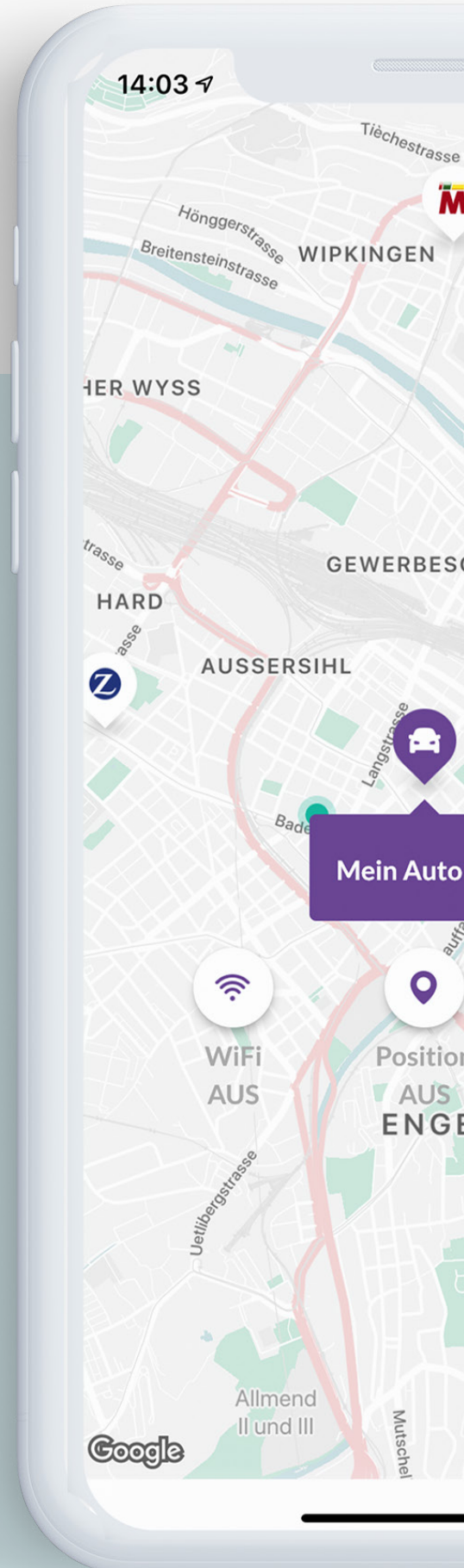# autoSense

Company

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Industry: Sensors, Mobility
Location: ZH, Switzerland
Foundet: 2018
Employees: 25+

autoSense:
A Digital Assistant for Your Car

autoSense is a company of Swiss-com (Schweiz) AG, AMAG Group AG and Zurich Versicherungs-Gesellschaft AG and has been established on the market for five years.

By means of digital networking of road users with their vehicles, autoSense enables more efficient and safer mobility.

autoSense is developing a com-prehensive portfolio of solutions for private individuals and fleet managers around the smart con-nectivity of cars as well as new, innovative e-charging complete solutions. With the help of a digital assistant, users can benefit from a wide range of services from an open ecosystem.

Data-Based Services for Everything to Do With Cars

By networking their car, autoSense users can easily access data such as driving behavior, CO_2 consumption, logbook, vehicle location or vehicle diagnostics. Building on this, functions such as data-based vehicle valuation, CO_2 compensation and a leasing assistant to avoid additional costs are available.

This comprehensive offering is rounded off by services from the ecosystem: autoSense offers usage-based insurance solutions, cashless refueling and charging, and a digital garage service that promises safe and worry-free mobility based on diagnostic data.

To enable this rich portfolio of features and services for numerous Swiss fleets and individuals while maintaining the highest level of data security, autoSense has relied on the AWS public cloud for its IoT solution for 4 years.

Two-Year Success Story
With copebit

autoSense and copebit - a partnership that began operationally two years ago. To the best of its ability and using in-house structures and its own staff, autoSense built its first cloud environment on Cloud Foundry to run numerous microservices and databases. Actually, everything always went well until autoSense decided to migrate to AWS three years ago to improve the scaling and expansion of its cloud services. After the migration, some core services did not behave as expected.

autoSense was looking for a specialized AWS partner who, in addition to providing in-depth consulting, could work with the team to address operational challenges, improve performance, optimize the overall environment, and increase availability.

autoSense decided to contact copebit based on a recommendation from their personal environment. copebit's first step was to analyze the existing setup and optimize processes to identify where the greatest potential for improvement lay.

During the first days, copebit worked with the autoSense team to improve performance and planned several steps to increase stability.

The quality that copebit demonstrated impressed those responsible at autoSense, and an operating contract was quickly agreed upon.

