

MEET THE PRACTITIONERS FINANCE AND BANKING

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DOCUMENT OBJECTIVES

- **Overview of Reply Group**
- **Focus on Avantage Reply**
- **Avantage Reply capabilities on Financial Institutions**
- **What is our job ? Two business cases**
- **Key Competencies from new hired people**



AGENDA

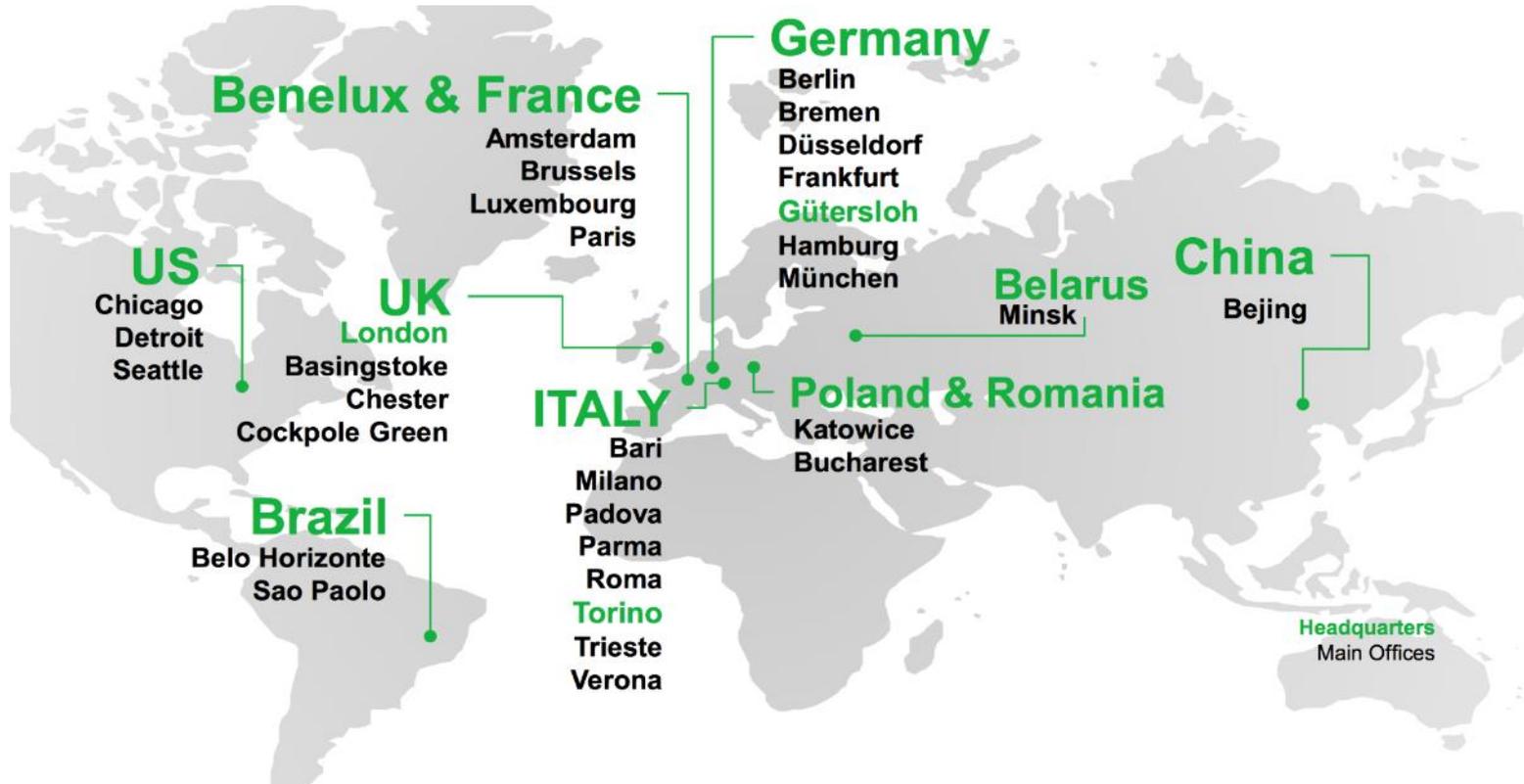


- **REPLY GROUP IN A NUTSHELL**
- **AVANTAGE REPLY – WHO WE ARE**
- **AVANTAGE REPLY – OUR CAPABILITIES**
- **AVANTAGE REPLY – OUR FINANCIAL INSTITUTIONS EXPERIENCES**
- **WHAT IS OUR JOBS? TWO BUSINESS CASE**
- **KEY COMPETENCIES AND PROFESSIONAL GROWING**



