

M&A and Corporate Finance Trends in the IoT Sector

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Introduction to Redwood Capital

Introduction to Redwood

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Global investment banking services for companies across the technology, communications, media, and business service industries

Mergers & Acquisitions

- Sell Side / Divestitures
- Buy Side / Strategic Acquisitions
- Buyouts
- Mergers of Equals

Corporate Finance

- Growth Stage Capital
- Buyout Capital / Private Equity
- Mezzanine and Debt Financing
- Acquisition Financing / Project Financing

Co-Investment Partnership

- Invest between \$25m \$150m per deal alongside select Redwood client transactions worldwide
- Focus on Growth Equity, Buyout, and Mezzanine; no Venture Stage

Restructuring

- Sale / Refinancing of distressed companies
- Chapter 363 Asset Sales
- Chapter 11 plan / reorganization / sale
- Assignment for the Benefit of Creditors (ABCs)

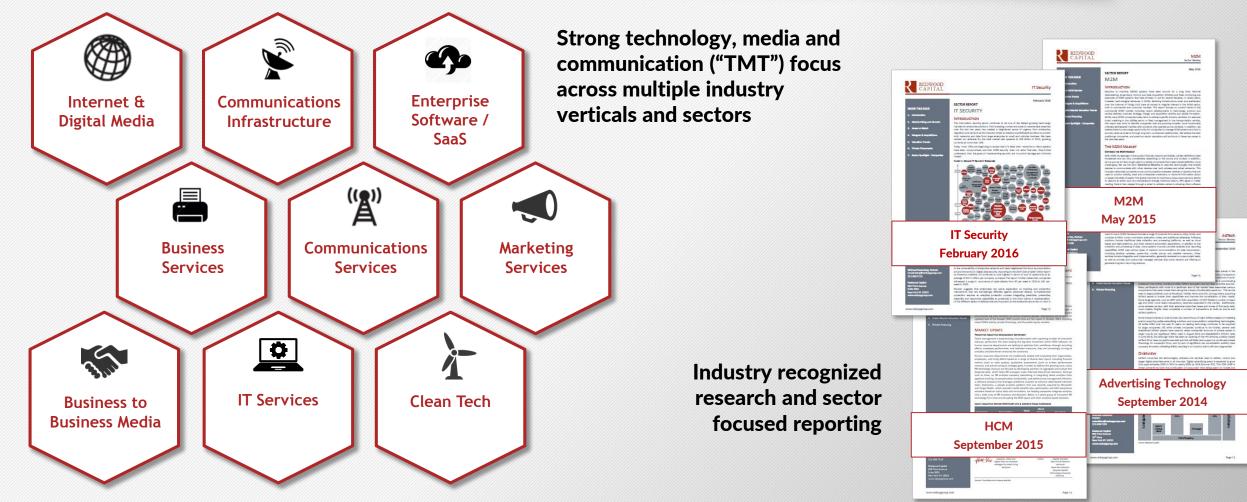
Valuation Services

- Fairness and Solvency Opinions
- Financial and Tax Reporting (IRC 409A, ASC 718, 805, 350, 360, and 820)
- Intangible Asset Valuation



