







#### Marco Ciscato, Chairman

Founder of Maps. He graduated in Software Engineering at University of Bologna and started his career as software engineer at ds Data Systems. During the first phase of Maps he worked in the technical area. After obtaining a Master in Business Administration at CUOA in Vicenza, he moved from the technical area to internal organization, finance & control and strategic development. He is currently Chairman of Maps.



#### Maurizio Pontremoli, CEO

He graduated cum laude in Physics from the University of Parma. In the past, he was a professor of computer science at the University of Parma and a researcher at the Fini Speciali School of the University of Parma. Later, he became the founder and the director of the Professional Services Division of ds Data Systems, then the director of Imagena S.r.l. (IT products and solutions for mobile telephony) for about six years. In MAPS since January 2008, he is CEO and deals with the definition of the offer and the strategic development.



#### Gian Luca Cattani, R&D Director

Degree in Mathematics cum laude at the University of Parma; MSc and PhD in Computer Science at the University of Aarhus (Denmark); Master in Technology and Innovation Management at the Bologna Business School of the University of Bologna. He was a researcher in Logic and Semantics of Computation at the University of Cambridge (UK). He is the author of several scientific publications in Theoretical Computer Science. For over fifteen years he has been involved in software development projects for complex organizations. In MAPS since 2008, he has been appointed R&D Director in 2017.

# MAPS AT A GLANCE





#### MARKET NEEDS

In this digital era, each company can access huge quantities of data: the challenge for Maps is extracting business value from such data.

#### WHAT WE DO

We develop software solutions that help our customers to take better decisions based on the evidences that come from data. that is to become data driven companies.

#### WHO WE ARE

We are a group of highly qualified people that share the same vision. More then 70% of the employees have an university degree.

#### THE MARKET

Transformation Digital companies is what we support. Experts state that the **Digital** Transformation Market has been growing with a CAGR of 20% and will grow at the same pace in the coming years.

#### OUR COSTUMERS

Our customers are **leaders** in their sectors.

#### **GOALS** ACHIEVED IN 2013-2018



#### FINANCIAL PERFORMANCE

#### doubled revenues

+16% CAGR

2018: €16.7 mln 2013: €7.9 mln

#### profitability

+59% EBITDA CAGR

2018: €3.7 mln (21% margin) 2013: €0.4 mln (4% margin)

#### lovaltv

65% of customers have been choosing Maps for over 5 years

#### cash conversion

excellent and constant cash conversion used for acquisitions and investments









#### We are **LEADER** in the Italian market for **Patient Journey**

- more than **600 installations**
- more than 17million patient accesses per vear



2002-2006 Start-up	From €1 min to €4 min 2007-2010 New shareholders	From €4 min to €11 min 2011-2015 Focus on solutions		From €11 min to €16,7 min  2016-2018  Focus on strategic market  CREATION OF RESEARCH AND SOLUTIONS	
	Market: Utility Public Sector	Market: Utility Public Sector Healthcare	MAPS SHARPS SHARPS SHOWLEDGE  MEMELABS IGCONSULTING ROIALTY	Market Utility Public Sector Healthcare Manufacturing	MAPS ENLAPING FROMFLESSE  MEMELABS  IGCONSULTING  ROIALTY  article
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#### **GOVERNANCE**

Market-friendly approach (exceeding AIM requirements):

- 2 independent directors
- List vote (2.5%)
- Our bylaws provides «white washing»

#### **BOARD OF DIRECTORS**



#### **SHAREHOLDERS**

- Floating: 26.6%
- The remaining shares are owned by 6 people (4 of them are Maps' managers):
  - Marco Ciscato (21.87%)
  - Maurizio Pontremoli (18.03%)
  - Domenico Miglietta (13.68%)
  - Paolo Ciscato (9.44%)
  - Gian Luca Cattani (8.22%)
  - Giorgio Ciscato (2.14%)

