Oracle Spatial 11g use in Cisco Social Semantic Software

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Cisco Quad, Enterprise Collaboration Platform

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What Is Social Software?

Enterprise security & policy mgmt

Business system integration

Rich communications

Contextual and Semantic Search

Develop & manage personal online profiles
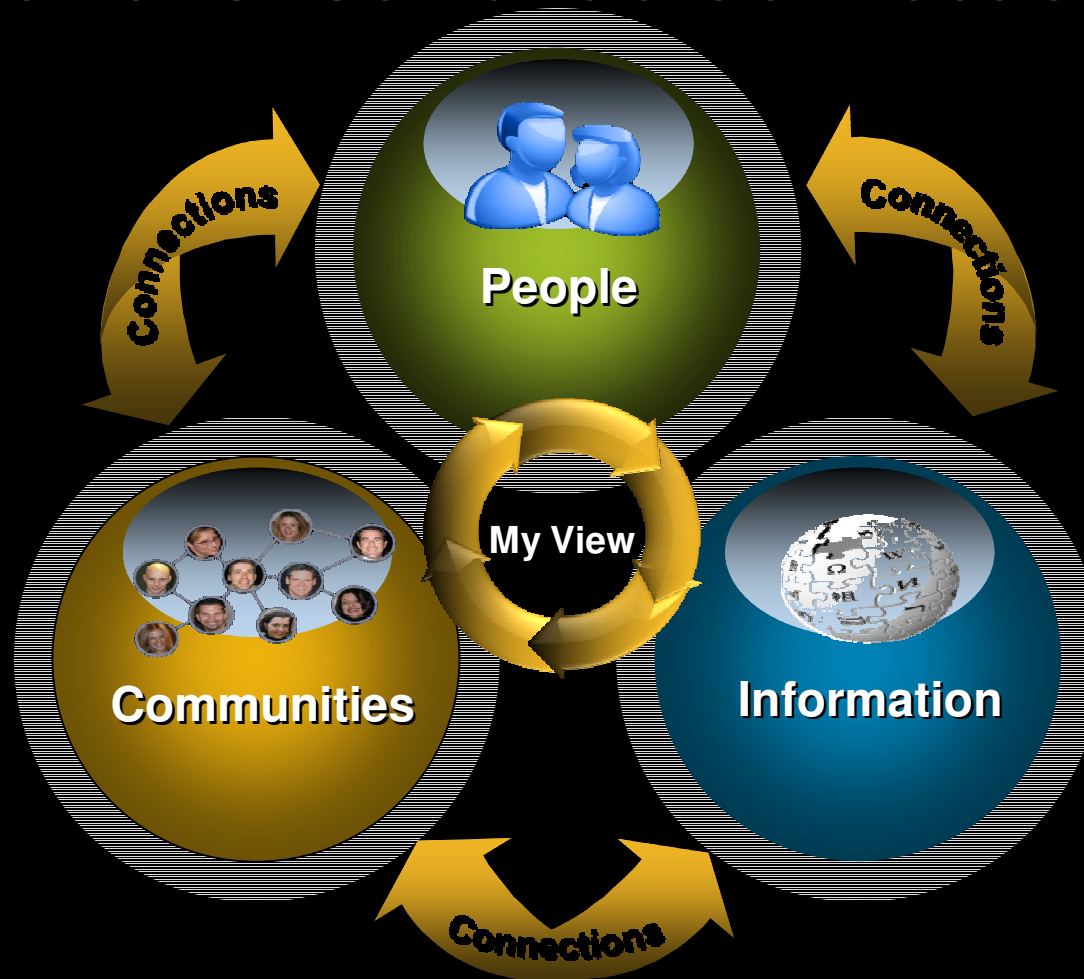
Easily create, publish, share, and consume content and expertise

Dynamically form and participate in virtual communities

Subscribe to trusted content sources or people
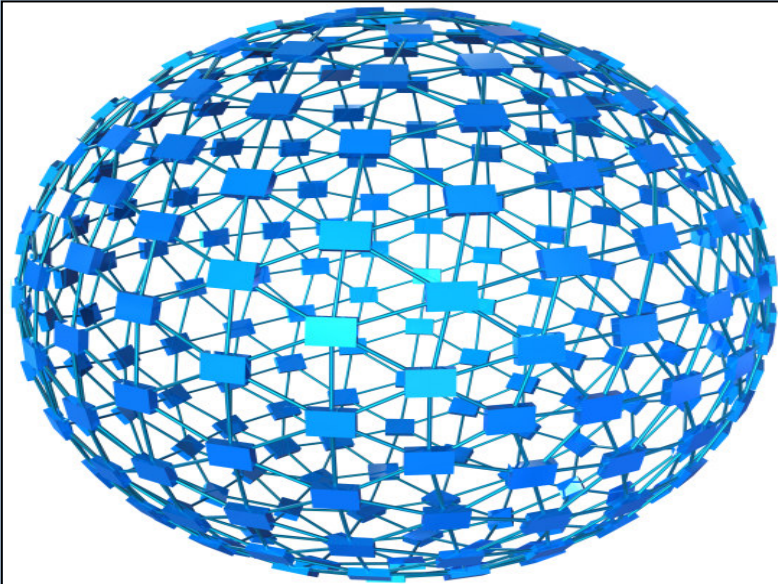
The Power of Semantic Connections

Delivering relevant, contextual content based on relationships, profile & activity