Industry and Sector Focus





International Expertise

'Slam'16

Internet of Things Conference

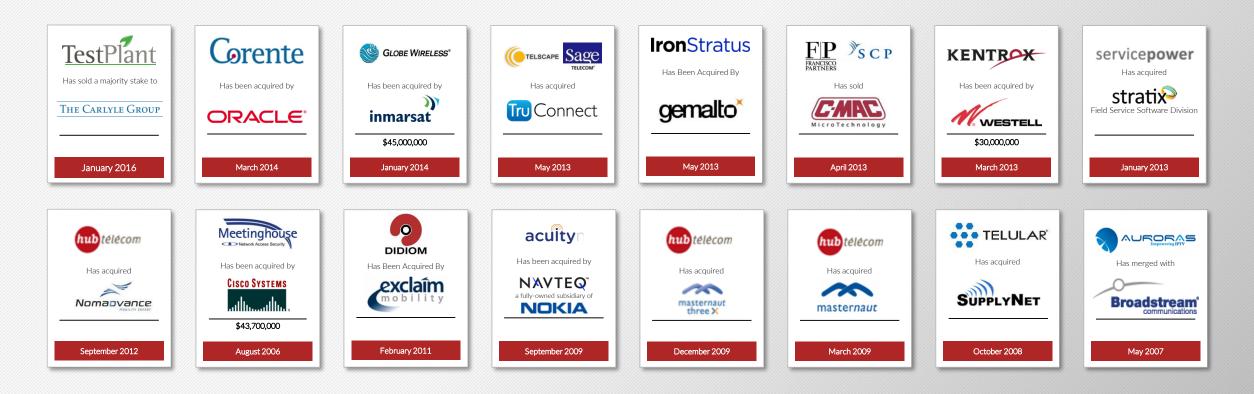




Select Transactions



Extensive Experience in IoT Technology







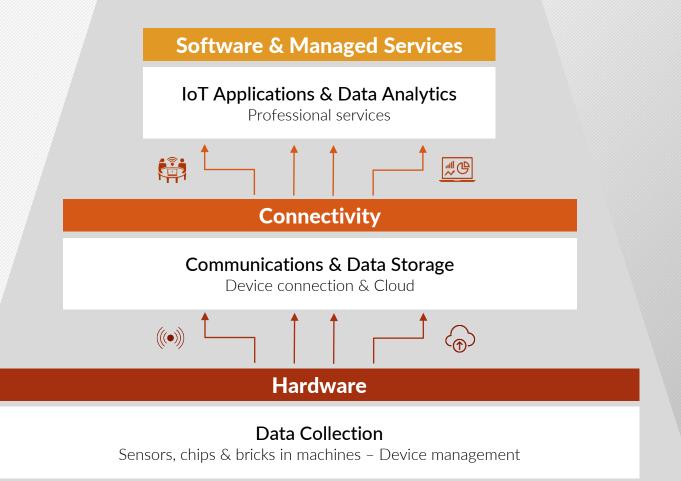
Internet of Things - Defined

K

loT

The network of physical objects with embedded technology that communicate and interact with themselves or the external environment

- IoT covers a variety of industries and applications including consumer oriented applications such as home automation, fitness etc.
- This presentation focuses on <u>Commercial</u> <u>& Industrial IoT*</u>

