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CIO Trend
Report 2017

Info-Tech Research Group, Inc. is a global leader in providing IT research and advice. Info-Tech's products and services combine actionable insight and relevant advice with ready-to-use tools and templates that cover the full spectrum of IT concerns.

Introduction

The business has taken over technology adoption decisions. This is the result of IT's difficulty in adopting the last set of mega-trends known as the "SMAC-stack" – Social, Mobile, Analytics, and the Cloud.

Without a keen awareness of how trends impact the business, the IT department will always be relegated to the confines of the server room. The problem is that the next latest and greatest technology is always on the horizon. But just as one seems like it's about to rise, it fizzles and another "hot" trend emerges.

Trend reports can provide an academic outlook of what is happening in the technology landscape, but not much else. CIOs need a framework to develop concrete insight into what the future is likely to bring, and how to act upon it.
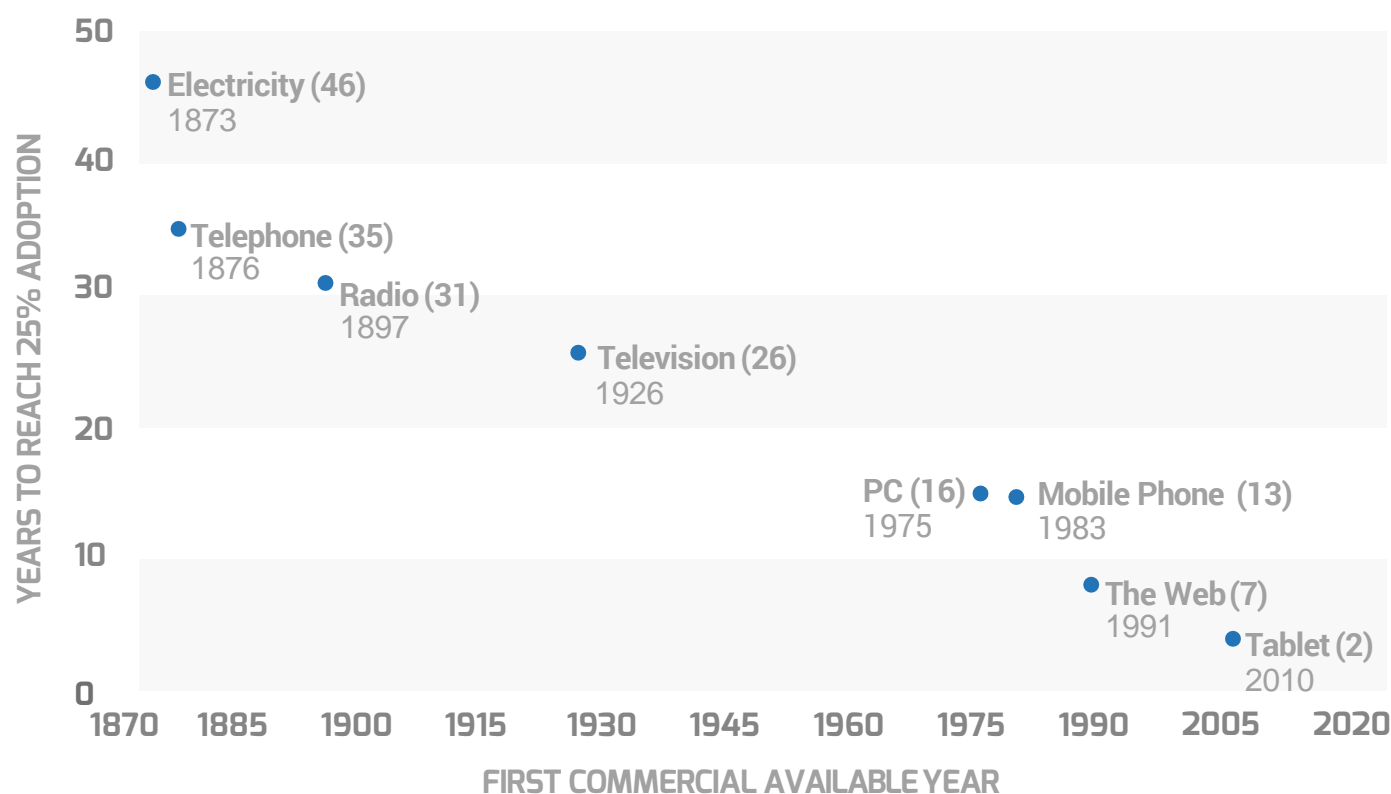
EXECUTIVE
BRIEF

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The speed of technology adoption has been **steadily increasing**, and will continue to do so.

