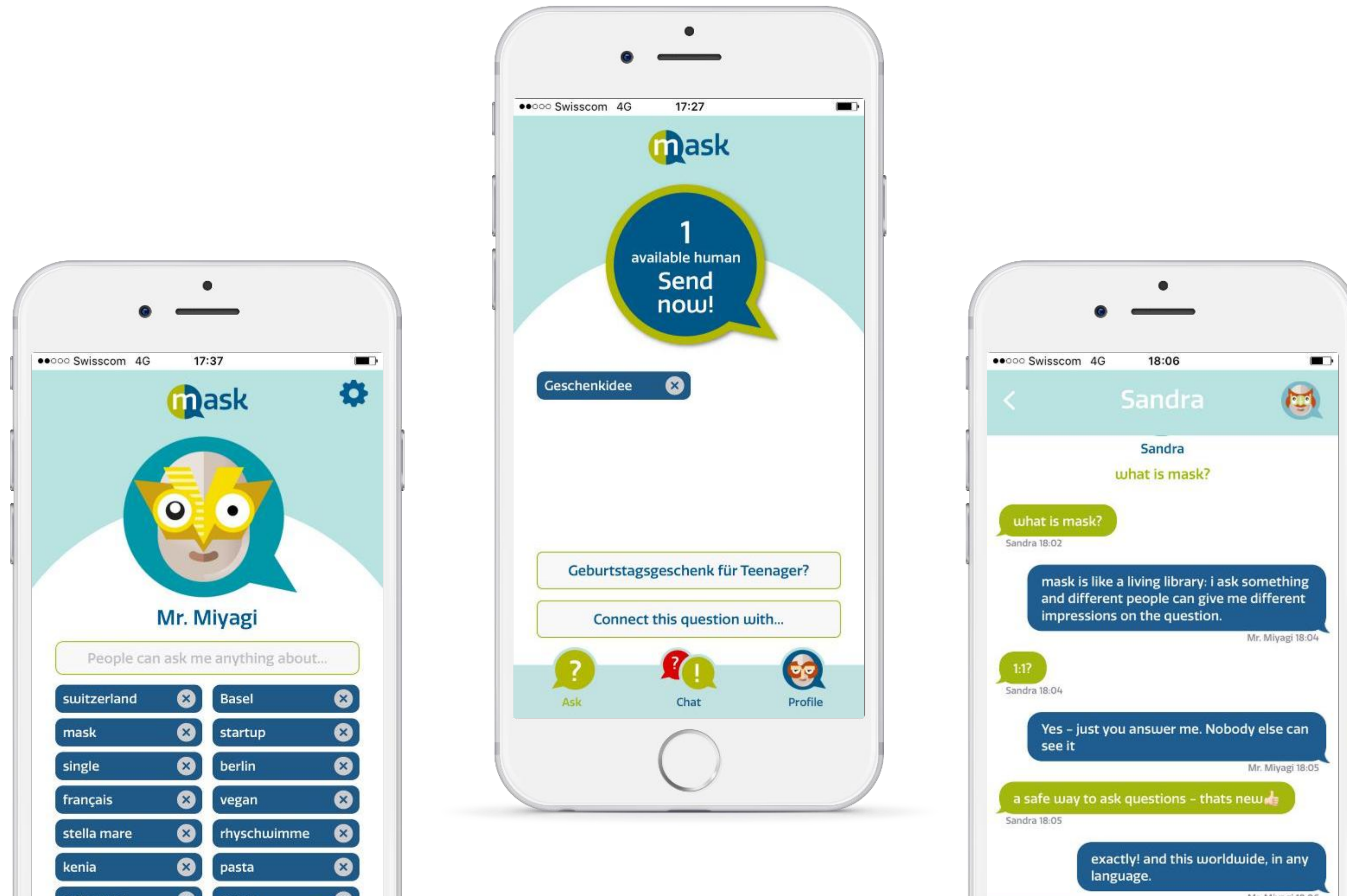
Tested app with 100 users, generating over 6000 sessions and nearly 600 recommendations, in three months. Currently in talks with potential clients.