# MAPS 100% MEMELABS SRL 100% ROIALTY SRL 70% MAPS HEALTHCARE SRL 100% 100% ARTEXE SPA IG CONSULTING SRL



#### Our employees, together with our software solutions, are our most important asset

#### **OBJECTIVES**

**Attract talents** 

Identify and maintain top performers

Enhance all employees' skills and performances

Share a clear identity, because employees are our first ambassadors

ACTIONS	
	2018 DATA
Training	7,600 hours
Salary based on individual targets	More than 35% of the personnel
Recruiting	1 dedicated person
Appraisal and personal objectives	All employees involved
Smart working	16 man years of remote working
Welfare	More than 20 events



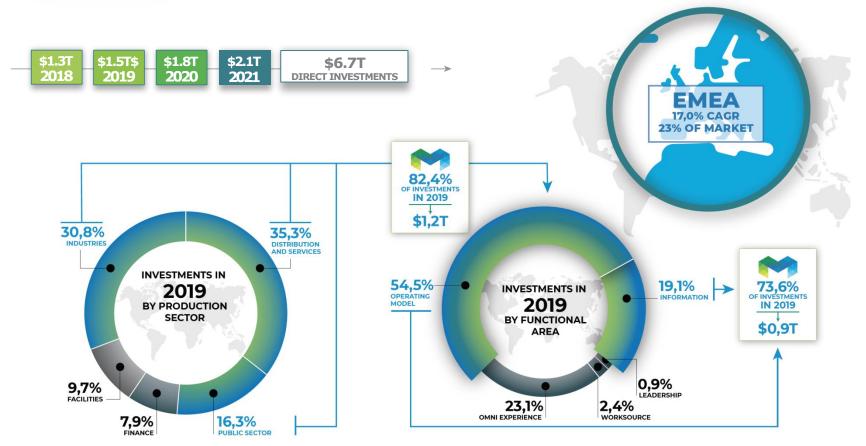
#### DIGITAL TRANSFORMATION: HIGH POTENTIAL MARKET





#### **Digital Transformation**

Take better decisions or implement new business models leveraging the knowledge that comes from digital data



# VALUE PROPOSITION BUSINESS MODEL





#### Add value to your business cases with our services



Provide decision-making tools that leverage digital data



#### With digitalisation, companies can:

- have an amount of data once impossible to have
- use this data in order to take better decisions and to define new business models

**Predictive Models** 

**Big Data** 

**Processes Digitalization** 

Artificial Intelligence

**Dematerialization** 

Social

**Decision Support** 



They do not have to buy technologies and the know-how of data analysis



They can rely on decision making tools immediately available



Advantages for

**Customers** 





#### TO THRIVE IN THE DIGITAL TRANSFORMATION MARKET, NEED TO FOCUS ON THE BUSINESS VALUE THAT WE PROVIDE TO THE CUSTOMERS



#### R&S DEFINES AND CREATES MAPS INNOVATIVE SOLUTIONS

- Open Innovation in collaboration with market leaders and research centres, e.g., University of Genoa, University of Copenhagen
- Fully proprietary investments, e.g., artificial intelligence based method for semantic analysis of clinical text is Patented

#### COMMERCIAL BUSINESS UNITS BRING MAPS SOLUTIONS TO THE MARKET OR IMPLEMENT SOLUTIONS TO CUSTOM NEEDS

 Responsibilities: Operative Marketing, Sales, Delivery, Customer Satisfaction



#### TO THRIVE IN THE DIGITAL TRANSFORMATION MARKET, NEED TO FOCUS ON THE BUSINESS VALUE THAT WE PROVIDE TO THE CUSTOMERS



#### **CHALLENGES**

- Identify adding-value services with the highest chances of replicability
- Propose and provide effective solutions to critical business needs

