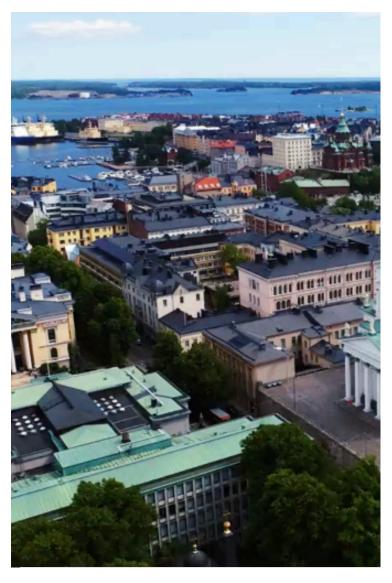
Tearing down silos to better delivery of city

The City of Helsinki and IBM Consulting co-create faster, more flexible customs experiences with a digital assistant network

Read the guidebook $\;\;
ightarrow\;$ Explore more

X Close



icinace Challanda

Transformation

Outc

The City of Helsinki takes care of its own. In fact, services—covering everything from healthcare to 38,000 employees help provide those services, the country.

Those services generate enormous quantities of already vast store. "We've been utilizing many of says Tomas Lehtinen, Head of Data for the City o data going back almost 30 years."

In 2019, the city established a data strategy to s data. "Our team wanted to enable data-driven dowell as to apply that data to optimizing the city's responding to citizens' service needs on their ter

At the time, each service organization had its ow dealt with high volumes of citizen requests. "Cus overworked," says Janne Kantsila, Leading Spec City of Helsinki. "At the same time, we wanted to Our citizens expected faster service and more fle to be put in queues."

To help address these issues, the city turned to vexperimenting with various vendors' solutions accity had verified how virtual assistants could be request for proposal (RFP) for a virtual assistant digitalization needs.

Chief among the platform requirements were narability to connect to other systems—including the departments, other Finland cities and outside ve assistants also linked to many other areas indire assistant training data on Helsinki Region Infosh in 2011 over which major cities in the metropolit opening up our chatbot data, we could help othe chatbots, so they wouldn't have to start from scr

Other required capabilities included the ability to APIs and automated translations. Data privacy la more so in Finland, where transparency and trus wanted a solution that could run from a local Fin protect highly sensitive data, like social services

IBM® offered the best overall solution for the city team that could help deliver it.



300 contacts

Virtual assistants currently handle up to 300 customer contacts per day

"The 'multi-chatbot' long-term vision for want to tear down to

separate our organi they're invisible to 1

Janne Kantsila

Leading Specialist, Automation Technologies, (

A network of virtual assistants

Once the RFP was finalized, the City of Helsinki and IBM Consulting™ worked together to design the virtual assistant implementation using IBM watsonx Assistant, initially running on IBM Cloud®.

The first virtual assistant the team undertook was for the city's Sporting and Outdoor department. "We specified the chatbot scope and designed the user experience—for things like tone of voice and how to fit the chatbot within our chat application on the web pages," says Kantsila. "Then we began gathering the necessary chatbot training model for things like intents and answers to questions."

In co-creating the training model with the city, IBM Consulting applied elements of the IBM Garage™ methodology, a proven development framework that integrates people, processes and technology to transform business and culture. "We didn't have chat logs from customer service available," says Kantsila, "so we ran mini-workshops with customer service personnel to get their input on citizens' most common inquiries."

The team began work on the digital assistant in December 2020 and launched it in early March of 2021—less than three months from the publication, the team continued to monitor and refine intent models based on actual customer questions.

Hello! How can we help you?

Next up was the maternal advisory virtual assistant, which served expectant and new mothers. The department had an existing virtual assistant, but it was structured

differently from the IBM watsonx Assistant virtual assistant, and the team had to redesign the intent model and do significant dialog building from the ground up. "Users were quite happy to see that there was a continuation of the chatbot," says Kantsila.

The team then built an internal IT virtual assistant for employees that incorporated IBM Watson Discovery. When the virtual assistant cannot answer a question, the solution searches through an enormous instruction library for relevant documents to help.

