



UPDATE ON CORPORATE ACTIONS & STRATEGIC GUIDELINES

March 2017

The European Leader in Cognitive Computing

COMPANY PROFILE

FOUNDED IN MODENA (ITALY) IN 1989 AND LISTED ON THE AIM ITALIA STOCK EXCHANGE SINCE FEBRUARY 2014

EXPERT SYSTEM IS

THE BIGGEST EUROPEAN PURE VENDOR OF COGNITIVE
COMPUTING & TEXT ANALYTICS SOFTWARE AND SOLUTIONS
SPECIALIZED IN SEMANTIC TECHNOLOGY

EXPERT SYSTEM GROUP INCLUDES

10 INTERNATIONAL COMPANIES, LOCATED IN 6 DIFFERENT

COUNTRIES

GLOBAL PUBLIC COMPANY (APPROX. 65% OF FREE FLOAT)



International footprint with a presence in Italy, France, Spain, Germany, UK and North

America



(1) It holds 100% of the following subsidiaries: Expert System Enterprise, Expert System Deutschland, Expert System Canada

ADmantX (2)

24,5%

CY4Gate

BUSINESS OVERVIEW

PATENTED SEMANTIC TECHNOLOGY, CALLED COGITO,
WHICH IS A BUILDING BLOCK OF COGNITIVE
COMPUTING, ALLOWS COMPUTERS TO "UNDERSTAND"
THE MEANING OF CONCEPTS INCLUDED IN ANY TEXT

COGITO DOES NOT PROCESS CONTENT AS A SEQUENCE
OF CHARACTERS, BUT IT IS A

REAL SEMANTIC SOFTWARE THAT RELIES ON DEEP
SEMANTIC ANALYSIS AND A RICH SEMANTIC NETWORK
TO ENSURE A COMPLETE UNDERSTANDING OF A TEXT AS
A PERSON WOULD

COGITO IS ABLE TO ORGANIZE A LARGE QUANTITY OF DATA COMING FROM DIFFERENT SOURCES IN A VERY SHORT PERIOD OF TIME, PROVIDING READY-TO-USE CONTENTS

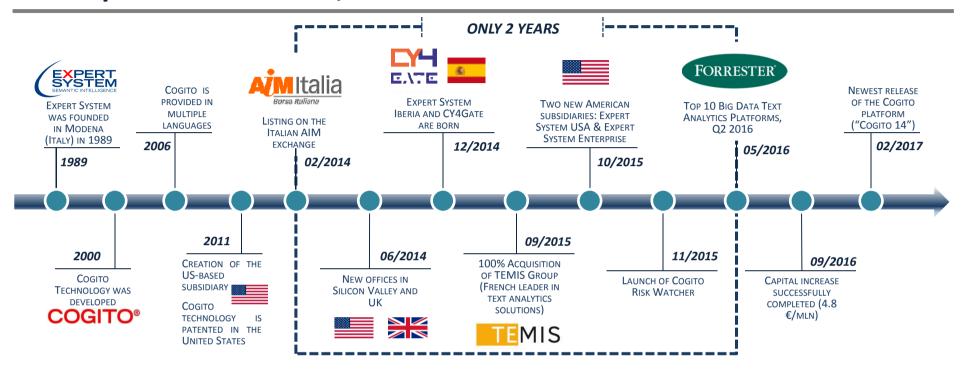


Cogito understands the meaning of words in different contexts, categorizing data by concepts and supporting organizations in becoming more efficient and effective



⁽²⁾ It holds 100% of ADmantX Inc. subsidiary

Development milestones, rich in international awards



INDUSTRY RECOGNITION



Included in the prestigious Gartner
Magic Quadrant among the Top Ten Enterprise
Search Solutions



Named as a
Google for Work
Search
Technology
Premier Partner





Nominated in the
"100 Companies that
Matter in Knowledge
Management" by
KMWorld



Nominated in the
"Forrester Wave Big Data
Text Analytics Platforms,
Q2 2016: The 10 Providers
that Matter Most and How
They Stack Up"



Winner of the 2016 LT-Innovate Award (Linguistic Technologies Award) for Best Language Technology



