



Convegno Annuale AISIS

eHealth 2020

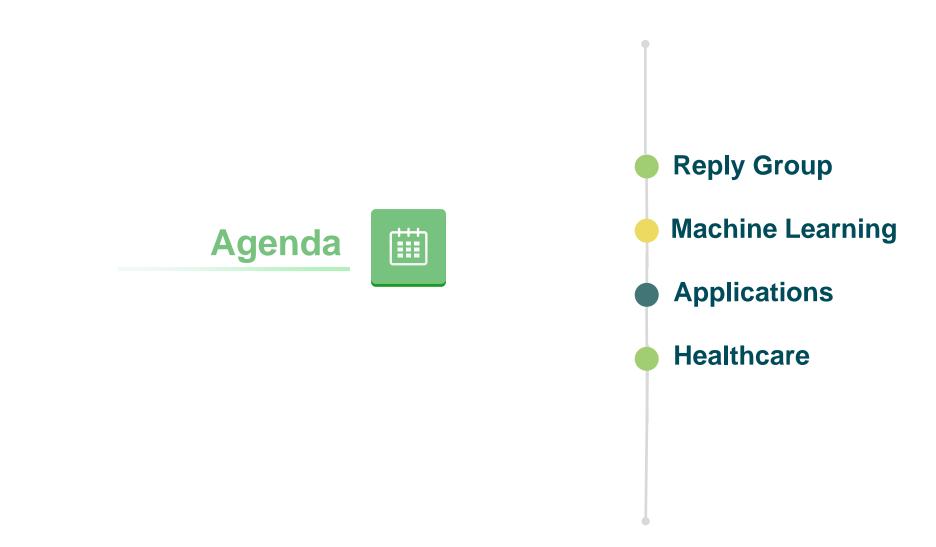
Machine Learning: Introduzione generale e possibili applicazioni nel settore Sanità.

Claudio Alfieri Associate Partner – *Machine Learning Reply*

Cagliari, 13 e 14 ottobre 2016 THotel

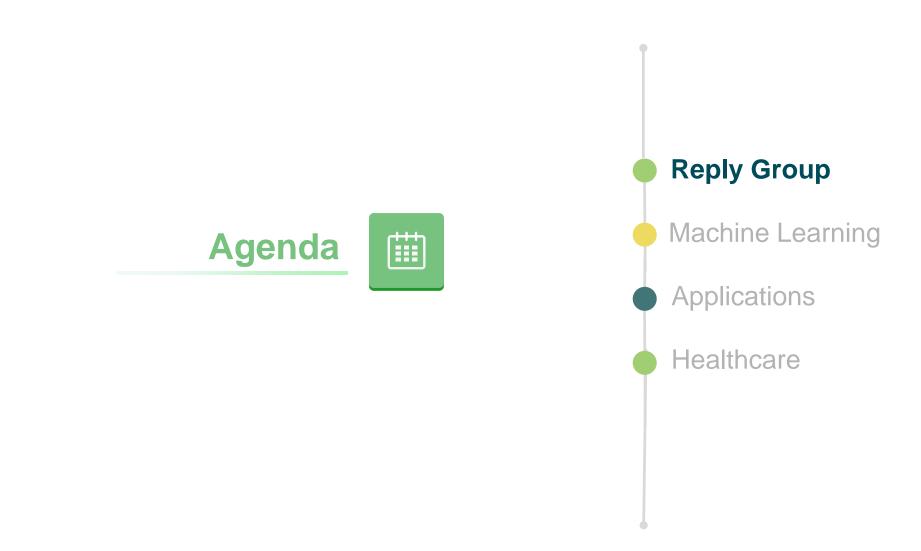














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Reply **GROUP**

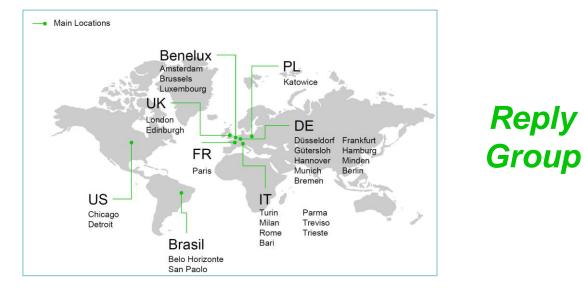


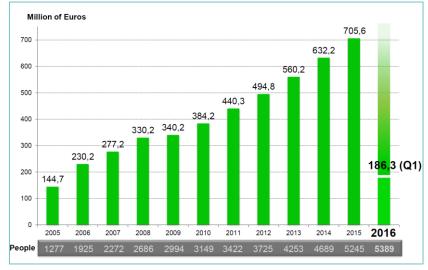
To excel in helping our customers exploiting relevant innovation brought about by economic changes and driven by internet technologies