Next Steps: Security and Infrastructure as Code (IaC) With Cloud Formation

Since the next focus was on increased security without compromising development flexibility, the existing autoSense AWS account was integrated into a new control tower to be able to build a segmentation with multiple accounts in parallel without limiting the productive workloads.

copebit›s well-architected setup, split into different accounts with different environments, enables workloads to be executed more securely as well as faster and provided more stably - a step on the way to the cloud that is already creating reliable performance in many projects.

In the course of this, copebit relies on Infrastructure as Code (IaC). autoSense Chief Technology Officer Sachin Mittal says: "This was the absolute «killer feature.» We can now build all our microservices ourselves, and copebit has ensured that our performance is maintained. We are now at over 50 microservices, and the use of CloudFormation templates allows us to set up all services in a consistent way and control infrastructure resources centrally. What a win for our agility and productivity!"

Since autoSense offers a lot of innovation, new services are being added all the time. Re-establishing them on AWS with IaC is very simple with the help of a short checklist and easy-to-use instructions. All that is needed is the code. Marc Schmuki, Cloud Architect at copebit and Partner, says: "Standardized processes deliver fast growth for most projects, largely independent of the service provider. It›s only when the standards no longer give enough leeway or project staff are not sufficiently trained that a new iteration is needed here."
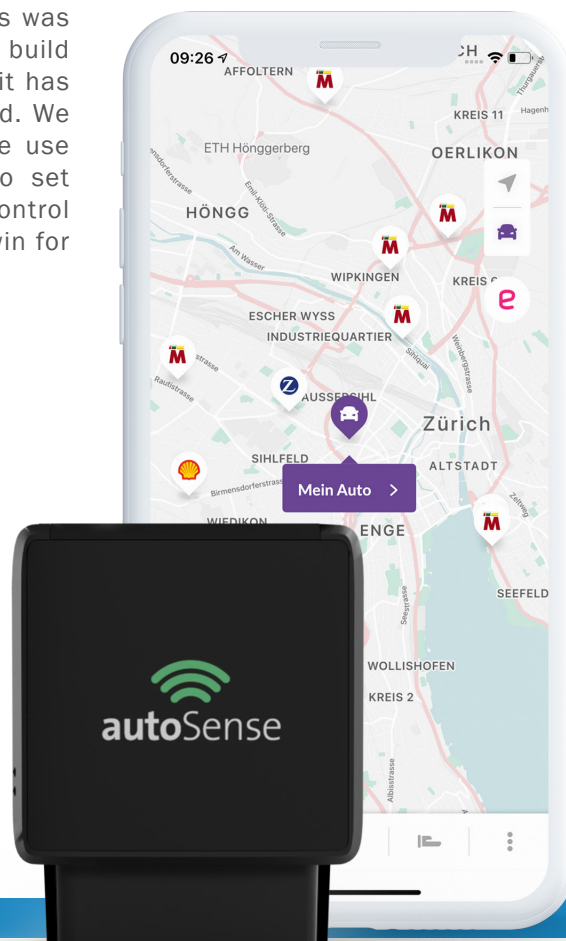
Time-saving and Safer

The autoSense development team fills in the relevant parameters, sends them off - and a minute later the correct configuration is available.

Advantages:
• Time saving
• Better documentation
• Standardization
• Increased security

In the course of collaboration and analysis of the existing infrastructure, copebit was able to increase the security of the autoSense cloud environment to the "state of the art" level. All resources are protected on different layers and all data is encrypted during transmission and storage. Despite the increased security, the resources are easy to manage and therefore user-friendly.

Great Increase in Efficiency With Fully Automated CI/CD Pipelines

The fully automated CI/CD pipelines have the advantage that the constant changes in the source code automatically flow into the environment. The pipelines are integrated from a combination of GitHub Actions and AWS CodePipeline, providing enormously simple and cost-effective pipelines.

As a result, autoSense no longer needs to manually install their services, but instead allows everything that developers provide to automatically flow into production. This means a big increase in efficiency and a fast go-to-market. Of course, all code changes remain audited and cleanly monitored.

The Cooperation

"As an innovative IoT company, we have found copebit to be an extremely reliable partner who assists us in continuously enhancing our AWS cloud infrastructure according to best practices. Thanks to copebit›s comprehensive expertise, we were able to modernize our infrastructure and significantly improve its security. What we particularly value is copebit›s strong commitment to knowledge transfer, empowering our internal dev team to continually improve our cloud setup and internal processes."
Sachin Mittal, CTO

Sachin Mittal
autoSense AG
Chief Technology Officer

About copebit

copebit AG is an innovative and dynamic Swiss IT company with focus on cloud consulting, development, engineering and operations. Besides the standard to always master the latest cloud portfolio, copebit AG also offers project management from «classic» over HERMES 5 to the diverse
world of «agile methods» like SCRUM and SAFe. Results and a successful cooperation with the customer are always in the foreground.

copebit consciously focuses on sustainable values such as transparency, partnership and a long-term approach - for a meaningful everyday working life.

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