#### **REWARDS**

- Recurrent revenues
- Profitability
- Customer loyalty

#### **EXAMPLES**



Patient Journey: leadership in Italian market



Smart Nebula: niche solution with highest margins



Vodafone: loyal customer with high volumes



#### FOCUS ON R&D – MAIN CURRENT INITIATIVES

#### **HEALTHCARE**

Scope	Objectives	Investment Type	Main Partners
Scope	Objectives	investment Type	Maili Faitheis
Patient Journey – ROI for Customers	<ul><li>Performance Based Fees (new Business Model)</li><li>Sales Tool</li></ul>	Own Investment	
Waiting Lists Prediction and Management (Innovation on an Existing solution)	<ul> <li>Crucial Issue for All Universal Access Healthcare Systems</li> <li>New National Plan issued mid-2019</li> </ul>	Own Investment	
Long Term Care	<ul><li>Increasing Need</li><li>Leverage Clinical Narrative Text for Better Healthcare</li></ul>	EU co-financed	Alisa Sistema Sanitario Regione Liguria

#### **TELCO & UTILITY (ENERGY)**

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Scope	Objectives	Investment Type	Main Partners
Energy Resources Management	Flexibility Market (Demand/Response)	Open Innovation	C C Università di Genova
Energy Efficiency	<ul><li>Energy Efficiency Services</li><li>Ancillary to Energy Resources Management</li></ul>	EU co-financed	Università di Genova
Wind Energy	<ul><li>Sales Efficiency</li><li>Flexibility Market</li></ul>	Open Innovation	€ ERG
Predictive Maintenance	<ul><li>Cost Reduction of Maintenance</li><li>Higher Quality of Service</li></ul>	Open Innovation	enel disco

#### **PUBLIC SECTOR**

Scope	Objectives	Investment Type	Main Partners
Digitalisation of Processes	<ul> <li>Growing Area</li> <li>Primary Usage of Digital Data</li> <li>Collection of Data for Secondary Usage (Analytics and Strategic Decision Support)</li> </ul>	DK co-financed	KOBENHAVNS () UNIVERSITET COMUNE DI GENOVA  KOBENHAVNS KOMMUNE

# OFFER AND SAMPLE SUCCESS STORIES





#### LARGE **DATA** FLOW **DATA** GENERATED IN DIFFICULT CONTEXT «CORF» **DATA**



#### **DATA EXAMPLES**

 Data management of the entire Vodafone offer for both fixed and mobile networks: configuration, administrative activation, network previsioning, ticketing, invoicing







 Collection and management of data related to food risk for EFSA, as for example: OGM statistics coming from all the EU member states



 Data collection and storage employed for Intellectual property (IP) management and for the global organization of WIPO which today has 119 member states





#### **OUR TRAINING ROOM**

OUR EXPERTISE IN DEALING WITH COMPLEX ENVIRONMENTS GAVE US THE OPPORTUNITY TO BOOST OUR SKILLS AND IMPROVE OUR OFFER



#### **OUR CHALLENGE**

- Build up trust on our ability to understand customer's needs
- Expertise to promote our reputation as agents able to offer innovative solutions
- Understand and help customers to meet all their needs

