

IoT in EducationHype and Potential

IR4.0 Looking at a bigger picture

Between buzzwords and realities

IoT applications in various industries

IoT in Education

Reflection

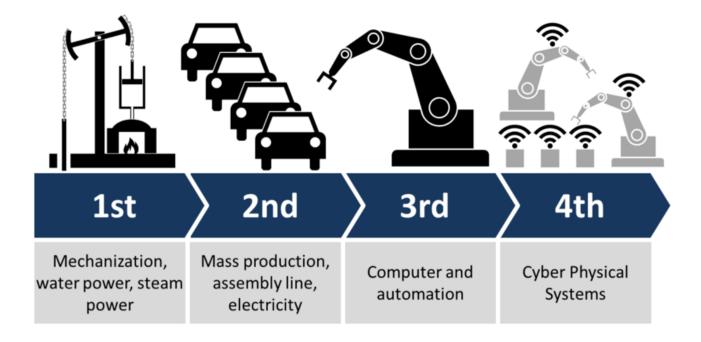


Explain to me like I'm 12 years old Ceritakan seolah-olah saya 12 tahun

- What is Internet of Things
- Apakah itu Internet of Things

Atau

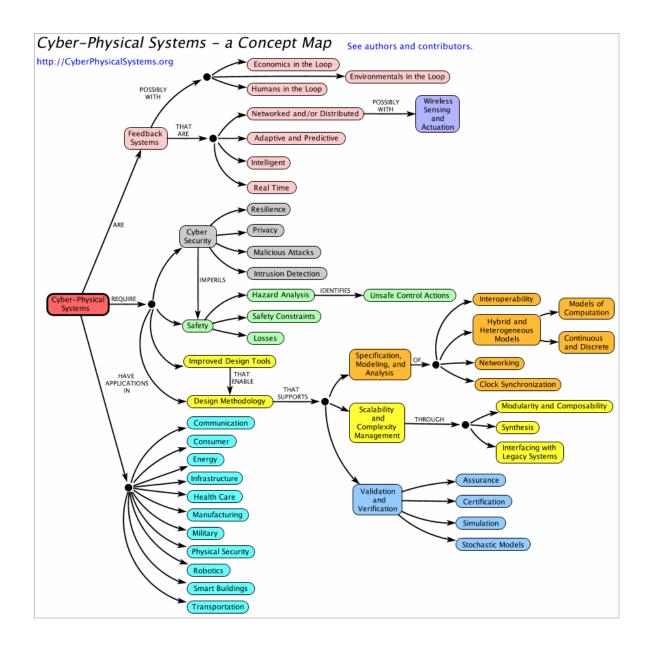
- What is Industry 4.0
- Apakah itu Industri 4.0



