IOT e Digital Transformation: siamo pronti? Bari, 14 febbraio 2018



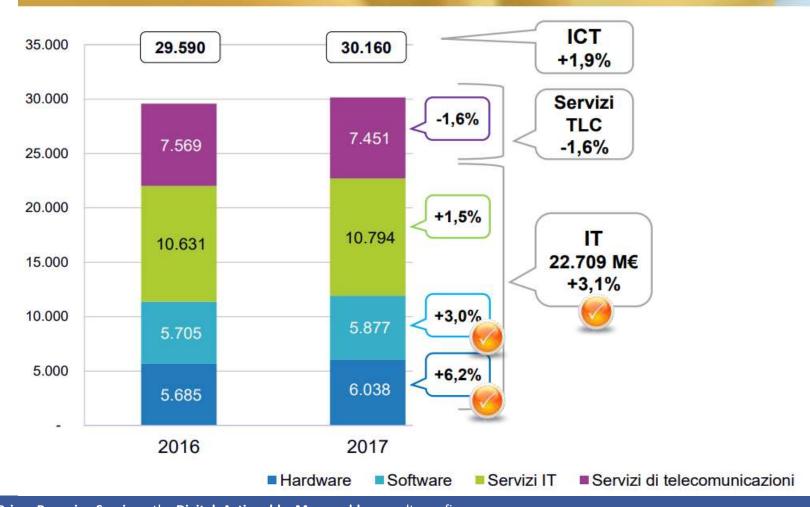




IT 2017 in Italia: +3.1%

Mercato ICT In Italia, M€



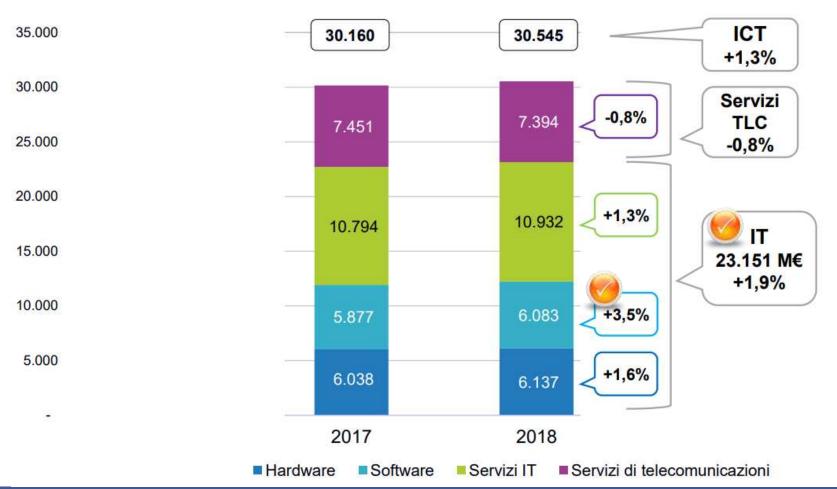




<u> IT 2018 in Italia: +1.9%</u>

Mercato ICT In Italia, M€







IT 2016-2020 in Italia: +2.1%

Mercato ICT In Italia, M€



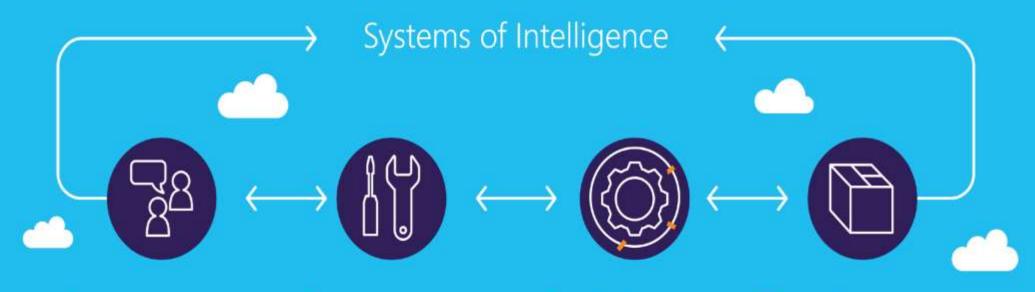






Digital Transformation

Digital Transformation



Empower your employees

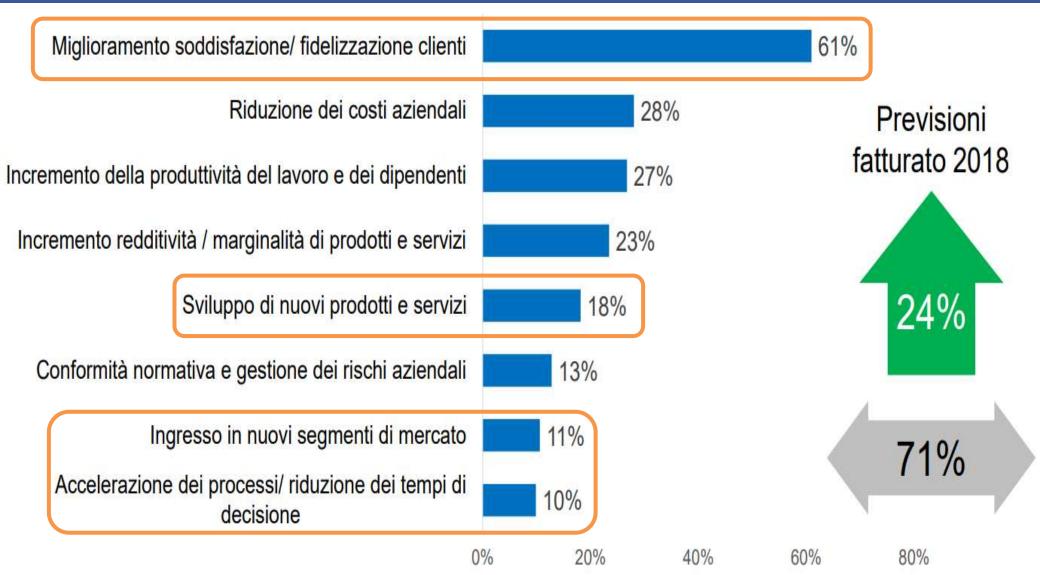
Engage your customers