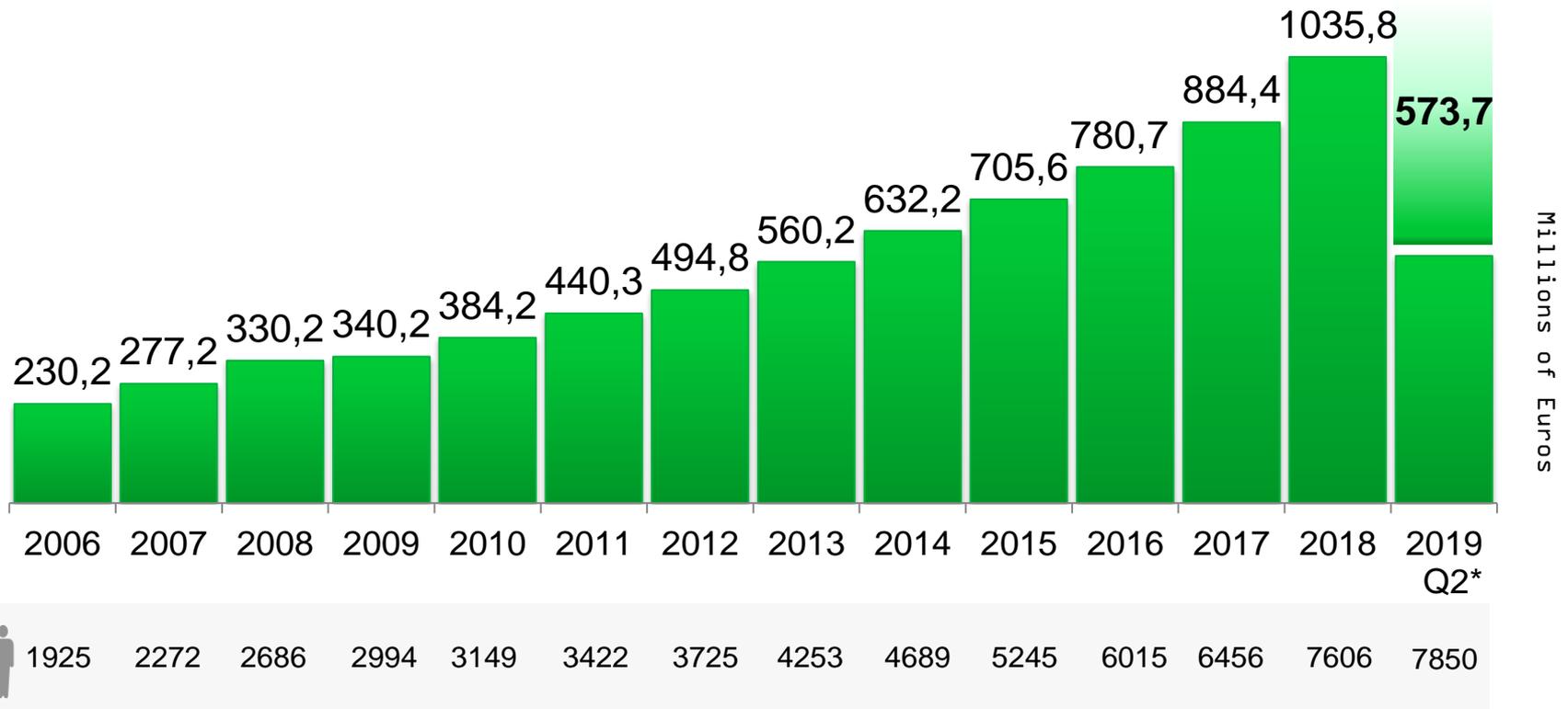
REPLY GROUP

ITALIAN OWNERSHIP, INTERNATIONAL FOOTPRINT



REPLY GROUP

KEY POINTS



- **FIG (Financial Institutions Group) is one of principal market of Reply Group**
- **More than 25% total revenues is due to the FIG market with around 1.800 specialist (1.300) in Italy**

*QUARTERLY REPORT "2019.06.30": Consolidated turnover of €573.7 million (+15.2% with respect of I quarter 2018)



REPLY NETWORK MODEL



REPLY GROUP

FINANCIAL SERVICES - OUR CLIENTS

Within Financial Services, we work with clients at Group, subsidiary and branch levels. We provide management consultancy services, system integration and digital services with a focus on the conception, innovation, design and implementation of solutions to implement strategic, business and regulatory changes in a client-centric and cost effective way.



