

“We were implementing new technologies for our company. We needed more than just a supplier—we needed a partner to support ongoing transformation. And that’s what we found in Couchbase.”

— Matthieu Brun-Bellut,
Chief Information Officer



About Coyote

Founded in 2005 and based in France, Coyote is a leading provider of community-based driving assistant systems. Drawing on its 13 patented technologies, the company provides real-time information on speed limits, dangerous roads, traffic hazards, and traffic conditions to a growing community of 5 million users across Europe. The company offers its services through multiple platforms, including connected devices, mobile apps, and embedded systems.

Transforming driver engagement

Coyote uses Couchbase to empower millions of European drivers with real-time information

Coyote helps drivers anticipate and avoid a wide range of driving challenges—from traffic and accidents to poor visibility and the presence of speed cameras. The company’s community-based road information service gathers and analyzes user input, then sends relevant alerts to drivers while they’re on the road.



The Challenge: Deepen member engagement by collecting real-time driver input

To deliver critical alerts to drivers, Coyote continuously collects a tremendous amount of data. “We support 4.8 million community members who drive approximately 1.24 billion miles per month,” says Thomas Lier, engineering manager at Coyote. “Drivers make 50 million ‘declarations’ of traffic incidents, accidents, and road conditions every month.”

The company’s management team wanted to enhance member engagement and further expand membership by developing additional services. “The first project was to create a personalized dashboard that could provide members with a wide range of real-time information, such as how many people they have helped by providing input on road conditions, how many kilometers they have driven, how much time they typically spend in traffic, and more,” says Matthieu Brun-Bellut, chief information officer at Coyote.

To support the new service, the Coyote team needed a new data platform with scalable real-time performance that could support millions of users. The platform also had to offer offline functionality so drivers could continue to use the service even when no network was available.



The Solution: Building a new real-time driver statistics service with Couchbase

After evaluating several NoSQL solutions, the team selected the Couchbase Data Platform. “Couchbase provides the real-time synchronization and offline mode we need,” says Brun-Bellut.

The Couchbase Data Platform could also help speed up time to market for the new service. “Couchbase is one of the few vendors that provides an end-to-end solution that stretches from the mobile app to the backend server—we have all the components we needed

SOLUTION:

IoT Data Management

APPLICATION:

Community-based driving assistance information

USE CASE(S):

-Operational dashboarding
-Endpoint/device mgmt.

“With Couchbase, we can scale up to support more documents—and more users—while delivering a responsive real-time experience to drivers.”

— Matthieu Brun-Bellut,
Chief Information Officer



from a single vendor,” says Brun-Bellut. “We also realized we could use Couchbase cloud capabilities to launch our new service quickly.”

Deep expertise and strong support contributed to the selection of Couchbase. “We were implementing new technologies for our company. We needed more than just a supplier—we needed a partner to support ongoing transformation. And that’s what we found in Couchbase,” says Brun-Bellut.



The Benefits: Sparking rapid user adoption and boosting engagement

Meeting an accelerated deadline

The Coyote team developed the new service rapidly. “Our goal was to launch the new service at a big international motor show, less than two years after initial planning began,” says Brun-Bellut. “Couchbase offered an end-to-end cloud-ready solution that enabled us to launch quickly and put the service into production by the deadline.”

Gaining scalable performance to support growing data volumes and increasing membership

The Couchbase Data Platform provides a scalable foundation for the new service. “We anticipated having to process more than 500 million documents for hundreds of thousands of users,” says Brun-Bellut. “With Couchbase, we can scale up to support more documents—and more users—while delivering a responsive real-time experience to drivers.”

Sparking fast user adoption and boosting engagement

The new driver statistics service was quickly adopted by Coyote users. “More than 35% of our community adopted the new service within the first three months,” says Brun-Bellut. “And those members increased their engagement. They were more active while driving, sharing more information with other drivers—that’s exactly what we were looking for.”

Learn more

Visit couchbase.com to learn more about the enterprise-class NoSQL database built for business-critical applications.

About Couchbase

Couchbase’s mission is to be the database platform that enables a revolution in application innovation. To make this possible, Couchbase created an enterprise-class NoSQL database to help deliver ever-richer and ever more personalized customer and employee experiences. Built with the most powerful NoSQL technology, Couchbase was architected on top of an open source foundation for the massively interactive enterprise. Our geo-distributed database provides unmatched developer agility and manageability, as well as unparalleled performance at any scale, from any cloud to the edge.

Couchbase has become pervasive in our everyday lives; our customers include industry leaders Amadeus, AT&T, BD (Becton, Dickinson and Company), Carrefour, Cisco, Comcast, Disney, DreamWorks Animation, eBay, Marriott, Neiman Marcus, Tesco, Tommy Hilfiger, United, Verizon, Wells Fargo, as well as hundreds of other household names. For more information, visit www.couchbase.com.