Winner of the 2016 SIIA CODIE Awards as best Metadata Management Solution



Expert System confirms its market leading position

INTERNATIONAL

AWARDS

Forrester

ES named Strong Performer ("Big Data Text Analytics Platforms, Q2 2016: The 10 Providers That Matter Most And How They Stack Up")

KM World

Cogito Risk Watcher Trend-Setting Product of 2016 "for its capabilities to discover connections between different sources, provides multiple scenarios as data emerges and does so in multiple languages"

CODIE

Winner of CODiE Awards 2016 for "Best Metadata Management"

LT-Innovate Award

Awarded the 2016 LT- Innovate Award (Linguistic Technologies Award) for Best Language Technology during the annual LT-Innovate Summit

US MARKET
STRENGTHENING

New corporate customers

Reference customers in Banking & Insurance

Dedicated company for Federal & Government Business



Newest release of the Cogito platform – Cogito 14

that further simplifies robotic process automation and advanced information intelligence application

This release adds new languages and features: (i) Cogito Studio Express (ii) Cogito Knowledge Graph, (iii) Cogito API

Enriched offering for the Banking & Insurance sector

by extending the capabilities of the cognitive Cogito technology to new areas such as insurance claims management



Integration of the Esri ArcGIS platform

(advanced geospatial analysis technology) with the cognitive Cogito technology from Expert System, extending it worldwide

New international partnership



Successfully completed the offer of 2,609,552 newly issued ordinary shares, for a total capital increase of €4.7 millions

to support business expansion and R&D activities



Group growth and Market expansion



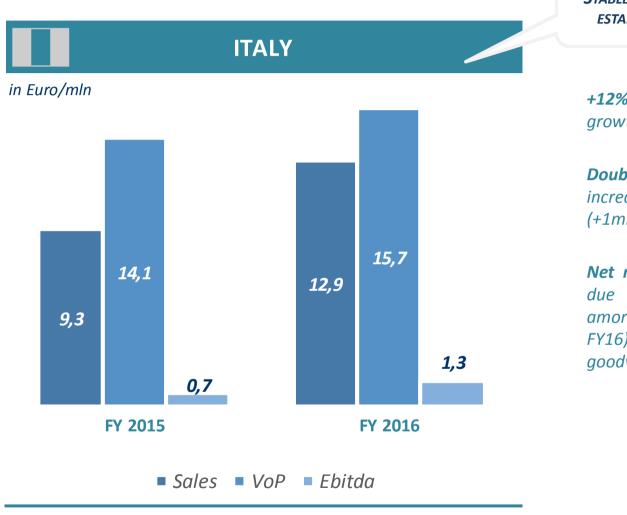
NOTE: (1) Companies consolidated since September 2015 after Temis acquisition

FINANCIALS HIGHLIGHTS									
Figures in €/mln	2015 ⁽²⁾	2016							
Sales	16,4	23,4 +43%	STRONG GROWTH THANKS TO M&A AND ORGANIC						
Value of Production	23,2	29,6 +28%	DEVELOPMENT						
			NEGATIVE MARGINS DUE TO INCREASING SALES						
Ebitda	1,5	(2,2)	FORCE TO PENETRATE FOREIGN MARKETS & R&D COSTS						
			GREAT VALUE OF R&D						
Intangible Assets	18,5	18,4	ACTIVITIES (STABLE IN THE PERIOD DESPITE € 6,1 MLN AMORTIZATION)						
			EQUITY DECREASE DUE						
Equity	20,7	16,4	TO LOSSES (€ 8,1 MLN), PARTIALLY OFFSET BY CAPITAL INCREASE (€4,7 MLN)						
NFP	11,1	11,1	STEADY NET DEBT THANKS TO CAPITAL INCREASE SUCCESSFULLY COMPLETED IN SEPTEMBER 2016						

(2) Restated according to the new accounting method adopted in FY16 (DLgs. 18.8.2015 n. 139 - "decreto bilanci")



Leading position in the Italian market



STABLE GROWTH THANKS TO WELL-ESTABLISHED MARKET POSITION

+12% in VoP, thanks to sales growth (+38% YoY)

Doubling Ebitda, despite increased personnel costs (+1mln YoY)