Crowd Knowledge

Mobile Application / Reference

Our Work

Crowd Knowledge App



PROJECT / **ASK MASK** DESCRIPTION

SITUATION

In the age of google and static knowledge platforms, there is a need for an alternative human-to-human information exchange.

SOLUTION

Developed a platform that connects users with relevant experts to answer their questions.

FEATURES

- ✓ Crowd-knowledge sharing platform
- ✓ Users can have real one-to-one conversations with an expert
- ✓ Skill-based expert search, supported by complex algorithms

IMPACT

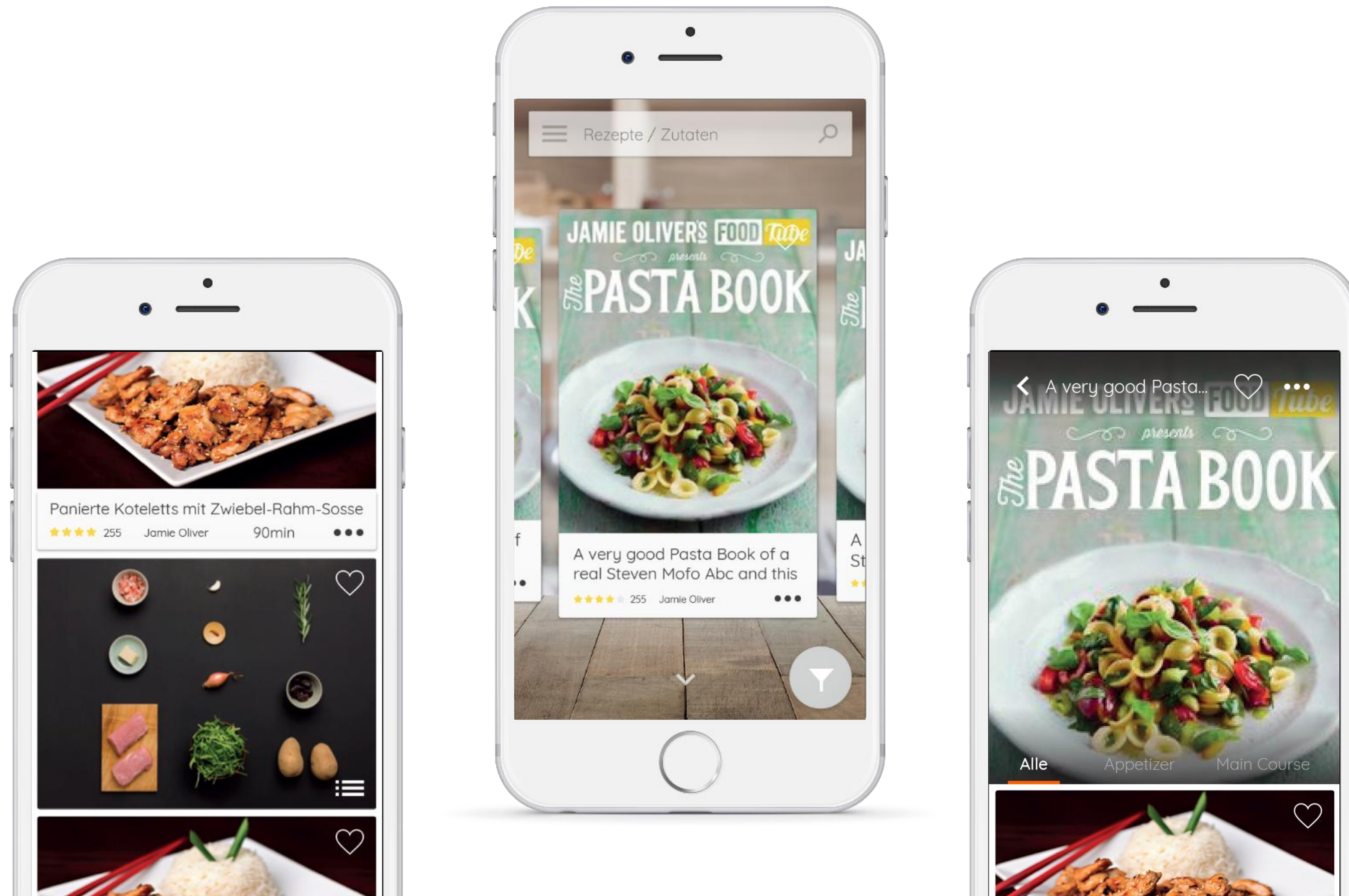
10'000 messages exchanged in the first three months.