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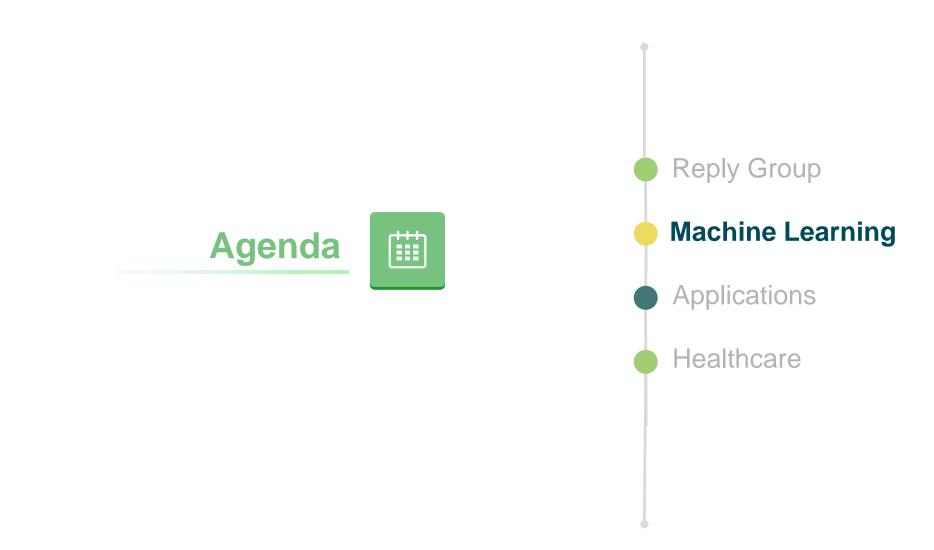


KEY FACTS

- Founded in 1996 to achieve excellence within the internet consulting market, Reply is today a leading IT Services Company.
- Impressive track record: from €18.6m in 1999 to €705.6m revenue in 2015. The revenue in Q1 2016 was €186.3m, +10.1% compared with Q1 2015.
- Constant two digit Ebit growth.
- More than **5.300 employees** distributed across a network of specialized companies.
- Large customers, with a very high customer retention.



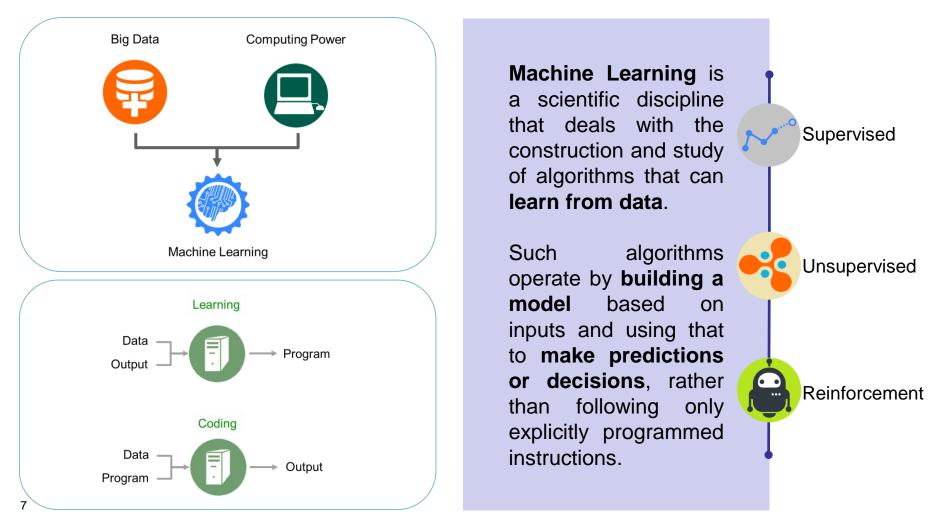








What is **MACHINE LEARNING**?

