

A complex network graph visualization with a dark background. It features numerous nodes of various colors (blue, yellow, orange, red, green, white) connected by thin, light-colored lines. The nodes are distributed across the frame, with some clusters and many isolated points. A prominent yellow node on the right side is labeled 'employee'.

Enterprise Knowledge Graph

Enterprise
Knowledge
Graph

A close-up photograph of Peter Drucker, an older man with glasses, wearing a dark suit and white shirt. He is looking slightly to the right and has his hands raised in a gesturing motion. The background is dark and out of focus.

Motivation

“

today **knowledge** has **power**.
it controls access to **opportunity** and **advancement**

Peter Drucker

”

A black and white portrait of a middle-aged man with glasses, looking directly at the camera. The image is the background for the entire slide.

Motivation

“ if we only **knew what we know**,
we would be **30 percent more productive**

Lewis Platt


”

The background of the slide is a complex network diagram. It features numerous nodes, represented by small circles of varying sizes and colors (white, blue, and orange), interconnected by a dense web of thin, glowing blue lines. The overall aesthetic is high-tech and digital, with a color palette dominated by deep blues and bright whites, accented with orange for emphasis.

Age of Big Data

2.5 billion gigabyte per day

80 % of enterprise data is **unstructured**

The background of the slide is a photograph of several large, cylindrical industrial silos or storage tanks. They are made of concrete or metal with horizontal bands. The silos are arranged in a row, receding into the distance. The sky is blue with a few white clouds. A red ladder or walkway is visible on the side of one of the silos. In the bottom left corner, there is a small white sign with a red letter 'A'.

Problem Statement

knowledge in companies is hoarded in various **datasilos**.
it is hard to find the **right information**.

Knowledge Sharing

\$550 Billion in lost productivity per year in U.S.
By **70%** unengaged employees.