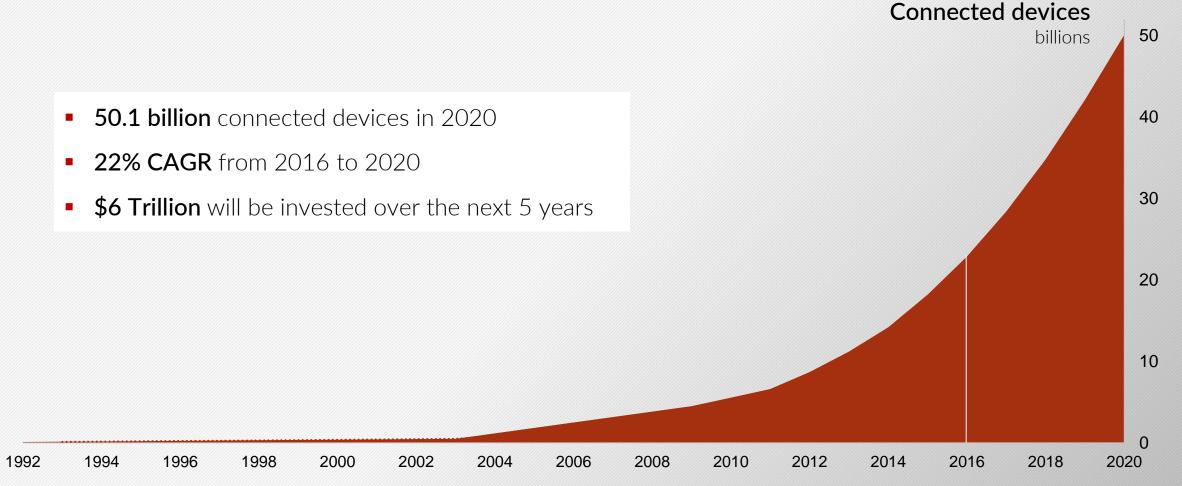


*Referred to as M2M in Redwood sector reports



IoT Market Trends

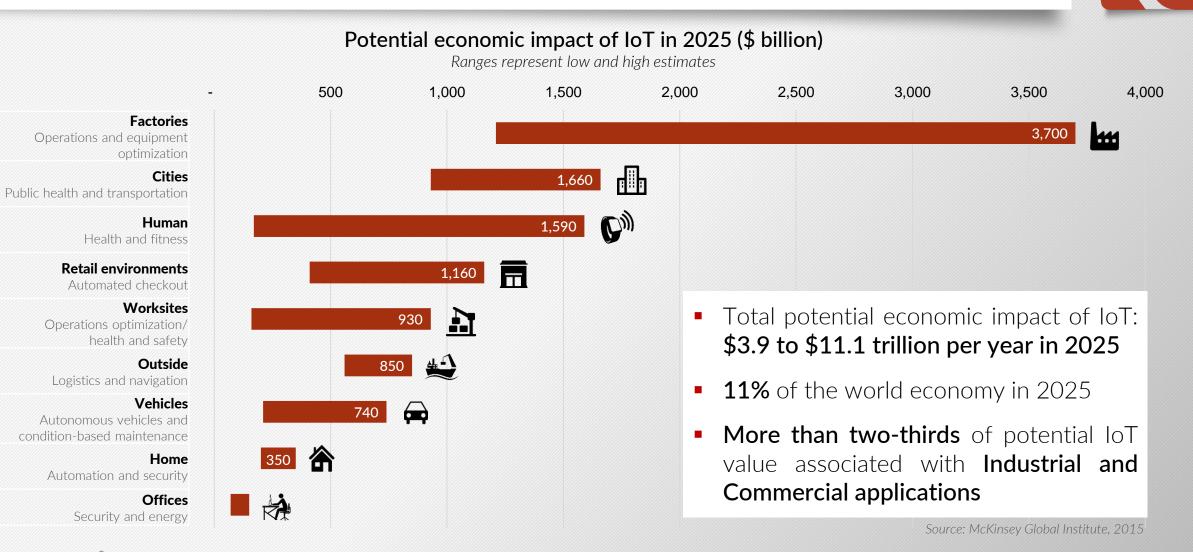




Sources: Forbes, 2015, EIT Digital, 2015, Business Insider - The IoT Ecosystem Research Report 2016



IoT Market Breakdown





M2M Market Trends

Growth Drivers



High ROI	 Measured in months / weeks vs. years Key operational benefits: real time data collection, immediate detection, preventative maintenance, optimization "By 2025, best-in-class organizations that extensively use IoT technologies in their products and operations will be 10% more profitable"¹
Higher Network Availability	 Increase in mobile network coverage Higher bandwidth availability (4/5G) More efficient short range protocols
Lower Hardware Costs	 Decrease in infrastructure costs of MEMS, sensors, storage, servers Ability to use off the shelf, standardized components
More Sophisticated Applications	 Both monitoring and controlling Trending analytics Artificial Intelligence, drones, robotics

¹ Source: Verizon IoT report



Growth Challenges



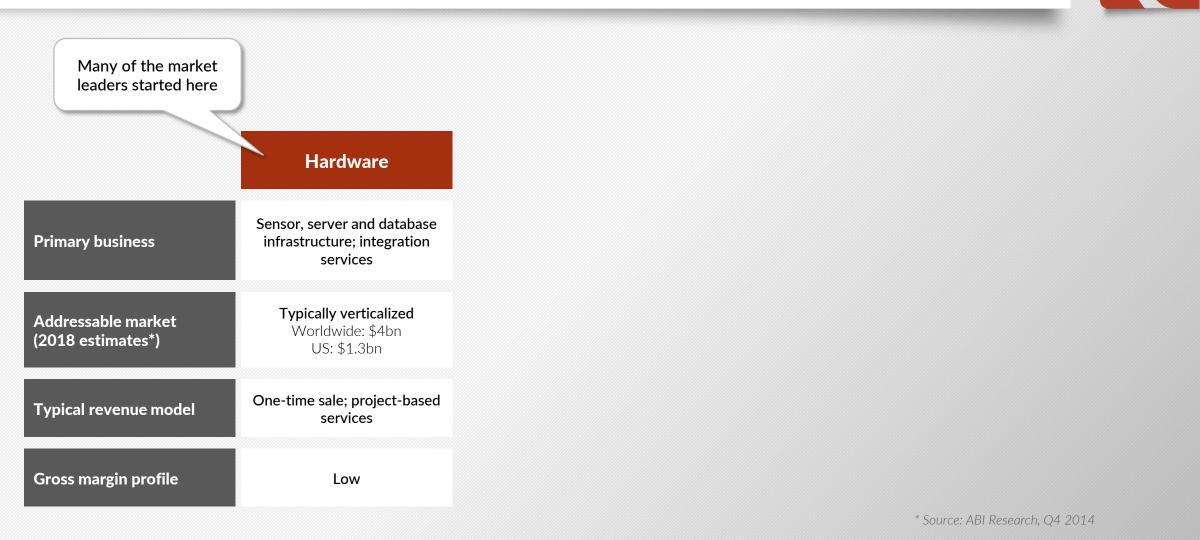
Interoperability	 Adopting open standards – uniform data transmission Standard protocols for sharing between IoT systems "Without interoperability, at least 40% of potential benefits cannot be realized"¹
Public Policy	 Some IoT applications cannot proceed without regulatory approval (ex: self-driving cars) Creation of appropriate regulatory standards in health care Agreements on fair practices for data sharing and use
Software & Hardware Technology	 Confidence in security across entire IoT ecosystem Additional capacity and bandwidth in the cloud Costs of certain sensors still need to drop more
IP, Security, Privacy & Confidentiality	 \$35 billion spent annually on network and data security but relatively little on IoT security From hacks of cars and planes to dams to nuclear plants, people have been shown how unsecure connected devices can be A common understanding of ownership rights to data is needed