MAIN CLIENTS

















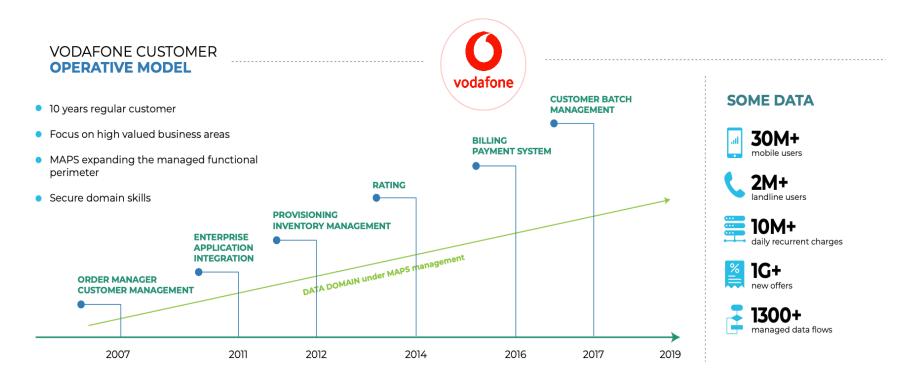






LARGE **DATA** FLOW **DATA** GENERATED IN DIFFICULT CONTEXT

«CORE» **DATA** 



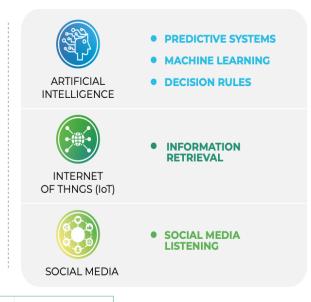




WE ARE ABLE TO MEET ALL THE NEW NEEDS INTRODUCED BY THE **DIGITAL TRANSFORMATION**WE BUILD UP KNOWLEDGE FROM DATA
DECISION-MAKING AND SUPPORT SYSTEMS FOR THE HUMAN DECISION-MAKING PROCESS

#### **SAMPLE QUESTIONS**

- Which power constraints absorbed by the electricity grid can I impose on my client tomorrow?
- What are the chances of a fault on an electrical grid within the next 30 days?
- Are my production facilities respecting all the set points?
- How social networks are dealing with this topic?



#### **MAIN FEATURES**

- Real-time data ingestion and information retrieval
- Pluggable:
  - Data Connectors
  - Machine Learning models for predictions
  - Operational Research Algorithms for Planning
  - Rule-based reasoning for decision support
  - Natural Language Processing tools for information retrieval
  - Domain specific **knowledge bases** for semantic interoperability
- Full interoperability via API

MAIN CLIENTS







**VERTICAL SOLUTIONS** 







WE ARE ABLE TO MEET ALL THE NEW NEEDS INTRODUCED BY THE **DIGITAL TRANSFORMATION**WE BUILD UP KNOWLEDGE FROM DATA
DECISION-MAKING AND SUPPORT SYSTEMS FOR THE HUMAN DECISION-MAKING PROCESS



**Need:** To enrich its offer for the small and medium size companies with high value services.

SOTA: Workplace Hub, and Market place.

#### **Key elements**

- MAPS as Partner in the KM Digital Tranformation
- 2 POCs: HyDocs and SmartCalendar
- Search & Priority is the solution brought from an R&D idea to a production ready product for the Workplace Place Hub
- Read data from heterogeneous systems and creates a representation of the user tasks and meetings



#### **OPERATIONAL HISTORIAN**

Need: To implement an highly scalable, easy to deploy, operational historian using non proprietary technologies to reduce TCO.

SOTA: Third-party commercial historian.

Manual extraction of shift production data.

#### Key elements

- Real-time data acquisition from 100+ equipment
   up to 10K tags per second.
- Automated BI integration reduced shift data analysis effort from hours to seconds.
- Fully virtualized for maximum scalability.
- Simplified life cycle management via automated delivery on a multi-tenant environment.
- Self-configurable dashboards.



#### SMART ARBITRAGE

Need: To automate arbitraging of crypto assets (Bitcoin, Ethereum, Teether, etc.) from multiple trading exchanges.

SOTA: Manual identification of arbitrage opportunities and order placement.

#### **Key elements**

- Real-time aggregation of market data from 20+ exchanges.
- Highlighting of best arbitrage opportunities.
- Automatic execution of chain of orders.
- Real-time self-adjustment mechanism to respond to changing market conditions.







#### MANAGE AND CONTROL THE EXCHANGE OF DOCUMENTATION WITH SUPPLIERS B2B DATA SHARING PLATFORM ADMINISTRATIVE EFFICIENCY

#### **SAMPLE QUESTIONS**

- Does supplier's staff have the required qualifications and certifications for what they are doing?
- Do I fulfil the Legality Protocol signed for the contract? Is the suppliers' staff regularly hired?
- Is the supplier working with the agreed people and means in my building sites?
- May I reduce the risk of non-compliance with the 231 Model?