Infrastructure

Highly effective internal information infrastructure

leads to **47%** higher returns

Compared to companies with least effective infrastructure

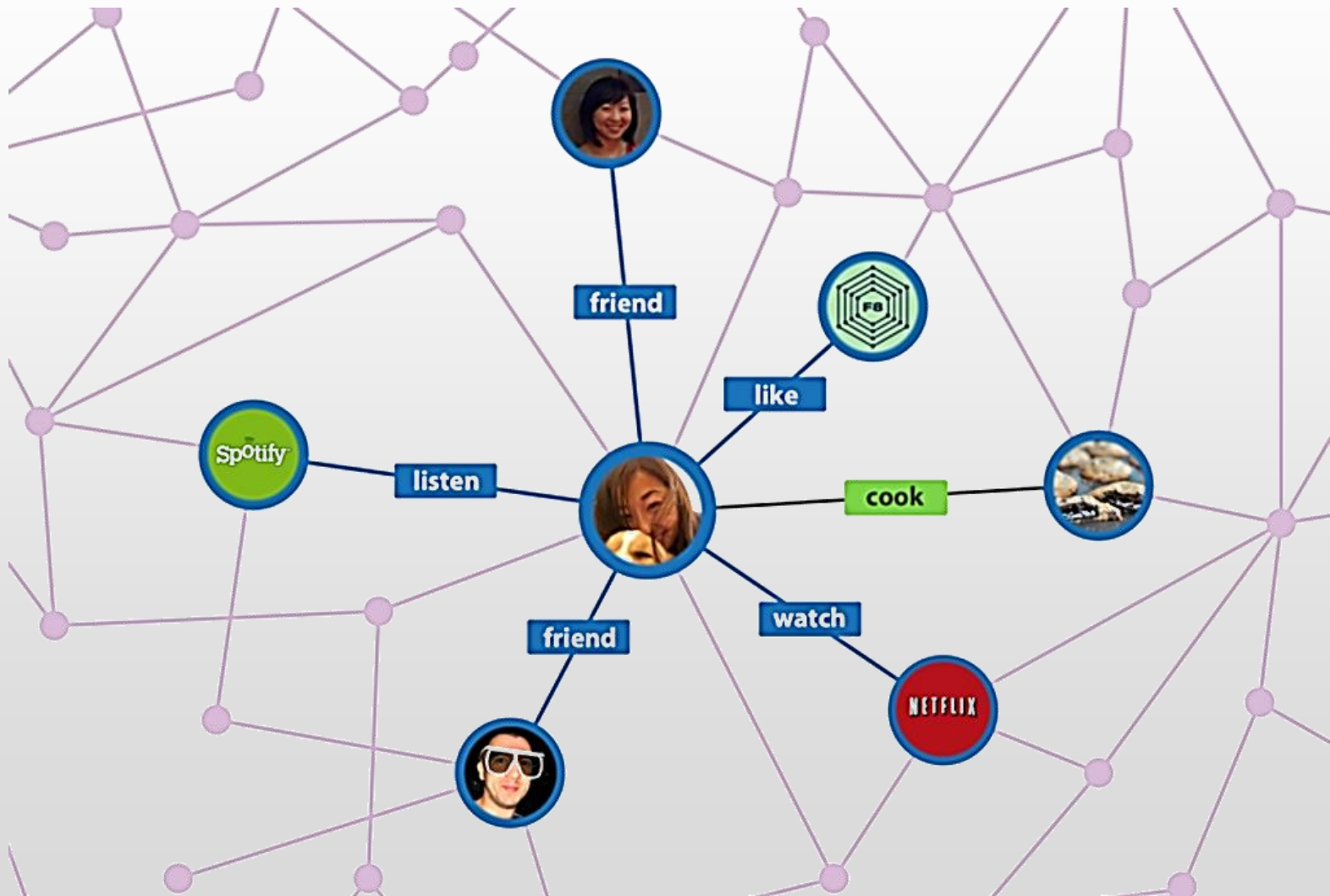


Objective

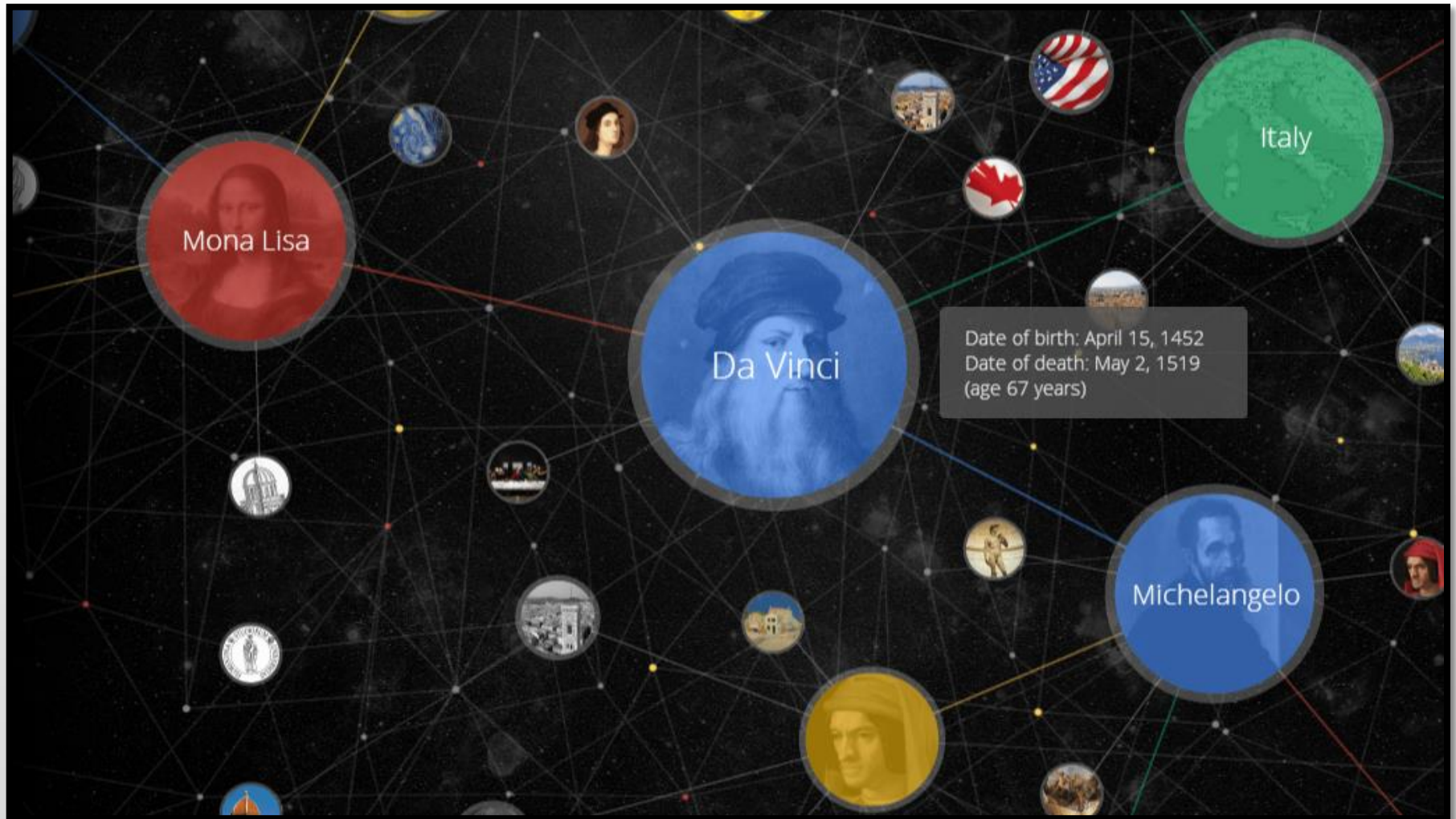


organize and **distribute** the company's information and make it **universally accessible** and **useful** for every employee

Facebook – Social Graph (related)



Google – Knowledge Graph (related)