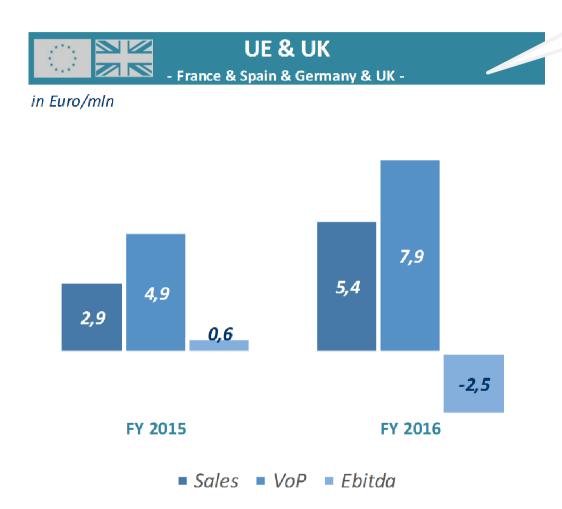
Net results is still negative due to considerable amortization (~2,6 mln in FY16) due to R&D and goodwill

NOTES:

- Net financials of intercompany transactions
- FY2015 restated according to the new accounting method adopted in FY16 (DLgs. 18.8.2015 n. 139)



Development of UE & UK market presence



TEMIS BUSINESS INTEGRATION
COMPLETED IN FY16 & COMMERCIAL
DEVELOPMENT IN HIGH POTENTIAL
MARKET

Revenues trend YoY (+89% in Sale & +61% in VoP) mainly due to M&A (Temis acquisition completed in Sept. 2015).

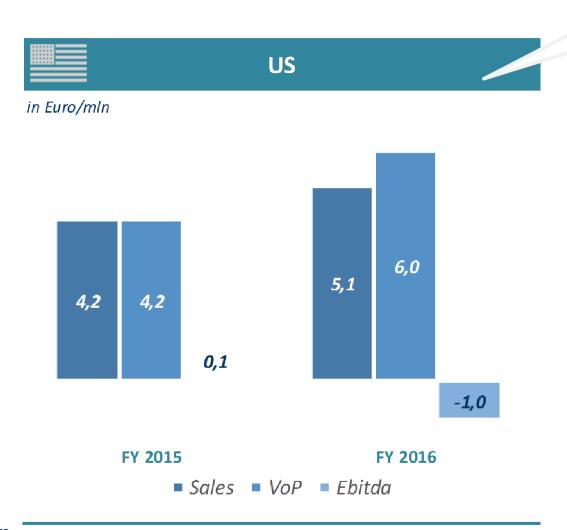
NegativemarginsinFY16duetobusinessreorganizationafteracquisition

NOTES:

- Net financials of intercompany transactions
- FY2015 restated according to the new accounting method adopted in FY16 (DLgs. 18.8.2015 n. 139)



US market presence: investing for the future



STRENGTHENING THE DIRECT SALES FORCE & SALES TO GOVERNMENT INSTITUTIONS

Revenues trend YoY (+20% in Sale & +43% in VoP) mainly due to M&A (Temis acquisition completed at Sept. 2015).

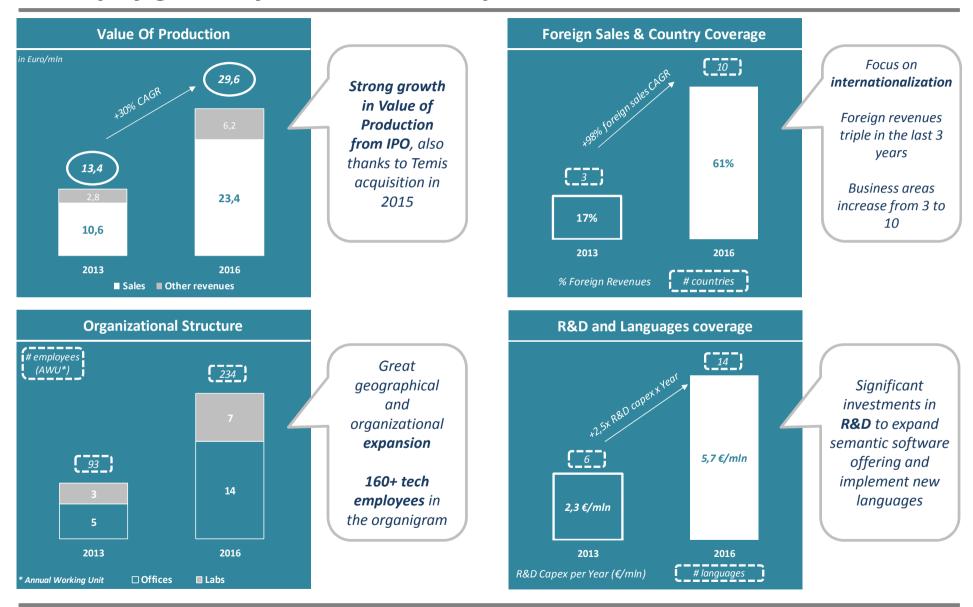
FY2016 margin affected by costs for business integration and commercial & organizational efforts to develop government sales (as for new company ES USA Inc.)