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REPLY GROUP IN A NUTSHELL



AVANTAGE REPLY – WHO WE ARE



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WHAT IS OUR JOBS? TWO BUSINESS CASE



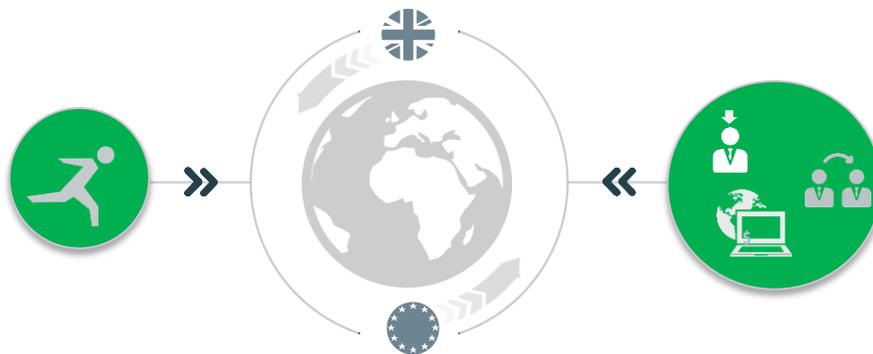
KEY COMPETENCIES AND PROFESSIONAL GROWING



AVANTAGE REPLY

FROM DESIGN TO OPERATIONAL IMPLEMENTATION

We are a specialized management consultancy fully integrated across our 13 European offices, with over 300 consultants working with leading financial institutions and for the regulators themselves. In addition, we leverage the technology capability of Reply not only to advise on change but also to implement it.



Regulatory

- Change management (implementation of a new regulation)
- Remediation (addressing recommendations from the supervisor)
- Interim support regulatory reporting, stress tests
- Optimisation (regulatory capital, liquidity, etc.)

Strategic, Business and IT Change, M&A

- Strategic & business change (e.g., credit 're-invention')
- IT change (e.g., risk and finance systems)
- Data management & reporting



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AVANTAGE REPLY

FIVE KEY DIFFERENTIATORS

Integrated pan-European footprint

- Leading business and regulatory capabilities, leveraging our experience with best-in-class solutions in other countries

Embedded in the industry and regulatory ecosystem

- Advanced regulatory and supervisory capabilities, leveraging knowledge gained when working for the European Central Bank, the Single Resolution Board, etc.

Technology enabled

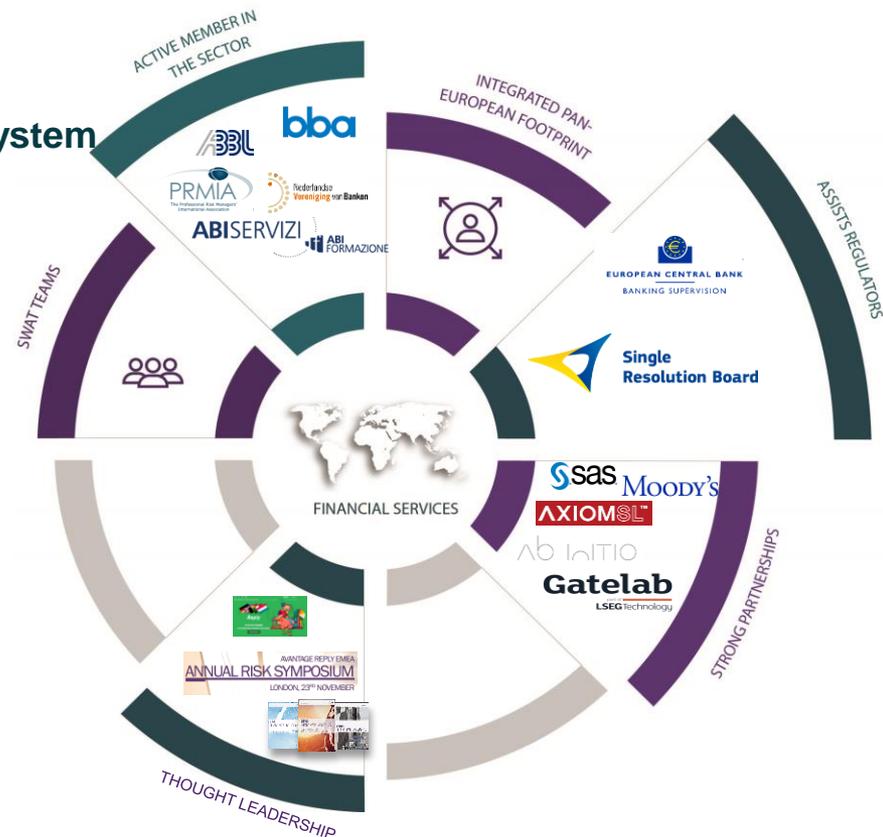
- Demonstrated capability to implement change in IT systems, leveraging 5,300 technologists and partnerships with key vendors

Experienced delivery teams

- Staffing model drawing on business, technology and regulatory professionals organised in 'SWAT' teams.