Time (Years) Required for Technology Adoption by 25 Percent of the US Population

YEARS TO REACH 25% ADOPTION

- Electricity (46) 1873
- Telephone (35) 1876
- Radio (31) 1897
- Television (26) 1926
- PC (16) 1975
- Mobile Phone (13) 1983
- The Web (7) 1991
- Tablet (2) 2010

FIRST COMMERCIAL AVAILABLE YEAR

86%

of business executives anticipate that **the pace of technology change will continue to increase** at an unprecedented rate in their industry **over the next three years.**

The SMAC stack is the new foundation

Social, Mobile, Analytics, and Cloud are now mainstream technologies

191 million social media users in the United States in 2017

Sources: Statista & eMarketer, 2016

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4.61 billion mobile phone users worldwide

Sources: Statista & eMarketer, 2016

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The Global Business Analytics market to grow from
$40.8 billion (USD) in 2014 to
$66.7 billion in 2019

Sources: Statista & eMarketer, 2016

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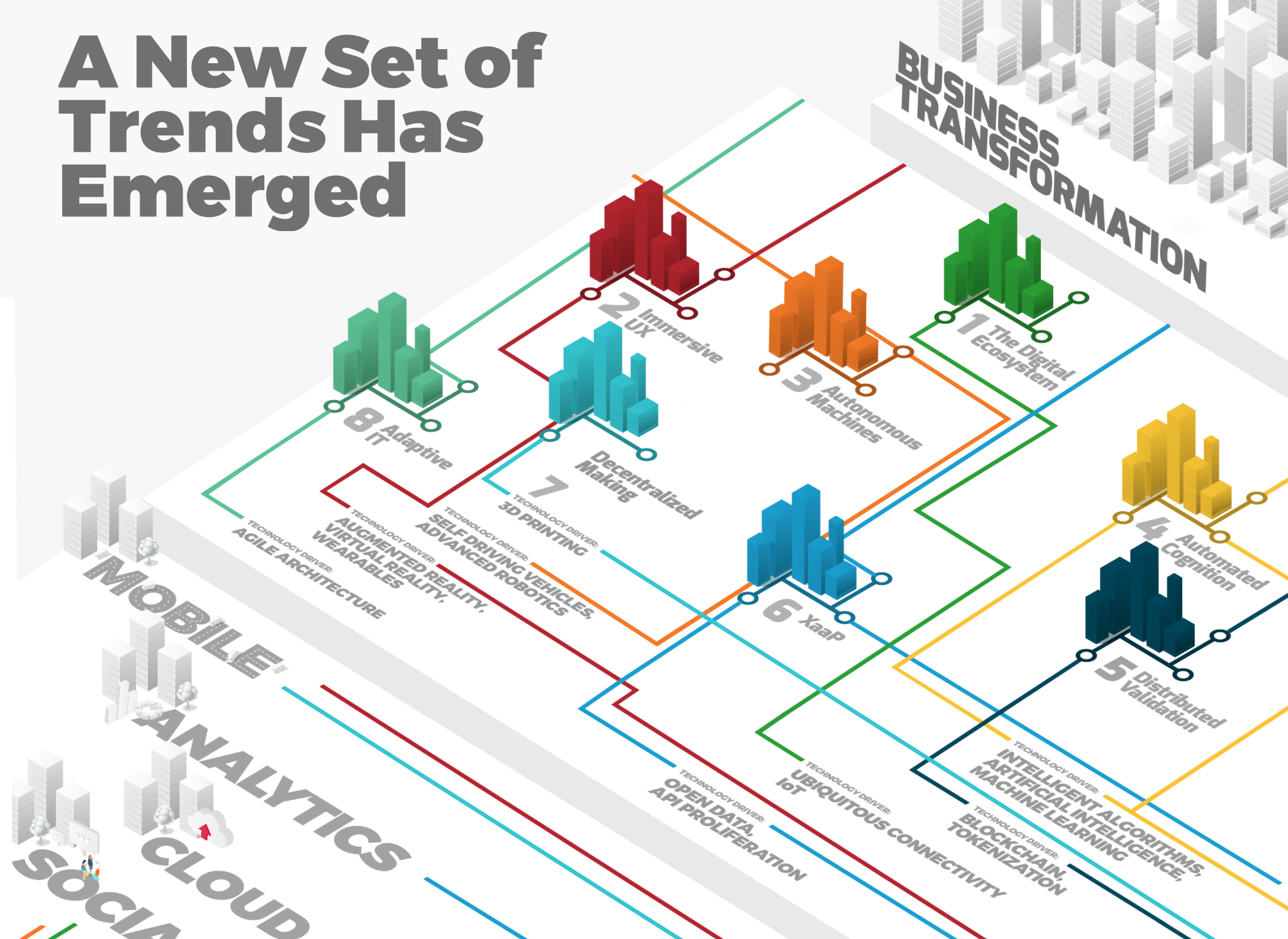
The SMAC stack is the new foundation