¹ Source: McKinsey report, 2015

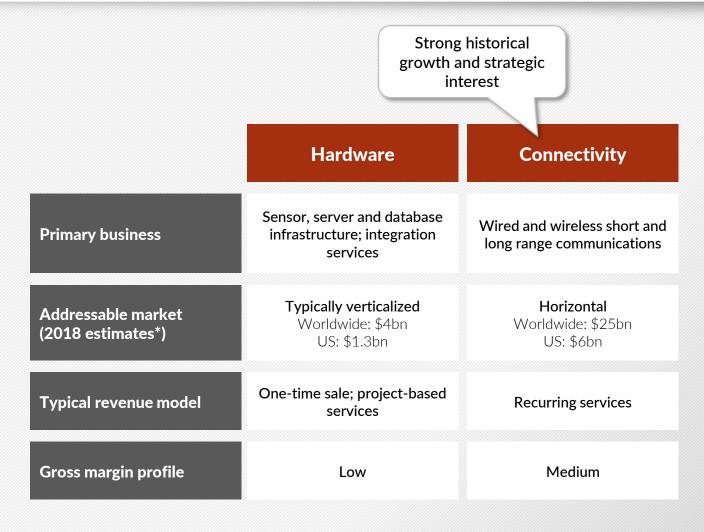


Business Strategy Overview





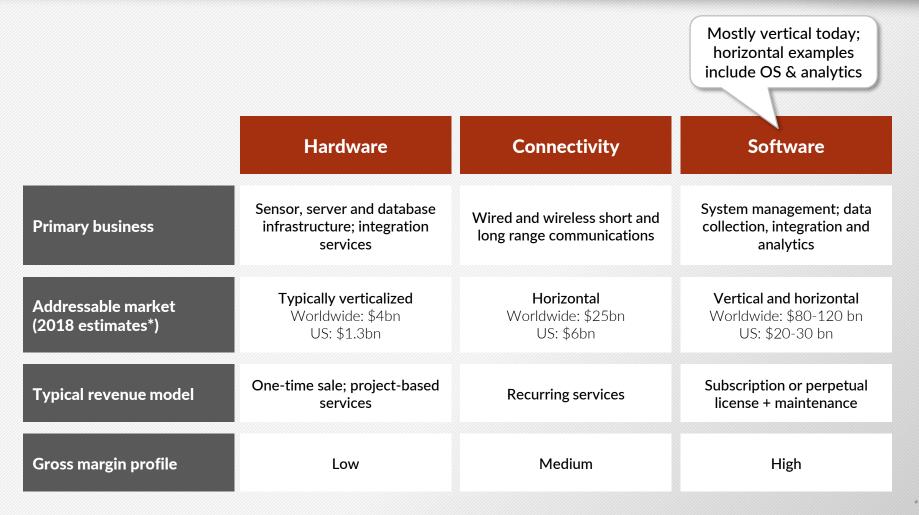




* Source: ABI Research, Q4 2014







* Source: ABI Research, Q4 2014





				Expect to see the futur
	Hardware	Connectivity	Software	Managed Services
Primary business	Sensor, server and database infrastructure; integration services	Wired and wireless short and long range communications	System management; data collection, integration and analytics	Outsourced system management and monitoring
Addressable market (2018 estimates*)	Typically verticalized Worldwide: \$4bn US: \$1.3bn	Horizontal Worldwide: \$25bn US: \$6bn	Vertical and horizontal Worldwide: \$80-120 bn US: \$20-30 bn	
Typical revenue model	One-time sale; project-based services	Recurring services	Subscription or perpetual license + maintenance	Recurring services
Gross margin profile	Low	Medium	High	Medium-High
				* Source: ABI Research, Q4 2014





