

CREATING VALUE IN THE TECHNOLOGY SECTOR

AVA Research on the main European listed companies





Introduction

This research investigates the **European Technology sector** based on a sample of 50 leading European listed companies.

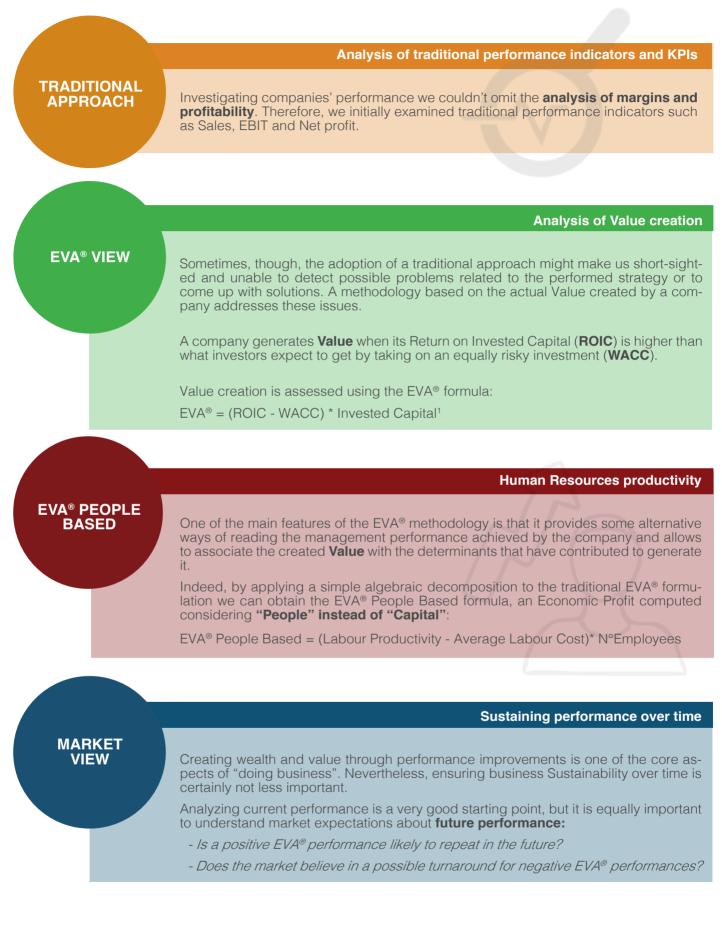
These companies are further classified into the following market subsectors: **Computer Hardware, Computer Services, Consumer Electronics, Electronic Equipment, Internet, Semiconductors, Software, Spec.Consumer Service, Telecom. Equipment.**

Their performance is analyzed using four different approaches. The first is **The Traditional Approach** which examines common indicators such as Sales, EBIT and Profit. The other three approaches: **The EVA® View**, **The EVA® People-Based View and The Market View** are designed to measure companies' ability to create Value. The **EVA® People-Based View** investigates the issues of productivity and employees' value creation. **The Market View**, on the other hand, focuses on understanding market expectations regarding future company performance in terms of created Value. Thus, it serves as a basic tool to revise business plans and improve incentive schemes to achieve the set objectives.

Finally, Active Value Advisors provides its point of view about some recent "**Hot Topics**" companies need to deal with when they face challenges related to **profitability**, **efficiency and organizational flexibility** or when they need to take full advantage of **technology (i.e. Big Data**, **Cloud Computing, Business Intelligence)** in the most profitable way.

Active Value Advisors believes that properly managing and constantly monitoring information through **Business Intelligence & Analytics tools** can contribute significantly to an exceptional performance. Another extremely important driver in this historical context is related to the **organizational dimension** which represents the "real challenge" companies have to face in order to deal effectively with the complexity of the current competitive environment.

How to measure company performance?

