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# GRAPHS for BUSINESS

May 22, 2019 #Larus15

Speakers and Abstracts





## **Preface - 15 Years of LARUS**

Welcome!

Today, we're extremely proud to celebrate LARUS' 15th Birthday with a sensational graph tour: a full day of content-rich sessions on how graph databases are revolutionising the modern enterprise.

This one-day event will turn you into a graph expert — no matter your technical background or familiarity with graph technology!

Meet our experts to hear first-hand about the advantages of Neo4j's native Graph Platform, which offers not just the Neo4j database, but also Analytics, Data Import and Transformation, Visualization, and Discovery capabilities.

Enjoy the conference and the party! :-)



## Agenda

*9:30 Welcome Coffee and Registration*

**10:00 Opening Keynote** - Lorenzo Speranzoni (CEO @ LARUS)

**10:10 RIOS – Rete Italiana Open Source** - Roundtable

**10:40 BNOVA and the partnership with LARUS** - Serena Arrighi (CEO @ BNOVA)

**11:05 Graphs for Business** - Dirk Moeller (Director of Sales, CEMEA @ Neo4j)

**11:30 Integrating ElasticSearch and Neo4j: how to improve the search capabilities of a graph database** - Stefano Pampaloni (CEO @ SEACOM)

**11:55 Network Driven Insights** - Pedro Parraguez (CEO @ Dataverz) and Fabio Lamanna (Data Scientist @ LARUS)

**12:25 IT Asset Management** - Alessandro Scuderetti (DevOps Engineer & Data Architect @ Banca Mediolanum)

*13:00 Lunch*

**14:00 Graph4You** - Nunzio Pellegrino (Senior Data Scientist @ Cerved)

**14:35 Streaming Services w/ Kafka** - Michael Hunger (Director of Neo4j Labs @ Neo4j) and Andrea Santurbano (Data Engineer @ LARUS)

**15:10 Building and maintaining dynamic links: a new perspective on regulatory needs and risk assessment** - Matteo Gatti (Director-Head of Business Information Services @ Innolva)

**15:45 Graph intelligence: augmenting the capabilities of data-driven analysts** - (Matthieu Besozzi, Linkurious)

**16:20 Closing Keynote** - Alberto De Lazzari (Chief Scientist @ LARUS)

*16:55 Spritz Party*



## **Speakers and Abstracts**



## **Lorenzo Speranzoni**

Lorenzo has been a pragmatic and passionate IT-expert in software architectures and Agile methodologies since 1997.

After some significant experiences in business critical projects, in 2004 he founded LARUS Business Automation ([www.larus-ba.it](http://www.larus-ba.it)), where he currently holds the position of CEO. Nevertheless, he maintains his passion in software development by supporting his R&D team and actively contributing in some projects.

Since 2013, he's been focusing on NoSQL & BigData technologies and in 2016 he was nominated "Neo4j Ambassador" for his particular interest and devotion to spreading knowledge about Graph Databases.

He loves teaching and helping people to build passionate teams, and in his spare time he cultivates his passion for art and cycling.

### Opening Keynote

Lorenzo introduces the conference going through the crucial moments of the past 15 years of LARUS activity and focusing on the strategies and the evolution planned for the next years to be recognised as a Data-Driven leading company.



## **Dirk Moeller**

Dirk Möller has more than 20 years of working experience in IT. Having held senior positions at companies including Symantec, MongoDB and Couchbase, he has gained extensive know-how in NoSQL and graph databases. In his role as Area Director of Sales CEMEA at Neo4j, Dirk supports customers in replacing or expanding their existing database solutions, exploiting the value of connected data with the Neo4j Graph Platform in order to reduce costs.

### Graphs for Business

Graphs databases are lately growing very fast in business. We'll have a look at the complexity of modern environment and how Neo4j could help reaching the maximum starting from your needs. The strategic partnership between Neo4j and Larus helped companies in Italy, Europe and Worldwide adopting the technology and reaching their goals very fast.



## **RIOS (Rete Italiana Open Source)**

Open Source Italian Network with Partners

Roundtable



## **Pedro Parraguez Ruiz**

Pedro Parraguez is the co-founder and CEO of Dataverz, a technology-based startup that develops decision-support systems to tackle societal challenges. Pedro's research and applied work are focused on complex socio-technical systems, with emphasis on network science and data-driven analyses. This includes the study and development of decision-making support for industrial clusters, complex organisations, and large engineering projects.