EKG - Concept

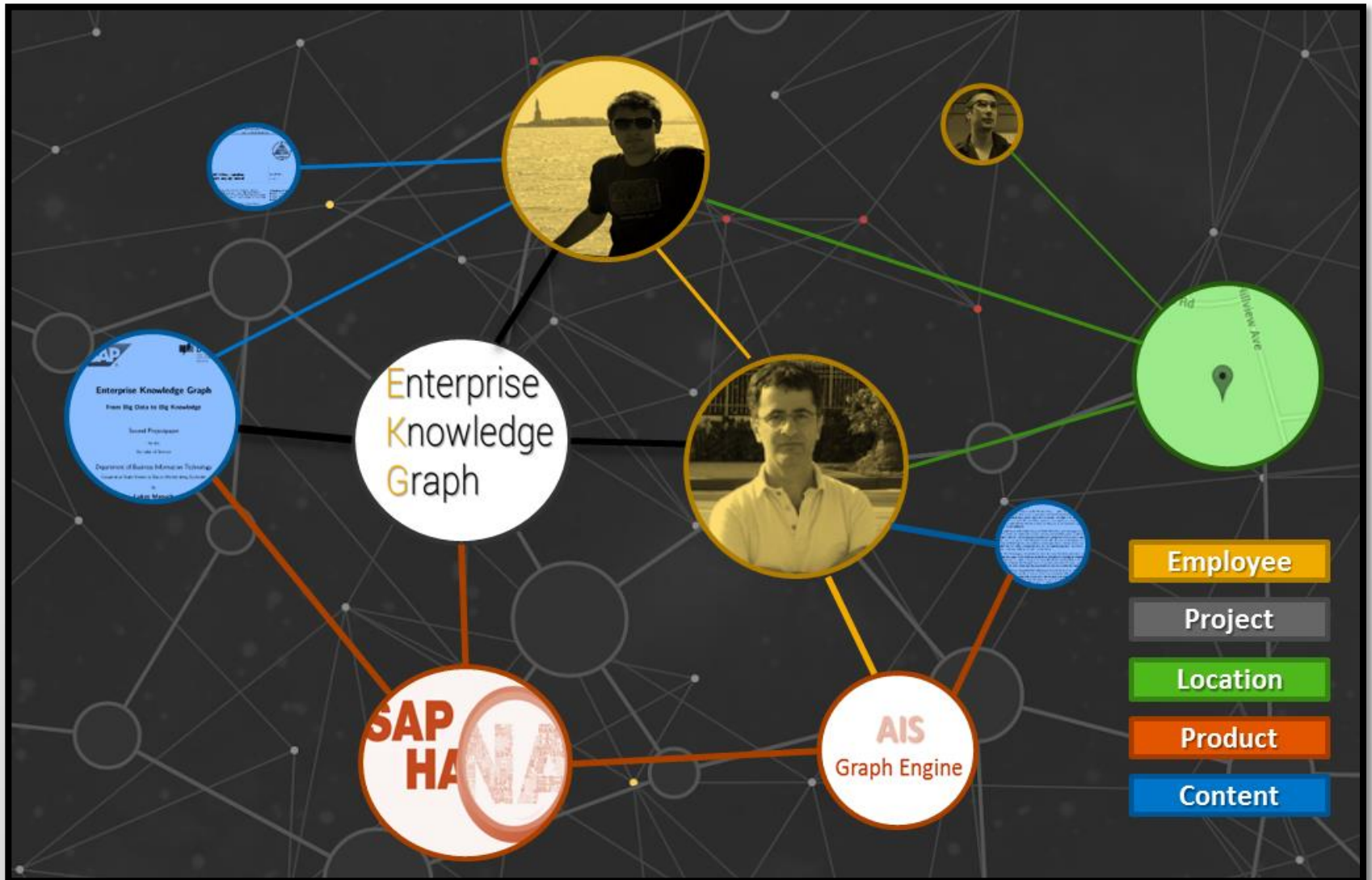
Enterprise
Knowledge
Graph

The Enterprise Knowledge Graph ...

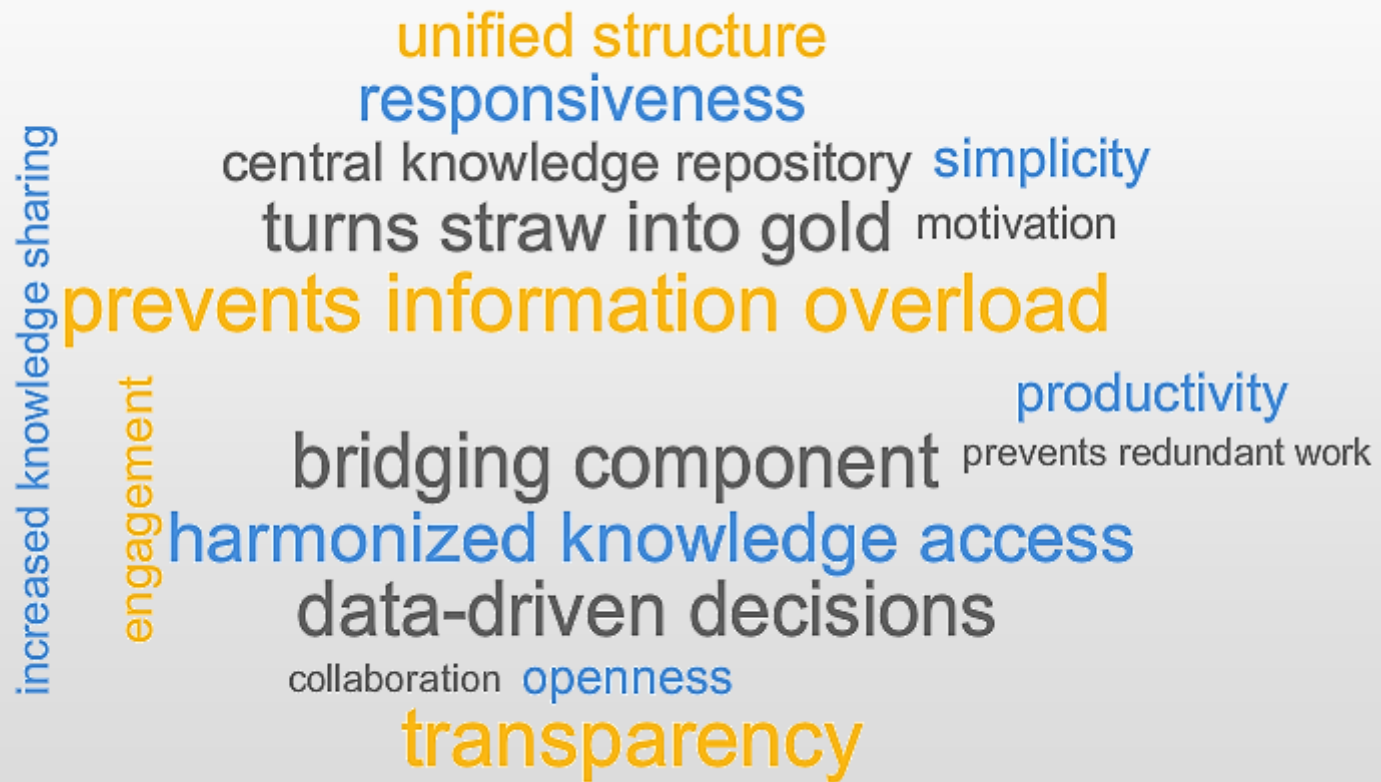
... is a **disruptive platform** that combines emerging Big Data and graph technologies to **reinvent knowledge management** inside organizations.