Price policy

- Operational efficiency resulting in competitive price policy



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AVANTAGE REPLY

MOST RELEVANT FINANCIAL INSTITUTIONS EXPERIENCES



EUROPEAN CENTRAL BANK
BANKING SUPERVISION



MEDIOBANCA



STATE STREET



Cassa depositi e prestiti



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AVANTAGE REPLY

BUSINESS CASE: ASSESSMENT OF TRANSACTION REPORTING PLATFORM

CONSULTANT

- What kind of skills do I need?
- What are the information we have to ask to the customers?
- What are the data we have to collect ?



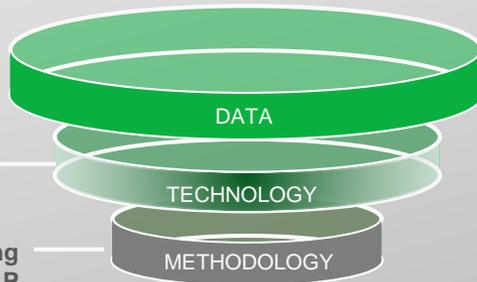
BANK

- I would like to know what are the main pain points of the platform;
- What are the main difference between the platform and the RegTech solution ?

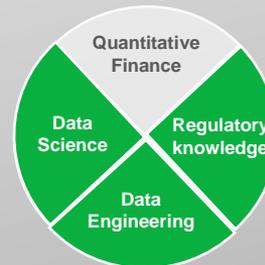
Regulatory Data
RTS and ITS data
Data Quality
Process

Cloud Computing

Machine Learning
RPA and NLP



Strategic Capabilities



1. Through a Machine Learning algorithm is possible to set-up a regulatory rule engine is able to manage regulatory exceptions, perform the quality control of the transaction before it is sent to Trade Repository
2. Data reporting manipulation provides a strategic and business view of the transaction reporting

KEY SUCCESS FACTORS

RESULTS AND BENEFITS

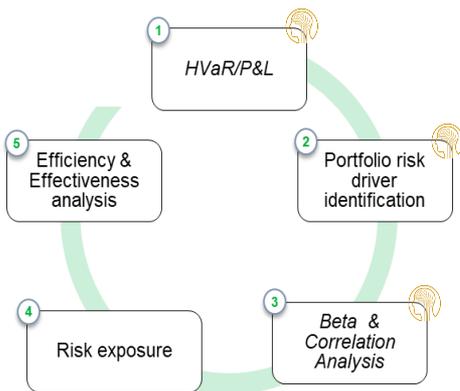
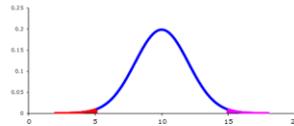
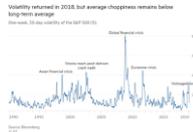


AVANTAGE REPLY

BUSINESS CASE: TAIL RISK MANAGEMENT FRAMEWORK (1/2)

In a market context more tempestuous, how can I build a framework in order to hedge the portfolio from "tail events"?

Solution: Tail risk management framework



- 1 • Portfolio **HVaR** and/or **P&L computation**
• For illiquid asset the AI algorithm identify a **market benchmark** to be used in the original portfolio
- 2 • Identification of the main risk factors to which the portfolio is exposed through **Multivariate linear regression/PCA Analysis** and Drawdown analysis
- 3 • Replicating Portfolio construction: weighted portfolio whose weights are the betas (step 2)
• Bivariate Regression Analysis: **Filtered Regression Analysis** and **Rolling Regression Analysis** aimed to compute beta spot (how a shock to the replicating portfolio impact the spot price) and beta vol (how a shock to the spot impact the related volatility)

- 4 • **Hedging strategy**
• **Full-repricing**
• **Risk metrics**
- 5 • **Tail Risk Analysis:** backward looking based on historical scenario and market data
• **Beta Analysis:** forward-looking analysis based on market expectation (Expected Beta Return)