## **Fabio Lamanna**

Fabio is a Ph.D. Civil Transportation Engineer, in love with all things related to mobility, data and network dynamics. He's currently working at LARUS, the #1 Italian Partner with Neo4j, as Neo4j Certified Consultant and Trainer. Graphs and networks integrate, support and enjoy his working life, from consulting activities on transportation networks analysis, to research projects with data coming from social networks, cities and transportation systems.

### Network Driven Insights

Graph databases are a powerful new tool that requires to rethink the questions we pose and what we believe is possible to ask. This talk will explore the co-creation process during a one-week intense Bootcamp where two worlds meet; applied network science and graph databases. During the talk, we will share key learning points and ideas for the way forward.



## Alessandro Scuderetti

Mi interesso e mi occupo di architettura enterprise e tematiche in ambito DevOps. Ho un approccio al lavoro che mi ha permesso di acquisire in tempi brevi padronanza di nuovi ambiti tecnici e organizzativi, basato sullo studio delle best-practice, orientamento al cliente e propensione al confronto. Ritengo di poter apportare valore in termini di visione d'insieme, competenze tecniche enterprise, capacità di gestione e mentoring.

Il mio ambiente di lavoro ideale è sensibile all'innovazione, valorizza la qualità e possiede una visione condivisa.

### IT Asset Management

Nel percorso DevOps di automazione e controllo dell'intera filiera di produzione del software, Banca Mediolanum sviluppa un Configuration Management System ovvero uno strumento di analisi degli asset tecnologici basandosi su Neo4j.

La scelta di modellare il dominio come un insieme di relazioni tra entità diverse ma tra loro naturalmente connesse si rivela vincente nel consentire di fornire insight mirati ed efficaci ai differenti attori e processi.

Il graph database diventa il supporto di analisi strumentale per gli Specialisti IT nelle operazioni quotidiane di analisi di impatto, disegno, governo e governo degli asset tecnologici.



## Stefano Pampaloni

Stefano Pampaloni, Business Open Source Evangelist, CEO @Seacom srl: sostenitore convinto dell'Open Source, ha creato il suo primo Internet Service Provider nel 1995, implementando l'intera infrastruttura attraverso software Open Source. Nel corso degli anni ha fondato diverse "Internet Company" tra cui una compagnia telefonica. Grazie a queste esperienze ha acquisito un bagaglio di conoscenze tecniche e manageriali, specialmente nel campo dei sistemi di comunicazione, collaborazione e Bigdata. È inoltre community manager per Elastic User Group Italy e Kafka - Confluent Rome.

### Integrating Elasticsearch and Neo4j: how to improve the search capabilities of a graph database

The integration of Elasticsearch with NEO4J is able to extend the functionality of graph databases with advanced search features, while maintaining a high level of performance and scalability. In this speech we will show which are the most common approaches of integration and we will describe some explanatory use cases of the solution.



## **Serena Arrighi**

Serena Arrighi is CEO @BNova and @Big Data Tech.

### BNova and the Partnership with LARUS

Bnova has a long-time partnership with Larus. In this talk Serena Arrighi will present common features of both companies and how their specialties integrate with each other. Such collaboration helped companies to get the best from technological services such as Neo4j and all NoSQL world; from Data Governance to Process Governance, until a full data intelligence company.



## Michael Hunger

Michael Hunger has been passionate about many aspects of software development even before he received his Master of CS. He is particularly interested in the people developing software, software craftsmanship, programming languages and improving code.

## Andrea Santurbano

Andrea Santurbano is a data engineer at LARUS Business Automation (the integrator leader for Neo4j) with seven years of experience developing high-performance, mission-critical systems, and large-scale data pipelines across multiple and heterogeneous systems. Andrea loves open source and contributed to several big data projects, such as Apache Zeppelin, Cypher for Apache Spark and others for the Neo4j ecosystem. As a developer, he's very curious about discovering new technologies, and enjoys the continuous learning process that allows making things better every day.

### Streaming Services with Kafka

Nowadays real-time Messaging Systems has become widely used, covering a variety of use-cases, from log aggregation to real-time Stream Processing (in combination with Big Data Processing Frameworks). In this talk we'll introduce how to use Apache Kafka (the most used Message Brocker) in combination with Neo4j through the Neo4j-Streams project, demonstrating via simple use-cases how you can leverage the information driven by the Change Data Capture Module and how to add Neo4j in your streaming flow by using the Sink module.