#### **SOME DATA**



70.000+

managed documents in 2018



1600+

single platform users



1500+

**suppliers selected** by our customers and invited to exchange documents

#### **OUR CHALLENGE**

- Identify specialized areas where controlled and managed information exchange is particularly relevant
- Efficient exchange of information along production chains
- Massive digitization of information
- Risk reduction for both workers and companies
- Promote positive relations with the supervisory authorities

MAIN CLIENTS











**VERTICAL SOLUTIONS** 





#### DATA DRIVEN GOVERNANCE

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LEVERAGE DATA TO IMPROVE QUALITY AND EFFICIENCY OF HEALTHCARE

#### **EXAMPLES OF SOME NEEDS**

- Evalute Appropriateness of Referral Requests for a better planning of services, and to measure the adherence of GPs behaviour to the given guidelines
- Management control of healthcare companies, and evaluation of their efficiency
- Evaluate and control the quality and efficiency of outpatient departments
- Evaluate and report all the indicators linked to the quality of the services provided by a specific facility
- Production and management of information flow between
  Local and Central Health Authorities
- Definition of Cohorts andselection of Patients that should be included in specific assistance programs, e.g. diabetes



 DECISION SUPPORT FOR IMPROVED MANAGEMENT OF HEALTHCARE

#### SOME DATA



analysed



100+



10MLN+

#### ATA .

Developing market: Low maturity, not many excellence

**FEATURES** 

- Relevant opportunities for the application of the semantic technology, supported by user centered applications
- Data analysis with distinctive elements, such as the ability to exploit non-structured data
- Analysis services provided through the "Knowledge as a Service" modality

#### MAIN CLIENTS



#### **VERTICAL SOLUTIONS**









LEVERAGE DATA TO IMPROVE QUALITY AND EFFICIENCY OF HEALTHCARE



- QUALITY AND PERFORMANCE EVALUATION
- DECISION SUPPORT FOR IMPROVED MANAGEMENT OF HEALTHCARE

#### **REFERRAL REQUEST APPROPRIATENESS**

Need: To improve the level of appropriateness of referral requests with respect to given guidelines for a higher quality of care and a better use of healthcare resources.

As is: Manual verification of a limited sample of referral requests.

#### Key elements:

- A tool that enables SMEs to formalise guidelines into business rules.
- Automated analysis and verification of 100% referral requests.
- Integrated clinical governance tools.

#### **Benefits:**

- Increased adherence to guidelines.
- Reduced waiting lists.

#### APPROPRIATENESS OF THERAPIES

Need: To improve the level of appropriateness of drug therapies with respect to given clinical targets.

As is: Ad-hoc reporting from Local Health Authority repositories.

#### **Key elements:**

- Definition of Cohorts and of target Sub-Cohorts.
- KPI calculation.
- Benchmarking against targets.
- Configurable reporting.

#### Benefits:

- Increased adherence to guidelines.
- Uniformity in base concept definition for new cohorts extraction.

#### ADMINISTRATIVE REPORTING

Need: To reduce the administrative burden and to maximise the coverage of delivered clinical activities in administrative reports.

As is: Manual cross review of clinical records, which may require additional enquiries to clinicians and staff.

#### **Key elements:**

- Reporting process modelling for data extraction, validation and reprocessing
- Automated extraction of relevant clinical events (e.g. procedures, supplies, medications).
- Optimised reporting strategy for reimbursements.

#### Benefits:

- Increased reporting coverage.
- Reduced administrative times and costs and clinician effort on non-care activities.



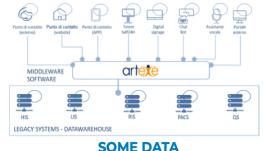


LEADER SOLUTIONS IN HOSPITALITY (HEALTHCARE)

- **GUIDE PATIENTS THROUGH THE HEALTHCARE SYSTEM**
- HELP HOSPITALS TO DELIVER HIGHER QUALITY SER-VICES IN AN EFFICIENT WAY

#### **EXAMPLES OF NEEDS**

- Efficient patient's flow management inside the hospital: waiting time reduction, waiting management, patients' redistribution, patients' guidance
- Efficient communication with patients
- Simplify the reservation, payment, specialist and non-specialist report collection system





