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The Big 8: Eight transformative technologies to pay attention to in 2018

IHS Markit has identified eight transformative technologies to watch in 2018. Some are new, and some are rapidly evolving—and even teaming up—in ways that are disrupting industries and fueling innovation at lightning speed. Take a look at what we think you need to pay attention to:
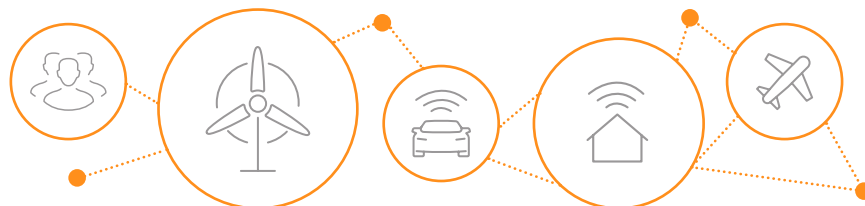
Artificial Intelligence (AI)

Industry experts are abuzz with innovations in autonomous vehicles, infotainment, natural language processing, and augmented reality. Stay sharp by listening to concerns about data security and the debate over cloud-based vs. device-based implementations.

5% → **109%**

Rate of AI-based systems in new vehicles (2015 to 2025)
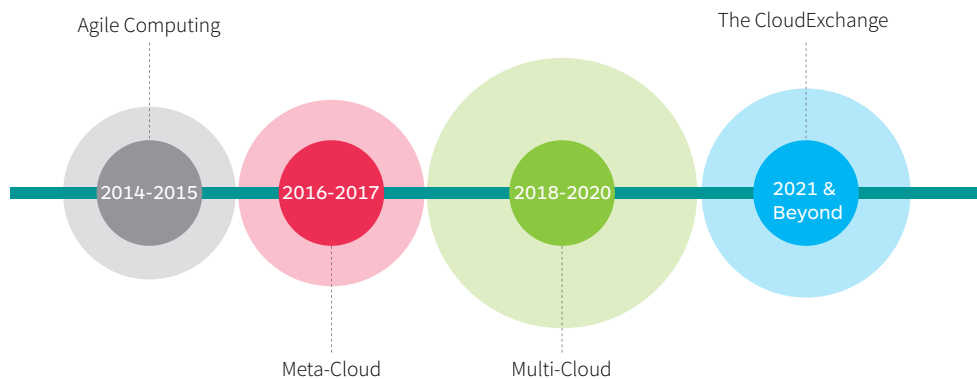
Internet of Things (IoT)

The IoT is converging with other transformative technologies in 2018 to create new growth opportunities. Pay particular attention to analytics-driven IoT platforms, computing at the edge, and data exchange brokerages (DEBs), as IoT influences everything from home security systems, to oil and gas exploration, to smart cities, to retail experiences, and beyond.

40B of IoT devices at the edge between 2018 to 2025

Cloud and virtualization

Cloud services will pave the way for technologically immature companies to utilize machine learning (ML) and AI, radically transforming their usage and understanding of data.

Agile Computing

The CloudExchange

2014-2015   2016-2017   2018-2020   2021 & Beyond

Meta-Cloud   Multi-Cloud

Off -premises cloud services market roadmap

Connectivity

While it's important to keep track of 5G's rapid and meaningful development, it is crucial to pay attention to other network players as well, such as LPWA, private LTE, D2D/mesh, mobile broadband, fiber, and LEO satellite.

80B of LTE-M and NB-IoT connections by 2020

Ubiquitous video

Expanded video capabilities will have impact far beyond the video supply chain itself. Look for bigger and better screens, plus continued consumption of video, to alter strategies in multiple markets not directly tied to the video supply chain.

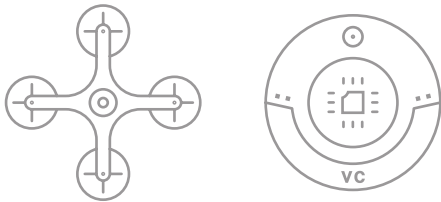4k → 8k   Flexible and foldable displays

Computer vision

Using technology to read images and analyze data as well as—and as quickly as—the human eye will quite literally transform our world. From facial recognition software to self-driving cars, advanced robotics, and surveillance, this technology will accelerate innovation across multiple industries.

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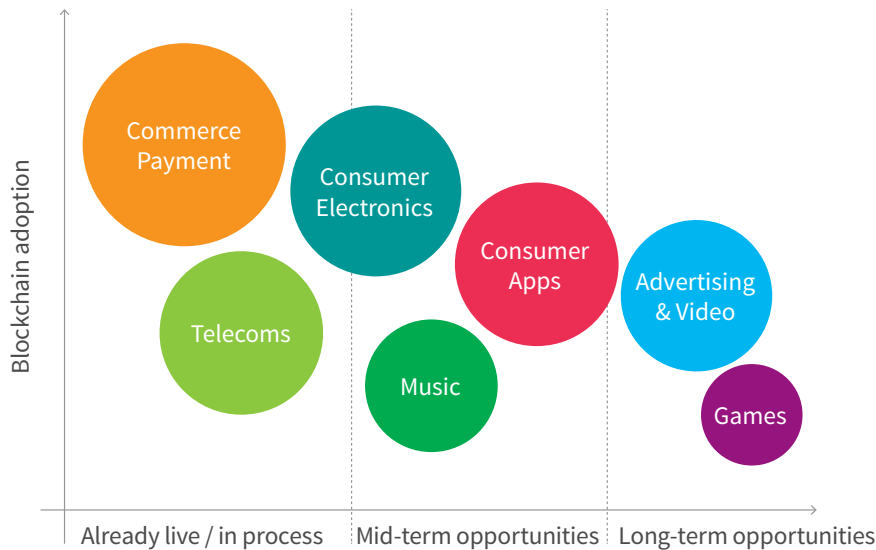FACE ID SECURITY LIDAR ADAS

Robots and drones

Talk about robots and drones is nothing new. But 2018 could show us the deeper story: the disruptive potential of robots and drones to transform long-standing business models in manufacturing and industry. From logistics, to material picking and handling, to navigational autonomy and delivery, robots and drones are poised for a big breakout.

3.9B Estimated global market for robots and drones in 2018

Blockchain

Blockchain-based services beyond financial services are already being deployed and will continue to grow in 2018. Yet the commercial potential is still unclear, and many challenges remain. Mainstream adoption is dependent upon continued experimentation and business model evolution.

Blockchain adoption

Commerce Payment

Consumer Electronics

Consumer Apps

Advertising & Video

Telecoms

Music

Games

Already live / in process | Mid-term opportunities | Long-term opportunities

For a complete analysis of the eight transformative technologies of 2018, click here to download the white paper.

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