

### **Inaugural CDOIQ European Symposium**

8<sup>th</sup> September 2022 University of Lausanne, Switzerland https://cdoig-europe.org/



## **Session 7B**

# How Quantum Computing will change the role of the CDO



**Dr. Juan Bernabé Moreno**Director of Research Europe / Dublin (former CDO E.ON SE)

**Bio:** Dr. Juan Bernabé-Moreno is the Director of IBM Research Europe, Ireland. with the responsibilities to drive innovation and grow a world-class industrial research organization in AI, Accelerated Discovery, high performance computing, mathematical modeling, quantum computing, and other cutting-edge sciences and technologies.

Juan is a highly recognized leader in data and AI in both academia and industry. Most recently, he has been the Chief Data Officer and Global Head of Analytics and AI at E.ON, the world's largest investor-owned energy service provider, leveraging data and algorithms to support the energy transition. Overall, he has more than 20 years of experience in the field of data and AI, and has delivered large data transformation programs for top companies in Spain and Germany. He has maintained his profile as active researcher to this date, including ongoing collaborations with the Mathematical Institute at the University of Oxford, the AI department at the University of Granada, and as a lecturer on quantum applications at the Ludwig Maximilian University of Munich.

Juan holds a PhD in Computer Science from University of Granada. He has over 40 publications and is the recipient of several patents.

**Brief description:** The adoption of Quantum related technologies in the industry is increasing exponentially. Quantum Computing needs to become part of the CDO's agenda because it is impacting the way we work with data, solve a-priori intractable problems, the way we design modern algorithms. This presentation aims at providing



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transparency around the topic, its relevance for CDOs and how to position strategically the topic.

**Abstract:** Description of the presentation along with a number of bullet points that describe what the attendee will learn from this presentation.

- How Quantum Computing is emerging and the state of the art
- What Quantum Computing means for data analytics (including machine learning,
- Which kinds of problems are suitable for Quantum (what is good for / what is not good for)
- Different models to introduce Quantum Computing in organizations
- Ecosystem, players and how to develop a CDO-ready Quantum Strategy

#### **Key words:**