

TECHNOLOGY TRANSFER PRESENTS

RICK VAN DER LANS

INCORPORATING BIG DATA, HADOOP AND NOSQL IN DW AND BI SYSTEMS

APRIL 12-13, 2017

RESIDENZA DI RIPETTA - VIA DI RIPETTA, 231
ROME (ITALY)



info@technologytransfer.it
www.technologytransfer.it

ABOUT THIS SEMINAR

Big Data, Hadoop, in-memory Analytics, self-service BI, Data Warehouse automation, analytical database servers, data virtualization, data vault, operational intelligence, predictive analytics, and NoSQL are just a few of the new technologies and techniques that have become available for developing BI systems. Most of them are very powerful and allow for development of more flexible and scalable BI systems. But which ones do you pick?

Due to this waterfall of new developments, it's becoming harder and harder for organizations to select the right tools. Which technologies are relevant? Are they mature? What are their use cases? These are all valid but difficult to answer questions.

This seminar gives a clear and extensive overview of all the new developments and their inter-relationships. Technologies and techniques are explained, market overviews are presented, strengths and weaknesses are discussed, and guidelines and best practices are given.

The biggest revolution in BI is evidently Big Data. Therefore, considerable time in the seminar is reserved for this intriguing topic. Hadoop, Spark, MapReduce, Hive, NoSQL, SQL-on-Hadoop are all explained. In addition, the relation with analytics is discussed extensively.

This seminar gives you a unique opportunity to see and learn about all the new BI developments. It's the perfect update for those interested in knowing how to make BI systems ready for the coming ten years.

WHAT YOU WILL LEARN

- Learn about the trends and the technological developments related to Business Intelligence, Analytics, Data Warehousing, and Big Data
- Discover the value of Big Data and Analytics for organizations
- Learn which products and technologies are winners and which ones are losers
- Learn how new and existing technologies, such as Hadoop, NoSQL and NewSQL, will help you create new opportunities in your organization
- Learn how more Agile Data Business Intelligence systems can be designed
- Learn how to embed Big Data and Analytics in existing Business Intelligence architectures

WHO SHOULD ATTEND

- Business Intelligence Specialists
- Data Warehouse Designers
- Business Analysts
- Technology Planners
- Technical Architects
- Enterprise Architects
- IT Consultants
- IT Strategists
- Systems Analysts
- Database Developers
- Database Administrators
- Solutions Architects
- Data Architects
- IT Managers

OUTLINE

1. The Changing World of Business Intelligence

- Big Data: Hype or reality?
- Operational Intelligence: does it require online Data Warehouses?
- Data Warehouses in the Cloud
- Self-service BI
- The business value of analytics

2. Overview of Analytical SQL Database Servers

- Are classic SQL database servers more suitable for Data Warehousing?
- Important performance improving features: column-oriented storage, in-database analytics
- Market overview of analytical SQL database servers

3. Hadoop explained

- The relationship between Big Data and analytics
- The Hadoop software stack explained, including HDFS, MapReduce, YARN, Hive, Storm, Sqoop, Flume, and HBase
- The balancing act: productivity versus scalability
- Making Big Data available to a larger audience with SQL-on-Hadoop engines, such as Apache Drill and Hive, CitusDB, Cloudera Impala, Hadapt, IBM BigSQL, JethroData, MemSQL, Pivotal HawQ, ScleraDB and Splice Machine

4. NoSQL explained

- Classification of NoSQL database servers: key-value stores, document stores, column-family stores and graph data stores
- Market overview: CouchDB, Cassandra, Cloudera, MongoDB, and Neo4j
- Strong consistency or eventual consistency?
- Why an aggregate data model?

5. Data Virtualization for Agile BI systems and Lean Integration

- Data Virtualization offers on-demand data integration
- Seamlessly integrating Big Data and the Data Warehouse
- Market overview: Cirro Data Hub, Cisco/Composite Information Server, Denodo Platform, Informatica Data Services, RedHat Jboss Data Virtualization, Rocket, and Stone Bond Enterprise Enabler
- Importing non-relational data, such as XML documents, Web services, NoSQL and Hadoop data, and unstructured data
- Differences between Data Virtualization and with data blending

6. New Business Intelligence Architectures

- Discussion of different BI architectures, including Kimball's Data Warehouse Bus, Architecture, Inmon's Corporate Information Factory, DW 2.0, the Federated Architecture, the Centralized Warehouse Architecture, the Data Virtualization Architecture, and the BI in the Cloud Architecture
- Do we still need Data Marts?
- What is the role of Master Data Management in BI architectures?
- Using data vault to create more flexible Data Warehouses
- Data Warehouse automation to create Data Warehouses and Data Marts faster

