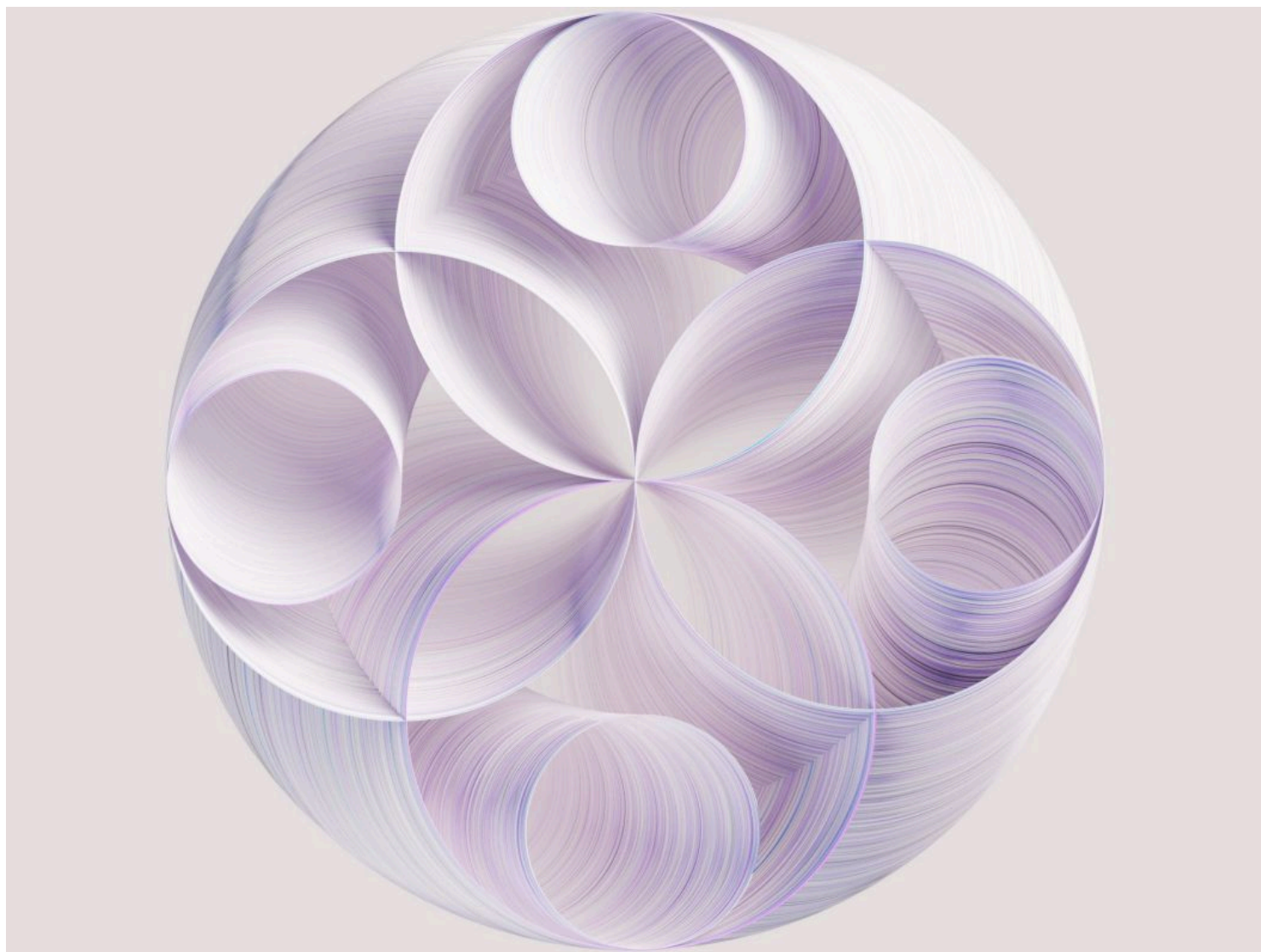


# Facilitating information consumption with gen AI

CAF Signalling + IBM



Extracting volumes of information   Consuming information with gen AI assistants   Gathering information more efficiently and optimally with

## Extracting volumes of information

CAF Signalling, CAF Group's comprehensive solutions division for railway signalling systems, is a Spanish company that designs and provides integral solutions for railway

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signalling and control all over the world.

Its dedicated on-board systems development team navigates a challenging landscape of dense and complex documentation, the European Rail Traffic Management System (ERTMS) standards, on a daily basis. This work entails constant search, interpretation, implementation and, of course, adaptation to evolving standards, which secures the intricate task of ensuring interoperability among trains across different countries.

Given the intricate nature of this task, compounded by the continuous evolution of standards and the complexity of the documentation, CAF Signalling recognized the need for a strategic approach. The objective was to streamline access to ERTMS information, making it more accessible and facilitating smoother integration with the evolving standards.

In response to this multifaceted challenge, CAF Signalling embarked on a project to identify optimal tools and establish robust connections that would enhance the team's ability to navigate and extract pertinent information from the ERTMS documentation. All, with the overarching goal to create a more efficient workflow, reducing the complexities and ensuring the seamless compliance of CAF's trains with on-rail signaling requirements, thereby promoting interoperability across international rail networks.

## 3 weeks

duration of proof-of-concept (POC)

## 1

unique point for more centralized knowledge and homogenized sources

## Consuming information with gen AI assistants

To meet its information gathering challenges, CAF Signalling collaborated with [IBM® Client Engineering](#) to explore a combination of tools and generative AI (gen AI). They decided to conduct a proof-of-concept (POC) test of the solution during a period of three weeks in which together, the team used [IBM watsonx™ Assistant](#), [IBM Watson® Discovery](#) and [IBM watsonx.ai™](#) to facilitate access to the ERTMS standards. This approach assured a more efficient workflow while reducing complexity, and it helped CAF Signalling manage compliance of CAF's trains with on-rail signaling requirements, thereby promoting interoperability across international rail networks.

## Gathering information more efficiently and optimally with gen

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# AI

The solution proved to be a new beginning of an automation journey through document governance, which helped increase productivity and efficiency and save time. For one thing, now knowledge is more centralized, and sources are homogenized so documents are no longer consumed one by one, but in one unique point. Monitoring capabilities were also incorporated, giving additional data about how users interact with the information. With the information all in one place, and in natural language, employee satisfaction and autonomy also increased while the learning curve among employees decreased.

In the future, the team hopes to scale the solution and its benefits across the entire organization.



## About CAF Signalling

[CAF Signalling](#) (link resides outside of ibm.com), the technological subsidiary of CAF Group, is focused on the design, development, manufacturing, supply and maintenance of rail signalling systems, thus providing integrated signalling solutions for infrastructures and rolling stock, both in Spain and internationally.

### Solution components

<a href="#">IBM® Client Engineering</a>	→	<a href="#">IBM Watson® Discovery</a>	→
<a href="#">IBM watsonx.ai™</a>	→	<a href="#">IBM watsonx™ Assistant</a>	→

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