



**POLITECNICO**  
MILANO 1863

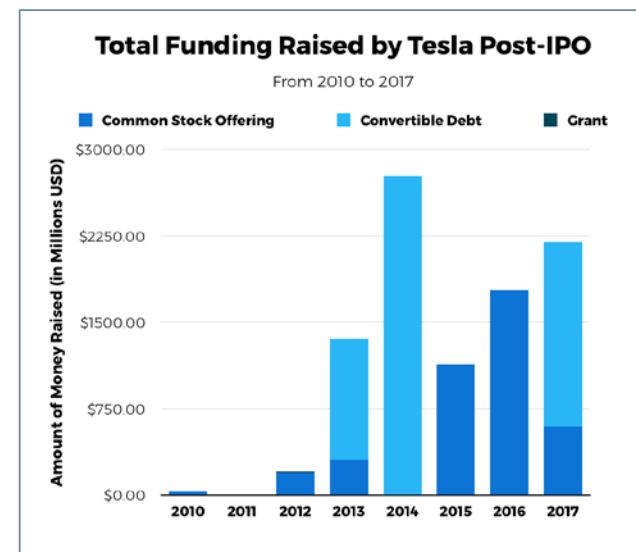
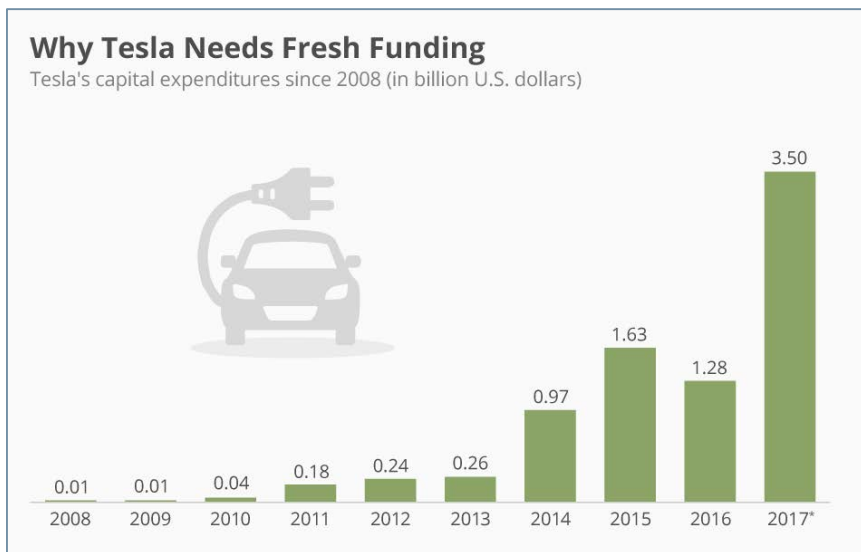
**M.Sc. Management Engineering**

**FINANCE**

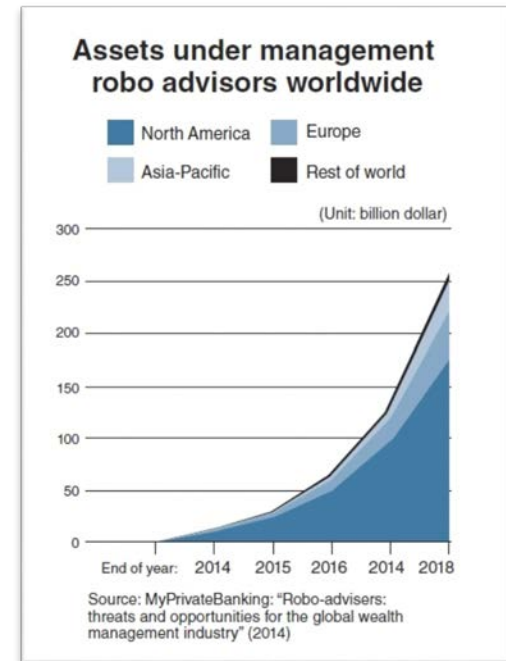
Milano, September 26th 2020

# Finance

- Probably **many successful and innovating companies would not exist today, if they had not found support from financial markets**, including banks, professional investors, funds, asset management companies
- **Finance is fundamental** to grant access to money and opportunity for any investment in growth, manufacturing, operations, ICT, R&D and innovation



