

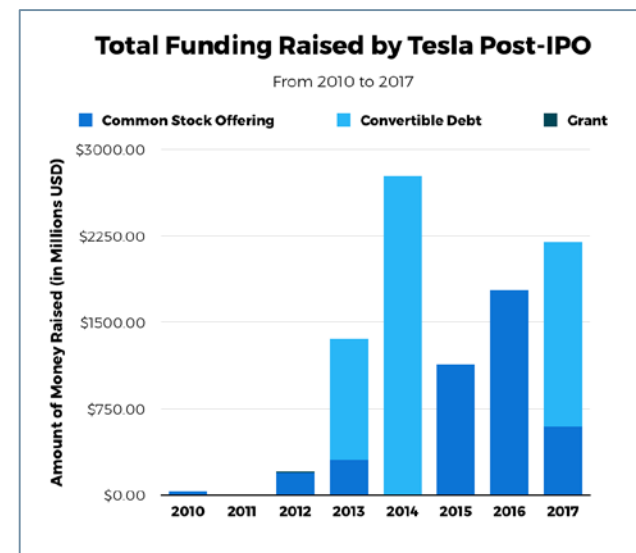
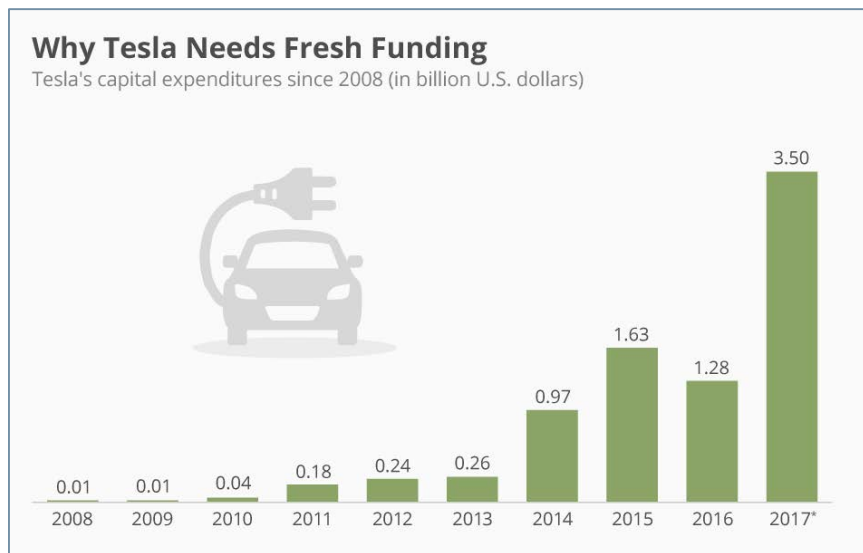
POLITECNICO
MILANO 1863

Master of Science in Management Engineering Stream Finance

Academic Year 2019-2020

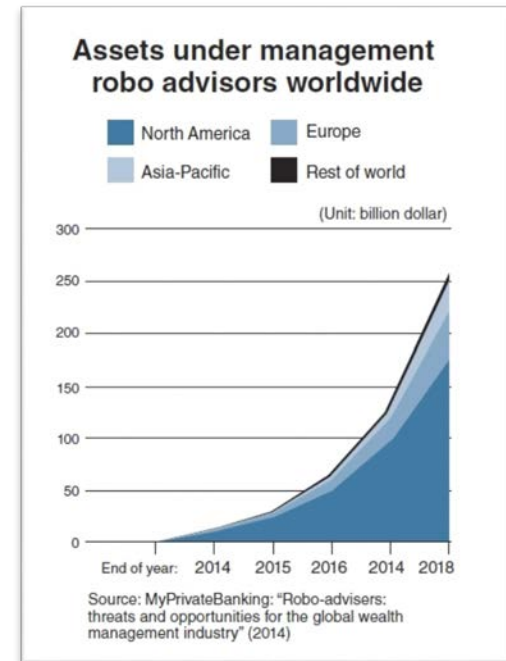
Scenario and market needs

- 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



Scenario and market needs

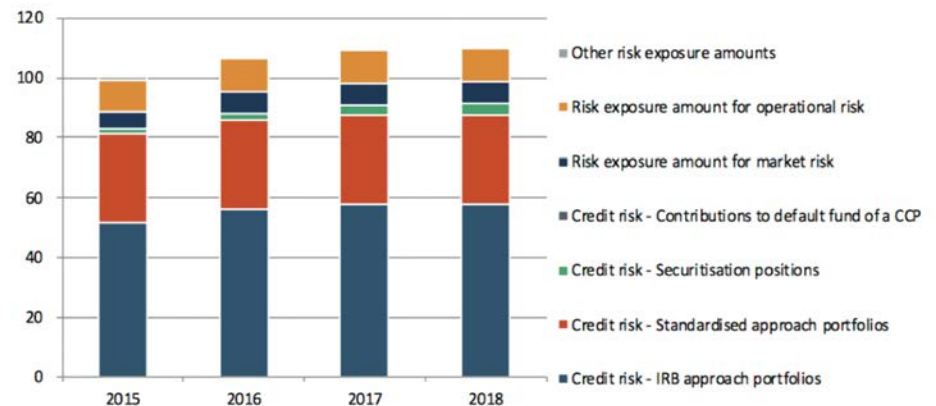
- Financial markets have become **more and more complex** in terms of actors, tools, regulations and global interactions
- Around the world **investors and investments are growing at a fast pace**, this requiring **skilled professionals** to manage the interrelatedness of global markets and the demand 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



