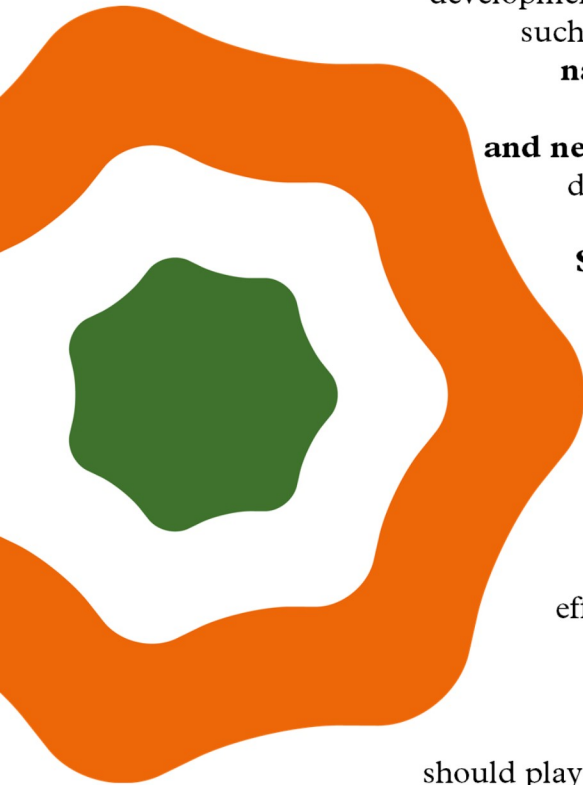


Industry 4.0 in UniTo



The new industry will be characterized by developments of a range of new technologies such as **artificial intelligence, robotics, nanotechnology, biotechnology, advanced manufacturing and new materials**. The resulting job displacement would likely occur in labour-intensive industries.

Skilled workforce is key for the development, introduction and exploitation of the Industry 4.0 potentials. Post-graduate education and vocational training programmes provide the most appropriate environment to **human capital** that best fit with firms' requirements to effectively adopt new technological and organizational solutions.

UniTo and, generally speaking, **academic institutions** should play the role not only of **technological pivots**, but also of **gatekeepers linking industry, society and territory**.

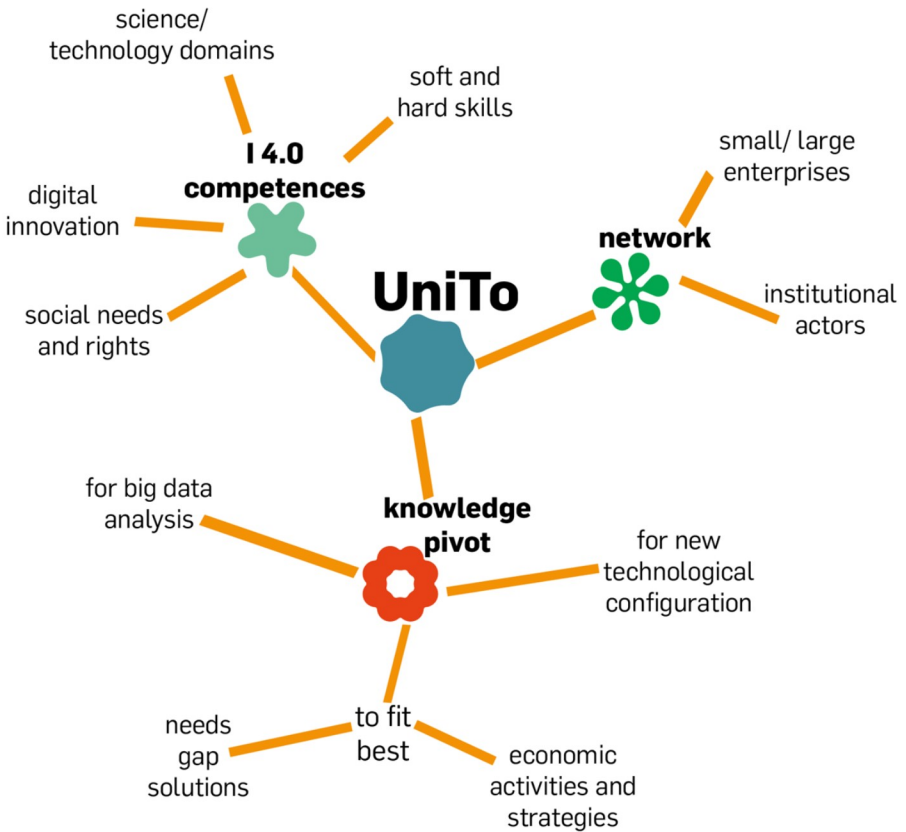


**Università
di Torino**

UniTo has implemented an extensive educational and training framework in a number of core fields relevant to Industry 4.0:

Economics and Business Models Circular economy, Sharing economy, Business Models Canvas, Sustainability and Financials
Digital Technology Management Internet of Things (IoT), Internet of Data (IoD), Big & Fast Data, Data Analytics Cloud & Cloud Computing, High Performing Computing
Smart Product & Smart Design Smart Materials, Smart Prototyping, Additive manufacturing, Wearable Technologies, Design Thinking

Smart Human Resource Management Ergonomics, HR management, innovation & Skills reconfiguration, New Organizational Models
Smart Logistic & Maintenance Management
Security & Risk Management Risk assessment & Risk Management
Design and testing of innovative materials, sensors and devices.



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