Following the IT virtual assistant, the team developed a rental housing services virtual assistant, a financial services virtual assistant to help with billing and other finance-related inquiries and an International House Helsinki virtual assistant to help immigrants and new international employees settle in the Helsinki capital region.



"Our employees are learning how to use different kinds of Hello! How can we help based systems. Somet you?

afraid that a new system like AI is

going to take their jobs. But now they are seeing that it's supporting them and giving them more time to devote to helping patients and other citizens."

Tomas Lehtinen

Head of Data, City of Helsinki

The virtual assistant of the future

Currently, the City of Helsinki is running 10 virtual assistants, including a "multichatbot" that combines virtual assistants from several healthcare and social services organizations into one. Typically, the virtual assistants handle up to 300 customer contacts per day and can handle most inquiries from start to finish. The "multichatbot" takes advantage of IBM Watson Language Translator to translate skills training services, which are in Finnish, into Swedish and English, the other two predominant languages in Finland.

"The 'multi-chatbot' is part of our long-term vision for chatbots," says Kantsila. "We want to tear down the silo walls that separate our organization, so they're invisible to the user. Ultimately, we want to provide self-service features with our chatbots, enabling citizens to take action, Such cases could include changing an invoice due date or canceling an appointment."

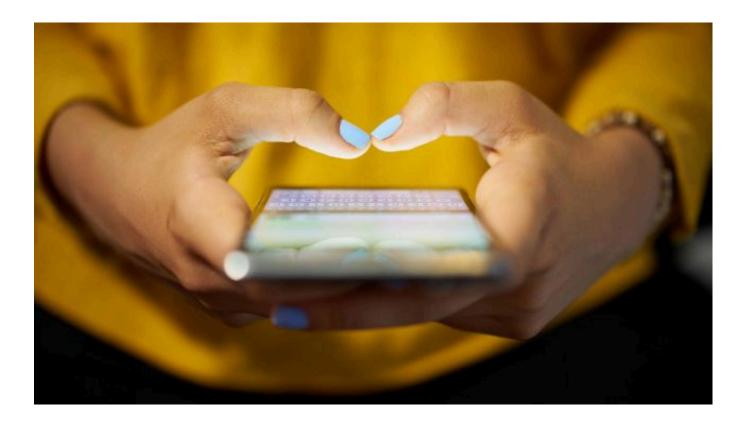
Innovation is top of mind in developing new virtual ass automate existing processes," says Kantsila, "but rathe

Hello! How can we help you?

can deliver services to citizens proactively, more efficiently and in a more user-friendly way."

Employees are also starting to embrace the new technologies. "Our employees are learning how to use different kinds of data and AI-based systems," says Lehtinen. "Sometimes they're afraid that a new system like AI is going to take their jobs. But now they are seeing that it's supporting them and giving them more time to devote to helping patients and other citizens."

The City of Helsinki team continues to meet weekly with a local IBM team to plan and develop new virtual assistants and capabilities. "It really helps that the IBM team is open-minded and solution oriented," says Kantsila. "Now that we have the foundations in place, we want to develop our existing chatbots further to gain even greater value. With IBM, we can throw around a lot of crazy-seeming ideas and openly discuss and refine them. I think because of that, we are moving into an even more exciting phase."



Helsinki

About the City of Helsinki

The City of Helsinki [2] is a government entity that provides a large number of services for its 650,000 citizens. Those services cover a wide range of areas, from healthcare to education to land use. With approximately 38,000 employees, the city is Finland's largest employer

Solution components



Take the next step

To learn more about the IBM solutions featured in this story, please contact your IBM representative or IBM Business Partner.

Request a watsonx briefing ightarrow

Camping World

Driving a reimagined customer experience with an AI-powered virtual assistant

Hello! How can we help you?

transformation with virtual agents

Read the case study \rightarrow	Read the case study \rightarrow	
Humana Expertise on call		
Expertise on call		
Read the case study \rightarrow		