NOTES:

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History of growth from IPO to Today





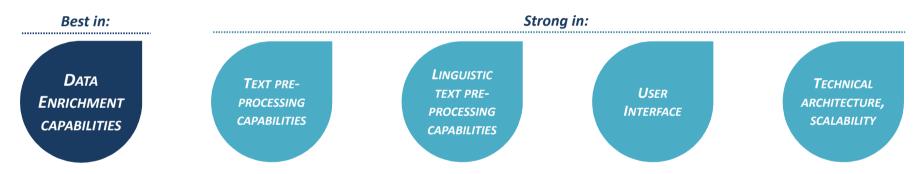
ES in the Global Top 10 of Big Data Text Analytics platform providers

The sample analyzed by Forrester Wave counts approximately **200 VENDORS IN THE BIG DATA TEXT ANALYTICS MARKET SEGMENT**

The top 10 vendors included in this research represent the **TOP 5% OF**THE REFERENCE MARKET

EXPERT SYSTEM IS ONE OF THE TOP10 BIG DATA TEXT ANALYTICS PLATFORMS PROVIDERS. GLOBALLY, in the competitive landscape includes multinational groups with significant critical mass

IN A GLOBAL COMPETITION, EXPERT SYSTEM WAS NAMED A «STRONG PERFORMER» IN THE TOP 10 INCLUDING OUTSTANDING PLAYERS (AS HP, SAS, IBM, OPEN TEXT AND DIGITAL REASONING), DUE TO (1):



COGITO PERFORMS BETTER THAN OTHER SEMANTIC TECHNOLOGIES AND STATISTIC BASED TECHNOLOGIES (TESTED IN CUSTOMER "PROOF OF CONCEPT"):



Statistical-only approaches implement strong infrastructure capabilities to treat keyword-based search and statistics to classify contents, and are incapable of understanding the real context and providing poor results in terms of disambiguation of the precise meaning of words in a specific context

(1) SOURCE: «Forrester Wave™ Big Data Text Analytics Platforms, Q2 2016: The 10 Providers That Matter Most And How They Stack Up»



Leading tech position in vertical business

Expert System has a patented semantic technology able to understand and automatically analyze texts (as a person does), with a UNIQUE COMBINATION OF PRECISION, SPEED AND FLEXIBILITY OF USAGE, RELYING ON A DEEP MORPHOLOGICAL, GRAMMATICAL, LOGICAL AND ESPECIALLY SEMANTIC ANALYSIS

THE LEADING POSITION OF EXPERT SYSTEM IS BASED ON:

Proprietary IP UNLIKE MOST COMPETITORS,
THE CODE DOES NOT CONTAIN
ANY OPEN SOURCE
SOFTWARE; ALL OF THE CODE
IS DEVELOPED INTERNALLY
AND IS WHOLLY OWNED BY
THE COMPANY AND
PROTECTED BY TWO US
PATENTS (NATIVE CODING)

High scalable & flexible product

HORIZONTAL TECHNOLOGY WITH BROAD APPLICATION, VIRTUALLY TO ANY FIELD AND AVAILABLE THROUGH API, ON PREMISE OR AS A SERVICE (SAAS), DIRECTLY OR THROUGH VENDORS OR SYSTEM INTEGRATORS

Significant barriers to entry COGITO ENGINE HAS
REQUIRED MORE THAN 15
YEARS AND 400
YEARS/MEN OF
CONTINUOUS DEVELOPMENT
AND IT IS REFERENCED BY
BLUE CHIP CLIENTS

