



الهيئة السعودية للمياه
Saudi Water Authority

H₂O AI Assistant



Developed



Next steps

AI Assistant for decision makers

An advanced intelligent personal assistant developed by the Saudi Water Authority, powered by generative AI technologies, and designed to support decision-makers in the water sector with informed, data-driven decisions based on advanced analytics—while providing access to water sector systems, official documents, studies, and global best practices.

Notifications



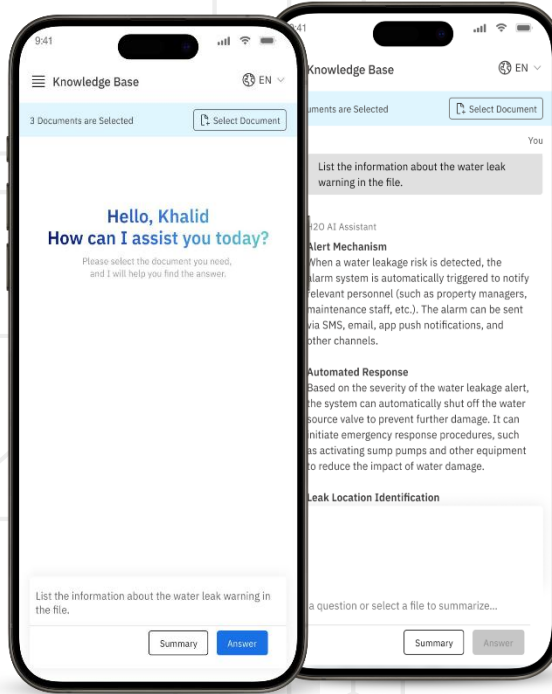
Preparing and sending interactive alerts in cases of emergencies and potential risks.



Monitoring & Forecasting



Extracting patterns and future trends, and predicting significant events in the water sector.



Consulting



Providing tailored consultations aligned with the needs of the water sector and integrated with trusted sector databases.



Productivity



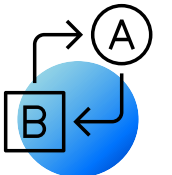
Enhancing productivity and automating routine tasks such as drafting emails and reports.