## Nunzio Pellegrino

Data Scientist in Cerved, he works in the Innovation Team, a group constantly focused on extracting value from data and resolving problems with the latest technologies. He holds a degree in Statistics with a background in Machine Learning. He's been primarily worked in Data Integration and Business Intelligence projects for 3 years. In Cerved, he's the Product Owner of Graph4you, a web application based on the graph database neo4j. Also, he's involved in Italian Open Data projects. R enthusiastic, Python practitioner and fascinated by the graph ecosystem.

### Graph4You

Why you need custom Graph Algorithms? Neo4j are introducing Graph Algorithms more and more. However, custom graph algorithms are necessary in order to adapt to its own business requirement and the structure of its own graph. In this talk, we will show how Cerved, from the Italian business graph, created a closeness score between pairs of economic entities (companies or people) and an economic entity and a blacklist / whitelist, using a custom weighted shortest path algo.



## Matteo Gatti

Innolva is a company of the Tinexta Group which operates in the Business Information & Credit Management field and is a strategic partner of banks, companies, professionals and public administration, supporting business decisions with evaluation and monitoring risk, target & market analysis, evaluation and debt collection services. He started his career as Project Manager in Dun and Bradstreet and afterwards worked as advisor at CRIBIS D&B, joining in 2010 Ribes SpA as Head of Product Development and Business Information and becoming in 2014 Business Information Marketing Manager.

### Building and maintaining dynamic links: a new perspective on regulatory needs and risk assessment

Outlining a company's web of relationships has become increasingly complex in these past few years. Different regulatory and compliance frameworks require to define these relationships differently in each business context; for example, the interpretation of how and how much a shareholder and a company are related will be different depending on whether we find ourselves in the realm of state-backed finance programs, SME definition, Risk Assessment or UBO definition.

When identifying a Group – a set of companies linked between each other in accordance with the specific rules applicable to the specific business context-preserving data integrity and building consistent data quality policies on shareholders' DB is a key issue, as well as having the capability to deliver insights on company relationships compliant to the regulatory framework of that specific context

Innolva is going to explain its own path to win this trade-off, increasing the overall performance of Group construction and maintaining the flexibility in Group structure definition.



## Matthieu Besozzi

Matthieu is Partnership Manager at Linkurious and cofounder of Wyca Robotics.

### Graph intelligence: augmenting the capabilities of data-driven analysts

Graph technology is critical for organizations to leverage their data in many domains. The graph acts as a foundation to build a complete intelligence picture, eliminating blind spots and reducing the time spent tracking siloed information. But once your graph database is built, how can non-tech savvy and business users use it to find information and make decisions?

Linkurious will present the Graph Intelligence approach, and shows how together with Neo4j and Larus, they augment the capabilities and speed of data-driven investigators. They will showcase the latest investigation features of their Linkurious Enterprise platform.



## **Alberto De Lazzari**

Alberto is Chief Scientist at LARUS Business Automation (the integrator leader for Neo4j). In the last 10 years, he worked in very different fields from the automotive and fleet management to the insurance and banking environments. Since 2007 he has been working on both legacy systems and modern ones facing a wide range of integration IT projects.

Graphs have always been his passion since the university where he made a thesis on clustering algorithms and neural networks.

He helps Banks, Governments and Industries building successful and highly scalable graph-based systems. He also contributes in some Neo4j official projects like APOC and ETL.

### Closing Keynote - From connecting the dots to actionable algorithms

Native graph databases are increasingly being adopted by a wide range of companies, from startups to enterprises. The high value of analyzing data relationships is now a well-established and recognized concept.

Now it's time to take a step further and exploit the potential of algorithms to extract actionable knowledge to solve our problems.



## LARUS Business Automation

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## Who we Are

Headquartered in Venice, we help companies around the world designing large-scale data-driven systems based on the latest NoSQL technologies. As the #1 Solution Partner of Neo4j Inc. in Italy, we help universities, institutions and companies succeeding with Neo4j, the world's leading graph database.

## What we do

The graph database is the most sophisticated technology to store and manage relationships between data. With 10+ years of experience in business-critical project, we built customizable solutions powered by Neo4j aimed at improving your business, extracting value from connected data.