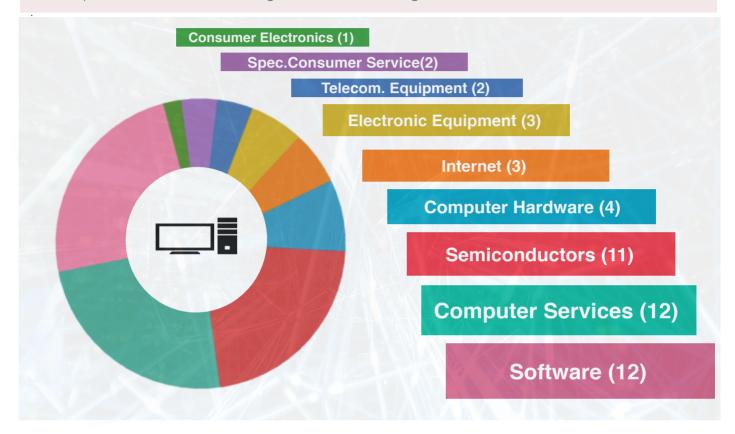


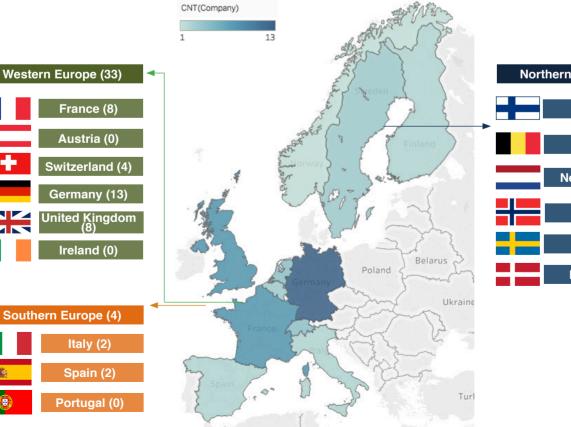
¹ AVA advises to use Invested Capital net of goodwill for management purposes and applies this best practice to the EVA® View and EVA® People-Based analyses. The Market View analysis and price decomposition instead is carried out using Invested Capital without netting out goodwill.

The research sample

This study investigates the performance of the **Technology sector** in 2017 by analyzing a basket of **European listed companies**.

The sample is composed of **50** leading companies listed on the main European exchanges. The companies have been further categorized into the following subsectors:



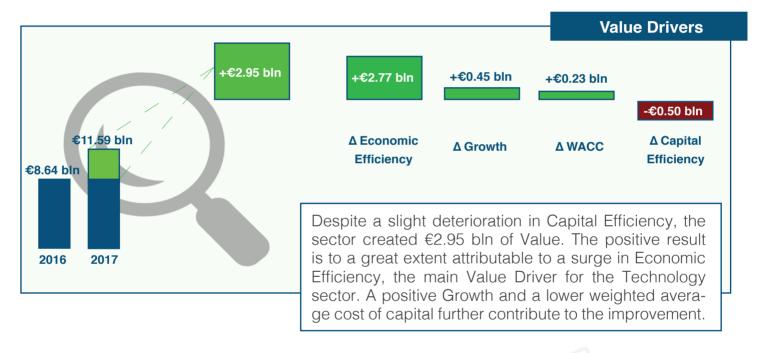




The Technology sector in a nutshell

Sales for the Technology companies in the sample grew by 8.2% w.r. to 2016 and reached €165,7 bln in 2017. The sector's **profitability** suffered a slight decline instead with profit margins (Profit/Sales) dropping to 6.9% (-0.3 p.p. w.r. to 2016). The subsector with the highest, 14.5%, margin is **Semiconductors**, followed by the **Internet** subsector with an average 13.9% margin. The companies in the Consumer Electronics, Spec.Consumer Service and Telecom subsectors recorded negative profit margins instead.

As far as **Value creation** is concerned, the sector managed to deliver an **exceptional +34.2% improvement** relative to 2016, with EVA[®] hitting €11.6 bln in 2017. In this context, the **Software** and **Semiconductors** subsectors stand out with an average €481.0 mln and €319.3 EVA[®]/company respectively.



Average **employee productivity**, at \in 84.5k in 2017, is **on the rise** relative to 2016 (+6.7%). Interestingly, this growth was not matched by an equivalent increase in average salaries (+2.6% w.r. to 2016). In the same period, the number of employees of the Technology increased by 4.5%. In the context of employee productivity, the **Software** subsector's performance is distinctive with an average \leq 147.2k/employee. **Spec.Consumer Service** companies place second with an average \leq 94.6k/employee productivity.

What do the markets tell us about the Technology sector? The picture here is **optimistic**. The sector FGV, positive also in 2016, grows further in 2017. What does it mean? A positive sector FGV implies that the expected return implicit in stock prices is now higher than the actual return obtained. In other words, investors are positive about future performance improvements in the Technology sector. This is true for all subsectors except Electronic Equipment.

The Traditional Approach

TRADITIONAL APPROACH

The table below shows the **Top 10** companies based on the **The Traditional Approach**.

In the three columns we have reported respectively:

- the differential (%) between 2017 and 2016 Sales
- the 2017 EBIT/Sales
- the 2017 Profit/Sales.

	Δ Sales (2017-2016)	EBIT/Sales	Profit/Sales	
ASM INTERNATIONAL	23%	16%	61%	
ASML HOLDING	33%	27%	23%	
SCOUT24	9%	36%	23%	
MELEXIS	12%	25%	22%	
AMADEUS IT GROUP	8%	28%	21%	
AVEVA GROUP	3%	22%	18%	
THE SAGE GROUP	5%	26%	17%	
HEXAGON	10%	27%	17%	
RIB SOFTWARE	11%	17%	17%	
SAP	6%	24%	16%	



Value Creation - The EVA® View

The following table shows the Top 10 compeanies based on the EVA® View.