Optimize your operations

Transform your product



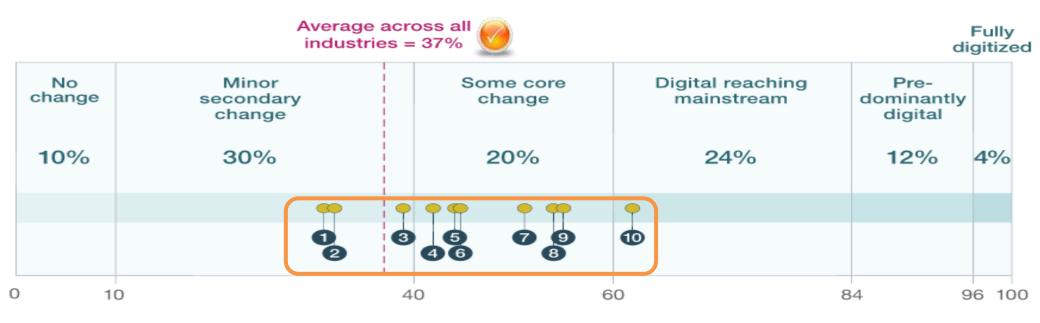
2018 è l'anno della trasformazione digitale: le priorità di business (IDC Assintel Report)





Trasformazione Digitale? Siamo al 37% del percorso (McKinsey)

Perception of digital penetration by industry,1 % of respondents



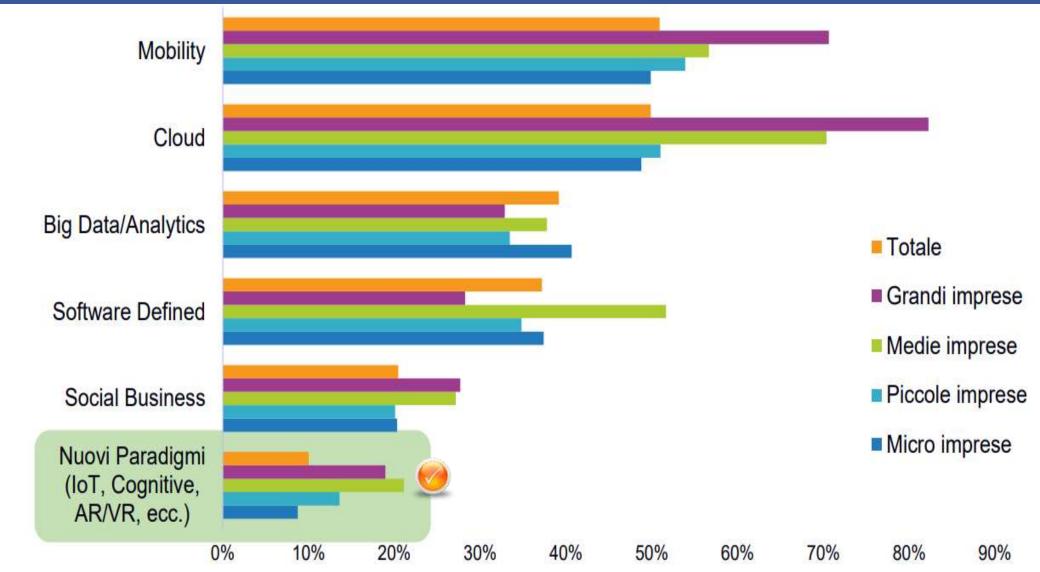
Selected industries²

- Consumer packaged goods (31%)
- 2 Automotive and assembly (32%)
- 3 Financial services (39%)
- Professional services (42%)
- 5 Telecom (44%)

