



**POLITECNICO**  
MILANO 1863

DIPARTIMENTO DI  
INGEGNERIA GESTIONALE

## DIG PhD scholarship

<b>Title</b>	<b>Innovative Digital Procurement to manage supply chain risk, sustainability and finance</b>
<b>Theme</b>	<p>Supply Chains today are global and complex, and are exposed to major challenges such as climate change, geopolitical tensions and health issues. Therefore supply chains today play a fundamental role in terms of Risk Management and Sustainable Development: they may be a source of major problems and negative impacts, on both the society and the environment, or they may become a key contributor to sustainability. At the same time, the Digital Transformation is radically impacting supply chains and in particular the Procurement function: technologies such as the Internet of Things, Blockchain, 3D Printing, Big Data Analytics and Artificial Intelligence are becoming pervasive and can revolutionize the way supply chains are designed and managed, impacting the fundamental performance of delivery, quality, flexibility and cost, as well as environmental and social sustainability. In addition, today supply chains need to manage not only physical and information flows, but also financial flows, since without a proper coordination of the three flows it is not possible to meet the overall goals. The discipline of Supply Chain Finance is strictly related to Risk Management and the Sustainability of supply chains (e.g. for ensuring a proper allocation of resources to all the actors in the supply chain, including the weakest ones and to mitigate the risk of bankruptcy for suppliers) and relies heavily on digital technologies to improve efficiency and effectiveness. Supply Chain Management Research today needs to address the challenges raised by Risk Management, Sustainability, Digital Transformation and Supply Chain Finance, combining multidisciplinary approaches to find innovative answers to the radical problems that the world is facing today.</p>
<b>DIG professors involved</b>	Stefano Ronchi, Federico Caniato, Antonella Moretto, Veronica Leon Bravo
<b>International collaborations</b>	Massachusetts Institute of Technology (MIT), Fraunhofer Institute, University of Groeningen, Supply Chain Finance Community, ESADE, EADA Business School, Florida International University, Audencia Business School, Rotterdam School of Management, University College Dublin, Cardiff University