In the five columns we have reported respectively:

- the 2017 EVA®/Sales
- the sign of EVA®
- the sign of the EVA® variation between 2017 and the 2016-2015 mean
- the sign of the Sales variation between 2017 and the 2016-2015 mean
- the Status, or the label used by AVA to assess companies' performance.

	EVA [®] /Sales	EVA® (+/-)	ΔΕVA® (+/-)	ΔSales (+/-)	Status	
THE SAGE GROUP	21%	+	+	+	Champion –	Champion
HEXAGON	19%	+	+	+	Champion	Companies with an out- standing and improving per-
MELEXIS	18%	+	+	+	Champion	formance in terms of both sales growth and adopting
SAP	17%	+	+	+	Champion	an EVA® view.
ASML HOLDING	17%	+	+	+	Champion	
SCOUT24	16%	+	+	+	Champion -	-
	16%	+	+	+	Champion	Focusing
AVEVA GROUP	15%	+	+	-	Focusing -	Companies featuring slower
XING SE	12%	+	+	+	Champion	growth but higher and more focused Value Creation.
AMADEUS IT GROUP	12%	+	+	+	Champion	

WHAT IS EVA[®]?



EVA® is a residual Income, i.e. the residual value of Sales after deducting the cost of all operating factors, including the opportunity cost of the capital invested by shareholders.

EVA® VIEW

Value Creation- The People-Based Approach

EVA® PEOPLE BASED

The following table represents the Top 10 companies in the sample, for what concerns the $\textbf{EVA}^{\$}$ People Based.

In the three columns we have reported respectively:

- the 2017 Number of Employees
- the 2017 Productivity per employee
- the **2017 EVA®** per employee.

	N° Employees	Productivity/ Employee (€ '000)	EVA [®] /Employee (€ '000)
ASML HOLDING	19,216	173	81
MELEXIS	1,276	132	71
SCOUT24	1,244	163	65
DIALOG SEMICONDUCTOR	2,071	172	55
SILTRONIC	3,730	134	51
AMADEUS IT GROUP	14,963	139	49
SAP	88,543	178	47
HEXAGON	18,315	100	37
JUST EAT	2,116	95	34
THE SAGE GROUP	13,795	94	29

The Market: sustaining performance

Share prices are usually defined "forward looking" in that they embed valuable information about a company's performance expectations. Through daily quotations, the capital market quantifies the expectations of multiple investors about the company's future performance.

By decomposing a company's value it is possible to learn about market expectations and, most of all, to quantify the company's performance improvements needed to meet (or exceed) these expectations.

Market Value Added (MVA)

A measure of the Value created by a company. It can

The portion of MVA explained by the company's ability to replicate

EVA® Perpetuity

Future Growth Value

The difference between MVA and EVA® Perpetuity. It quantifies market expectations about a company's future over (or under) performance. It is the present value of the future ∆EVA®s with respect to the last EVA® recorded (EVA® 2017).

MARKET

VIEW

ROIC (actual) is the Return generated by the Capital Invested (IC) in the company. It is cal-

ROIC^e (expected), implicit in market prices, represents the "theoretical" Return required by investors to meet market expectations.

WHAT DOES THIS METHODOLOGY MEAN FOR **COMPANIES?**

The understanding of the expected performance improvements implied in a company's share price gives companies the opportunity to revise and adjust their business plans. Moreover, it provides the board with information to assist decision-making in areas such as target setting and management incentive schemes.

A Company with a high FGV needs to deliver positive ΔEVA®s to avoid the stock price taking on a downward trend. Similarly, a high FGV company will find it difficult to increase its share price- it would need to outperform its expected EVA® performance. Such a company will have a ROIC^e higher than its actual ROIC.

A company with a negative FGV will instead need relatively small improvements to beat market expectations and achieve a higher share price. Such a company will have a ROIC^e that is lower than its actual ROIC.

* AVA advises to use Invested Capital net of goodwill for management purposes and applies this best practice to the EVA® View and EVA® People-Based analyses. The Market View analysis and price decomposition instead is carried out using Invested Capital without netting out goodwill.

a company.

be seen as the sum of all the the achieved results (2017) in the future EVA® performances future expected by the market. Future Future ROIC Growth Growth Market Value Value Value Enterprise Added value culated using accounting values. **EVA[®]** Perpetuity Current Operation Value **ROIC**^e (ROIC expected) Invested Invested Capital Capital **Current Operation Value** Enterprise value **Invested Capital (IC)** The Current Value of

of a company.

The sum of debt and equity accounting values*.

The total Value

The Market: Prices and Expectations

Accordingly, a company's share price can be decomposed into two elements: the **Current Value Component** and the **Future Value Component**.

The table below shows data on: **Share Prices**, **Price components**, **ROIC** and **ROIC**^e for the top 10 companies by market capitalization and for the Italian companies in the sample (share prices as of December, 29th 2017).