- 6 Travel, transport, and logistics (44%)
- Healthcare systems and services (51%)
- 8 High tech (54%)
- 9 Retail (55%)
- Media and entertainment (62%)



Nuovi «paradigmi tecnologici» accelerano la Trasformazione Digitale (IDC Assintel Report)



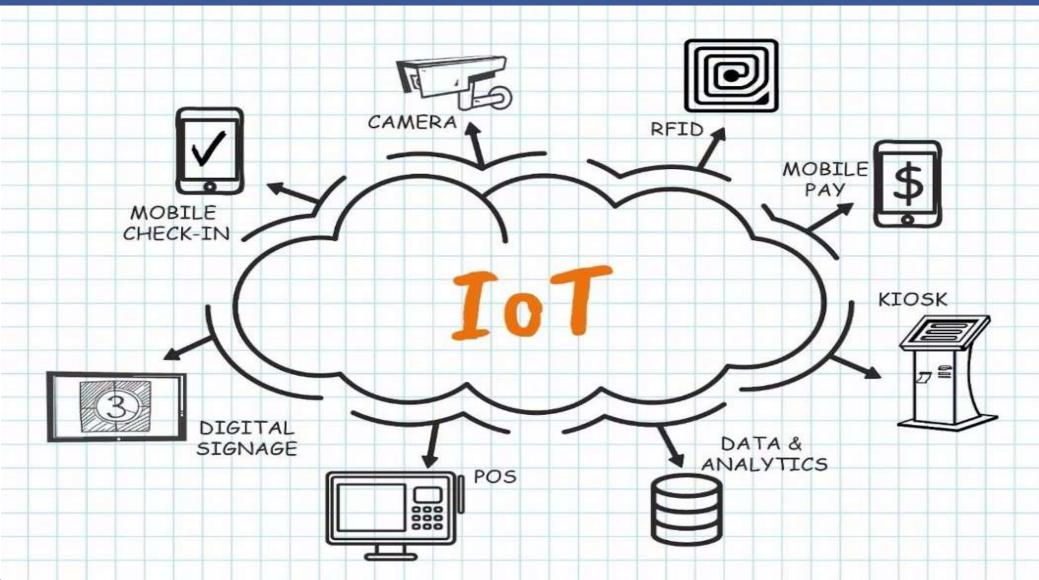


La Trasformazione Digitale cresce a doppia cifra: i driver della crescita (IOT e non solo)

		Cognitive 2017 +20,5%	Cognitive 2018 +25,6%	Big Data & Analytics 2017 +20,9%	Big Data & Analytics 2018 +26,4%
loT 2017	IoT 2018		AR/VR 2017	AR/VR 2018	
+16,4%	+15,1%		+335,6%	+86,4%	
Wearable 2017	Wearable 2018	Cloud 2017	Cloud 2018		
+155,7%	+84,8%	+27,8%	+25,8%	Fonte: elaborazioni IDC per i	5 Assintel Report 2018



Parliamo di IOT: connettere dispositivi fisici al mondo digitale per acquisire nuovi livelli di «interazione»





Perché IOT è importante? (IDC)

The analysts at IDC believe the Internet of Things (IoT) will encompass nearly

30 billion connected devices by 2020¹



All those devices will create an unprecedented amount of data—data that needs to be:











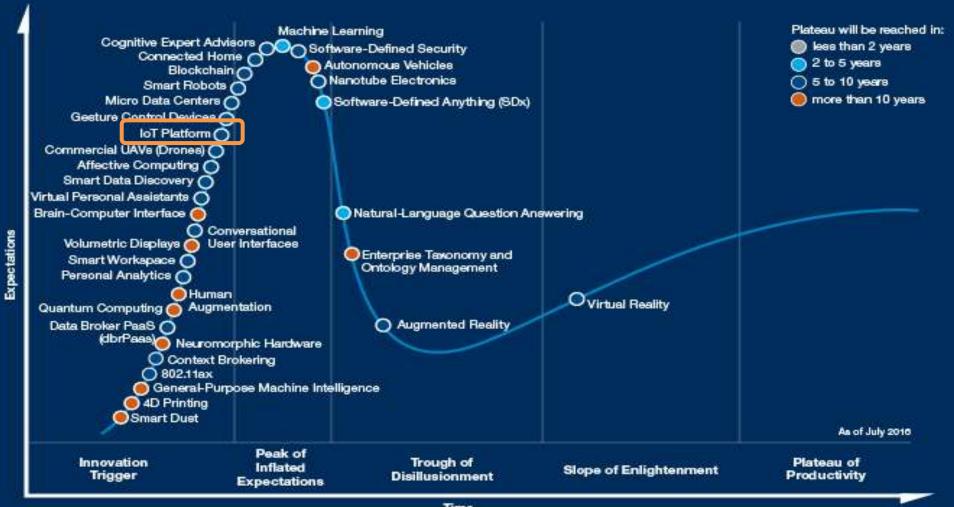


TRANSMITTED STORED



IOT: dove eravamo (2016-2017)