Video Streaming

Mobile Application / Reference

Our Work

Livestreaming Cookbooks



PROJECT / TENDOO

DESCRIPTION

SITUATION

While cookbooks are immensely popular, they are not practical when it comes to actual cooking.

SOLUTION

Delivered a digital platform for cookbooks, collaborating with star cooks to enable video streaming of recipe methodology.

FEATURES

- ✓ Video-streaming
- ✓ Voice-recognition for video commands
- ✓ Scalable platform for many concurrent users
- ✓ Content delivery network
- ✓ Admin-Interface for content management and distribution

IMPACT

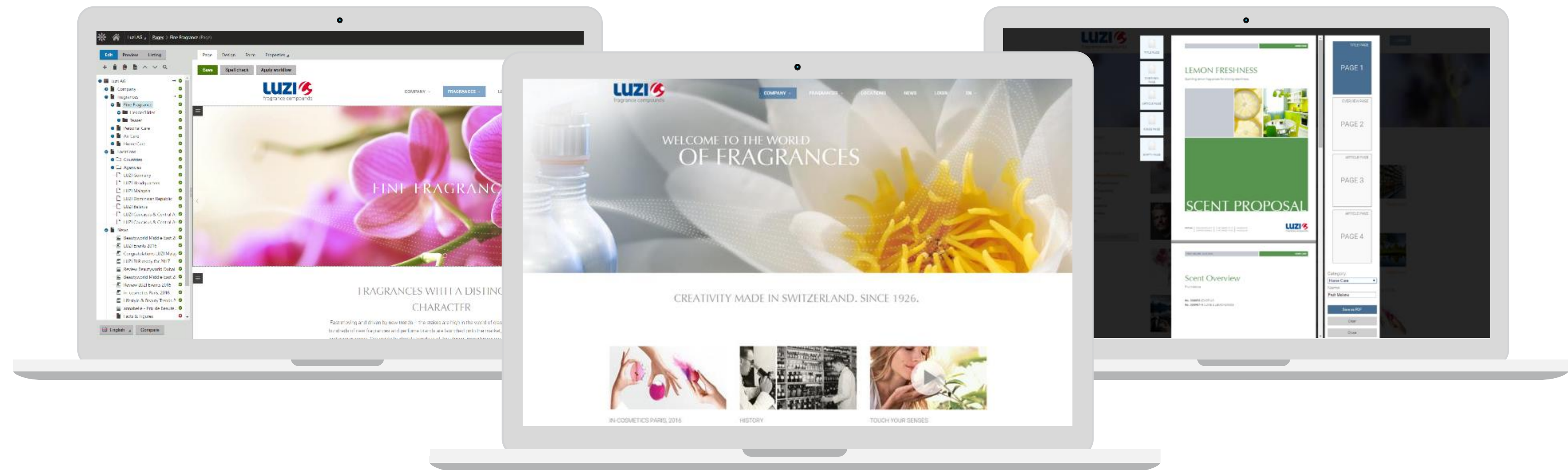
Collaboration with large culinary organizations and FMCG companies.

Corporate Web Identity / CMS

Website & Content & SEO / Reference

Our Work

Corporate Web Identity & Enterprise CMS



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PROJECT / LUZI AG

DESCRIPTION

SITUATION

High-traffic from B2B partners and potential clients coupled with an outdated website, led to poor conversion rates. Complex extranet required direct integration to an internal product database.