Scenario and market needs

- **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)

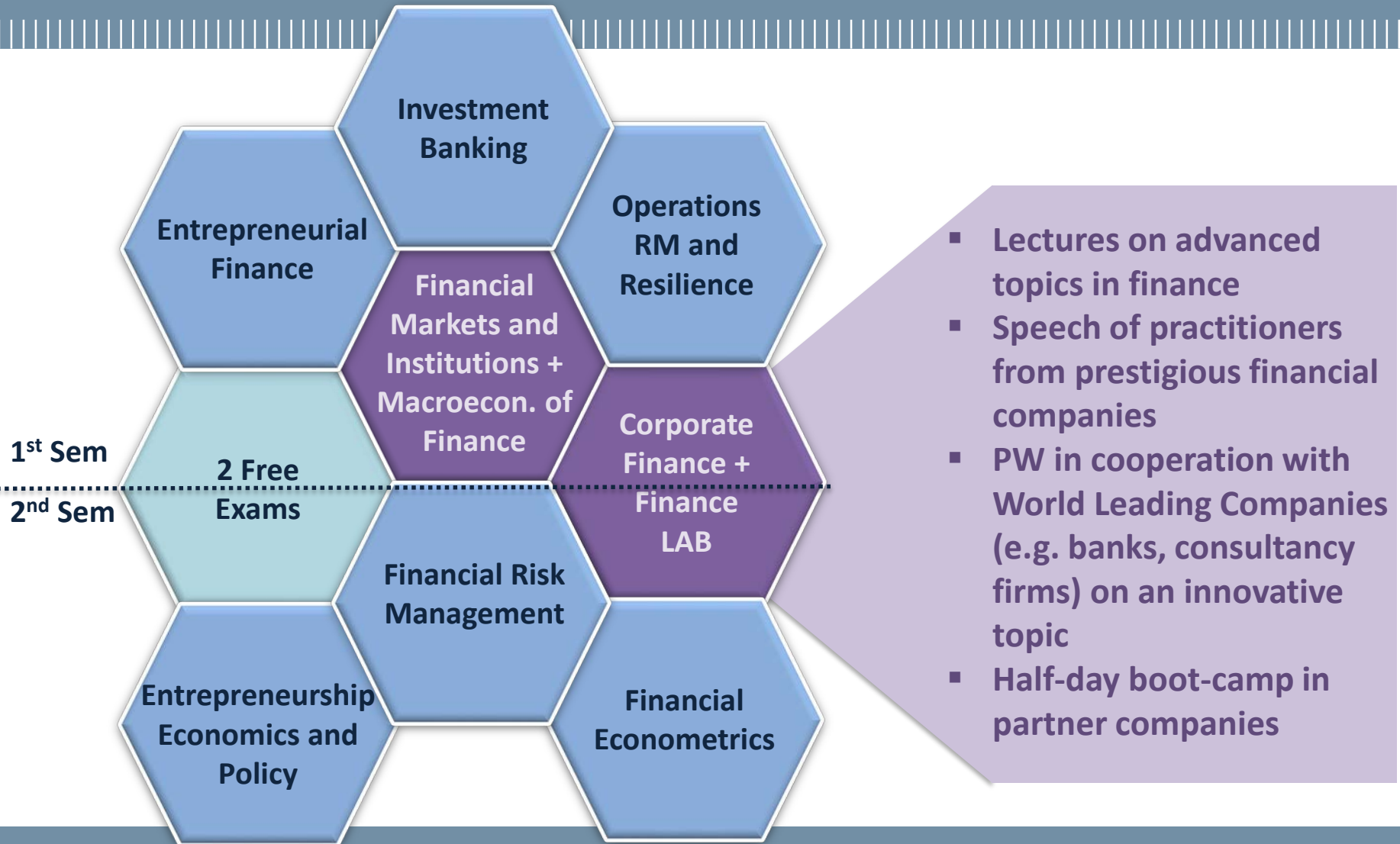


Learning outcomes

- 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

Stream architecture (second year)



Stream architecture

Finance Lab

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



Stream architecture

Finance Lab

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 2016
Politecnico di Milano
Italian and EMEA Champion
Top 4 World Universities



Study tour in London, 2016

Contacts

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