Gartner Hype Cycle for Emerging Technologies, 2016



IOT: dove siamo (2017-2018)

Gartner Hype Cycle for Emerging Technologies, 2017



I trend più importanti (2018 e oltre)

Three Trends

Al Everywhere

Deep Learning
Deep Reinforcement Learning
Artificial General Intelligence
Autonomous Vehicles
Cognitive Computing
Commercial UAVs (Drones)

Conversational User Interfaces Enterprise Taxonomy Ontology Management Machine Learning Smart Dust Smart Robots Smart Workspace



Transparently Immersive Experiences

4D Printing
Augmented Reality
Brain-Computer
Interface
Connected Home

Human Augmentation Nanotube Electronics Virtual Reality Volumetric Displays



5G Digital Twin Edge Computing Blockchain IoT Platform Neuromorphic Hardware Quantum Computing Serverless PaaS Software-Defined Security



gartner.com/SmarterWithGartner

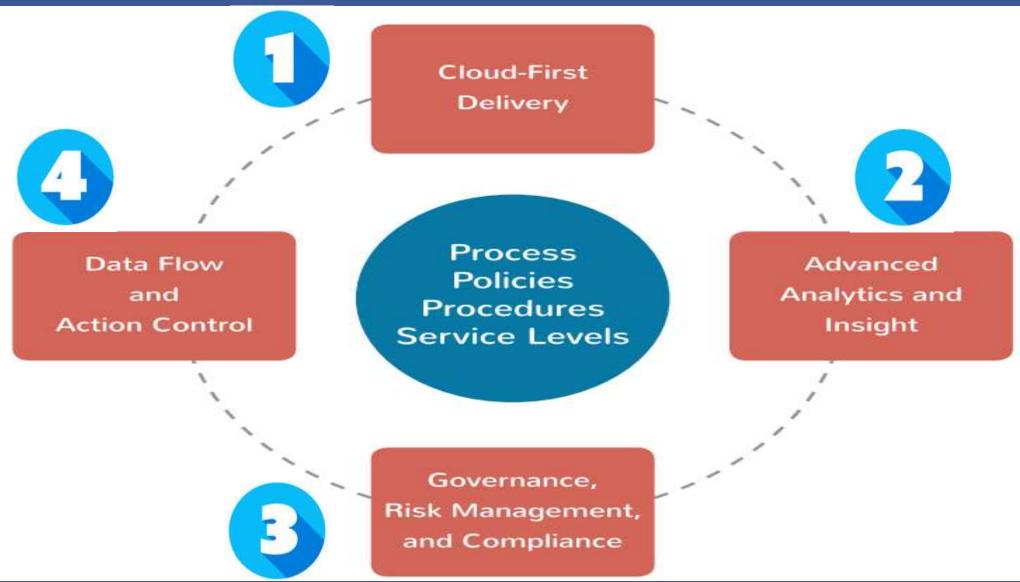


«IOT 2020: the readiness indicator»

- Ricerca su medie e grandi 600 aziende (500+ dipendenti)
- Hanno piani e strategie IOT
- Sono stati analizzati i loro comportamenti «Digital» e quindi suddivise in 4 categorie per IOT:
 - Amateurs («non pronti»)
 - 2. Rookies («poco pronti»)
 - 3. Pros («sostanzialmente pronti»)
 - 4. All-Stars («pronti»)



Le aree di attenzione





1. Cloud First (non c'è IOT senza Cloud ...)

Cloud-first Delivery Model

The first indicator of IoT IT infrastructure readiness is the use of cloud-first development and deployment models and the ability to utilize dispersed assets and services. These include on- or off-premises cloud infrastructure and (to the extent they are allowed by industry regulations) public cloud services.

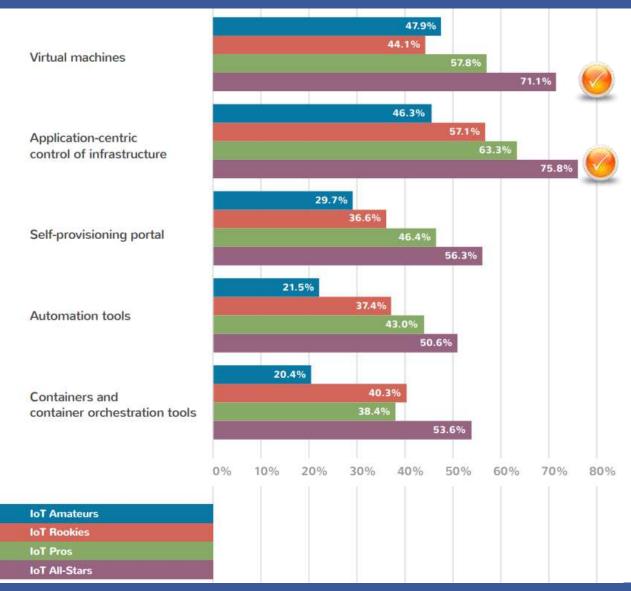




Cos'è una «Cloud First Strategy»?