500+



**17MLN+** patients



**70**% of the public hospitals are our customers. with opportunities for up-selling



the 3 Italian leading private companies are our customers

#### **FEATURES**

- Expanding market: low maturity and few excellences
  - → Wide presence in the public healthcare system
  - Prestigious customers among private healthcare organisations
- Complete solution
- Proprietary hardware able to generate loyalty and recurrent incomes

**VERTICAL SOLUTIONS** 

On-going internationalization





MAIN CLIENTS















**KIOSK®** 





DRIVE INSTITUTIONS TO REACH THEIR GOALS USING DATA

- HELP INSTITUTIONS TO FORMALISE, PLAN AND **REACH THEIR OBJECTIVES**
- **EVALUATE PERFORMANCES AND REPORT ON RESULTS**

#### **EXAMPLES OF NEEDS**

- Define institution's strategic, operational and individual objectives
- Define and measure the Key Performance Indicator
- Risk management
- Personal data management (GDPR)
- Processes and projects control
- Internal and public reports (transparency)







40+ Customers



30%+ Revenues

customers segment, for each segment important references from fees

#### **FEATURES**

- Open source software business model
- Complete solutions
- Investment Terminated
- Regulatory compliance is one of the drivers for purchasing
- 12 up-selling modules

MAIN CLIENTS









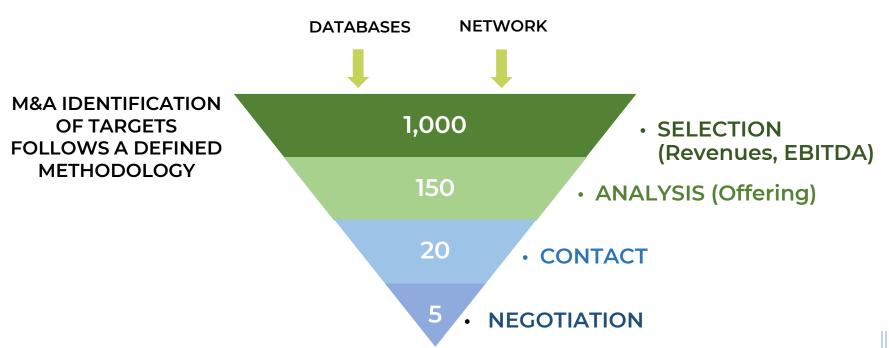
**VERTICAL SOLUTIONS** 



### M&A ACTIVITIES

#### **M&A TRACK RECORD & STRATEGY**

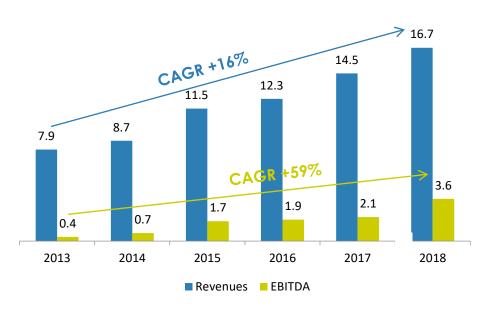
		MARKET	OFFER	SYNERGIES
2012	<u>IGCONSULTING</u>	Healthcare	Data driven governance for Healthcare providers	A new software solution (Clinika) was developed, that analyses narrative text data of clinical documents
2018	<b>Orto</b>	Healthcare	Software and Hardware solutions for hospital acceptance	New proposition for Patient Journey
2019	ROIALTY	Retail	Customer Experience	Patient Experience (Customer Experience in Healthcare)