... **replicates the unique network** of an organization with most of its relevant entities into a graph database.

EKG - Concept



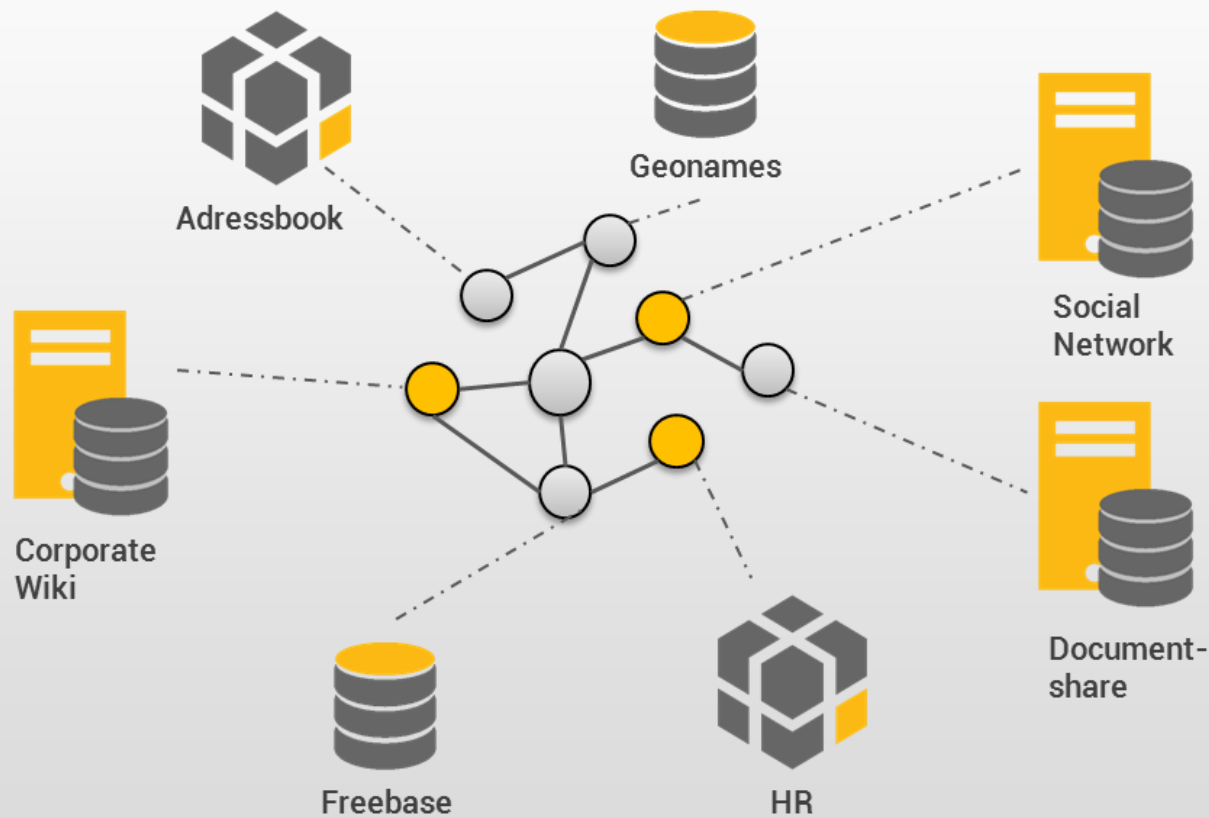
EKG - Buzzwords



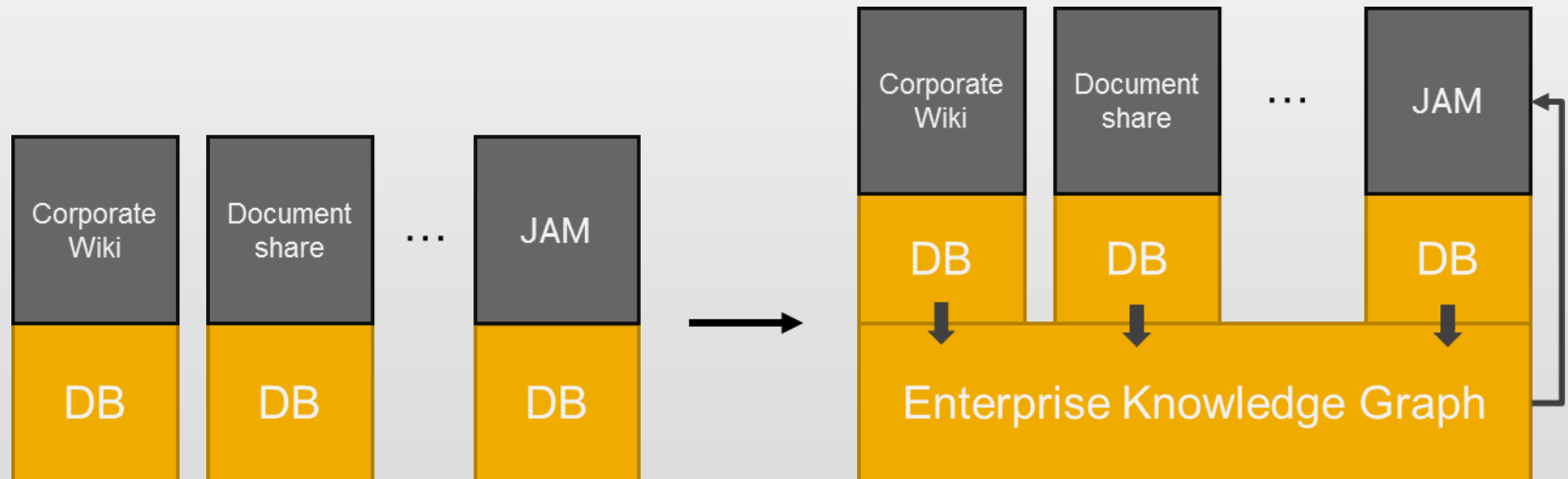
A word cloud of EKG buzzwords. The words are arranged in a roughly circular pattern. The colors of the words are: orange for 'unified structure', 'prevents information overload', and 'transparency'; blue for 'responsiveness', 'simplicity', 'productivity', 'harmonized knowledge access', and 'openness'; and grey for 'central knowledge repository', 'turns straw into gold', 'motivation', 'bridging component', 'prevents redundant work', 'data-driven decisions', and 'collaboration'. The words 'increased knowledge sharing' and 'engagement' are written vertically on the left side.

unified structure
responsiveness
central knowledge repository
simplicity
turns straw into gold
motivation
prevents information overload
increased knowledge sharing
engagement
bridging component
productivity
prevents redundant work
harmonized knowledge access
data-driven decisions
collaboration
openness
transparency

Data Aggregation



EKG – The Knowledge Layer



EKG – Use Cases

Security Gap Detection

Information Flow Modeling

Gamification System

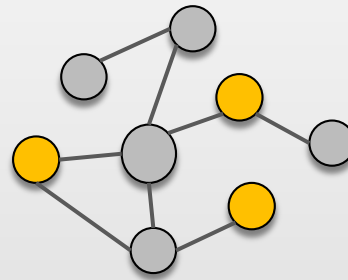
Social Network Analysis

Enhanced Enterprise Search

Intelligent Business Assistant

Automatic Tagging

Enhanced Employee Profile



Duplication Detection

Context Awareness

Expert Finder

Enterprise Recommendation System

development on hana

Search

Ask SAP Ninja

Experts



Hasso Plattner
Chairman of the Sup...