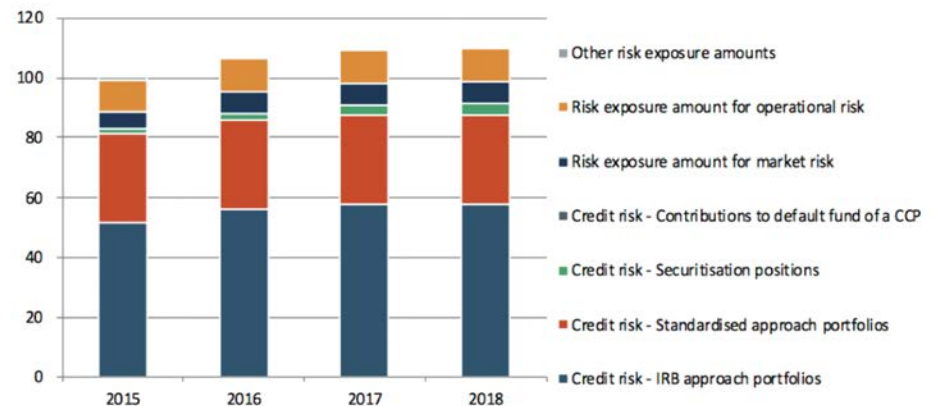
- Financial markets have become **more and more complex** in terms of actors, tools, regulations and global interactions
- Around the world **investors and investments are growing at a fast pace**, this requiring **skilled professionals** to manage the interrelatedness of global markets and the demand for capital
- The **integration between finance and technology ('fintech')** and the increased attention towards **sustainable investments** creates tremendous opportunities for engineers
- In the Finance arena, **management engineers** are able to provide rationality, quantitative skills, evaluation tools, modelling competences in order to manage efficiently a market that is growing around the world



# Finance

- **Banking institutions** are facing a challenging, yet precarious, time
- Financial Authorities, not only as a consequence of regional problems but also of the global landscape, are improving their effort to build more robust and sound financial systems
- Further, as banks and the financial system is increasing in scale and complexity, the importance of monitoring rapidly changing risk exposures with **sophisticated financial risk management techniques** is trivial