7. Operational Business Intelligence

- Analytics at the speed of business
- Different forms of operational BI: operational reporting, operational analytics, and embedded analytics
- What is time-series analysis?
- Integrating operational and historical data
- The role of data replication, rule engines, complex event processing and ESBs

8. New Forms of Reporting and Analytics

- Mobile BI, Exploratory analysis, self-service BI
- Collaborative Analytics: the marriage of social networks and BI
- Tools for embedded analytics
- Investigative Analytics and the Data Scientist
- R as the new open source platform for Analytics

9. Summary and Conclusions

- What exactly is Data Vault?
- Using a Logical Data Warehouse to make data in a Data Vault available for reporting and analytics
- The structured SuperNova design technique to develop virtual data marts
- SuperNova turns a Data Vault in a flexible database

MAIN TOPICS

- In-depth overview of all the modules making up Hadoop, including HDFS, MapReduce, HBase, Storm, and Yarn
- Critical assessment of the SQL-on-Hadoop engines, including
- Application areas of Hadoop in BI systems: sandbox, offloading cold data
- Letting classic reporting and analytical tools access Big Data stored in Hadoop
- Transparently offloading Data Warehouse data to Hadoop using data virtualization servers
- Integrating an Hadoop-based sandbox for Data Scientists in BI systems
- Developing operational Business Intelligence systems using Storm and other event processing engines

INFORMATION

<p>PARTICIPATION FEE</p> <p>€ 1300</p> <p>The fee includes all seminar documentation, luncheon and coffee breaks.</p> <p>VENUE</p> <p>Residenza di Ripetta Via di Ripetta, 231 Rome (Italy)</p> <p>SEMINAR TIMETABLE</p> <p>9.30 am - 1.00 pm 2.00 pm - 5.00 pm</p>	<p>HOW TO REGISTER</p> <p>You must send the registration form with the receipt of the payment to: TECHNOLOGY TRANSFER S.r.l. Piazza Cavour, 3 - 00193 Rome (Italy) Fax +39-06-6871102</p> <p>within March 28, 2017</p> <p>PAYMENT</p> <p>Wire transfer to: Technology Transfer S.r.l. Banca: Cariparma Agenzia 1 di Roma IBAN Code: IT 03 W 06230 03202 000057031348 BIC/SWIFT: CRPPIT2P546</p>	<p>GENERAL CONDITIONS</p> <p>DISCOUNT</p> <p>The participants who will register 30 days before the seminar are entitled to a 5% discount.</p> <p>If a company registers 5 participants to the same seminar, it will pay only for 4.</p> <p>Those who benefit of this discount are not entitled to other discounts for the same seminar.</p> <p>CANCELLATION POLICY</p> <p>A full refund is given for any cancellation received more than 15 days before the seminar starts. Cancellations less than 15 days prior the event are liable for 50% of the fee. Cancellations less than one week prior to the event date will be liable for the full fee.</p> <p>CANCELLATION LIABILITY</p> <p>In the case of cancellation of an event for any reason, Technology Transfer's liability is limited to the return of the registration fee only.</p>
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Residenza di Ripetta
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Registration fee:
€ 1300

If registered participants are unable to attend, or in case of cancellation of the seminar, the general conditions mentioned before are applicable.

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Technology Transfer S.r.l.
Piazza Cavour, 3 - 00193 Rome (Italy)
Tel. +39-06-6832227 - Fax +39-06-6871102
info@technologytransfer.it
www.technologytransfer.it



SPEAKER

Rick van der Lans is an independent consultant, author and lecturer. He specializes in Business Intelligence, Data Warehousing, and Service Oriented Architectures. He is managing director of R20/Consultancy. Mr. van der Lans is an internationally acclaimed lecturer. For the last 12 years, he has been presenting professionally, and has lectured in many of the European countries, South America, the USA, and in Australia. He has presented many keynote speeches at international events. Mr. van der Lans is chairman of the Database Systems Show (organised annually in The Netherlands since 1984), he is columnist for two major newspapers in the Benelux, called *Computable* and *DataNews*. Additionally, he is advisor for magazines such as Software Release Magazine and Database Magazine. His popular books, including “**Introduction to SQL**” and “**The SQL Guide to Oracle**”, have been translated into many languages and have sold over 100,000 copies. Recently, he has published a very successful book on presentation skills.