COGITO DISCOVER

ANALYZE, UNDERSTAND, ENRICH AND ORGANIZE UNSTRUCTURED CONTENT

DRAMATICALLY IMPROVE YOUR
ABILITY TO LEVERAGE CONTENT
THROUGH POWERFUL AUTOMATIC
DISAMBIGUATION, TAGGING AND
CLASSIFICATION

COGITO Answer

NATURAL LANGUAGE PROCESSING

BRIDGE THE GAP BETWEEN
AMBIGUITY AND MEANING BY
LEVERAGING A DEEP
UNDERSTANDING OF CONTEXT AND
SENTIMENT TO IMPROVE THE
CUSTOMER EXPERIENCE AND SERVICE
DELIVERY EFFECTIVENESS

COGITO INTELLIGENCE PLATFORM

INFORMATION INTELLIGENCE

IDENTIFY ABSTRACT RELATIONSHIPS
AND DETECT ASYMMETRICAL
THREATS IN VAST QUANTITIES OF
COMMUNICATIONS, DOCUMENTS,
WEB AND SOCIAL CONTENT FROM
VIRTUALLY ANY ACCESSIBLE SOURCE

COGITO STUDIO

BUILD CUSTOM APPLICATIONS

BUILD AND DEPLOY CUSTOM
APPLICATIONS THAT LEVERAGE
UNSTRUCTURED INFORMATION TO
PROVIDE THE RICH, TARGETED AND
ACCURATE CONTENT DELIVERY YOUR
USERS REQUIRE

The Company has developed commercial applications of this technology, through **VERTICALIZATIONS DEDICATED TO DIFFERENT INDUSTRIES**



ENERGY, OIL & GAS GOVERNMENT & DEFENSE

MEDIA & PUBLISHING

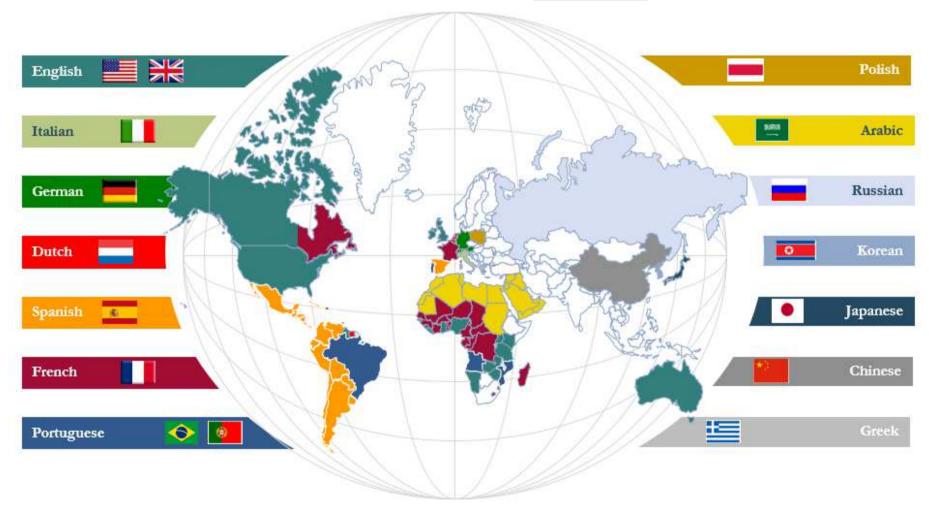
LIFE SCIENCE & PHARMA

PUBLIC ADMINISTR.



Global Distribution Network

COGITO TECHNOLOGY SUPPORTS <u>14 LANGUAGES</u>



BLUE CHIP CLIENT BASE AMONG 100+ CUSTOMERS



Dramatic growth of Artificial Intelligence markets

COGNITIVE SYSTEMS & AI FORECASTS

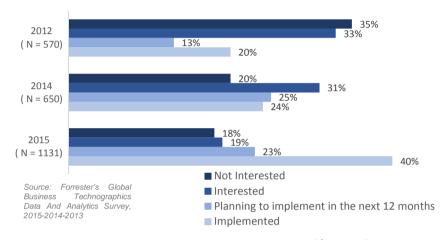
\$47 billion in 2020 Widespread adoption of cognitive systems and artificial intelligence (AI) across a broad range of industries will drive WORLDWIDE REVENUES FROM NEARLY \$8.0 BILLION IN 2016 TO MORE THAN \$47 BILLION IN 2020 (CAGR +55%)