Le componenti di un modello «Cloud First»





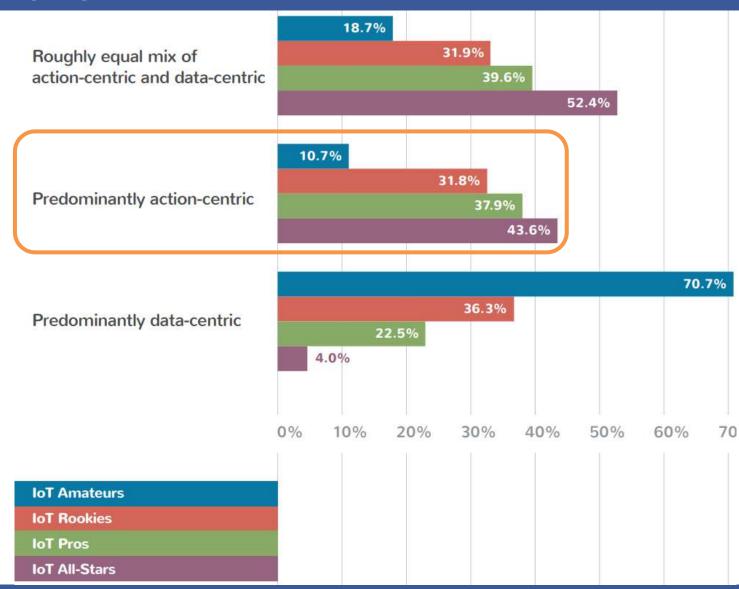
2. Il ruolo dell'infrastruttura IOT

Data Flow and Action Control (Data vs. Action-centric IoT)

IoT requires use of a distributed data flow and control paradigms for compute and storage infrastructure, a strategy allowing the IoT infrastructure to span from massive datacenters at the core to micro-datacenters and intelligent devices in critical edge locations. This infrastructure is tied together (or controlled) by networks that may often lack reliable or economical connectivity, depending on the location and nature of the endpoints.



L'approccio all'IOT



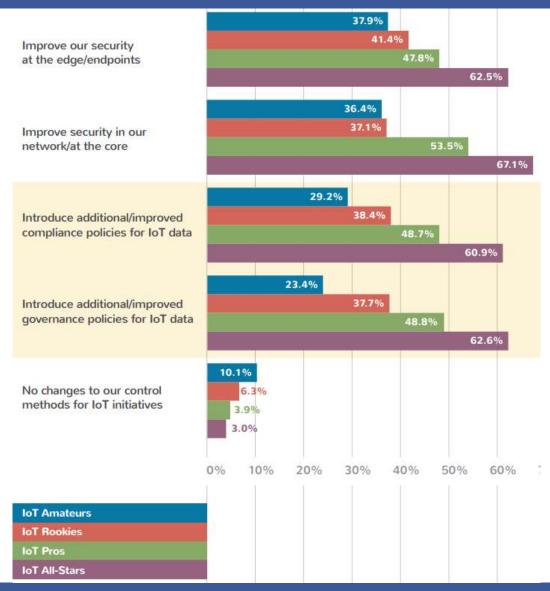
La «Governance»



Data-related governance, risk management, and compliance is another area in which high IoT IT readiness firms stand out from others.



L'importanza della «Governance»



Big Data & Analytics

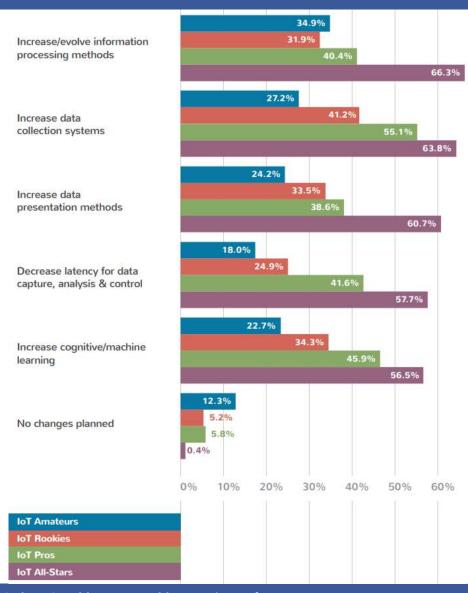


Advanced Analytics and Insight

Maximizing the business value of IoT requires organizations to analyze and gain insight from large data sets and have the future vision to reduce the complexity while accelerating prescriptive action from analyses. These efforts must be consistent and compatible with edge analytics.