SOLUTION

Launch web presence with cloud application and enterprise CMS, simplifying and unifying the B2B experience.

FEATURES

- ✓ Data warehouse integration
- ✓ Agile offer and pdf generation
- ✓ Scalable platform for many concurrent users
- ✓ Consistent corporate identity
- ✓ Complex content editing and publishing workflows

IMPACT

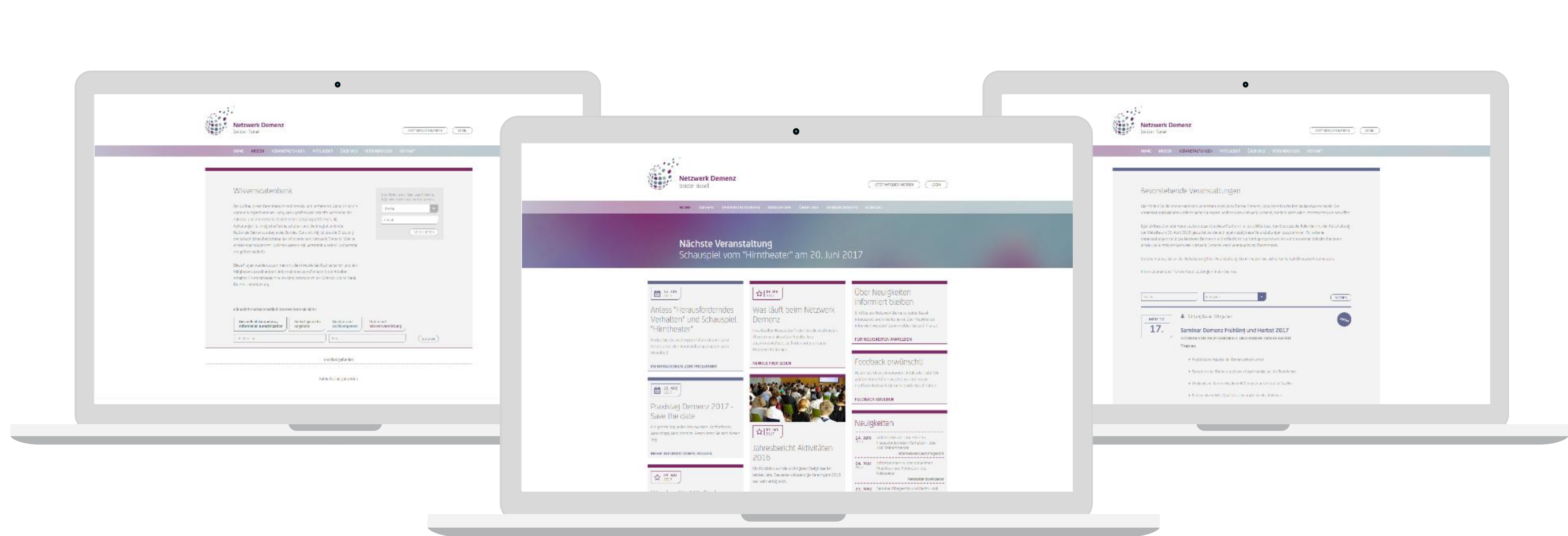
Improved lead generation and empowered sales force with dynamic sales tools.

Knowledge Database

Website & Content / Reference

Our Work

Knowledge Database / Wiki



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PROJECT / NETWORK FOR DEMENTIA DESCRIPTION

SITUATION

With little standardized knowledge in the care of dementia patients, many health care professionals find themselves unsure and untrained in how best to provide care.

SOLUTION

Developed a knowledge sharing platform to support better care for dementia patients and enable exchange of best practices in the medical industry.

FEATURES

- ✓ Intuitive search algorithm
- ✓ User feedback / ratings to support best practice exchange
- ✓ Topic based notifications
- ✓ Complex content editing and publishing workflows

IMPACT

Improved information exchange between health care professionals, with over 400 active members.



CONTACT US

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