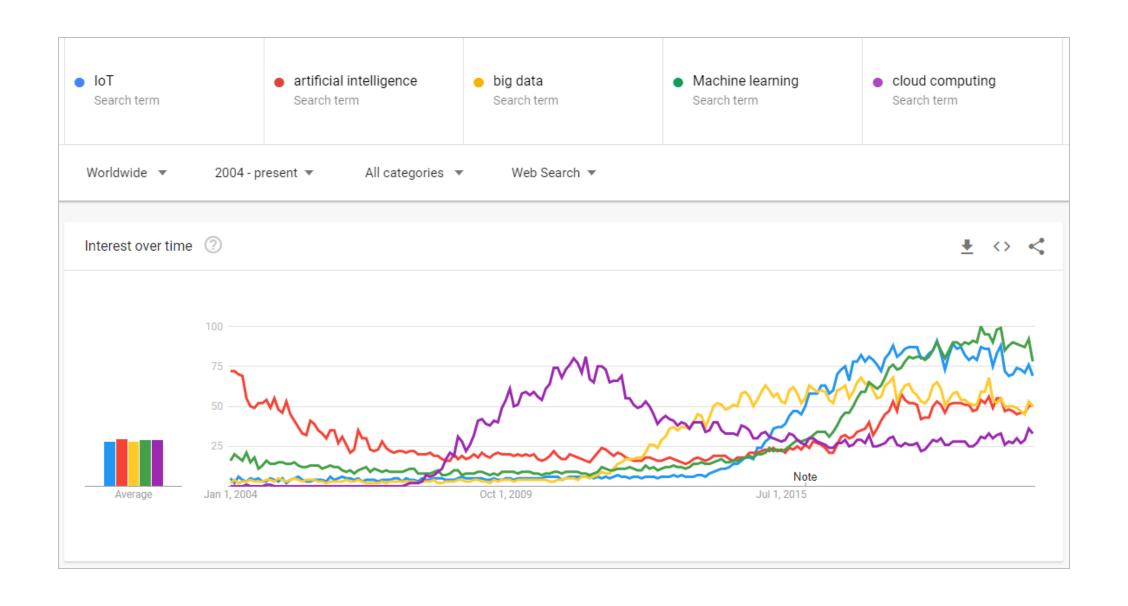
Cyber-Physical Systems

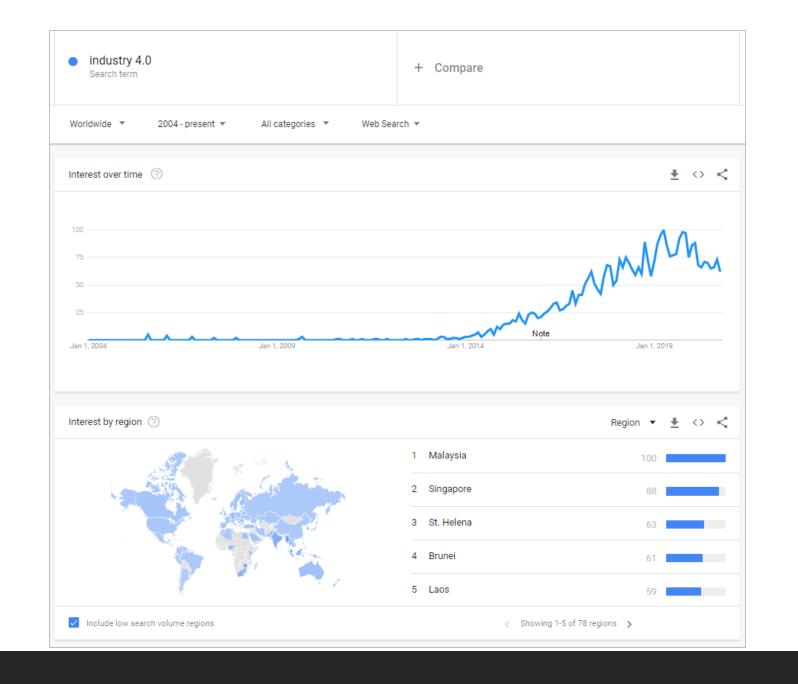
are integrations of computation, networking, and physical processes.

https://ptolemy.berkeley.edu/projects/cps/



machine 8 mulation





TECH ARTIFICIAL INTELLIGENCE

Forty percent of 'Al startups' in Europe don't actually use AI, claims report

Companies want to take advantage of the AI hype

By James Vincent | Mar 5, 2019, 8:14am EST







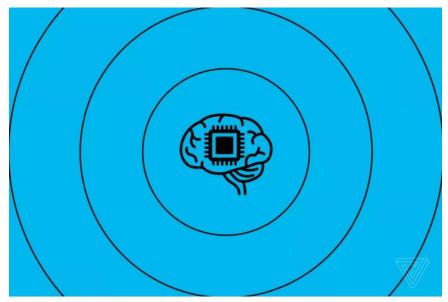


Illustration by Alex Castro / The Verge

Artificial intelligence is one of the most misused terms in tech today, and a new study apparently confirms how hyped the technology has become.

WIRED



Artificial Intelligence

Startups are exploiting Al's hazy definition to cash in on the hype

40 per cent of AI startups don't actually use AI in their products. Here is the reason why

By WILL BEDINGFIELD









Credit Studio Takeuma

The Network

Q

News Release

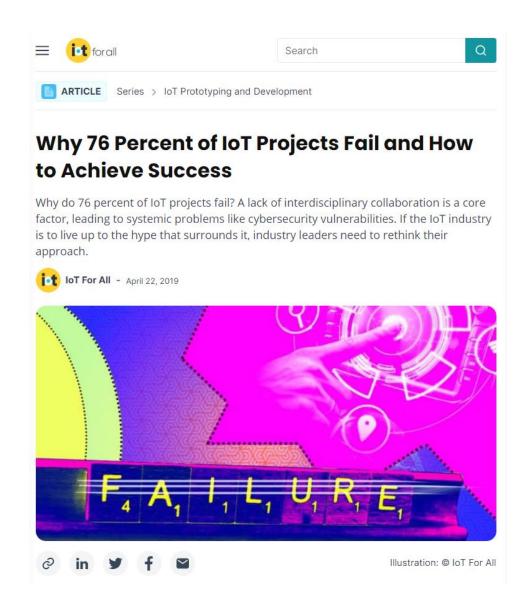
Cisco Survey Reveals Close to Three-Fourths of IoT Projects Are Failing