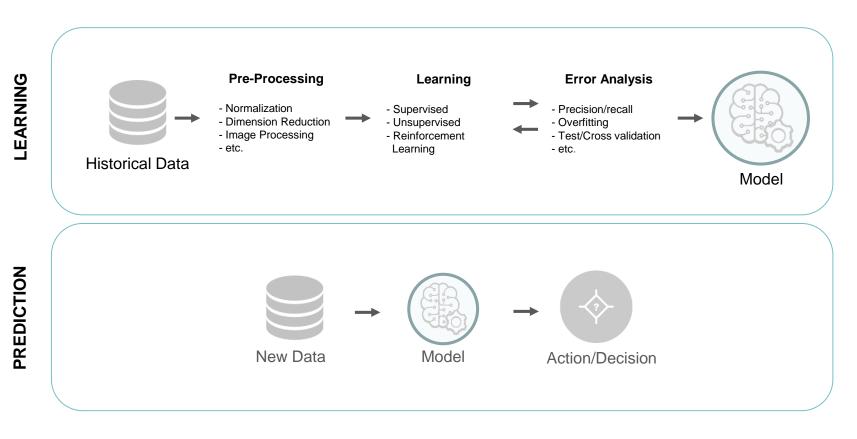




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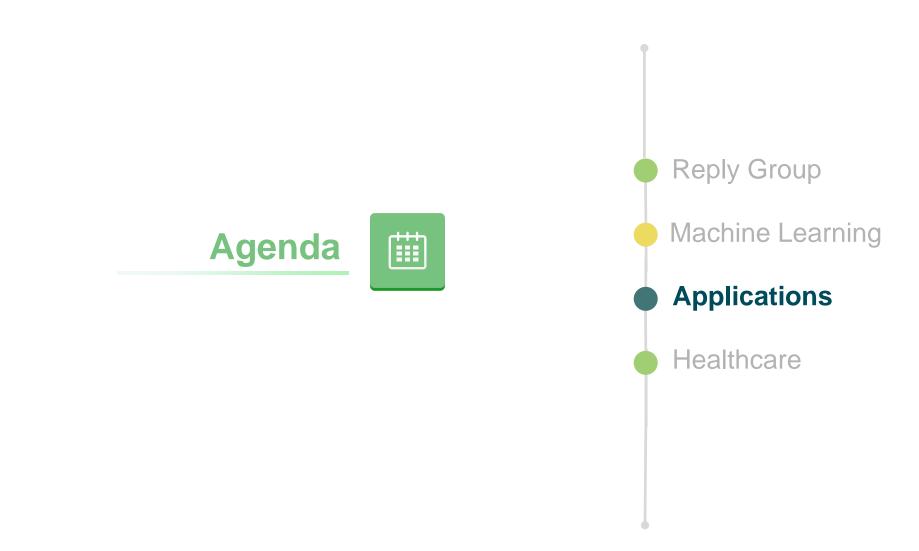


How IT WORKS







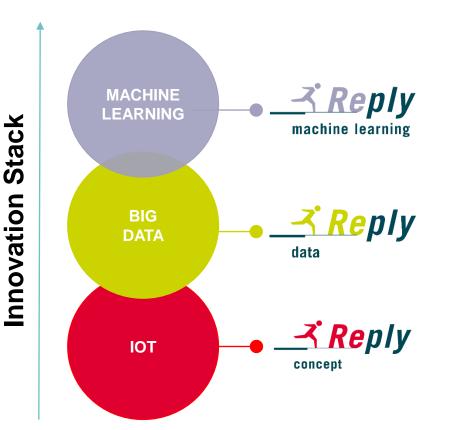




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Machine Learning **REPLY**



REPLY strategic approach requires to move from a **focus on the objects** to an approach that considers the **overall integration** within a broader ecosystem

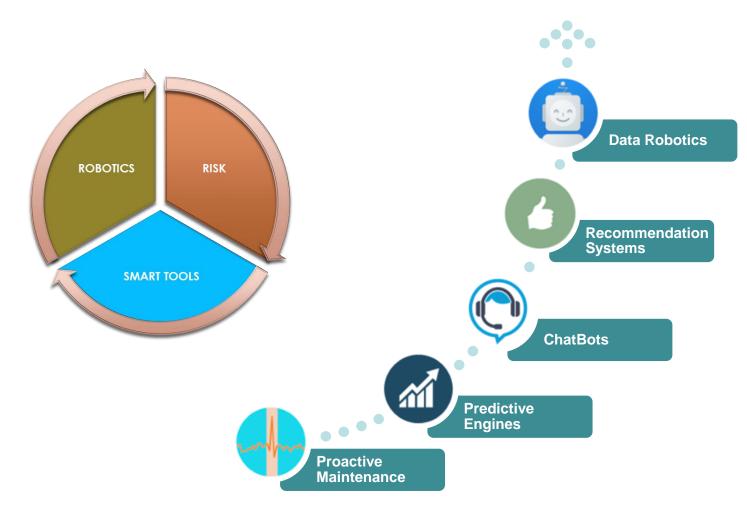
The whole **Innovation Stack** is covered by focused companies **retrieving value** at each step of the **process**:

- Specific vertical capabilities provided by each Reply Company
- Innovation and experimentation on IoT, Big Data and Machine Learning
- Developing of full stack market vertical solutions





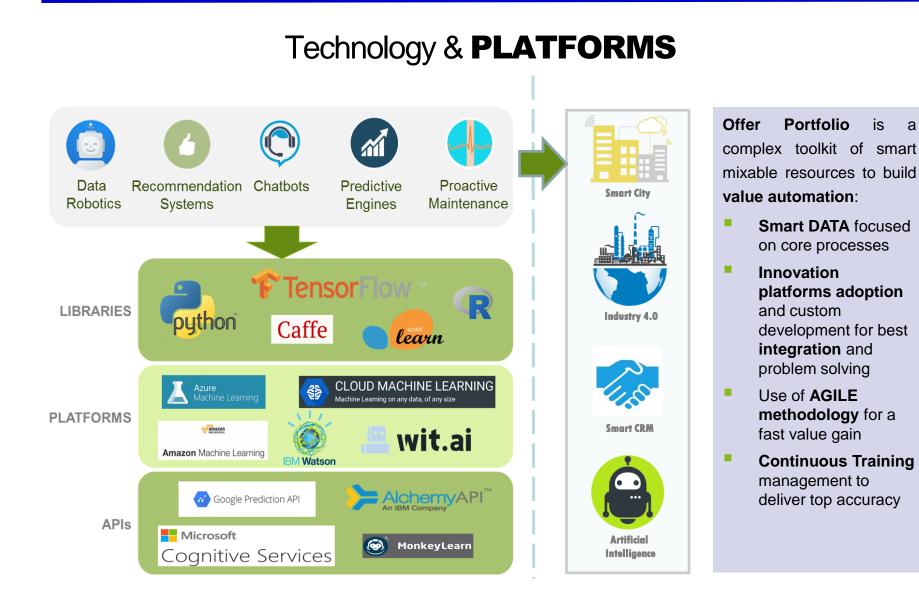
Machine Learning **APPLICATIONS**





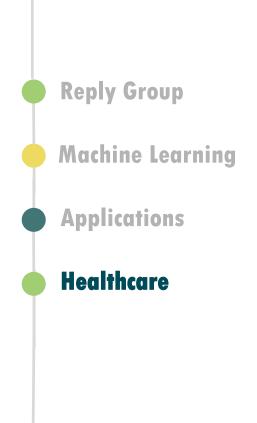


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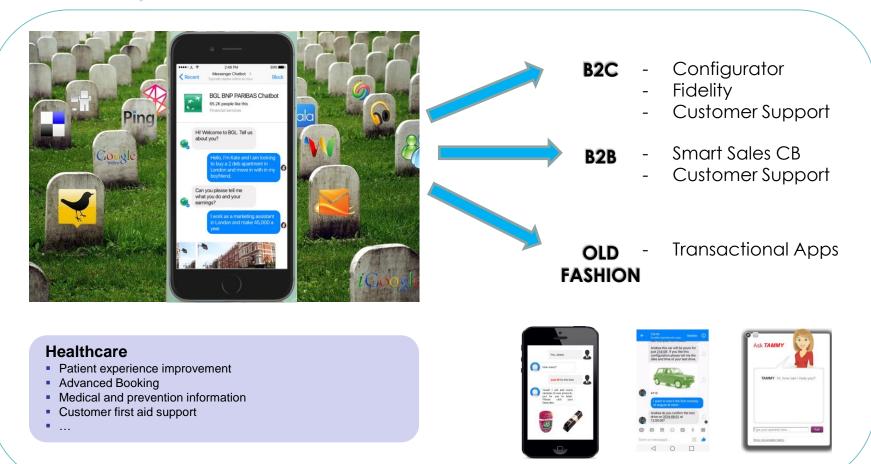