Come migliorare la «Governance» dei Big Data



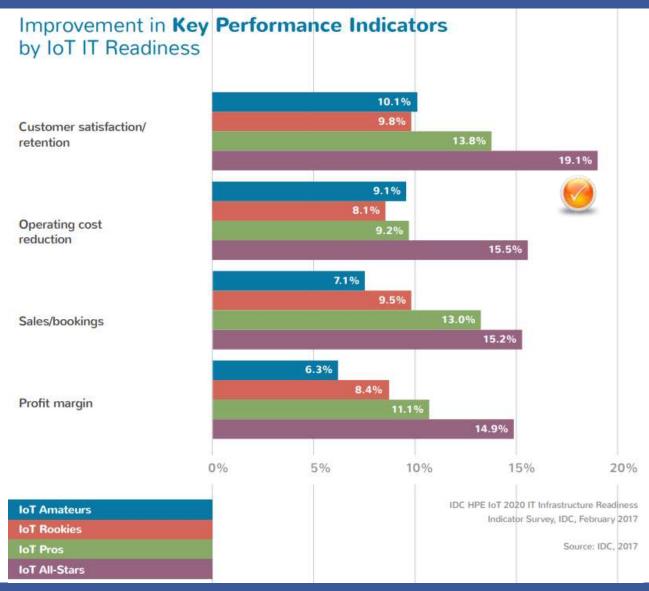


E l'impatto sul business?

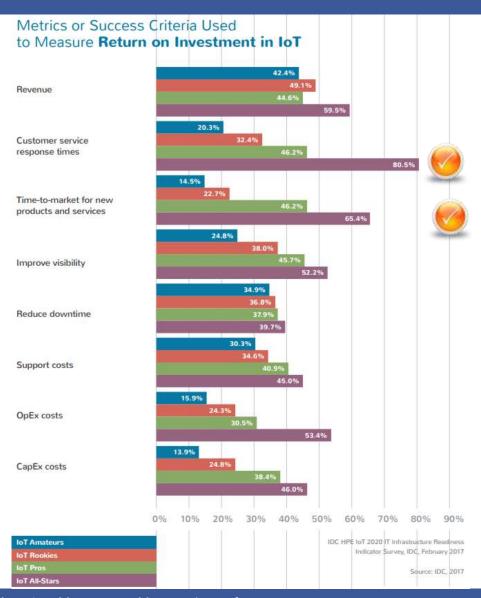




Gli All-Star vincono facile



Gli All-Star vincono facile, #2



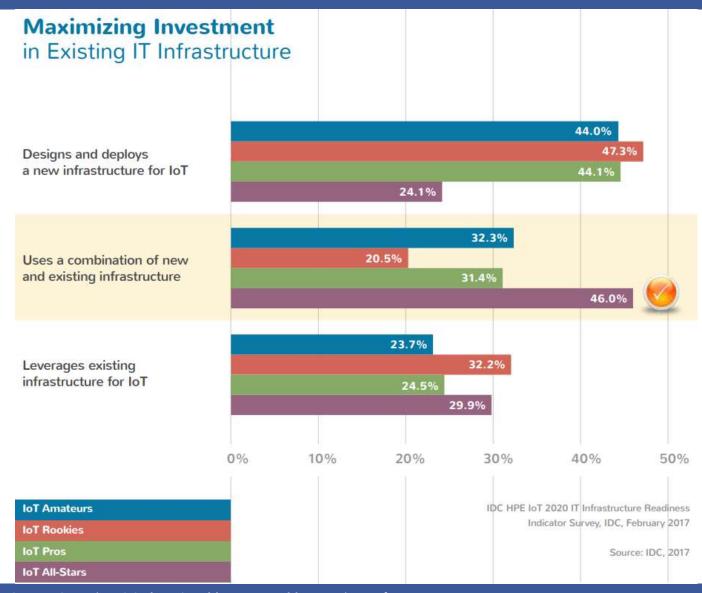


Ok, ma quanto costa?

