

# KANO – a navigator for architects

Advanced insights for complex knowledge management challenges using agentic, GraphRAG and multi-modal gen AI. Save >20% on software architecture and design costs.



**Unlock information buried in structured and unstructured data across the organization.** GenAI models utilising a RAG solution suffer where concepts are highly dispersed across the knowledge corpus. Microsoft research points to GraphRAG as a solution and KANO proves this to be the case.

## What is KANO?

KANO combines powerful Gen AI features in a unique way to yield surprisingly accurate results for use cases including 'chat with your IT landscape' where inter-connected nature of the information and heavy use of diagrams means knowledge is otherwise locked away. A knowledge graph - when combined with RAG - provides enough information to generate new design documentation based on your legacy estate



## What is GraphRAG?

GraphRAG combines the power of a RAG solution with a knowledge graph providing additional context.

Knowledge graphs are a powerful way of representing knowledge in a generic structure but until the advent of LLMs, it was difficult to populate them from unstructured information

Academic research (including from [Microsoft](#)) highlights the benefits of using graphs and LLMs together; KANO is an early commercial implementation.

## Change management

- Identify impacts to your application estate of business change – in a similar way to APM tools but without the up-front investment
- Shorten Discovery exercises

## Onboard new staff

- Bring new staff up to speed on an existing IT estate in days not weeks, speeding up change programs and scaling up teams

## Take stock of the IT landscape

- Ask holistic questions of your application and infrastructure landscape even if the data is in many silos – the knowledge graph is a universal approach
- APM projects massively accelerated

## Design generation

- Shorten the architecture and design phase of a project by at least 20% by combining generated draft design documents with chat features for architects and designers

When placed alongside RAG solutions, the benefits are noticeable. A publicly referenceable Azure case study with Virgin Media O2 significant savings can be realised.



“[KANO] has already delivered impressive results, with real promise for transforming our approach to solution architecture. It’s driving up productivity, enhancing the quality of our deliverables, and ultimately enabling faster delivery across the board.”

Sergio Rubio,  
Head of  
Architecture  
at Virgin  
Media O2

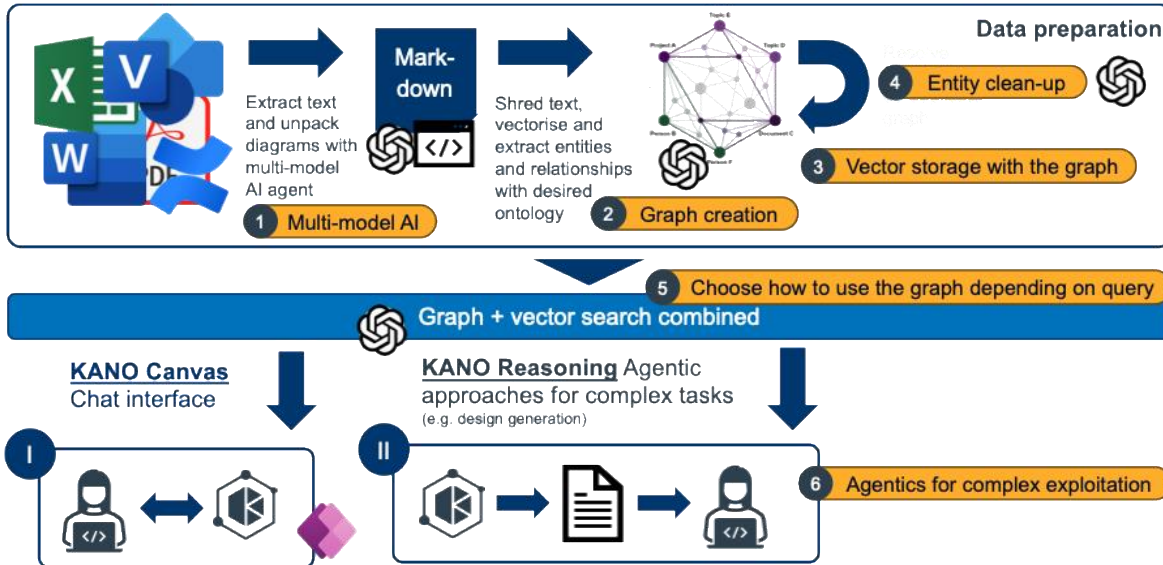
# The knowledge graph inside KANO powers most kinds of declarative knowledge

KANO recognises that the most valuable enterprise knowledge is highly interconnected; rich answers must draw from closely connected concepts. Unlike RAG, its knowledge is made explicit through the graph. It uses a range of techniques to:

Maximise the size & inter-connections of the graph

Optimise graph traversal for queries

Maximise the fidelity of the graph (e.g. entity resolution)



KANO brings together 6 powerful features, leveraging Azure OpenAI

## KANO excels where any of the following are true

- Concepts are highly interconnected across the knowledge sources (e.g. IT landscapes, complex applications, physical infrastructure, supply chains, legal cases, biomedicine)
- Some knowledge is in the form of diagrams which contain meaning not available elsewhere (and therefore must be contextually broken down to unlock knowledge)
- Fine-grained access control is needed over knowledge sources (since each element of the graph can be secured);
- Structured and highly repeatable information is needed in the answer (e.g. to generate diagrams) or knowing what information relates to what timeframe (historisation) is crucial
- Knowledge is locked away in complex diagrams

KANO helps where traditional RAG solutions struggle

## Proof of Concept

KANO deploys into the customer's Azure tenant with minimal difficulty. A 4-to-5-week POC establishes value and lays the foundations for an MVP. Our KANO team cuts across 4 continents to match the customer's data processing restrictions



## Minimum Viable Product

KANO is cutting-edge technology; it is deployed as a set of foundation libraries that are customised for each client – for example to add fine-grained access control, which is possible at the document level.