

Sintio

How Levi9 and Sintio are accelerating EV adoption with innovative charging solutions

Sintio, a Swiss startup, wants to accelerate the electric vehicle (EV) market with a user-friendly, comprehensive charging management solution. Their application [streamlines EV system administration](#), making it easier for property owners and management companies to provide vehicle charging stations for citizens. However, as an emerging player in a highly competitive field, Sintio faced challenges in gaining market recognition. They needed a strategic partner in developing cutting-edge digital solutions to stand out from competitors.

The partnership between Sintio and Levi9 began with a shared vision and values. Sintio first recognized the talents of some Levi9 employees through their noteworthy contributions to the open-source community on GitHub. Their active involvement and commitment to the open-source ethos resonated with Sintio's collaborative mindset. After a successful initial project, Sintio placed their trust in us to drive the development of their next-generation EV charging solutions.



“I was impressed with how they share their expertise in open source communities and how they present themselves. They have an approach that isn't only transactional. For example, they let us handle some areas of the project and then other parts were completely developed by Levi9. The product is then hosted on our own servers. So we have a lot of autonomy in the project and full ownership of the results.”

Philipp Bruhin, Managing Director and Head of Software Management, Sintio



Technical ingenuity and agile adaptation

The Levi9 team was tasked with building an entirely new application that caters to both public and private EV charging needs, integrating essential features like account management and [Stripe payment solutions](#). The technical backbone of the project is a robust tech stack comprising .NET Core, RDS, AWS Computer Cloud, ELB, EC2, ECS, and Cloud Watch. Another key innovation was the integration of the [Open Charge Point Protocol](#) (OCPP). This ensures seamless communication across various charging stations, significantly enhancing the efficiency and versatility of the entire system.

We worked fast and flexibly to deliver the public charging feature despite a tight deadline and unforeseen roadblocks. Fortunately, we thrive on rethinking and reshaping our strategies as a project evolves. For instance, when faced with the challenge of testing chargers, we didn't settle for conventional methods. Instead, we found a unique solution – using everyday appliances like coffee machines to simulate electric vehicle charging.

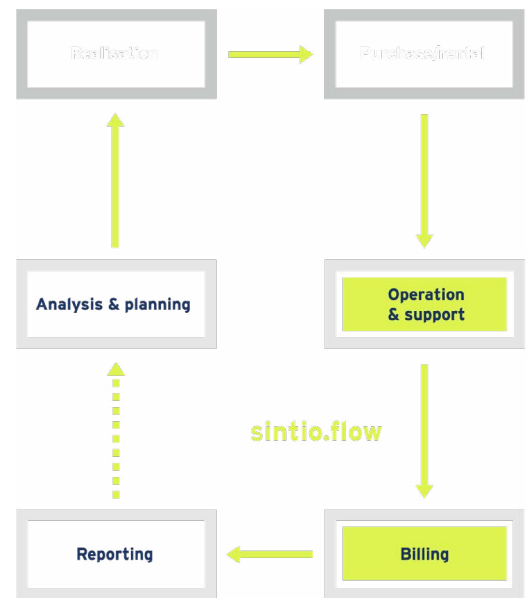
Our adaptability and deep commitment to customer success propelled us over the finish line, on time. The product exceeded initial expectations and has been live for a year with unparalleled stability—no outages, major bugs or issues. That's a different story from Sintio's competitors who have faced downtimes ranging from hours to days after a new release.

User-centric design and experience

Understanding the end-user's needs and challenges was fundamental to our development strategy. We recognized early on that success hinged on how the EV charging application appealed to a wide range of users, from individual drivers to property managers and owners who oversee multiple charging points. We focused on creating a technologically advanced, intuitive, and seamless solution.

“They actively help to define, not only how we should code the application, but also how we should interact with the end users. Instead of waiting for me to present them with user stories, we work on them together. In that way, they've shown that they're proactive and invested in coming up with the best solutions.”

Philipp Bruhin, Managing Director and Head of Software Management, Sintio



As we discovered more about the end-users, we integrated our learnings and feedback into the development cycle. We constantly fine-tuned the application to better meet the users' needs and deliver a seamless, engaging experience. As a result, we've helped Sintio introduce product features that are tailored to the unique needs of the Swiss market. For example, Sintio was the first to offer a solution addressing the variable electricity pricing model in Switzerland. Our shared commitment to prioritizing the Swiss user experience during the development process is helping them outpace their competitors.