	Price/share (€)	=	Current Value Component (€)	+	Future Value Component (€)	ROIC	ROIC°
SAP	93.54 [:]	=	68.57	+	24.97	71%	96%
ASML HOLDING	145.15 [:]	= [92.72	+	52.43	20%	32%
AMADEUS IT GROUP	60.11 :	=	26.04	+	34.07	26%	56%
INFINEON TECHNOLOGIES	22.90 :	=	14.58	+	8.31	19%	32%
DASSAULT SYSTEMES	88.59	=	38.84	+	49.75	21%	56%
NOKIA	3.89 [:]	= [1.76	+	2.13	6%	26%
CAPGEMINI	98.89	=	94.24	+	4.65	90%	94%
STMICROELECTRONICS	18.21 :	=	15.11	+	3.10	19%	23%
HEXAGON	41.80 :	=	15.11	+	4.70	36%	39%
ATOS	121.35	=	136.32	+	-14.97	NA	NA
Focus on Italy							



Revenue Management A wide range of opportunities to increase Value

The primary aim of Revenue Management is selling the right product to the right customer at the right time for the right price and with the right configuration. The essence of this discipline is understanding customers' perceptions about Product Value and accurately aligning Product Prices, Placement and Availability for each Customer segment. Revenue Management absorbs a wide range of opportunities to increase Value. Pricing is the most important Revenue Management lever.

Why not to use a data-driven strategy to meet these challenges and increase Revenues?

Active Value Advisors approaches the issue of Revenue Management by integrating specialized competences and the use of state-of-the-art Business Intelligence tools.

With Self BI tools like Tableau Software or Qlik, we can provide different solutions and models that are tailored to customer needs and quickly available. Win/Loss models, Price waterfall, Price elasticity, Price corridors, Variance analysis and many others are powerful tools to address operational and decisional mechanisms. The main aim of a Pricing strategy is understanding and "anticipating" the **Value created** for clients and setting prices that allow to capture this Value.



Pricing & Economic Value to the Client

More and more companies adopt an approach of selling solutions instead of selling products. Such strategies allow to obtain a better differentiation from competitors and to maximize customers' willingness to pay by providing them with solutions fit to meet their needs.

To succeed in such a strategy, it is important to understand how different Products/Services impact each customer segment. The **Economic Value to the Client** methodology allows to charge the maximum possible price and thus not to "leave money on the table".





Network Analisys and the measure of Cooperation

Why do many excellent strategies fail or do not deliver the expected results? While there are numerous potential factors that may help explain it, there is one that is common to (almost) all cases: people. The problem is not their lack of competences or knowledge. Rather, problems arise due to corporate behaviour and the difficulty with which it can be changed and aligned with a company's strategies.

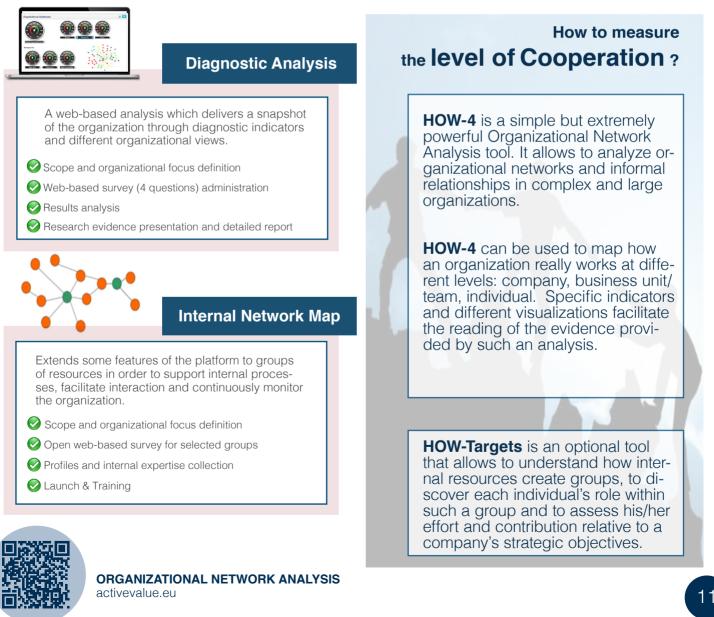
Cooperation to reduce complexity. "Business complexity" grew sixfold in the last sixty years.

Traditional solutions are obsolete to deliver the successful organizational change required by today's fast-changing business world. Understanding and continuously and efficiently managing corporate behaviour is therefore a must.

What does it mean? That to succeed in a complex and continuously changing business environment, it is necessary to work not only on the "Organizational Skeletron", but also (and most importantly) on its "Nervous System", i.e. how people interact and work with each other.

The **SOLUTION**: Embrace new tools to quickly understand how organizations really work (Organizational Network Analysis - ONA), to foster engagement, to promote management's behavioural change (e.g. continuous feedback) and to adopt incentive schemes designed to induce people to look for cooperation.

How to be sure that the informal organizational structure is aligned with the formal/desired one?