\$1,5 billion in banking in 2016 The industries that invest the most in cognitive/AI systems in 2016 are banking and retail, followed by healthcare and discrete manufacturing (combined, these four industries will generate more than half of all worldwide cognitive/AI revenues in 2016)

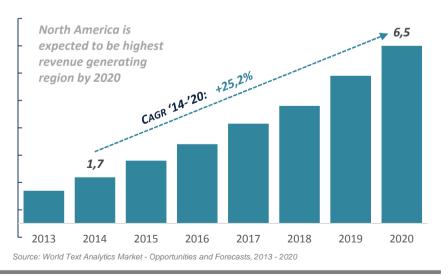
\$6,2 billion in North America NORTH AMERICA (US & CANADA) IS BY FAR THE LARGEST REGION FOR COGNITIVE/AI SPENDING WITH 2016 REVENUES APPROACHING \$6.2 BILLION. Europe, the Middle East and Africa (EMEA) will remain the second largest region throughout the forecast, but cognitive/AI revenues from Asia/Pacific including Japan will nearly close the gap with EMEA by 2020.

TEXT ANALYTICS MARKET

FORRESTER SURVEY ABOUT FIRM'S PLANS TO IMPLEMENT TEXT ANALYTICS



GLOBAL TEXT ANALYTICS MARKET (\$US BN)



Source: Worldwide Semiannual Cognitive/Artificial Intelligence Systems Spending Guide from International Data Corporation (IDC)



Cogito transforms the way people find, comprehend & use information



A UNIQUE TECHNOLOGY

Includes built-in knowledge (knowledge graph)

Reads and understands the way that people do

Makes knowledge discovered in text actionable

Learns from human experience

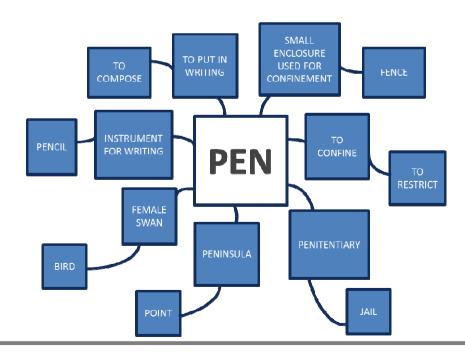
COGITO'S KNOWLEDGE GRAPH

Millions of concepts

All of their different meanings

Millions of relationships between meanings

Out of the box





Business and Market development based on 3 Pillars

EXPERT SYSTEM INTENDS TO PURSUE ITS GROWTH PLAN

INCREASING COMMERCIAL
PRESENCE IN HIGHPOTENTIAL MARKETS
LEVERAGING PROVEN
COGITO TECHNOLOGY AND
EXPERT SYSTEM VERTICAL
PRODUCTS

STRENGTHENING
OF
FOREIGN
MARKETS



GROUP CONSOLIDATION

WRAP UP INTEGRATION
OF FOREIGN OFFICES TO
BENEFIT FROM
SIGNIFICANT ECONOMIES
OF SCALE

INCREASING SALES OF LICENSING (AND RELATED MAINTENANCE) TO INCREASE WEIGHT OF RECURRING REVENUES WITH HIGHER MARGINS FOCUS ON RECURRING & HIGH-MARGINS SALES



