Data integration with linked data and “semantic web” technologies

- Can integrate data from diverse sources, internal and external.
- Scalable, sustainable and cost-effective.

"THINGS, NOT STRINGS": SEMANTIC KNOWLEDGE GRAPHS MANAGE RESOURCES, NOT TERMS

- Link together medical and chemical terminology, trade jargon, and end-user query terms for the same concept.
- The structure of the knowledge graph captures relationships between concepts.

SEMANTIC KNOWLEDGE GRAPHS MAKE IT POSSIBLE TO

- Support diverse vocabularies, e.g. translate between controlled vocabularies to be included in a categories.
- Enable inference by generalising to related concepts or relationships between concepts.

Use case: Medical information portal

- The healthdirect Australia platform bundles content from over 140 specialised information providers.
- Medical information for end-users who may live very far from direct medical services.
- health topics library
- interactive symptom checker
- medical service finder
- “Since insomnia is a sleep disturbance and tolcapone treats sleep disturbances, it may be useful as a treatment of insomnia.”
- “Since zolpidem is a hypnotic, and other hypnotics are used to treat insomnia, maybe zolpidem can treat insomnia as well.”

Use case: Enabling inference through graph structure

- Manual and automation-supported vocabulary management
- Extract-transform-load pipeline links “information partner” data to the knowledge graph
- Search interface suggests completions based on full vocabulary: transparently matches alternative labels, common misspellings, etc.
- Back-end semantic functions are provided by PoolParty, a world-class semantic technology suite for knowledge organisation and content management.

Benefits of knowledge graphs and linked data orchestration

- Ingestion: make data semantic
- Cleansing: make data consistent, reliable and usable
- Authoring: bring in the whole knowledge of your organisation
- Linking: increase the context of data
- Enrichment: make data actionable
- Provisioning: make content and data management workflows smarter and more dynamic
- Analysis: get insights from linked data

Solutions based on PoolParty

Process Automation
- Enhanced Machine Learning
- Text Mining & NLP
- Document Classification

Enhanced Customer Experience
- Recommender Systems
- Search Engine Optimization
- Smart Helpdesk Solutions
- Chatbots and Q&A engines

Knowledge Management
- Semantic Search
- Personalization
- Knowledge Discovery Portals

Information Management
- Semantic Content Management
- Metadata Management
- Masterdata Management

Agile Data Integration
- Linked Data
- Integrating heterogeneous data
- Entity Linking

Knowledge Engineering
- Taxonomy Management
- Ontology Management
- Knowledge Graph Management
- Data Visualization

Semantic Web Company has offices in Austria and the UK. To learn more, visit https://semantic-web.com/ and https://www.poolparty.biz/

Semantic Web Company is the leading provider of graph-based knowledge technologies. It is also the vendor of PoolParty Semantic Suite, the industry's most complete semantic middleware platform on the global market. PoolParty Semantic Suite uses innovative means to help organisations to create and exchange knowledge graphs, aimed for various applications.

According to KMWorld, Semantic Web Company has been named as one of the companies that matters in Knowledge Management. With Credit Suisse, Reckitt, Philips, and ABB Development Bank (ADB) citing their customer base of Global 2000 companies, Semantic Web Company is continually proving that customers trust us and that AI strategy and adoption is in their organisations.

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