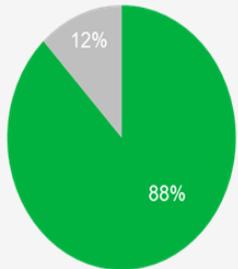


AVANTAGE REPLY

BUSINESS CASE: TAIL RISK MANAGEMENT FRAMEWORK (2/2)

OUTCOME

Portfolio



■ Govies ■ Financials

HTC	813 mln/€
HTCS	472.5 mln/€
Duration	< 2y
Time to Maturity	< 5y

The portfolio structure is based on the Italian bank sector benchmarking. Source:Reply Observatory

1

Equity Line



2

Drowdown



Hedging Strategy

3

Underlying	Moneyness	Opt Tenor	Delta	Call/Put	TailRet/Yearly Carry v	TailRet
SX7E	98%	6M	-50%	Put	0.70	4.31%
FTSEMIB	98%	6M	-50%	Put	0.69	3.65%
SXSE	98%	6M	-50%	Put	0.46	2.16%
DAX	101%	6M	-50%	Put	0.40	1.86%
SPX	101%	6M	-50%	Put	0.13	0.59%
NDX	102%	6M	-50%	Put	0.11	0.56%

The output is a ranking of put option which are able to hedge the portfolio from tail risk events. The options are sorted by efficiency, **tail performance** (column "TailRet") and effectiveness, **cost of carry** (ratio between tail return and cost, the column "TailRetYearlyCarry").

The best solution is to buy a put option on SX7E with a tenor of 6 month and a delta -50%



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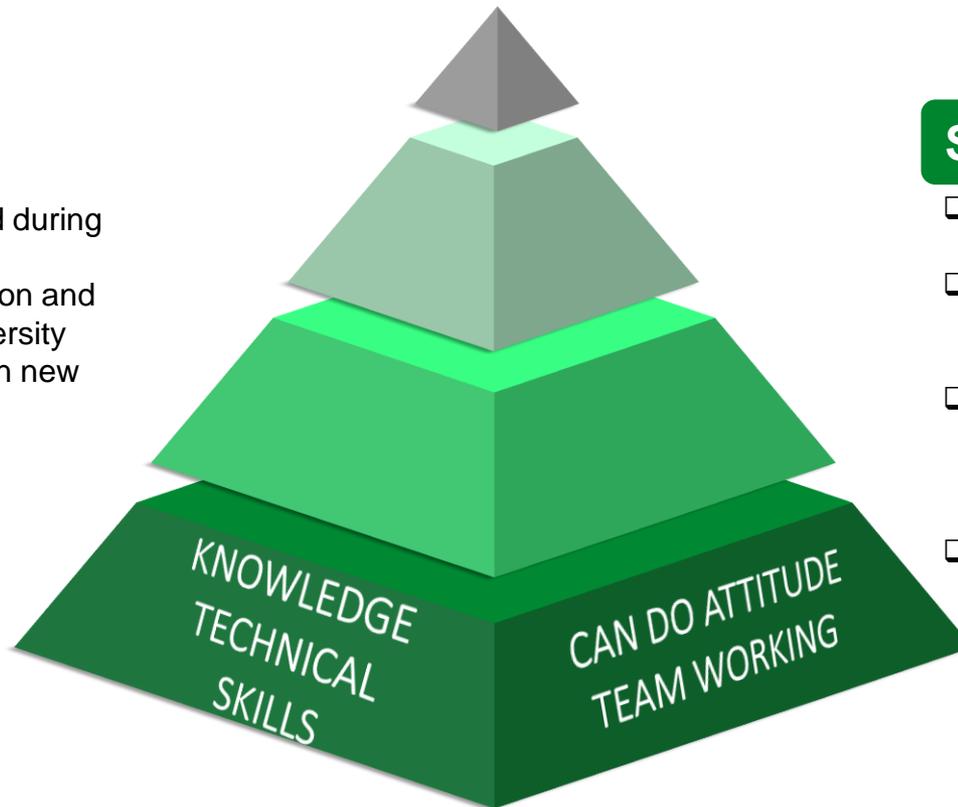


KEYS COMPETENCIES

OUR EXPECTATION FROM NEW HIRED COLLEAGUES AND THEIR PROFESSIONAL GROWING

HARD SKILLS

- What you have learned during your study path
- Your experience, passion and knowledge out of University
- Your availability to learn new concepts



SOFT SKILLS

- What is your approach to new projects, subjects and issues
- You are not alone, you work with a group of colleagues and workers
- Need patience, communication skills (complex concepts explained very simple way)
- Accept new challenges outside your “comfort zone”