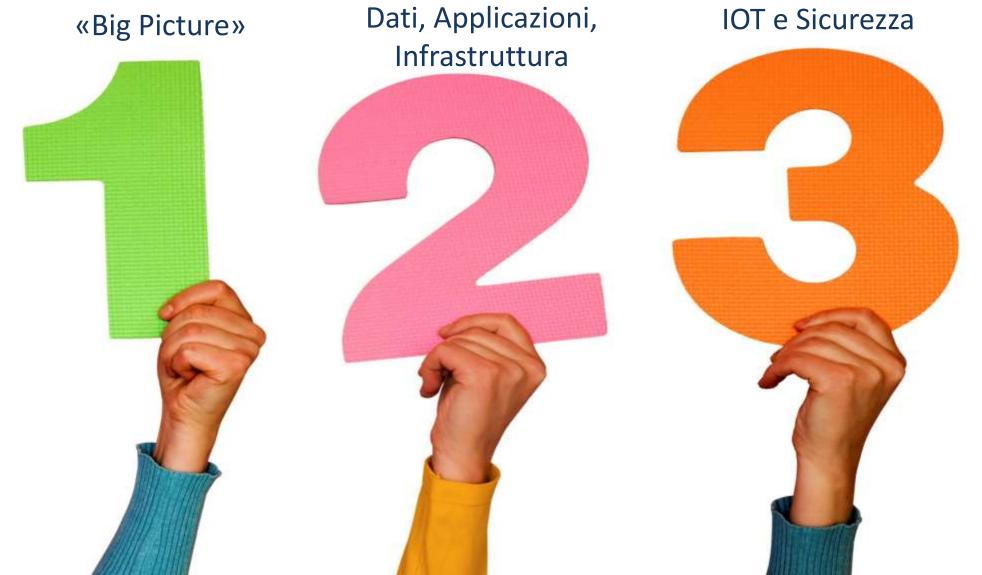




«Meno di quanto pensiate»



In concreto, come fare? 3 linee guida



1. «Commit to the Big Picture»



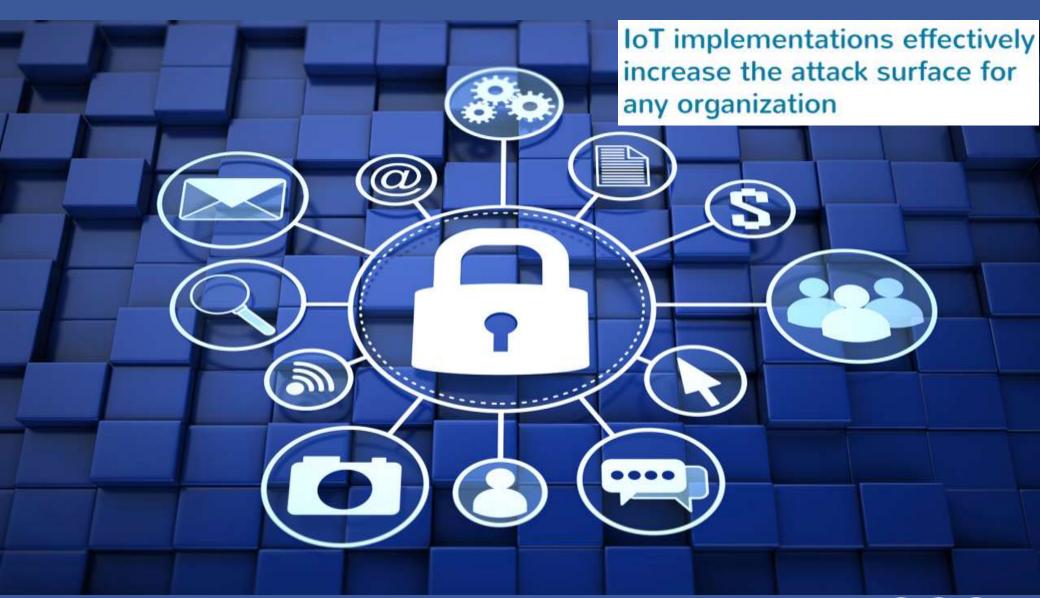
2. Dati, Applicazioni, Infrastruttura IT



 Verso un'infrastruttura software-defined, (hybrid) cloud-based, con intelligenza distribuita



3. IOT e Sicurezza



Cosa intendi per «sicurezza IOT»? Ad esempio che FDA ha approvato la prima «Pillola Digitale» (novembre 2017)

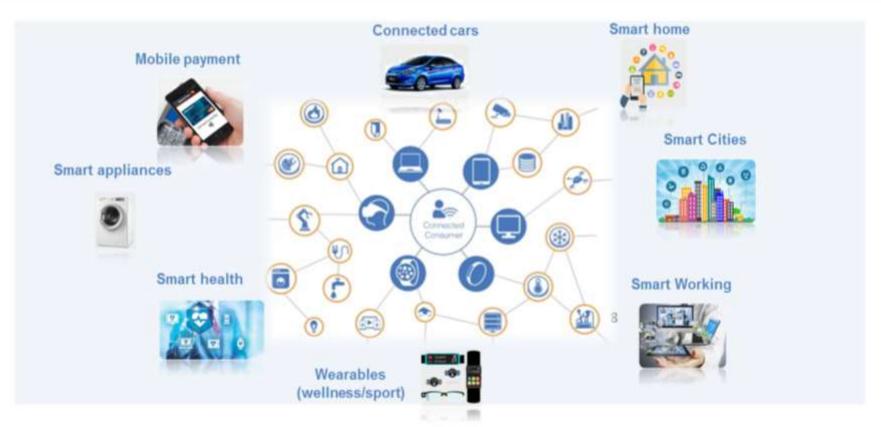


Quale IOT Go-To-Market?