## ECONOMIC AND FINANCIAL RESULTS



#### **ECONOMIC PERFORMANCE**



REVENUES (2018: €16.7 mln)
HAVE AN AVERAGE ANNUAL
GROWTH OF 16%

EBITDA (2018: €3.6mln)
INCREASES FASTER THAN
REVENUES: AVERAGE ANNUAL
GROWTH OF 59%

**EBITDA MARGIN 2018: 21%** 

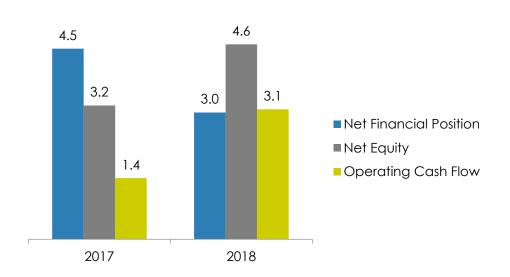
- Revenues from fees increase faster than total revenues (CAGR: 70%)
- Revenues from proprietary solutions increase faster than total revenues and they represent 43% of the total
- Churn rate based on revenues is less than 1%

(\*) 2017 and 2018 Proforma 29

#### 2013 – 2018 FINANCIAL PERFORMANCE(\*)



#### FINANCIAL PERFORMANCE



INDICATORS	2017	2018
Debt/Equity	1.43	0.65
Debt/EBITDA	2.36	0.82
Operating Cash Flow / EBITDA	0.76	0.84

2018 NFP EQUAL TO €3.0 mln (€4.5 mln in 2017), including €4.0 mln of theoretical debt related to the effects of a call option for the 30% of MAPS Healthcare

2018 OPERATING CASH FLOW EQUAL TO €3.1 mln

CASH CONVERSION
excellent and constant cash
conversion used for
acquisitions and investments



#### Revenues

€8.35mln

#### Recurrent fees

24%

2018: 20%

#### **EBITDA**

€1.79mln

EBITDA margin: 20%

#### Contribution margin

43%

1H2018: 42%

- Internationalization path started: agreement with Atos Group German healthcare operator for Patient Journey
- Acquisition of 100% of Roialty, platform for digital loyalty and customer experience management
- Gzoom (performance management solution)
  has been adopted by several new customers
  (e.g. Puglia Region, Catania Municipality)
- KOS important Italian healthcare operator contracts Artexe for the reengineering of its Patient Journey
- Renewal of framework contract with EFSA (European Food Safety Authority)

# STRATEGY INVESTMENT OPPORTUNITY



#### **OBJECTIVES ACTIONS** · Increase the market shares of our Investments in Solutions Research&Solutions solutions Develop new software solutions Investments in Sales area Enlarge our customer base Investments in relationship Market · Acquisitions to expand into areas where management valuable digital data are generated • Investments in Sales area Retain customers and partners Investments in HR Investments in Sales area

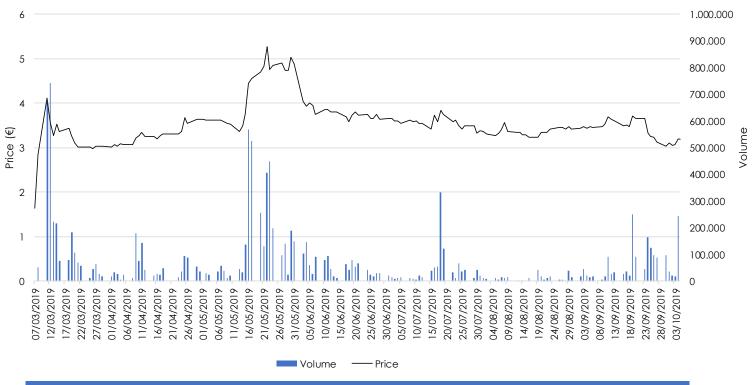
#### INVESTMENT OPPORTUNITY

- Scalability, thanks to proprietary software solutions
- Profitability and cash conversion
- Customers loyalty

- M&A track record
- High potential of Digital Transformation market
- Highly qualified employees

#### **SHARE TREND**





Market	AIM Italia
Bloomberg	MAPS:IM
ISIN	IT0005364333
IPO Date	5 <sup>th</sup> March 2019
IPO Price	€1.628 (€1.90 before Warrant assignment)
Price as of 4 <sup>th</sup> October 2019	€3.190
Performance from IPO	+96%