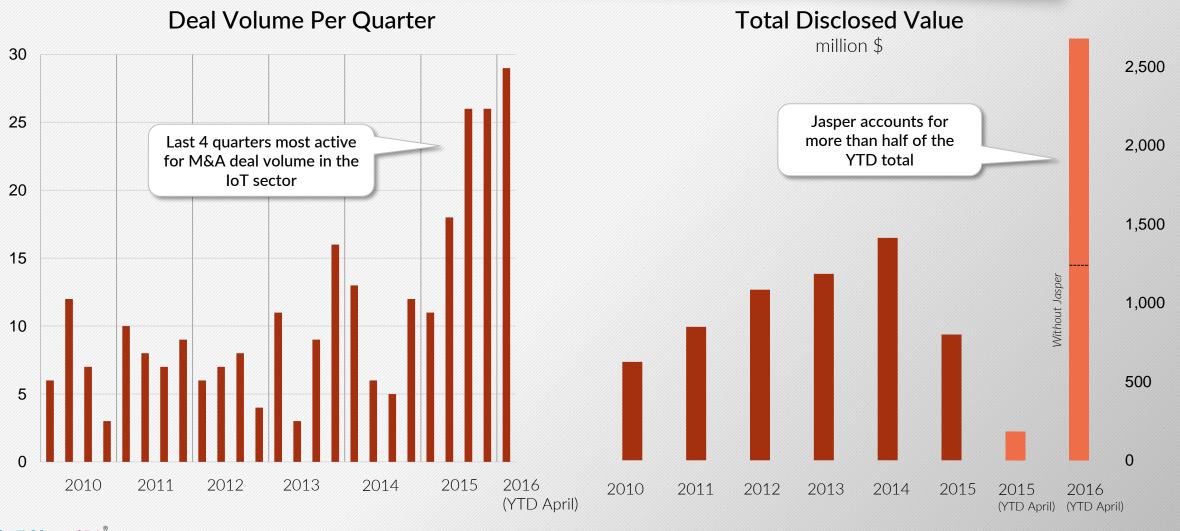
Top 10 M&A Deals (2010 to 2016 YTD)

of Things Conference



	Year	Transaction Value	Target Sector	Target	Buyer	Revenue Multiple	EBITDA Multiple
1	2016	1,400.0	Connectivity Services & Software	 €Jasper*	(1)(1)(1) CISCO	7.5x	n.a.
2	2013	788.0	Fleet Management Software Platform	Omnitracs	Vista Equity Partners	n.a.	n.a.
3	2012	713.1	Telematics Services	HUGHES. TELEMATICS, INC.	verizon	9.2x	n.a.
4	2014	546.9	Telematics Services	OCTO	RENOVA GROUP	n.a.	n.a.
5	2016	500.0	Fleet Tracking & Risk Management Solutions	lytx DriveCam	GTCR	n.a.	n.a.
6	2016	480.0	Safety & Security Sensors	🔶 xtralis.	Honeywell	n.a.	n.a.
7	2011	473.8	Fleet Tracking Solutions	TRACKER	Actis The positive power of capital	n.a.	n.a.
8	2010	313.2	Traffic Safety Sensors		The Carlyle Group	2.3x	7.8x
9	2013	252.8	Connectivity Services	TELULAR	A V I S T A	2.6x	12.3x
10	2010	198.6	Connectivity Services	CINTERION a Gemalto company	gemalto [×]	1.1x	n.a.