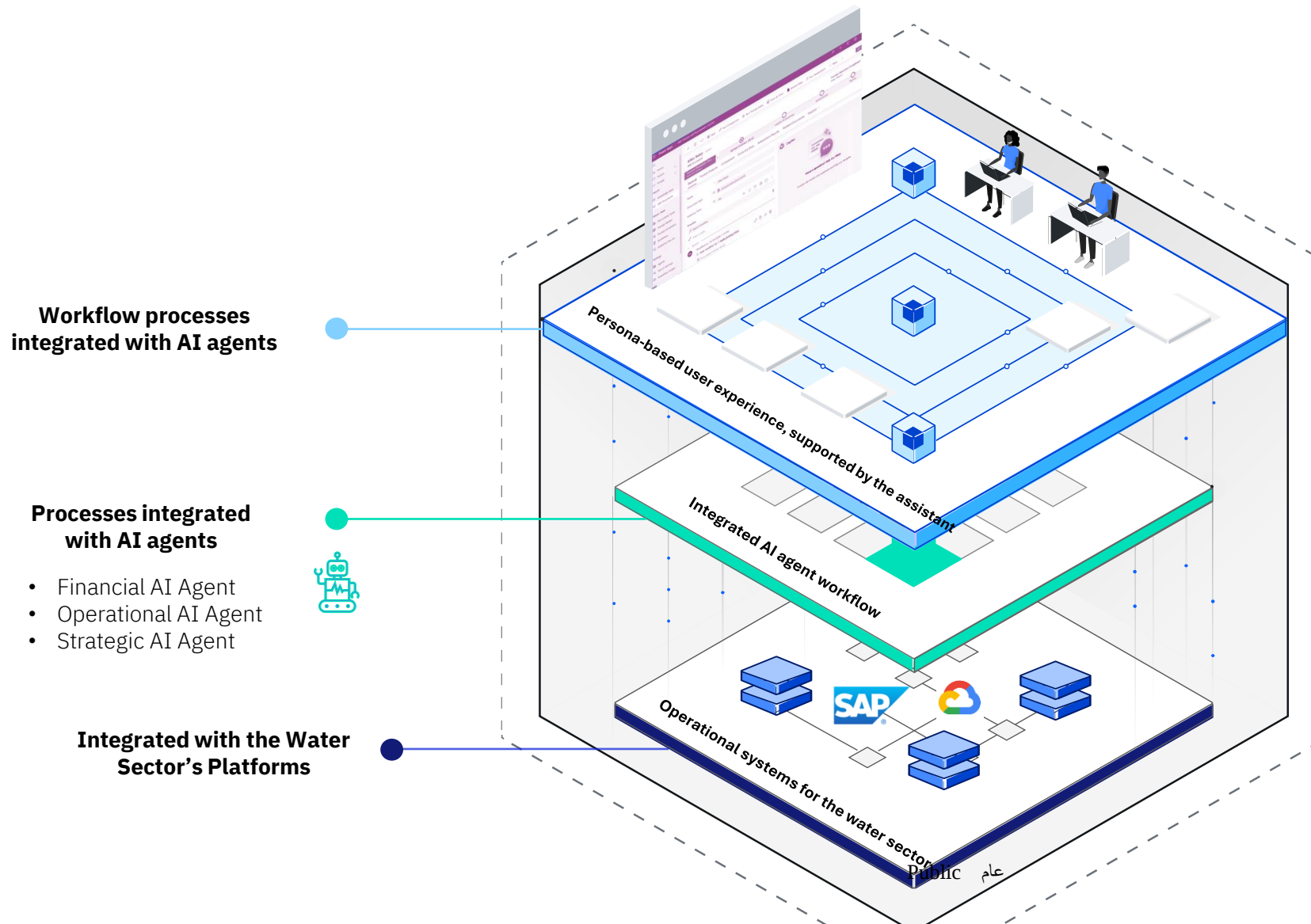
Simulation



Ability to simulate multiple scenarios based on user requests.



Features of the Personal Assistant for Decision-Makers



Integration

Developing the personal assistant within the Saudi Water Authority's environment, fully integrated with its systems.

Cybersecurity

The personal assistant complies with the National Cybersecurity Authority's regulations and AI ethics guidelines.

Future Development

The personal assistant supports future expansion to adopt a wide range of advanced features and functionalities.

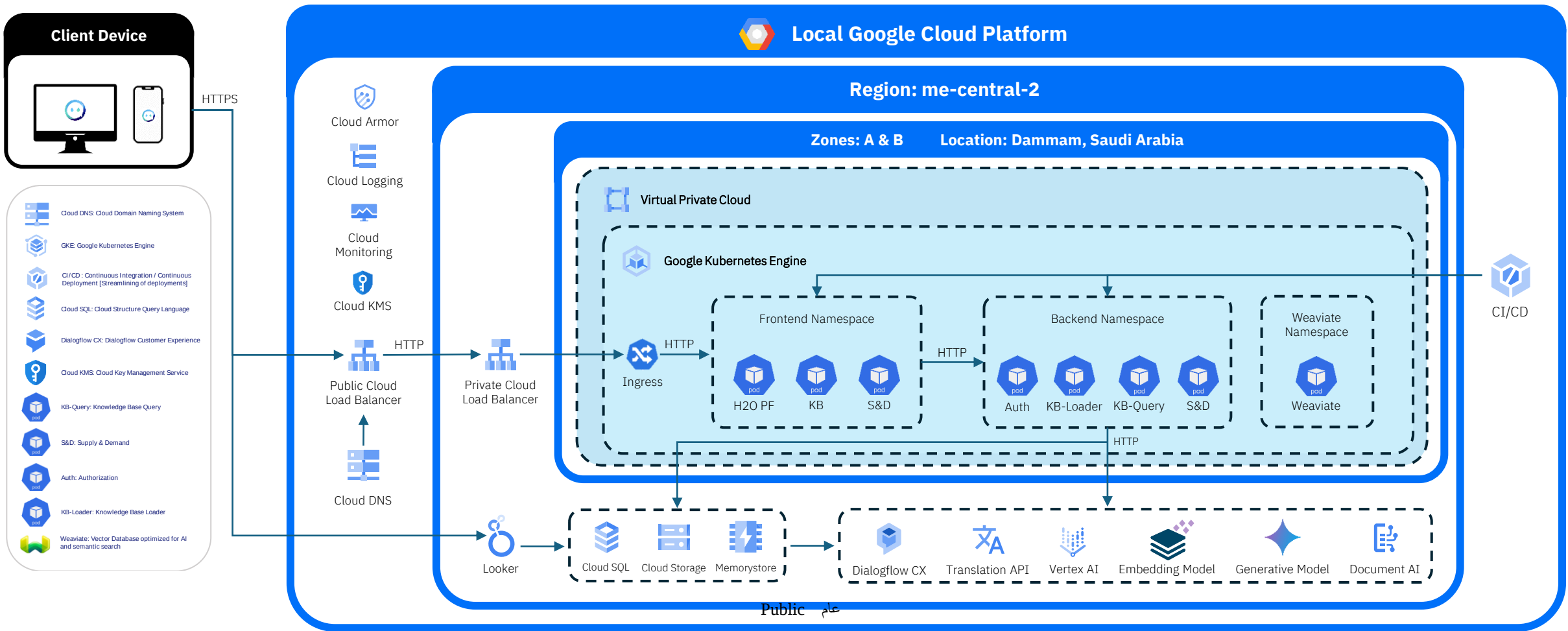
Knowledge Bases

The personal assistant enables the creation of specialized sub-knowledge centers for entities such as:

- Environmental Knowledge Base
- Agricultural Knowledge Base
- National Water Company Knowledge Base
- Saudi Irrigation Organization Knowledge Base

H2O Platform Architecture

Adopting the latest technical practices to build the architecture of the generative AI platform and develop a product that ensures user and data privacy at low cost.





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