Target Setting Outside-In

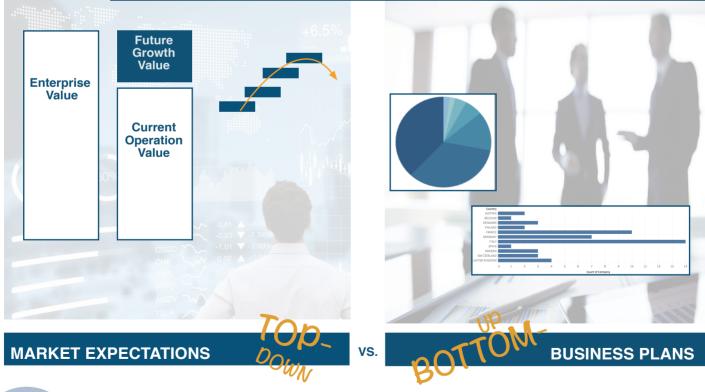
What is it about?

Through Target Setting modeling and simulation, it is possible to tie the expectations implicit in stock market prices to the operating results that represent the fundamental Values of a Company.

"Target setting Outside-In" represents the "reverse engineering approach" of a traditional equity valuation process. Starting from stock prices and using solid models the fundamentals that are incorporated within these prices are determined. This powerful approach, fully complementary to the traditional planning process, allows to enormously enrich it by taking advantage of all the information included in stock prices.

What is the objective of Target Setting Outside-In?

- To assess the level of challenge of Business Plans given the 'true' Value of a company
- To benchmark market expectations using a group of peer companies
- To define and optimize the relevant managerial levers, with due importance given to external factors
- To enable the implementation of innovative Governance Systems by defining long-term management objectives and coherent incentive schemes BEFORE business plans are drafted.



Target setting technicalitites to define and optimize management objectives





Business Intelligence & Analytics

Data grow and change rapidly. If collected, analyzed and visualized properly they can be a source of valuable information, insights and competitive advantage. This data availability boom delineates a new role for IT teams.

In such a context, the term "Business Intelligence" is a concept that expresses the need to think beyond the paradigm of data analysis in isolation from business goals. Indeed, through **Self Business Intelligence**, technology and business objectives should blend together into a new configuration, within a solid decision-making framework. Today new technologies, such as Big Data, Analytics, Mobile and Cloud computing are able to capture massive and detailed streams of data, in a relatively **easy and convenient way.**



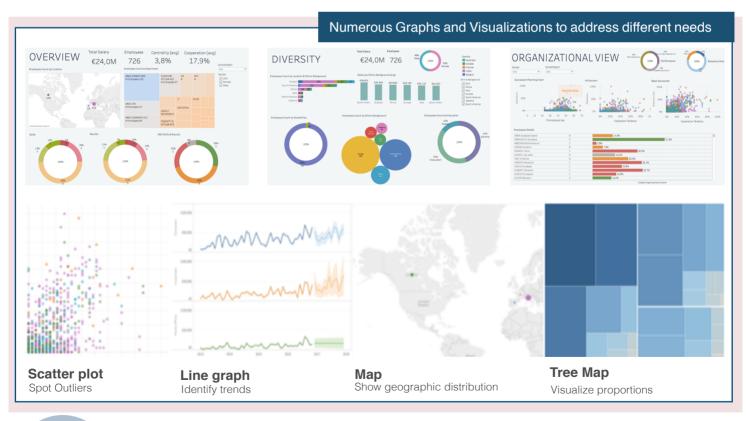


A "dynamic" model in which a Business continuously transforms data and "discovers" information that is useful at a particular point in time, making it easily understandable through data visualization and in which the IT Department acts as "the guardian" of the proper management of data sources.

Data Management "NOW"

- Multitude of data available
- Data always up-to-date
- Ease of data analysis
- Oata centralitization and uniqueness
- Reports created by final users
- Customizable output

But having everything is not always better than having nothing. **The value of data is contingent on being able to extract information.** And, this is not just a matter of tools. The role of Management is **to know what data to look for to address relevant business issues and to maximize the use of data to support strategic decisions.**





Active Value Advisors

3 Competence Centres

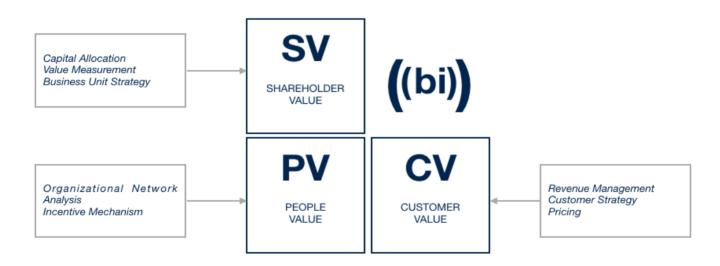
Active Value Advisors is an independent management consulting firm that acts as a partner for Companies that need to strengthen their Governance System and for Companies that want to pursue a path of growth by applying solutions consistent with the objective of creating sustainable Value.