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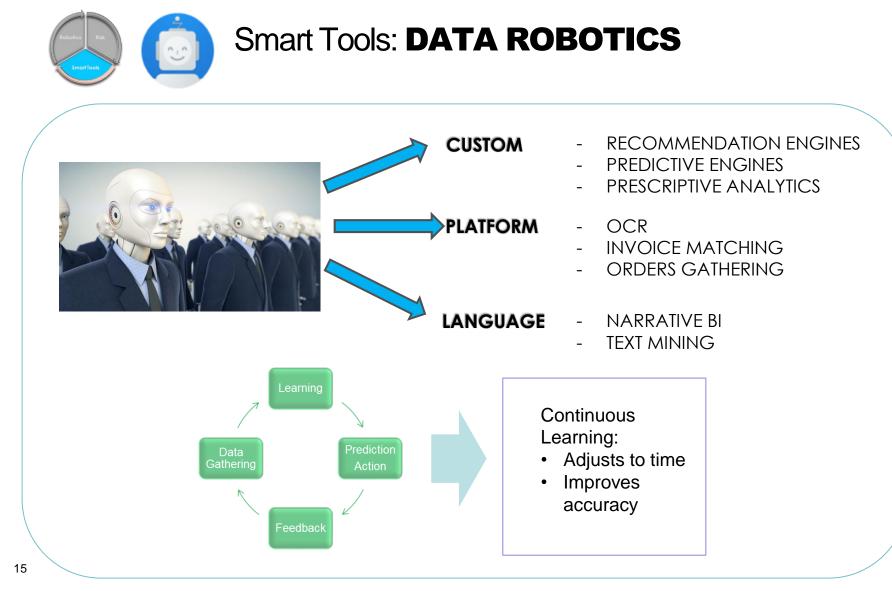
Smart Tools: CHATBOTS





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Robolic: Risk



Smart Tools: DATA ROBOTICS II

Finance & Banking

- New account verification
- Data validation
- Customer account management
- Financial claims processing
- Report creation
- Form filling
- Change of address
- Loan application processing

Insurance

- Emissione
- Riconciliazione incassi/emessi
- Antifrode
- Apertura e liquidazione sinistri
- Carrozzerie convenzionate
- Recupero crediti
- Analisi polizze non standard

Telecommunications

- Collection & consolidate customer data from client phone systems
- Backing up information from client systems
- Uploading data
- Transferring customer data between applications
- Extracting data about competitor pricing

Retail

- Automatically updating online inventory & product information
- Importing website orders and email sales into back-end systems

Government

- Verification process
- Populating forms and assigning subcontractors to jobs
- Integrating legacy systems with newer systems

Finance/Accounting

- Invoice processing
- Accounts payable and accounts receivables
- Reporting
- Bank reconciliation
- Fixed assets analysis
- Master data management
- Vendor and customer account creation
- ERP logging from another system

Healthcare

- Patient data migration and processing
- Reporting for doctors
- Medical bill processing
- Patient record storage

IT

- Creating new accounts
- Software installations and updates
- Batch processing
- Printer set-ups

HR

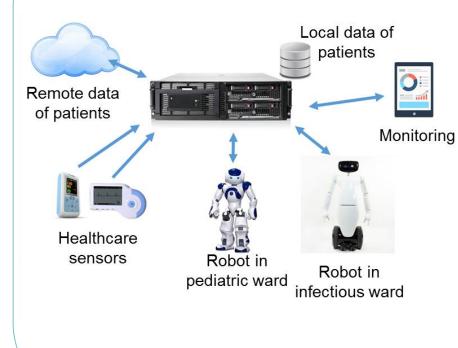
- Employee on-boarding
- Leave of absence management
- Populating employee data into multiple systems
- Performance appraisal management





Robolica Risk Smort Tools

Robotics: **PERSONAL ROBOTS**



Robotics has an important role in Healtcare, adopting a robotic solution is possible to:

- **24x7 service** to support patients even in dangerous wards (for example infectious patients);
- be a remote worker controlled by humans;
- integrate robots in a complex environment in order to act according data like sensors on patients, their diagnosis and other information stored in a common storage.







Robotics: **PERSONAL ROBOTS II**



Senior people assistance



Play children to improve communication capability.



Support injured people

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Robots are **connected** to a complex framework to share information and act when specific event (i.e. happens sensors identify a critical situation patients) or when for specific activities have to be performed (i.e. meal transport).



Act in dangerous wards

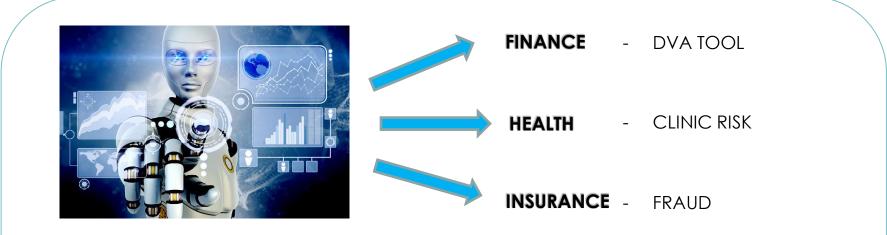


Transport patient meals, medical supplies, medical linens and trash.













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