Market challenges for the next 3 years

ITALY & RoW

CONSOLIDATING LEADING MARKET POSITION

INCREASING PENETRATION IN INSURANCE AND FINANCE MARKETS

DEVELOPMENT OF SWISS MARKET

UE & UK

STRATEGY FOR TARGETING LARGE CORPORATIONS

INCREASED FOCUS ON KEY GOVERNMENT SALES

INCREASING WEIGHT OF LICENSING

FOCUS ON INSURANCE AND FINANCE MARKETS

SELECTED MANUFACTURING CUSTOMERS ON GERMAN MARKET

US

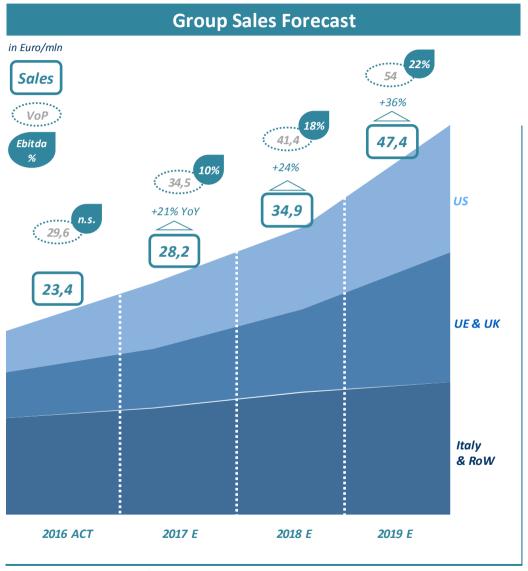
STRATEGY FOR TARGETING LARGE CORPORATIONS

INCREASED FOCUS ON KEY GOVERNMENT SALES

INCREASING WEIGHT OF LICENSING

NEW KEY CUSTOMERS IN LIFE SCIENCE MARKET

FOCUS ON INSURANCE AND FINANCE MARKETS



NOTE: Country sales net of intercompany transactions



Global development in a growing market

Figures in €/mIn	2017	2018	2019			
Sales	28,2	34,9	47,4	CAGR ~29% vs FY16	INCREASING INTERNATIONAL SALES (APPROX. 70% IN 2019)	INCREASING SALES OF LICENSING (APPROX. 53% OF 2019 TOTAL SALES)
Value of Production	34,5	41,4	54,0	STEADY INCOME FROM GRANT (APPROX. € 2 MLN PER YEAR) DUE TO ACKNOWLEDGMENT FOR STRATEGIC R&D ACTIVITIES		CAPITALIZED COST ALMOST € 5 MLN PER YEAR
				MARGINS TURNAROUND IN	OPERATING EFFICIENCY	
Ebitda	3,6	7,3	11,6	THE PLAN THAT BECOME POSITIVE ALSO THANKS TO CHANGES IN THE SALES MIX	ALREADY FROM 2017 THANK TO COST OPTIMIZATION STARTED IN FY16	S SIGNIFICANT ECONOMIES OF SCALE WITH SALES GROWTH
Net Results	(3,4)	0,1	2,7	Breakeven in 20 (requirement i listing on MTA S	FOR CONSIDERAB	IN 2019, DESPITE LE AMORTIZATION C. € 6.5 MLN)
Сарех	4,7	4,9	5,0	STEADY HIGH LEVEL OF CAPEX TO COMPETE GLOBALLY IN A HIGHLY CHALLENGING MARKET		VELOPMENT OF VERTICAL UCT AND IMPROVEMENT OF COGITO TECHNOLOGY
NFP	9,8	9,7	5,5	STEADY NET DEBT IN 2017 TO MARGIN IMPROVEMENT OF INTERNATIONAL O	AND LOW DSO 20	ET DEBT IMPROVEMENT IN 19 THANKS TO INCREASING OPERATING CASH FLOW



Unique positioning in the fast growing AI market





Global public company
Offices in Europe and North America



Patented technology in USA, Awardwinning

Winner in EU and US software selections for key customers thanks to the best-in-class platform



Biggest European Pure Vendor of cognitive computing & text analytics software and solutions



Fast-growing international expansion with both internal and external growth



Strong client portfolio & partnerships, growing indirect sales channels with vendors and system integrators

COGITO®



> 90% precision

Term disambiguation



20 Gigabytes/Day

Over 8 core



400 Years

of human technology development



Linear Scalability

Virtually unlimited information processing



Easy Integration

Set of APIs to support development of semantic apps



Disclaimer

This presentation contains forward-looking statements regarding future events (which impact Expert System's future results) that are based on current expectations, estimates and opinions of management.

These forward-looking statements are subject to risks, uncertainties and events that are unpredictable and depend on circumstances that might change in the future. As a result, any expectation on Expert System results and estimates set out in this presentation may differ significantly depending on changes in the unpredictable circumstances on which they are based.

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