Vishal Sikka
CTO



Rui Nogueira
HANA - Product Ma...



HANA Developm...
PDF - Community



HANA Dev Wiki
Wiki - Corporate Wiki



HANA Text Anal...
Document - Community



SAP HANA
Product



HANA Community
Group - JAM



HANA Studio
Tool

▼ Type

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Where to find documents for "HANA Native Development"-Workshop

<http://scn.sap.com/thread/3338757>

Discussion Forum | Ben Wolf

..., I'm doing the the **HANA Native Development** workshop and I'm wondering...automatic content with future revisions of **HANA**. >

HANA and Test Driven Development

<http://scn.sap.com/thread/3448309>

Discussion Forum | Kostiantyn Kharchenko

... Does anyone know how **Test Driven Development** is applied during the **HANA app development**? Particularly in native **HANA** applications.... it as an important aspect during **development** of analytical... >

Error when installing ABAP Development tools for SAP HANA

<http://scn.sap.com/thread/3482470>

Discussion Forum | Goutham Katarapu

Hi All, I have **SAP HANA Studio** Version:1.... I am trying to install **ABAP development** tools from the following : **SAP Development Tools** for Eclipse Juno... >

CAL TRIAL openSAP Course; Introduction to Software Development on SAP HANA 2013.01 SOLUTION WAS NOT FOUND? ERROR

<http://scn.sap.com/thread/3549524>

Discussion Forum | geeta kri

... learning **OpenSAP** course **Introduction to Software Development** on **HANA**.... <https://caltdc.hana.ondemand.com/>... by **OpenSAP** course **Introduction to Software Development** on... >

Recommended development approach for ABAP on HANA..

