Paradigm Shift for Data Access

Budget: 13 800 000 €

Running until November 2016

10 partners
5 countries
100 man years

FP7
Large-scale
IP project

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Optique Use Cases

SIEMENS

Up to 80% time on data access

Turnaround time: weeks

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Statoil

Up to 70% time on data access

Turnaround time: days

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Big Data: Challenges Beyond Volume

Complex case:
- Information need
- Specialized query
- IT expert
- Translation
- Disparate sources

Velocity Volume

Variety Complexity

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From **Weeks to Hours**

**Optique solution**

1. Engineer
2. Optique Application
3. Flexible, ontology based queries
4. Query translation
5. Translated queries
6. Disparate sources

**Timely, complete, and correct results**
Unique Combination of Techniques

- End-user-oriented Query Interface
- Scalable Query Rewriting
- Real-time Stream Processing
- Query Evaluation with Elastic Clouds
Optique Architecture

- End-user
  - Application
  - Query Formulation
  - Ontology
  - Query Transformation
  - Query Planning
  - Stream Adapter
  - Query Execution

- IT-expert
  - Ontology & Mapping Management
  - Mappings
  - Data models
    - Std. ontologies...

Cross-component optimization

Streaming data
fluidOps Platform as a Basis for Optique

**Product**
- **eCloudManager**
- **Information Workbench**
  - For a World Where All Data is Linked.

**Platform**
- **fluidOps Platform**
  - Cloud Management
  - Flexible & Data-driven UI
  - Semantic Data Management

**Virtualization & Linking Layer**
- vmware
- CITRIX
- Windows Server 2008
- Amazon Web Services
- Semantic Web
- SPARQL

**Infrastructure Layer**
- Enterprise Storage
  - EMC
- Network
  - Brocade Cisco
- Computing Resources
  - Server HP eClass Dell Cisco UCS

**Data Layer**
- Enterprise Data Sources
  - IBM
  - Microsoft
  - Open Data Sources
  -钉钉
  - 数据
  - internet
Optique Partner Programme

**Network Partner**
- Access to Optique project info and part of network.
- Biannual newsletter.
- Annual partner conference

**Discussion Partner**
- Detailed report on customer needs and data exploitation possibilities by Optique experts.
- Invitation to Optique project plenary meetings.
- Option to buy discounted software license and training package from fluid Operations AG

**Pilot Partner**
- Proof-of-Concept implementation of Optique at customer site.
- Optique license and consulting + training package from fluid Operations AG included
- Detailed report on customer needs and data exploitation possibilities by Optique experts.
- Invitation to Optique project plenary meetings.
- Option to buy discounted software license and training package from fluid Operations AG
Visit us at the exhibition booth!

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