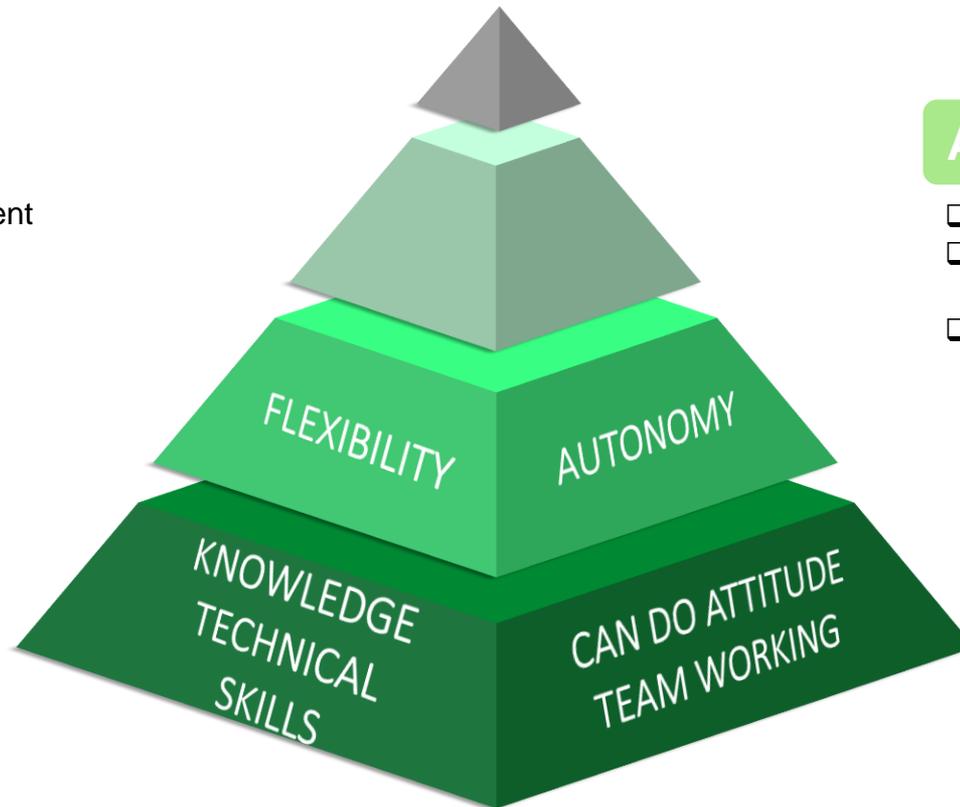
KEYS COMPETENCIES

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FLEXIBILITY

Consultant works for different customers and this means:

- Location
- Culture
- Language and technical language
- Subjects of the project
- Tight deadline
- Time management



AUTONOMY

- You are able to plan your work
- You are able to manage issues and propose solution
- Understand when involve your senior colleagues