<http://scn.sap.com/thread/3484830>

Discussion Forum | Sean Holland

... future direction/role of **SAP HANA Studio** for use with **SAP** in **SP5** for **ABAP** on **HANA development**, is that the future... only supported approach for **SAP application development**. >

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Functional Area: General Management

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JAM



Timeless Software
JAM



The Evolution from a ...
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HANA Architecture
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Welcome to Palo Alto - Campus.

[Lunch Menu Palo Alto](#)

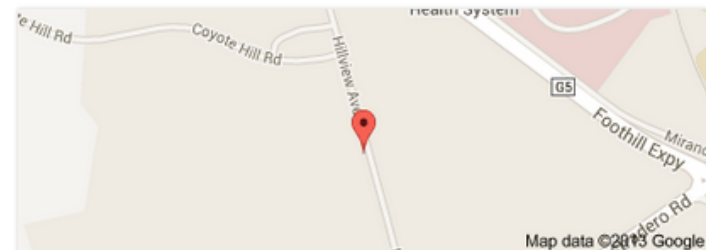
This overview provides the lunch menu for SAP Palo Alto.

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Palo Alto SAP Palo Alto Office Phone: +1-650-849-4000; Internal Dialing: 8-289-xxxx (user ext.) Palo Alto, California 94304 SAP PALO ALTO Buildings & Addresses: PAL01 3410 Hillview Ave PAL02 3412 Hillview Ave PAL03 3420 Hillview Ave PAL04 3450 Hillview Ave PAL05 3408 Hillview Ave PAL0... [✉](#) [➤](#)

[COIL Palo Alto](#)https://research-navigator.wdf.sap.corp/index.php/Lab:COIL_Palo_Alto[Wiki page](#)

Lab COIL Palo Alto Situated in Silicon Valley, the Palo Alto location combines particularly the proximity to a wide range of branches of innovative technology and software solution partners with the SAP Americas field organization, and SAP development to accelerate co-innovation. Facts Attachments (... [✉](#) [➤](#))

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SAP Labs - Palo Alto

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Address: 3410 Hillview Ave, Palo Alto, CA 94304**Phone:** (650) 849-4000**Headcount:** 2126**Main Boards:** [P&I](#), [GS](#), [SQ&S](#)**Cafeteria:** [Cafe 1](#), [Cafe 2](#), [Cafe 3](#) - [Lunch Menu](#)