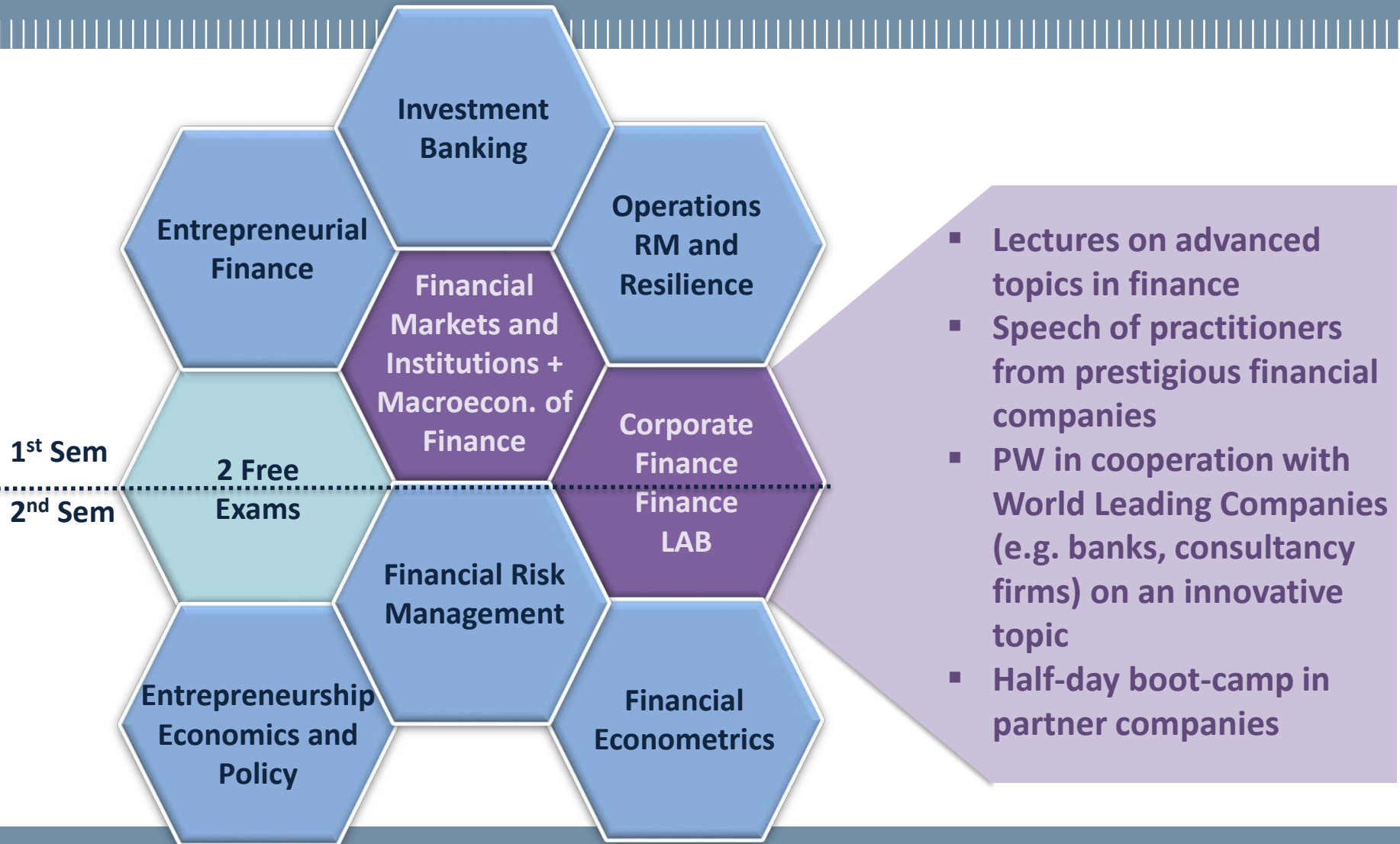
Figure 12: Evolution of risk exposure amount by risk type under the adverse scenario (2015 = 100)



- Knowledge of **financial markets** and their structure
- Knowledge of the main **financial intermediaries**
- Knowledge of the **financial management** in large firms
- Knowledge of main **risk categories**, both financial and non-financial
- Knowledge of financing methods available to firms to **raise financial resources** during their life cycle especially in the **startup phase**
- Knowledge of the **main financial instruments** (e.g. bonds, shares, derivatives, supports to internationalization)

- Graduated students are employed mostly in financial companies, consulting, service and manufacturing companies in Italy as well as abroad (London and EU, USA, Dubai, Singapore, ...). Typical functions are:
  - **Asset & Investment Management**
  - **Corporate Finance**
  - **Investment & Commercial Banking**
  - **Risk Management**
  - **Accounting & Finance**
  - **Research and financial rating**
- There is a **tremendous request** at the moment for Management Engineers with a Finance background
- **Salaries are competitive**, compared to other engineering professions

# Finance (second year)



- The Finance Lab is the **‘core’ activity** of the stream. It is organised into two different parts:
  1. Lessons on **advanced topics in finance** and **interventions from practitioners** from prestigious financial companies (private banks, funds, ...)
  2. **Project work**: students develop a project on an innovative topic in **strict cooperation with companies**. Here are some examples of past projects:

*Financing Industry 4.0*

*Credit rating in P2P lending*

*Health coverage innovation in Italy*

*Capital requirements of Italian banks*

*Italian banking foundations*

*Asset allocation & ESG (environment social governance) issues*





- Students are also involved in other activities in order to increase their knowledge of the industry and mature experiences before the graduation



***CFA Research Challenge***  
*Politecnico di Milano*  
*Top winner in Italy*



*Study tour in London*  
*(Starting Finance students' Club)*