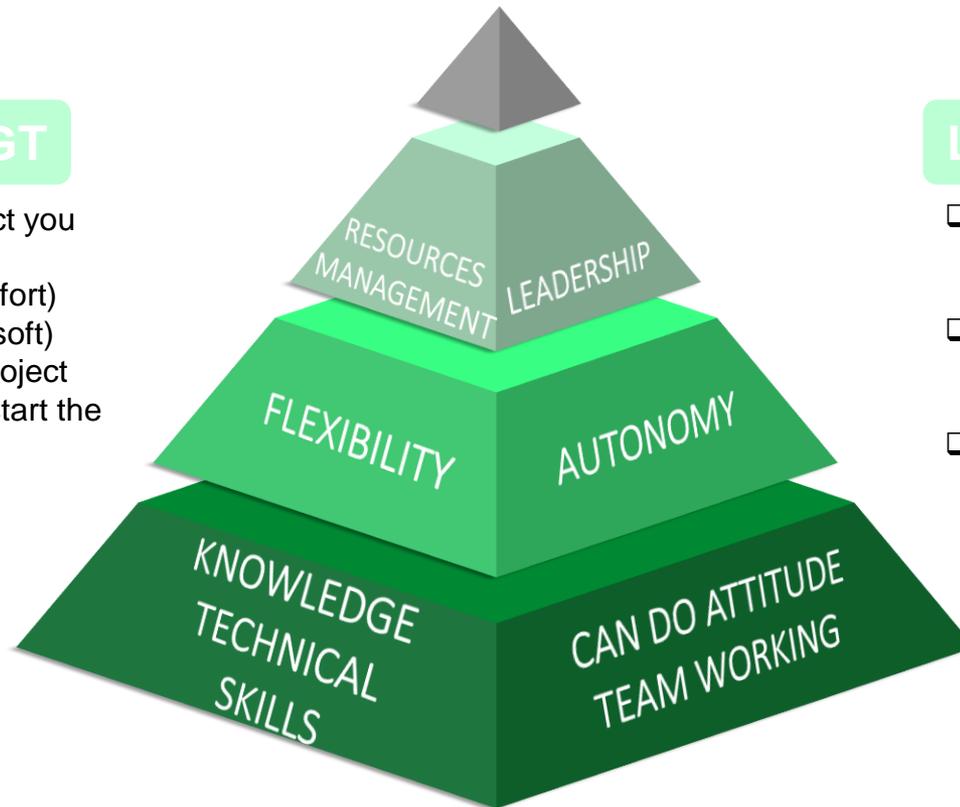
KEYS COMPETENCIES

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RESOURCE MNGT

When you will lead a project you need to understand:

- How many resources (effort)
- What are the (hard and soft) skills you need for the project
- When the resource will start the activities



LEADERSHIP

- You have to lead your team to achieve the milestones and complete the project
- You have to motivate your team to achieve both personal and common goal
- You have to stay update about the environment around your job, as instead how the job is changing



REPLY CAREER PATH

Career Path



Evaluation drivers

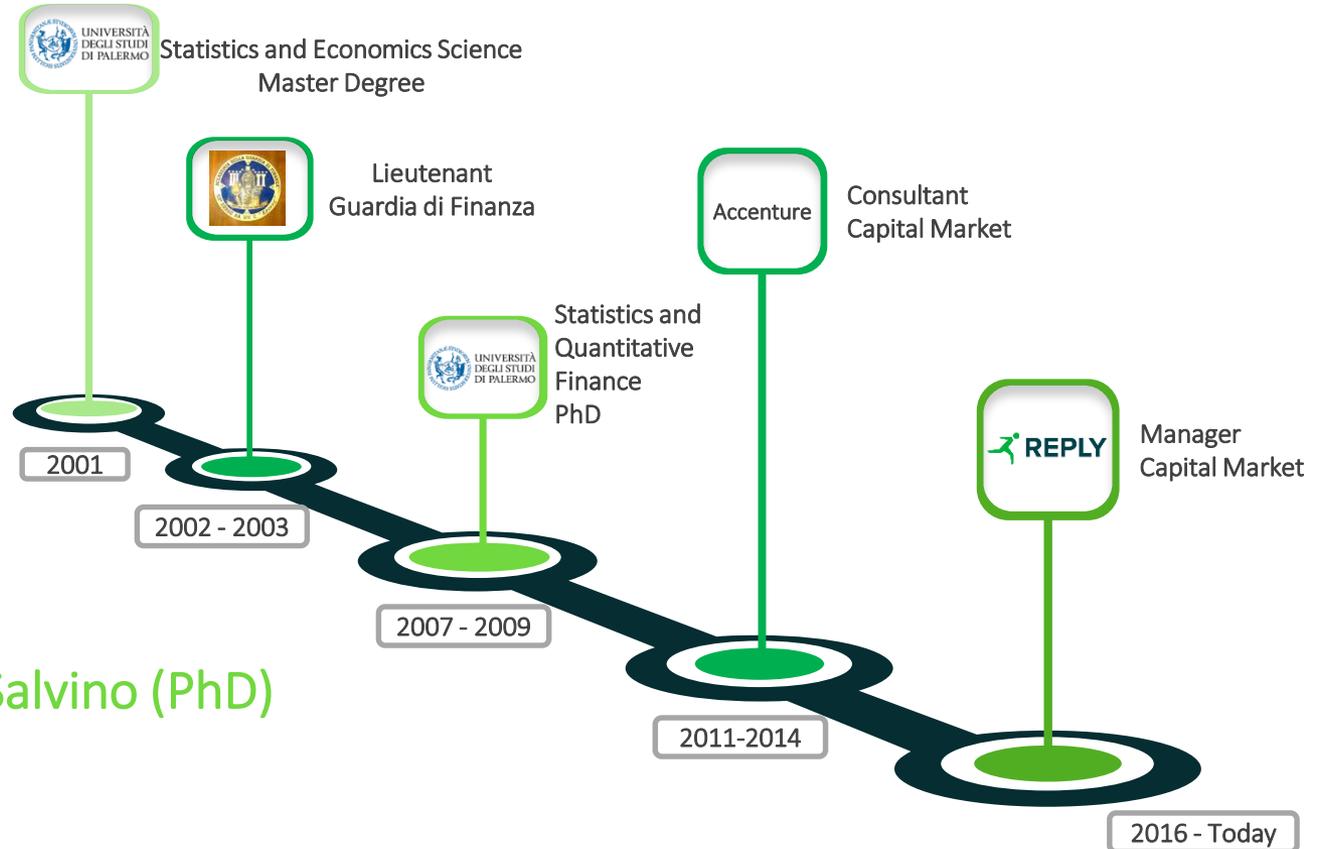
- 1 Value for company
- 2 Team Building and best place to work
- 3 Business management as usual