Vision of Semantically Linked Data
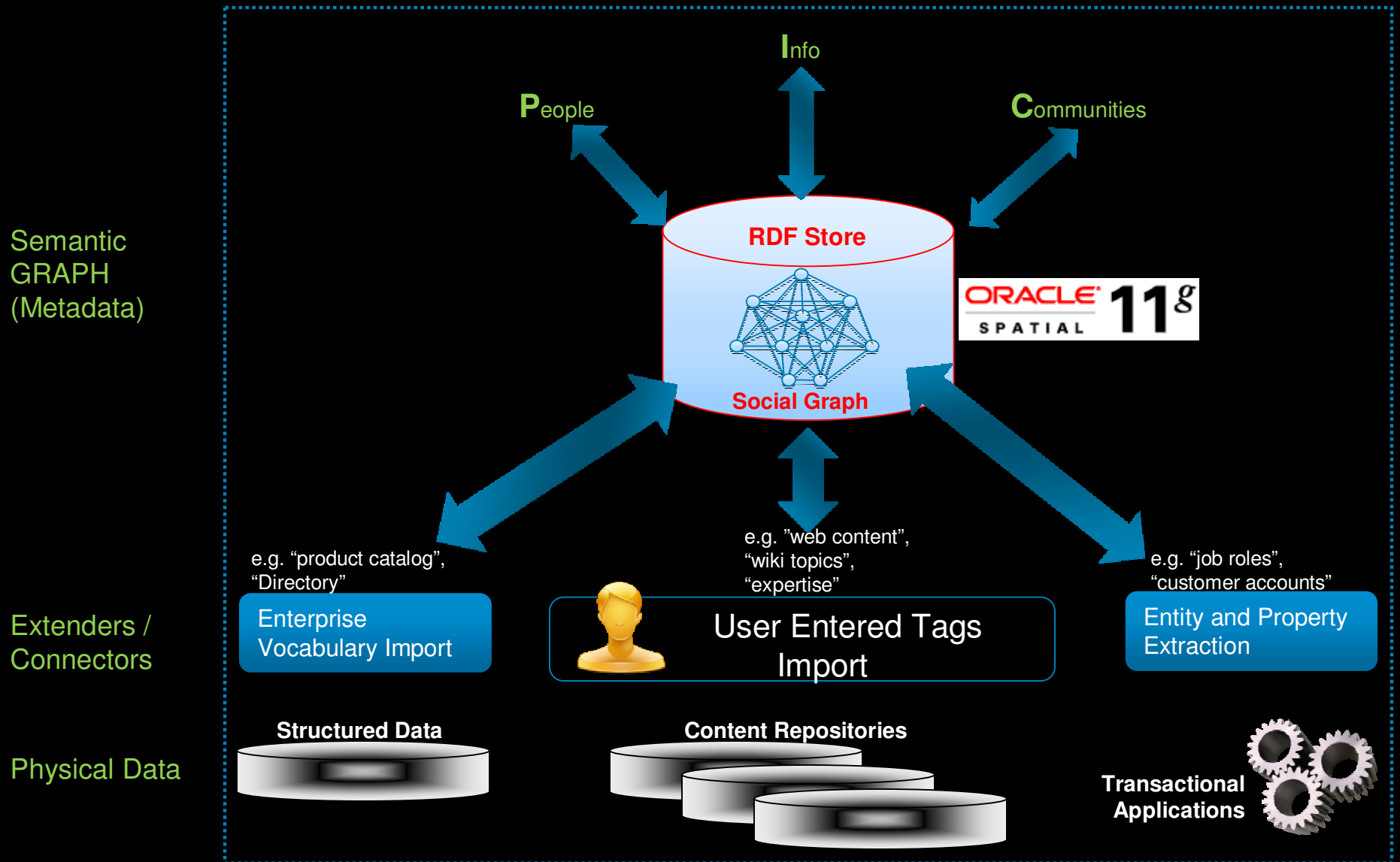## *The Network of Collaborative Knowledge*

A web of data that can be intelligently processed by machines delivering an environment that:

- Intelligent
- Relevant
- Contextual
- Interconnected

- Solves Problems
- Answers Questions
- Easily Searchable
- Let Information follow you

"The next generation of information workers will expect a highly visual, connected, contextual information workplace they can take anywhere."

Cisco Knowledge Network – Extending the QUAD Social Collaboration Graph

Info

People

Communities

Semantic GRAPH (Metadata)

RDF Store

ORACLE 11^g
SPATIAL

Social Graph

Extenders / Connectors

e.g. "product catalog", "Directory"

e.g. "web content", "wiki topics", "expertise"

e.g. "job roles", "customer accounts"

Enterprise Vocabulary Import

User Entered Tags Import

Entity and Property Extraction

Physical Data

Structured Data

Content Repositories

Transactional Applications

Why Oracle Spatial 11g?

Requirement: Persistent data store for a collaboration graph containing multiple billion triples.

- Selected after a comprehensive engineering analysis
  - As we are building a product our requirements were different to the typical IT solution deployment.

- Multiple packaged offerings
  - We chose Oracle Spatial Embedded

- Enterprise Grade.
  - Redundancy, Resiliency, Failover, Scalability etc...

- Demonstrated strong partnership and continues to do so.
  - We continue to seek performance improvements by working closely together.

- Oracle Database 11g Enterprise Edition is also used separately for the main social content database