Dal Cliente Digitale al Cliente Connesso

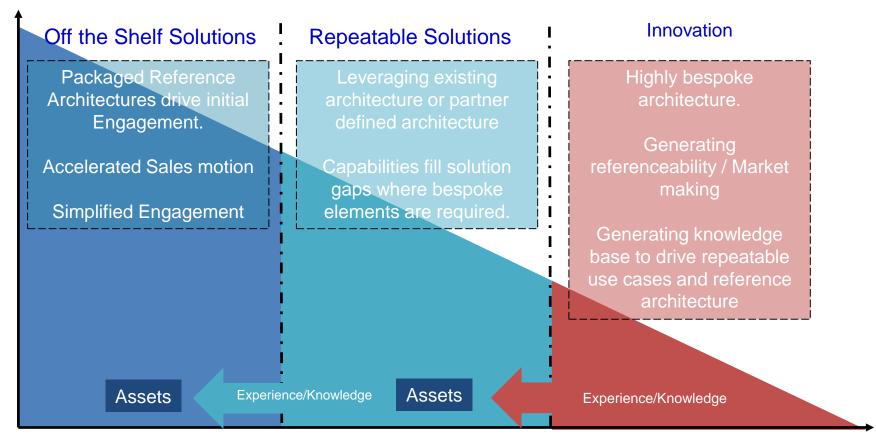
La convergenza di Cloud, Mobile, Social, IoT dà forma al nuovo paradigma del Connected Customer, che pone nuove sfide e permette nuove opportunità alle aziende su Ingaggio e Retention







IOT: quale Go-to-Market Strategy? (fonte: Tech Data)



Volume of Deals

IOT porta con se 5 principali **opportunità di business per i VAR**

- 1. Cloud, Data Center Automation
 - 2. Converged Infrastructure
 - 3. Big Data & Analytics

4. Mobility



Nuove professioni emergono: *l'IOT Architect* (Gartner)

The IoT architect has five main responsibilities:

1 Spearhead development of the IoT vision and technical strategy

The IoT architect must work with key business and IT leaders to develop an IoT vision that sets objectives for the business to shoot for and to communicate that vision to key stakeholders. Part of this involves documenting the business's critical success factors, and part of it entails using the business value to drive engagement. An effective IoT vision is not merely aspirational; it's rational and deliberate.

2 Design an end-to-end IoT architecture

The IoT architect must identify and document the IoT target state for the organization and ensure that the target architecture will address current and future business requirements. An end-to-end IoT solution typically spans a wide variety of technology areas ranging from data collection sensors, equipment or appliances at the edge all the way to integration with enterprise applications and systems. "Because an IoT solution has so many integrated components, creating a target IoT architecture is particularly important — especially if the organization is likely to create and deploy multiple solutions over time," Heidt says.

3 Enable the design and construction of IoT solutions

The IoT architect collaborates with and enables solution architects in their design and implementation of IoT solutions. The target architecture is a valuable asset, but not the only one the IoT architect has to contribute. IoT architects bring lessons learned and design experience from across the portfolio of implementations in which they have participated.

Create a process to build IoT solutions

Developing and standardizing the process for building IoT solutions and then guiding the evolution and improvement of that process is key. This will help make the organization's creation of IoT solutions easier and more reliable because these initiatives will follow a process that incorporates the organization's experience and accrued best practices in IoT solution development.

5 Collaborate with diverse enterprise groups to deliver value

IoT unites business activities in the physical world with back-end processes while increasing the involvement of IT and non-IT groups, such as business units and operational technology (OT) teams. The IoT architect needs to engage effectively with teams across the organization to develop clear business objectives for IoT solutions and to ensure they integrate well with existing operations.



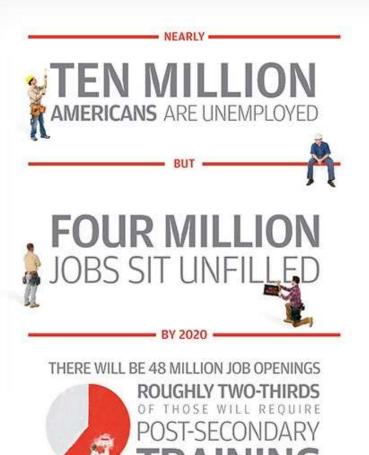


Il problema dello Skill Gap

THE PROBLEM

THE SOLUTION

STEP 1





JPMorgan Chase & Co. launched New Skills at Work

In 2013 •

A FIVE-YEAR \$250 MILLION commitment



STEP 3 .

TARGET TO FILL
TRAINING THOSE
PROGRAMS GAPS



Grazie e vi aspetto su LinkedIn e su www.primobonacina.com/iot



CATEGORY: IOT



[Gartner] Hype Cycle for Emerging Technologies, 2017

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Primo Bonacina

Managing Partner, PBS - Primo Bonacina Services

Phone: +39 334 6381071 primo.bonacina@primobonacina.com Skype: primo.bonacina www.primobonacina.com

Primo Bonacina Services di Primo Ernesto Bonacina Via Canneto, 10 - 25049 Iseo (BS) Italy - VAT id: IT04001550161