Active Value Advisors assists such companies by leveraging successful techniques and experiences focused on Value-based management systems and by making them available to the top management through **Business Intelligence (BI) tools.**

The professionals of Active Value Advisors have a long experience in assisting major Italian listed groups in the development of Business Plans, in selecting the actions to improve Value performance and in assisting the change process required by the competitive dynamics and market opportunities.

In carrying out these mandates a common Value framework is applied to various management issues: **Shareholder Value**, **Customer Value** and **People Value**. Each competence centre responds to a fundamental dimension of the management system and addresses key stakeholders: Shareholders, Customers and Internal Resources.

Thanks to the collaboration with accredited professionals in the area of Strategic Pricing, Active Value Advisors has enriched its skills and professional methods with innovative models and tools of Value Pricing.



Disclaimer

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The Traditional Approach - complete table

-		I	
Company	Δ Sales (%)	EBIT/Sales	Profit/Sales
ALSO HOLDING AG	13%	1%	1%
ALTEN	13%	10%	7%
AMADEUS IT GROUP SA	8%	28%	21%
AMS AG	93%	5%	8%
ASM INTERNATIONAL NV	23%	16%	61%
ASML HOLDING NV	33%	27%	23%
ATOS SE	8%	8%	5%
AVEVA GROUP PLC	3%	22%	18%
AXIS AB	15%	12%	9%
BARCO NV	-2%	7%	2%
BECHTLE AG	15%	4%	3%
CANCOM SE	14%	5%	3%
CAPGEMINI SE	2%	10%	6%
COMPUGROUP MEDICAL SE	4%	14%	5%
COMPUTACENTER PLC	13%	3%	2%
DASSAULT SYSTEMES SE	6%	24%	16%
DATALOGIC SPA	5%	13%	10%
DELIVERY HERO AG	83%	-49%	-63%
DIALOG SEMICONDUCTOR PLC	9%	15%	13%
DIEBOLD NIXDORF AG	-12%	8%	9%
DORMAKABA HOLDING AG	18%	13%	5%
ECONOCOM GROUP SE	17%	4%	3%
EVRY ASA	2%	12%	-2%
FIDESSA GROUP PLC	3%	4%	10%
GEMALTO N.V.	-6%	2%	-14%
HEXAGON AB	10%	2%	17%
HUBER UND SUHNER AG	4%	7%	5%
	10%	6%	4%
	9%	14%	11%
INGENICO GROUP SA	9%	16%	10%
IQE PLC	12%	11%	14%
ISRA VISION AG	11%	19%	14%
JUST EAT PLC	40%	22%	-19%
LOGITECH INTERNATIONAL SA	10%	9%	9%
MELEXIS NV	12%	25%	22%
MICRO FOCUS INTERNATIONAL PLC	24%	28%	11%
ΝΟΚΙΑ ΟΥ	-2%	5%	-6%
REPLY SPA	13%	11%	9%
RIB SOFTWARE SE	11%	17%	17%
SAP SE	6%	24%	16%
SCOUT24 AG	9%	36%	23%
SILTRONIC AG	26%	20%	16%
SOITEC	5%	12%	3%
SOPHOS GROUP PLC	23%	-2%	-9%
STMICROELECTRONICS NV	16%	13%	3%
THE SAGE GROUP PLC	5%	26%	17%
TIETO OYJ	3%	9%	7%
TOMTOM N.V.	-9%	10%	-23%
X FAB SILICON FOUNDRIES EV	10%	6%	15%
XING SE	27%	23%	14%
	2170	2070	17/0