Employee Services



FIT Club



Commuter Club



Fun Room



Auto Services



Group Exercise

Buildings



PAL01



PAL02



PAL03



PAL05



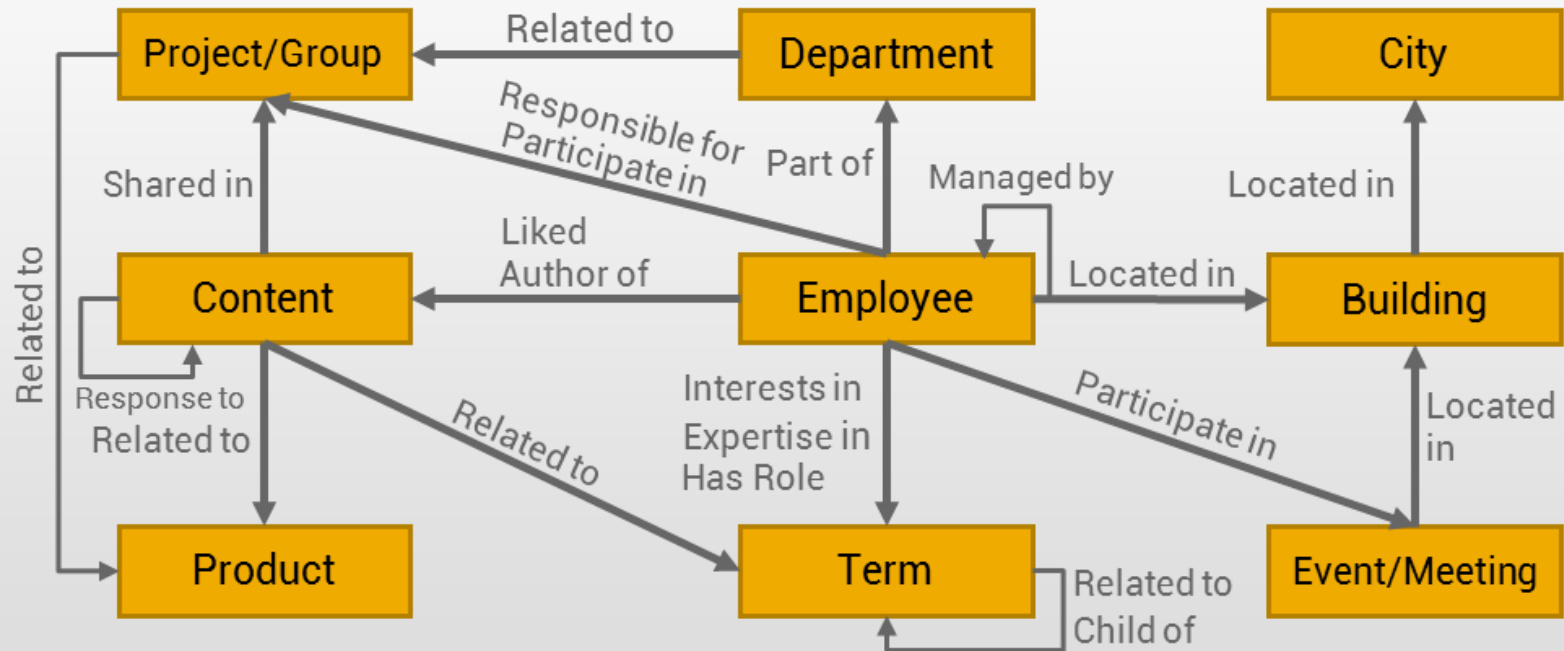
PAL08

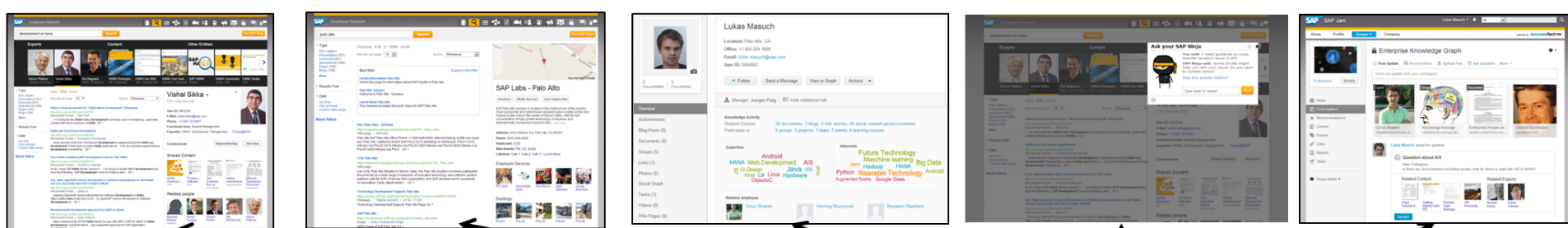


EKG - Implementation

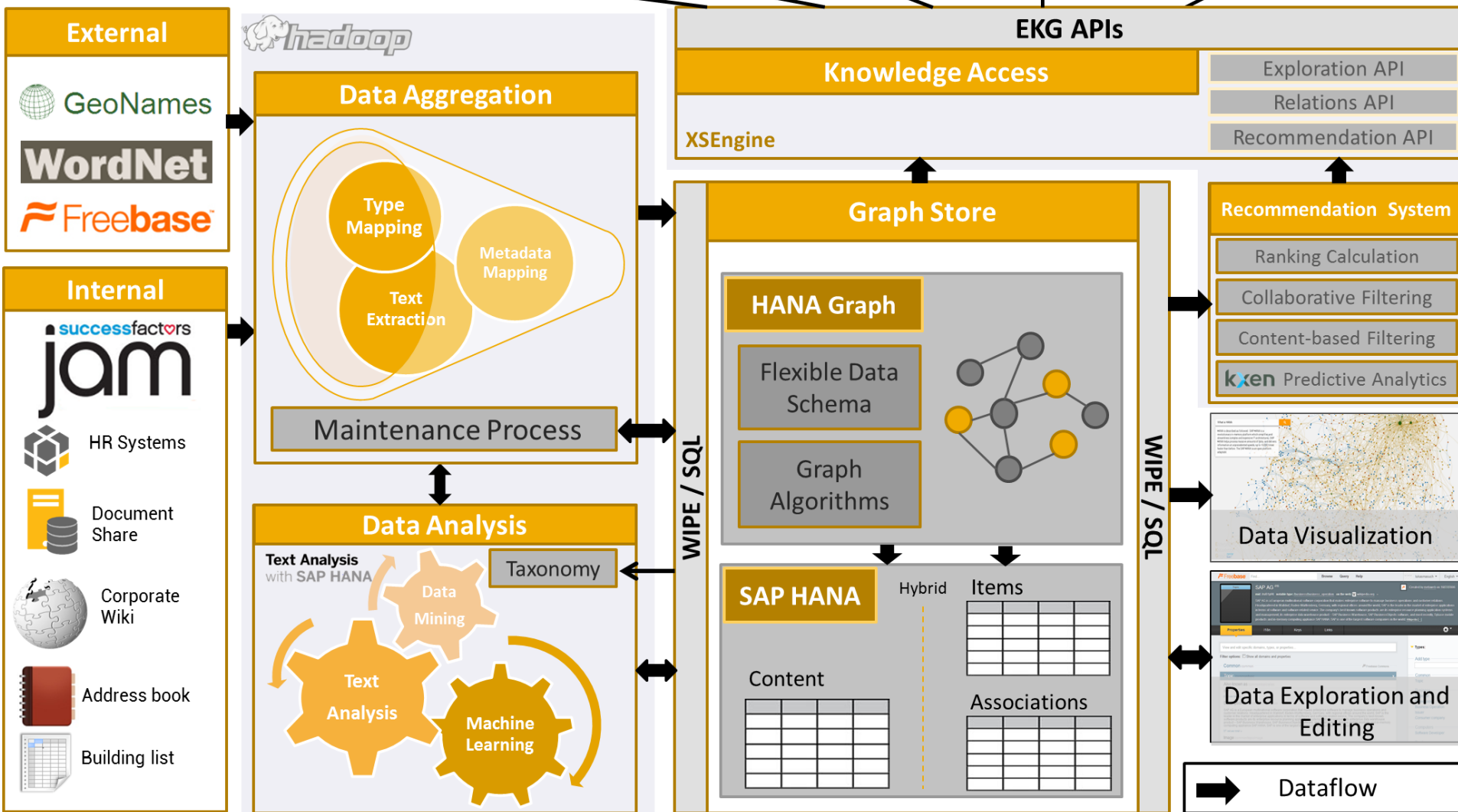
Enterprise
Knowledge
Graph

Enterprise Ontology Model (simplified)