M&A Activity



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M&A Activity - Valuations



		Median			Mean			High	
	Deal Value	Revenue Multiple	EBITDA Multiple	Deal Value	Revenue Multiple	EBITDA Multiple	Deal Value	Revenue Multiple	EBITDA Multiple
2016 (YTD April)	101.5	1.1x	8.8x	297.8	2.7x	8.8x	1,400.0	7.5x	8.8x
2015	20.0	0.9x	10.0x	40.3	1.2x	17.6x	184.2	3.0x	64.5x
2014	23.9	1.5x	18.3x	74.4	1.7x	27.2x	546.9	3.1x	55.4x
2013	6.8	1.4x	7.2x	56.4	1.5x	8.0x	788.0	3.5x	12.3x
2012	13.5	1.0x	8.2x	98.5	2.1x	12.2x	713.1	9.2x	24.9x
2011	12.6	n.a.	n.a.	47.1	2.3x	25.8x	473.8	n.a.	n.a.
2010	13.3	n.a.	7.8x	56.8	1.6x	7.8x	313.2	2.4x	7.8x
Total	16.2	1.2x	8.8x	16.7	1.7x	8.8x	1,400.0	9.2x	64.5x



M&A Activity - Case Studies



Jasper Technologies is a cloud-based IoT platform that enables businesses to launch, manage, and monetize IoT services worldwide

- Revenue Model: Connectivity Services & Software
- Transaction Value: \$1,400 million
- TTM Revenue: \$185 million (est.)
- TTM Revenue growth: > 50% (est.)

EV/LTM Revenue: ~7.5x



Elecsys provides **custom electronic equipment**, data acquisition and management systems for **industrial applications** worldwide

- Revenue Model: Hardware & Services
- Transaction Value: \$71 million
- Revenue: \$30 million
- Gross Margin: 38 % EBITDA Margin: 13 %
- EV/LTM EBITDA: 18.3x
- Growth: ~20% per year

EV/LTM Revenue: 2.4x



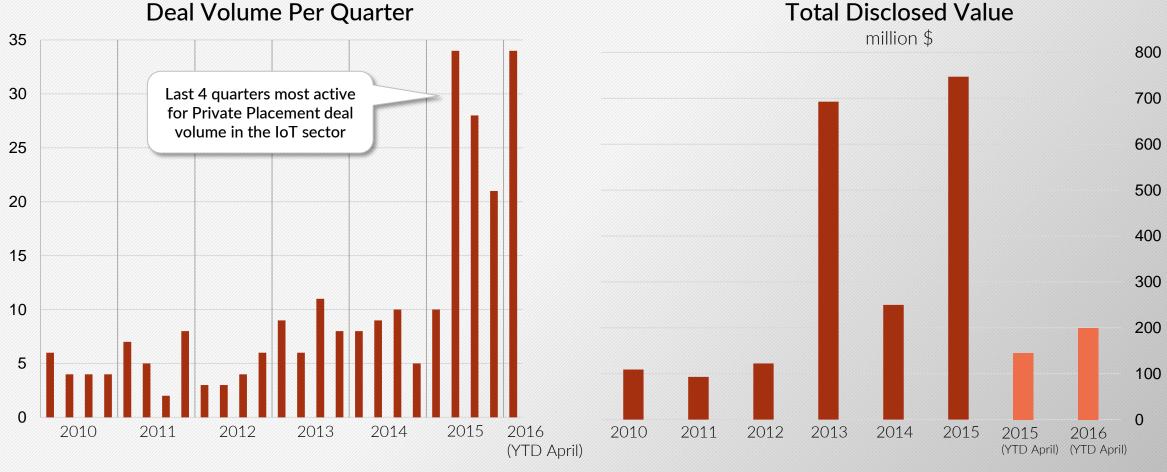
Private Placement Activity



Private Placement Activity



Private Equity invested in IoT since 2010: **\$ 2,248 million**



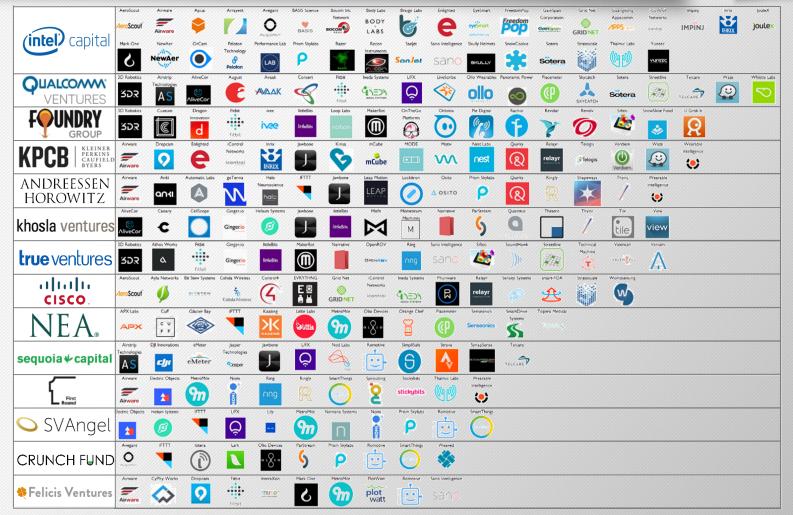
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Most Active Investors