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$138 billion (USD) in revenue will be generated worldwide in the public cloud market by 2017

Sources: Statista & eMarketer, 2016

A New Set of Trends Has Emerged

BUSINESS TRANSFORMATION

1 The Digital Ecosystem

2 Immersive UX

3 Autonomous Machines

4 Automated Cognition

5 Distributed Validation

6 XaaP

7 Decentralized Making

8 Adaptive IT

MOBILE, ANALYTICS, CLOUD, SOCIAL

TECHNOLOGY DRIVER:
AGILE ARCHITECTURE

TECHNOLOGY DRIVER:
AUGMENTED REALITY, VIRTUAL REALITY, WEARABLES

TECHNOLOGY DRIVER:
SELF-DRIVING VEHICLES, ADVANCED ROBOTICS

TECHNOLOGY DRIVER:
3D PRINTING

TECHNOLOGY DRIVER:
OPEN DATA, API PROLIFERATION

TECHNOLOGY DRIVER:
UBIQUITOUS CONNECTIVITY, IoT

TECHNOLOGY DRIVER:
INTELLIGENT ALGORITHMS, ARTIFICIAL INTELLIGENCE, MACHINE LEARNING

TECHNOLOGY DRIVER:
BLOCKCHAIN, TOKENIZATION

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TREND SUMMARIES

01 THE DIGITAL ECOSYSTEM

New service bundles, cost reduction strategies, ways for users to self-manage, and opportunities for collaboration are on the horizon as a result of the insight gleaned from the ability not just to understand what we are doing, but how we are doing it.

02 IMMERSIVE UX

The external environment, through devices, can now be re-rendered and fitted with an overlay of information that technology users can observe and interact with. This environment can also be totally immersive, where users no longer view what is external, and their reality becomes virtual.

03 AUTONOMOUS MACHINES

Machines represent the opportunity for humankind to eventually stop having to do any activities deemed to be undesirable on the basis of physical difficulty, repetition, monotony, and danger. Augmenting the human physical capability can lead to immense benefit in terms of increased productivity and locomotion.

04 AUTOMATED COGNITION

The business is demanding real-time responses to increasing amounts of data; this is where the need for an extension of the human mind comes from. Outsourcing analysis and interpretation of information to a machine is the response to the human mind's finite ability to process and react to data in an expedient manner.

Trend Report

EXECUTIVE

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TREND **SUMMARIES**

05 DISTRIBUTED VALIDATION

From the trend toward peer reviewing goods and services online to the social sourcing of news media and information, there is a growing comfort with and appetite for leveraging the collective crowd to help make individual decisions. This could replace our current system for processing transactions, moving assets, and any and all other cases where an institution is an intermediary.

06 XaaP (EVERYTHING AS A PLATFORM)

When an organization decides to engage with its competitive environment as a platform, it has made a decision to be humble. The decision to become a platform is essentially an acknowledgement that not only might you not know how to solve all your most pressing problems, but you also might not even know what your problems are.

07 DECENTRALIZED MAKING

Conventional construction and creation is being challenged. The world of complex logistics, centralized manufacturing and the waste it creates coupled with the desire for more flexibility have given rise to a new trend toward decentralized making.

08 ADAPTIVE IT

Business needs have become very diverse and groups are consuming technology in different patterns. As such, an adaptive IT operating model must support and enable multiple groups of technology service consumers, while continuously pivoting to meet changing business conditions and needs.

Info-Tech Research Group Helps IT Professionals To:

✓ Quickly get up to speed with new technologies

✓ Make the right technology purchasing decisions – fast

✓ Deliver critical IT projects, on time and within budget

✓ Manage business expectations

✓ Justify IT spending and prove the value of IT

✓ Train IT staff and effectively manage an IT department

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"Info-Tech helps me to be proactive instead of reactive – a cardinal rule in a stable and leading edge IT environment.

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