SERGIO'S CAREER PATH



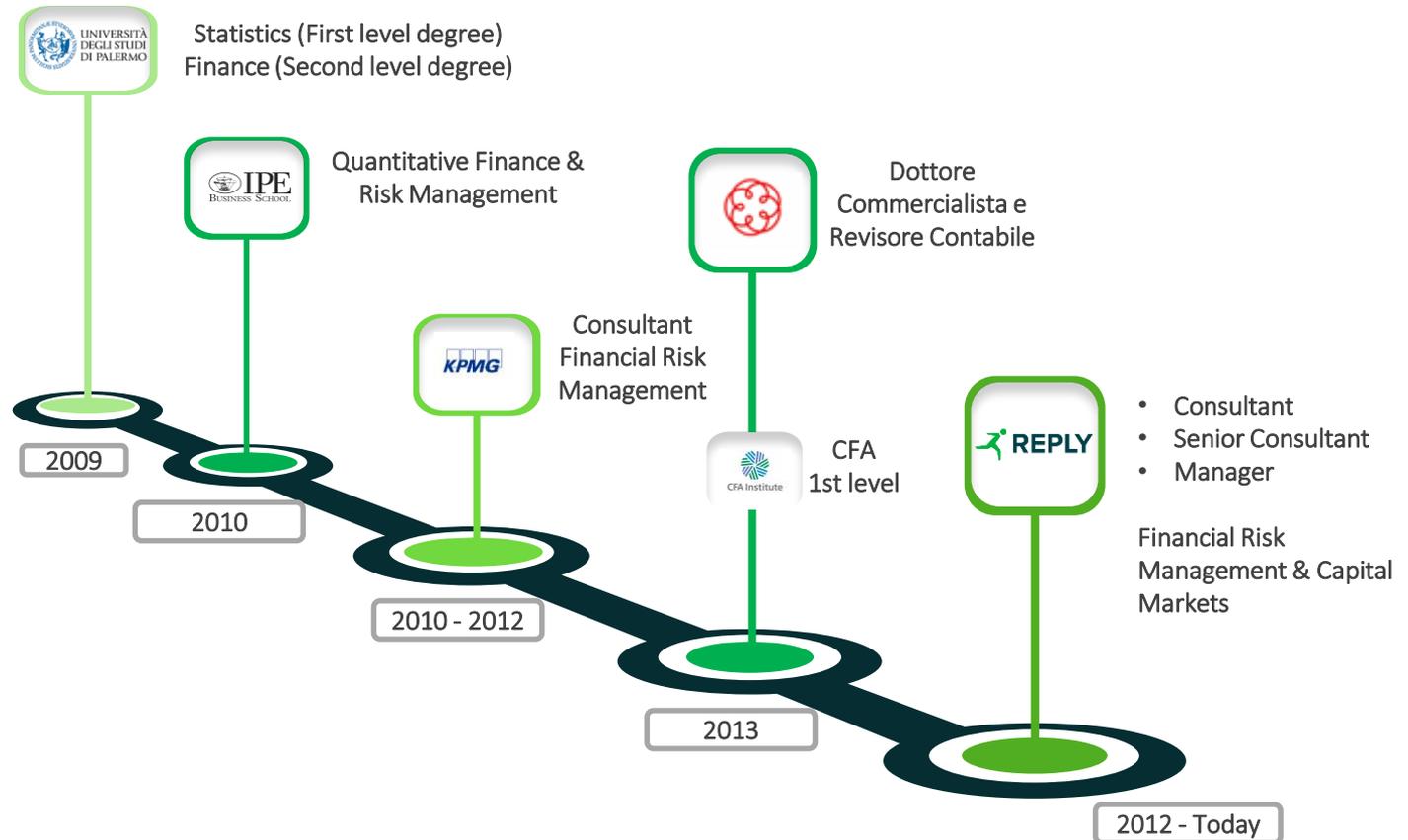
Guirrerri Sergio Salvino (PhD)



MARIO'S CAREER PATH



Mario Pace





THANK YOU