Most Active Investors in IoT

Most Active Investors in Industrial IoT



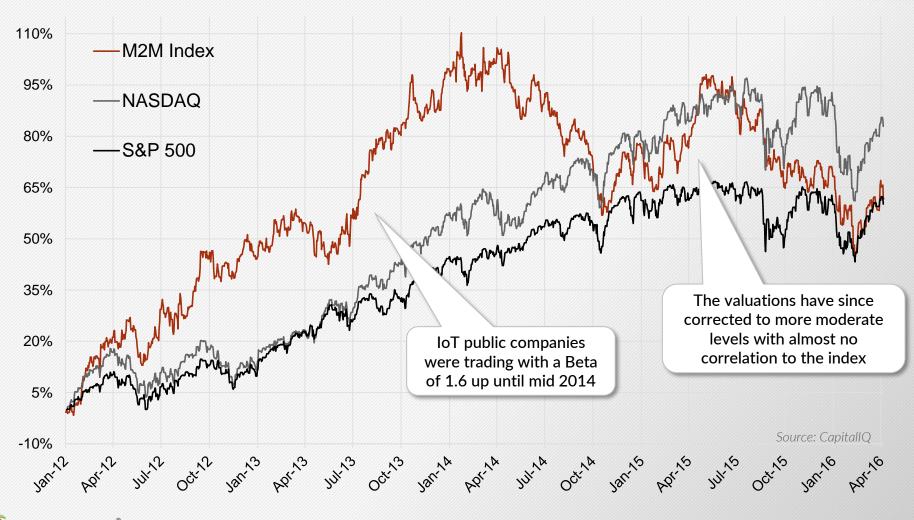


Source: CBInsights, 2015



Public Market Valuation Trends

Public Market Valuation Trends





M2M Index Constituents:

- Baylin Technologies Inc. (TSX:BYL)
- CalAmp Corp. (NasdaqGS:CAMP)
- CSE Global Limited (SGX:544)
- Digi International Inc. (NasdaqGS:DGII)
- ESCO Technologies Inc. (NYSE:ESE)
- Feelingk Co. Ltd. (KOSDAQ:A064800)
- Gemalto NV (ENXTAM:GTO)
- HMS Networks AB (publ) (OM:HMS)
- Inmarsat Plc (LSE:ISAT)
- Lantronix, Inc. (NasdaqCM:LTRX)
- M2M Group S.A. (CBSE:M2M)
- Novatel Wireless Inc. (NasdaqGS:MIFI)
- Numerex Corp. (NasdaqGS:NMRX)
- Option NV (ENXTBR:OPTI)
- ORBCOMM, Inc. (NasdaqGS:ORBC)
- Pointer Telocation Ltd. (NasdaqCM:PNTR)
- RigNet, Inc. (NasdaqGS:RNET)
- Sierra Monitor Corp. (OTCPK:SRMC)
- Sierra Wireless Inc. (TSX:SW)
- System and Application Technologies Co., Ltd. (KOSDAQ:A060540)
- Telit Communications PLC (AIM:TCM)
- u-blox Holding AG (SWX:UBXN)
- USA Technologies Inc. (NasdaqGM:USAT)
- Vianet Group plc (AIM:VNET)
- VOXX International Corp. (NasdaqGS:VOXX)
- Westell Technologies, Inc. (NasdaqGS:WSTL)
- Ituran Location and Control Ltd

Public Market Valuation Analysis

	P&L Summary – 2015 – Average values			Valuation Me	Valuation Metrics (Average)	
	Revenue Growth	Gross Margin	EBITDA Margin	Revenue Multiple	EBITDA Multiple	
Hardware	11.8%	36.4%	3.9%	1.0x	8.9x	
Hardware & Services	3.5%	41.6%	11.0%	2.2x	15.3x	Services
Connectivity Services	29.5%	42.3%	22.7%	5.0x	49.6x	highest
Systems Integration Services	-5.6%	51.7%	24.9%	0.9x	4.5x	
Total	6.7%	44.7%	17.5%	2.0x	16.5x	





Thank You!



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