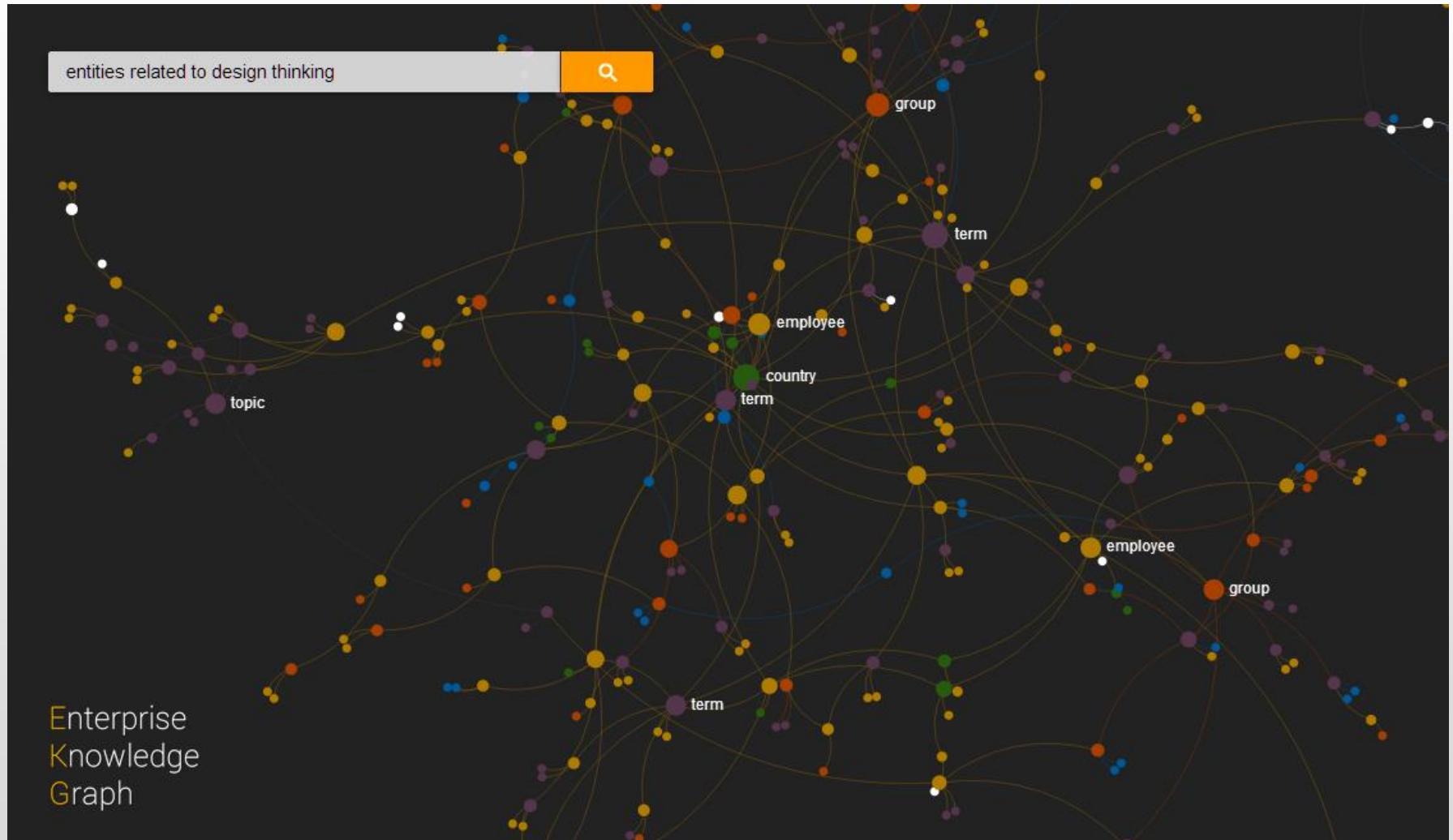
Applications
EKG-Infrastructure



Prototype – powered by SAP HANA



Prototype - Visualization



Prototype - Status

Graph Store – Deployed
Data Aggregation – Implemented
Knowledge Access – Implemented
Data Visualization – Implemented
Data Analysis – In Development
Recommendation Engine – In Development

30
Connected
Datasources

20
Entity
Types



8
Different
APIs

1
Million
Aggregated
Entities

4
Million
Aggregated
Associations



Thanks

Concept by Lukas Masuch

Contributors: Cirrus Shakeri, Ondrej Jaura, Hartmut Vogler

Enterprise
Knowledge
Graph