Value Creation - complete table

Company	EVA®/ Sales	EVA® +/-	Δ EVA® +/-	∆ Sales +/-	Status
ALSO HOLDING AG	1%	+	+	+	Champion
ALTEN	5%	+	+	+	Champion
AMADEUS IT GROUP SA	15%	+	+	+	Champion
AMS AG	1%	+	-	+	Need for control
ASM INTERNATIONAL NV	7%	+	+	+	Champion
ASML HOLDING NV	17%	+	+	+	Champion
ATOS SE	7%	+	+	+	Champion
AVEVA GROUP PLC	16%	+	+	-	Focusing
AXIS AB	8%	+	+	+	Champion
BARCO NV	4%	+	+	+	Champion
BECHTLE AG	2%	+	+	+	Champion
CANCOM SE	3%	+	+	+	Champion
CAPGEMINI SE	7%	+	-	+	Need for control
COMPUGROUP MEDICAL SE	6%	+	+	+	Champion
	2%	+	+	+	Champion
DASSAULT SYSTEMES SE	12%	+	+	+	Champion
DATALOGIC SPA	8%	+	+	+	Champion
DELIVERY HERO AG	-53%	-	NA	+	NA
DIALOG SEMICONDUCTOR PLC	10%	+		+	Need for control
DIEBOLD NIXDORF AG	6%	+	+	т	Focusing
DORMAKABA HOLDING AG	8%	+	+	+	Champion
ECONOCOM GROUP SE	3%				Champion
	1	+	+	+	
EVRY ASA	9%	+	NA	-	NA
FIDESSA GROUP PLC	-1%	-	+	-	Restructuring
GEMALTO N.V. HEXAGON AB	0%	-	-	-	Need for rebirth
	19%	+	+	+	Champion
HUBER UND SUHNER AG	2%	+	-	+	Need for control
	2%	+	+	+	Champion
INFINEON TECHNOLOGIES AG	9%	+	+	+	Champion
INGENICO GROUP SA	5%	+	-	+	Need for control
IQE PLC	4%	+	-	+	Need for control
ISRA VISION AG	9%	+	+	+	Champion
JUST EAT PLC	12%	+	+	+	Champion
LOGITECH INTERNATIONAL SA	8%	+	+	+	Champion
MELEXIS NV	18%	+	+	+	Champion
MICRO FOCUS INTERNATIONAL PLC	12%	+	+	+	Champion
ΝΟΚΙΑ ΟΥ	0%	+	-	+	Need for control
REPLY SPA	3%	+	+	+	Champion
RIB SOFTWARE SE	4%	+	+	+	Champion
SAP SE	18%	+	+	+	Champion
SCOUT24 AG	17%	+	+	+	Champion
SILTRONIC AG	16%	+	+	+	Champion
SOITEC	8%	+	+	+	Champion
SOPHOS GROUP PLC	-2%	-	-	+	What after growth?
STMICROELECTRONICS NV	8%	+	+	+	Champion
THE SAGE GROUP PLC	21%	+	+	+	Champion
TIETO OYJ	5%	+	+	+	Champion
TOMTOM N.V.	9%	+	+	-	Focusing
X FAB SILICON FOUNDRIES EV	1%	+	NA	+	NA
XING SE	16%	+	+	+	Champion

Need for control
Companies featured
by a temporary
downturn.
Champion

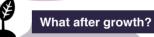
Companies with an outstanding and improving performance in terms of both sales growth and adopting an EVA® view.

Falling Angel

Companies, once Champions, but now facing decreasing performances both in terms of EVA® and Sales. It may thus be necessary to revise the Value Proposition.

Need for rebirth

Companies with worsening results, affected by heavy difficulties and witnessing a complete Value destruction.



Companies focused solely on growth. It may be necessary to verifiy/revise business objectives.



Companies featuring slower growth but higher and more focused Value Creation.

The People-Based Approach- complete table

Company	N° Employees	Productivity/ Employee (€'000)	EVA [®] / Employee (€'000)
ALSO HOLDING AG	3,870	74	17
ALTEN	28,000	53	3
AMADEUS IT GROUP SA	14,963	139	49
AMS AG	11,168	NA	1
ASM INTERNATIONAL NV	1,900	116	27
ASML HOLDING NV	19,216	173	81
ATOS SE	89,989	73	10
AVEVA GROUP PLC	1,692	94	23
AXIS AB	2,865	NA	25
BARCO NV	3,515	NA	14
BECHTLE AG	8,353	69	8
CANCOM SE	2,913	78	12
CAPGEMINI SE	199,698	45	5
COMPUGROUP MEDICAL SE	4,572	67	8
COMPUTACENTER PLC	14,026	NA	5
DASSAULT SYSTEMES SE	16,140	118	23
DATALOGIC SPA	2,912	60	17
DELIVERY HERO AG	14,631	-8	-20
DIALOG SEMICONDUCTOR PLC	2,071	172	55
DIEBOLD NIXDORF AG	8,401	87	17
DORMAKABA HOLDING AG	16,965	NA	11
ECONOCOM GROUP SE	10,760	60	8
EVRY ASA	8,545	86	14
FIDESSA GROUP PLC	1,705	117	-3
GEMALTO N.V.	15,000	76	-1
HEXAGON AB	18,315	100	37
HUBER UND SUHNER AG	4,200	59	3
INDRA SISTEMAS	40,020	39	1
INFINEON TECHNOLOGIES AG	37,479	75	16
INGENICO GROUP SA	8,003	NA	16
IQE PLC	591	97	10
ISRA VISION AG	692	88	20
JUST EAT PLC	2,116	95	34
LOGITECH INTERNATIONAL SA	6,400	NA	25
MELEXIS NV	1,276	132	71
MICRO FOCUS INTERNATIONAL PLC	4,826	136	29
ΝΟΚΙΑ ΟΥ	103,000	76	0
REPLY SPA	6,456	71	4
RIB SOFTWARE SE	832	66	5
SAP SE	88,543	178	47
SCOUT24 AG	1,244	163	65
SILTRONIC AG	3,730	134	51
SOITEC	942	NA	22
SOPHOS GROUP PLC	3,122	NA	-3
STMICROELECTRONICS NV	45,468	65	12
THE SAGE GROUP PLC	13,795	94	29
TIETO OYJ	14,329	66	5
TOMTOM N.V.	4,825	NA	18
X FAB SILICON FOUNDRIES EV	3,965	NA	1
XING SE	1,290	77	22

