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BFU

«The collaboration has been worthwhile: Finally, we can use a modern software tool for our numerous data collections. The regular meetings of the entire project team were central to the development. Only in this way could we create a common understanding and meet all the requirements.»

Steffen Niemann, Research associate

As a competence center, the BFU conducts research and provides advice to reduce the number of serious accidents in Switzerland - on the roads, at home, during leisure time and in sports. It has a public mandate for these tasks since 1938. From research to consulting and education to communication: The BFU offers accident prevention from a single source. Around 130 employees are committed to safety in Switzerland, working closely with national and international partners.

bfu
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Data used to be collected through various tools and Excel lists, but today efficiency has increased thanks to unification in one collection tool. The new framework allows easier connectivity for partners, it is device and location independent, and reduces effort for everyone who is involved.

Initial situation

The Swiss Federal Accident Prevention Bureau (BFU) continuously collects accident and behavioral data in Switzerland - by internal employees, but mostly by external agencies and partners. The collection and the processing of the data are both currently carried out using various software tools and methodologies. This makes the administration, evaluation and use of the data for the BFU time-consuming and error-prone. Until now, the accident data was partly maintained in Excel lists, which led to different versions, time-consuming collection and the requirement of a software with costs for the partners. In some cases, a Microsoft Access solution was used for data collection, which resulted in decentralization and increased risk of data loss. Occasionally, data were reported directly into the statistical tool (SPSS). Due to the fragmentation of all tools, it was difficult to integrate new partners and to evaluate the collected data quickly and easily. The new solution is intended to replace all existing tools in the longer term and to consolidate the data centrally. This should simplify queries and statistical evaluations.

Solution

Thanks to the cloud-based Azure web application, developed on the .NET Framework and Blazor, data collection is now independent of device and location. All partners can access the solution and capture data - even offline. The synchronization of the data acquisition is automatically executed when the internet is accessed. In addition, partners can be entered in just a few minutes and get started right away. New versions of the app can be deployed to the different Azure tenants (e.g. test environment) in seconds via an Azure DevOps pipeline for BFU. Building Azure resources is also automated via Infrastructure as Code.

Adjustments to the surveys can be implemented easily and at any time, resulting in flexibility and independence at the BFU. This means that there is no longer any need for installation on end devices for the collection of data. The interface is intuitively designed for each party, personalized and is available in multiple languages. With the new solution, the BFU can evaluate statistical data in real time and display it visually in the dashboard. The data can also be exported for defined interfaces such as the SPSS statistical tool.

The entire project was carried out in an agile manner. Customer feedback was incorporated directly into the planning right from the start. This also allowed pilots to be set up between BFU and its partners - with just a few steps.

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Benefits

- **With a simple solution, partners save time on data collection and are more motivated to collect data. In addition, the intuitive design of the solution reduces the amount of training required for partners and the susceptibility to errors.**

- **Users for external agencies and partners are entered in just a few minutes. This allows data collections to be quickly exchanged with new partners.**

- **Data collections can be created and implemented independently by BFU.**

- **All collected data is centralized, enabling evaluations that were more costly or not possible with many individual systems. In addition, the new framework offers higher data quality and more informative evaluations.**

- **Thanks to the offline function, there is no need dedicated devices, resulting in cost savings and lower licensing costs, as well as eliminating time-consuming updates.**

- **Audit Log ensures 100% traceability.**

- **By using the Azure Cloud, the solution is easily scalable, BFU remains independent and can react quickly to its own needs.**

80%
reduction of the susceptibility to errors in data collections

no more device dependency during data acquisition

1
central interface as a replacement for different capture tools

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Partner profile

#weshapethefuture

Founded in the civil defense cellar by three visionaries from the Bernese Oberland, isolutions has been accompanying companies into the digital future since 1999 as the largest dedicated Microsoft one-stop-shop in Switzerland. We integrate Microsoft services in a way, that adds value and has a positive change in the corporate culture.

Supported by over 200 passionate minds consisting of business and technical consultants, change makers as well as software developers, architects and cloud natives, we are driven to peak performance by our customers and their challenges. Together with customers from different industries, we build the bridge to the tech giant Microsoft. All with one goal: To create the best employee and customer experience in order to achieve competitive advantages.

Customers love our inspiring corporate culture, which is contagious. It successfully supports and overcomes organizational or technological challenges. Together with them, we shape the future of teams, products, companies and entire industries.

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