Strategic project management and collaboration

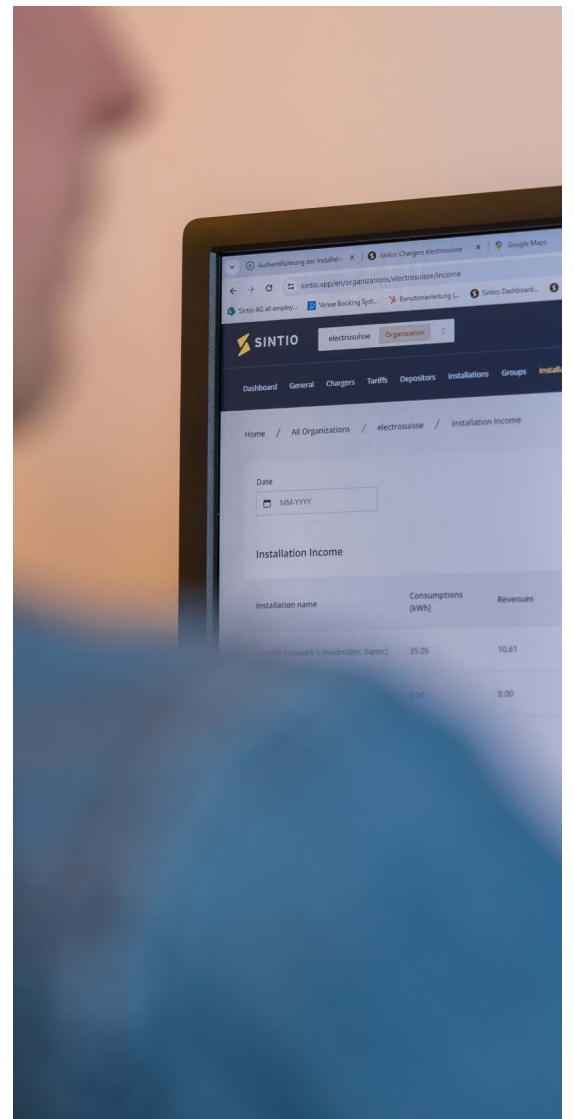
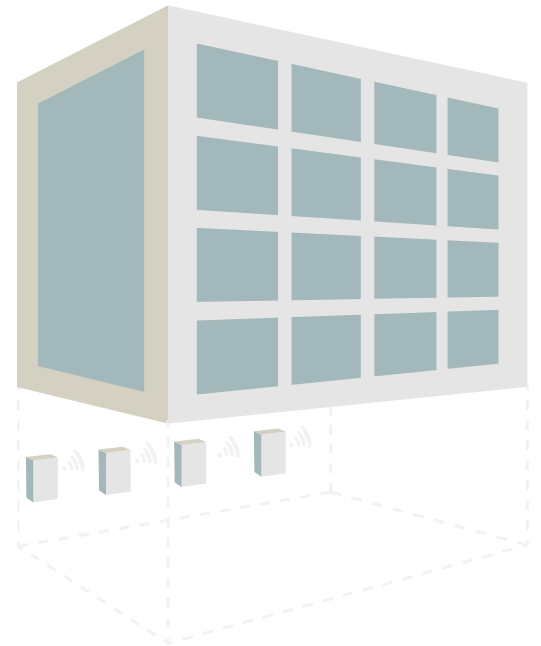
This project required collaboration amongst stakeholders across different cultures and time zones. Regular meetings, clear communication channels, and a culture of openness and transparency helped us overcome these barriers. Our team adapted to the busy schedules of Sintio's product owner and proactively engaged in the business side of the project. Ultimately, we built strong relationships with all of the stakeholders.

Also crucial to our success was working truly agile, with regular testing and continuous improvements. A Levi9 team member was a dedicated liaison with Sintio's leadership to help identify potential risks early and develop strategies to mitigate them effectively. This proactive approach was key to avoiding major setbacks, ensuring smooth progression of the project.

Driving sustainability with cutting-edge green tech

Switzerland's energy market is complex, with over 600 providers, each offering different rates that can fluctuate based on time and other factors. The lack of cost transparency can deter people from embracing EV. As a result, we spent a significant amount of time during this project exploring AI-powered solutions for overcoming barriers to EV adoption. We are excited for future opportunities to use advanced AI technologies to address real-world challenges in the energy sector.

Sintio's EV charging management system supports a smoother transition to electric vehicles and a more sustainable future in Switzerland. It's accessible, efficient



and innovative, with user-centric features developed specifically for the Swiss market. We're proud to play a role in advancing green transportation initiatives through technology-driven solutions.

“Levi9 has demonstrated exceptional flexibility and a genuine desire to support us beyond just making a profit. We really appreciate their willingness to adapt to our changing needs as a startup and their dedication to our success.”

Philipp Bruhin, Managing Director and Head of Software Management, Sintio

Ready to supercharge your innovative solutions? We can help turn your visionary ideas into high-quality products. [Get in touch with us](#) today to learn about our flexible technology service models.

Project keywords:

Electric vehicle (EV) infrastructure

EV charging Management

Energy sector

Green energy technology

Sustainable technology

EV digital solutions

Public electric vehicle charging solutions

Public and private charging system

.NET Core

AWS Computer Cloud

Elastic Load Balancing (ELB)

Amazon EC2 (Elastic Compute Cloud)

Amazon ECS (Elastic Container Service)

Open Charge Point Protocol (OCPP)

Stripe

Payment integration

Agile Development

User-Centric Design

UX design

Custom EV charging solutions