The Market - complete table (prices as of 29.12.2017)

Company	Price/share (€)		Current Value Component (€)		Future Value Component (€)
ALSO HOLDING AG	114.52	=	148.69	+	-34.17
ALTEN	69.61	=	67.68	+	1.93
AMADEUS IT GROUP SA	60.11	=	26.04	+	34.07
AMS AG	75.59	=	4.41	+	71.18
ASM INTERNATIONAL NV	56.37	=	47.84	+	8.53
ASML HOLDING NV	145.15	=	92.72	+	52.43
ATOS SE	121.35	=	136.32	+	-14.97
AVEVA GROUP PLC	20.19	=	8.56	+	11.63
AXIS AB	34.57	=	22.41	+	12.16
BARCO NV	89.25	=	90.83	+	-1.58
BECHTLE AG	69.90	=	49.87	+	20.03
CANCOM SE	68.78	=	52.36	+	16.42
CAPGEMINI SE	98.89	=	94.24	+	4.65
COMPUGROUP MEDICAL SE	55.14	=	12.16	+	42.98
COMPUTACENTER PLC	12.99	=	12.62	+	0.37
DASSAULT SYSTEMES SE	88.59	=	38.84	+	49.75
DATALOGIC SPA	30.82	=	12.42	+	18.40
DELIVERY HERO AG	32.96	=	-24.93	+	57.88
DIALOG SEMICONDUCTOR PLC	25.96	=	43.53	+	-17.57
DIEBOLD NIXDORF AG	73.09	=	87.30	+	-14.21
DORMAKABA HOLDING AG	775.58	=	1028.95	+	-253.37
ECONOCOM GROUP SE	5.96	=	5.20	+	0.76
EVRY ASA	3.31	=	6.11	+	-2.80
FIDESSA GROUP PLC	28.51	=	2.71	+	25.80
GEMALTO N.V.	49.50	=	0.49	+	49.01
HEXAGON AB	41.80	=	37.10	+	4.70
HUBER UND SUHNER AG	43.46	=	41.51	+	1.95
INDRA SISTEMAS	11.41	=	7.43	+	3.97
INFINEON TECHNOLOGIES AG	22.90	=	14.58	+	8.31
INGENICO GROUP SA	89.01	-	64.86	+	24.15
IQE PLC	1.54	=	0.46	+	1.08
ISRA VISION AG	42.52	=	18.05	+	24.47
JUST EAT PLC	8.80	=	2.83	+	5.97
LOGITECH INTERNATIONAL SA			2.63		3.63
MELEXIS NV	28.12 84.37	=	44.16	+	40.21
MICRO FOCUS INTERNATIONAL PLC	28.42	=	8.30	+	20.12
		=		+	
	3.89	=	1.76	+	2.13
REPLY SPA	46.17	=	19.11	+	27.06
RIB SOFTWARE SE	24.73	=	5.89	+	18.84
SAP SE	93.54	=	68.57	+	24.97
SCOUT24 AG	34.03	=	17.19	+	16.83
SILTRONIC AG	122.30	=	142.62	+	-20.32
SOITEC	59.45	=	15.08	+	44.37
SOPHOS GROUP PLC	6.42	=	-0.86	+	7.28
STMICROELECTRONICS NV	18.21	=	15.11	+	3.10
THE SAGE GROUP PLC	8.99	=	5.10	+	3.89
TIETO OYJ	25.98	=	24.76	+	1.22
TOMTOM N.V.	8.26	=	7.30	+	0.95
X FAB SILICON FOUNDRIES EV	9.60	=	4.85	+	4.76
XING SE	266.51	=	105.45	+	161.06

ROIC	ROIC°			
15%	12%			
17%	18%			
26%	56%			
6%	36%			
10%	16%			
20%	32%			
NA	NA			
44%	126%			
68%	118%			
29%	34%			
15%	21%			
49%	76%			
90%	94%			
17%	56%			
34%	41%			
21%	56%			
37%	91%			
-74%	87%			
21%	14%			
21% NA	NA			
30%	24%			
60%	67%			
22%	14%			
0%	84%			
4%	29%			
36%	39%			
8%	10%			
13%	18%			
19%	32%			
9%	12%			
9%	37%			
15%	36%			
20%	74%			
62%	81%			
45%	89%			
12%	32%			
6%	26%			
17%	43%			
11%	84%			
71%	96%			
15%	27%			
80%	75%			
23%	93%			
NA	NA			
19%	23%			
NA	NA			
18%	18%			
NA	NA			
7%	19%			
	NA			

18



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