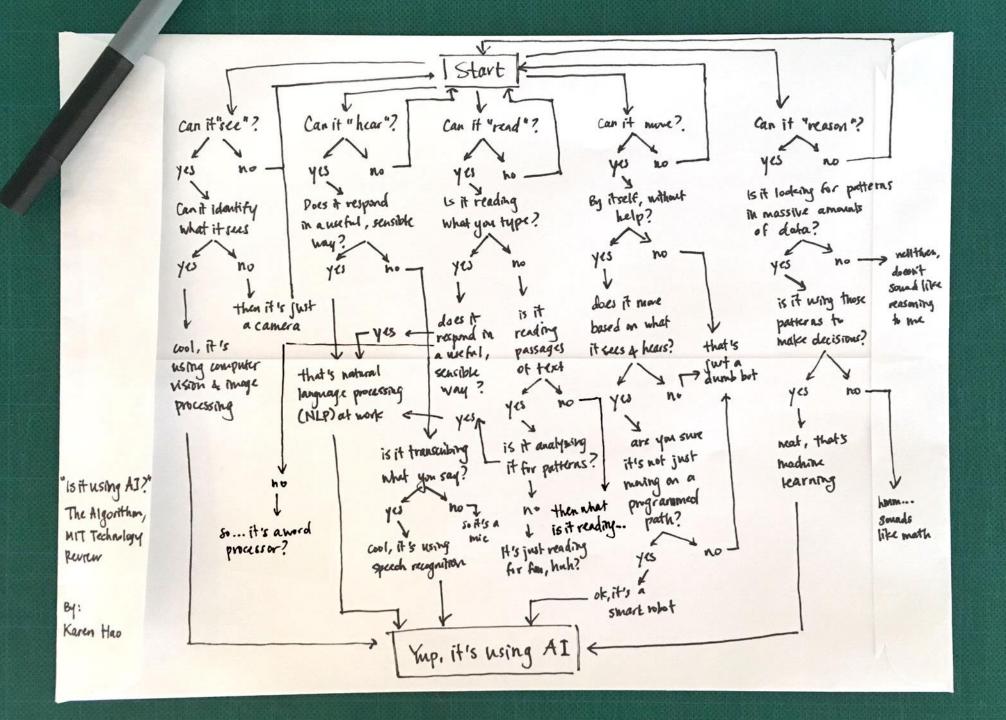
@ May 23, 2017

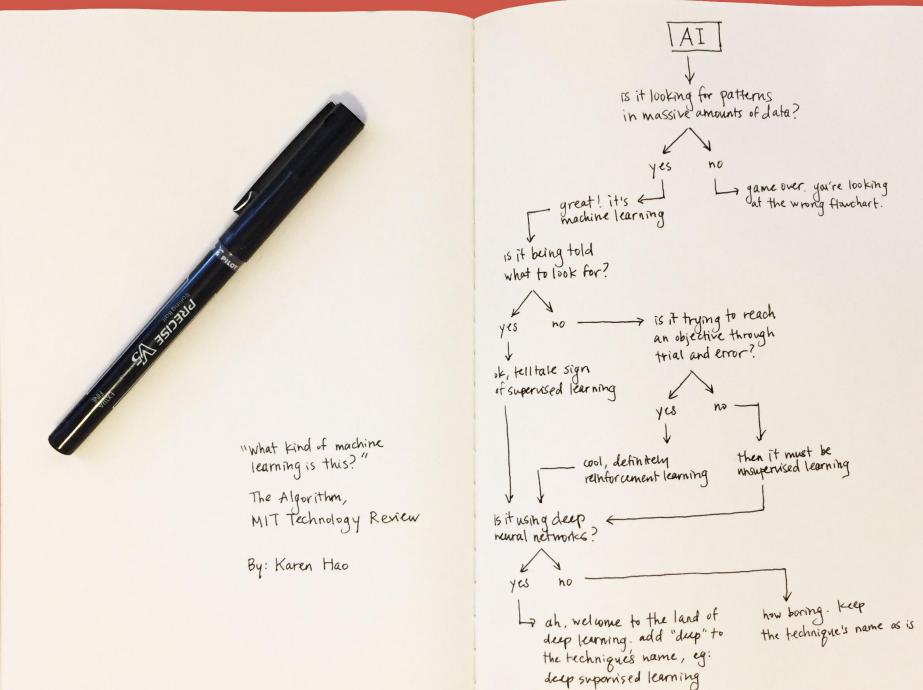


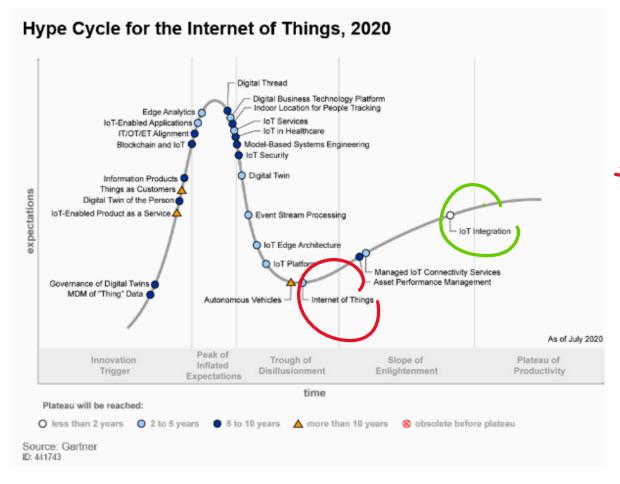
Released at marquee industry event IoT World Forum, the survey data also reveals keys to IoT success

LONDON - The Internet of Things World Forum (IoTWF), May 23, 2017 – IDC predicts that the worldwide installed base of Internet of Things (IoT) endpoints will grow from 14.9 billion at the end of 2016 to more than 82 billion in 2025^{1} . At this rate, the Internet of Things may soon be as indispensable as the Internet itself.







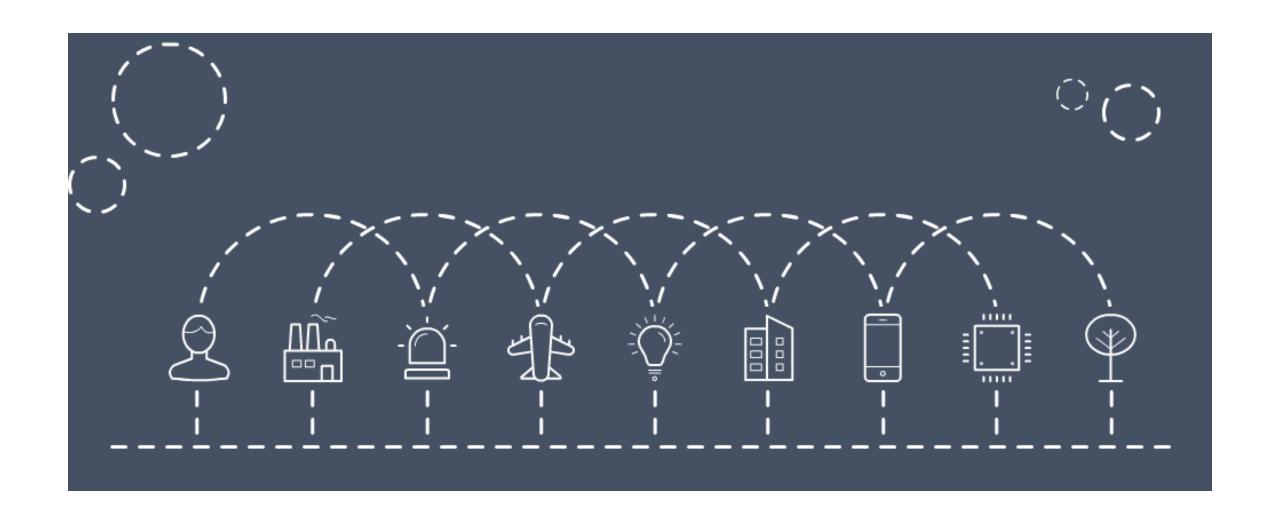


Innovation Trigger: A potential technology breakthrough kicks things off. Early proof-of-concept stories and media interest trigger significant publicity. Often no usable products exist, and commercial viability is unproven.

Peak of Inflated Expectations: Early publicity produces several success stories — often accompanied by scores of failures. Some companies take action; many do not.

- **Trough of Disillusionment:** Interest wanes as experiments and implementations fail to deliver. Producers of the technology shake out or fail. Investments continue only if the surviving providers improve their products to the satisfaction of early adopters.
 - Slope of Enlightenment: More instances of how the technology can benefit the enterprise start to crystallize and become more widely understood. Second- and third-generation products appear from technology providers. More enterprises fund pilots; conservative companies remain cautious.

Plateau of Productivity: Mainstream adoption starts to take off. Criteria for assessing provider viability are more clearly defined. The technology's broad market applicability and relevance are clearly paying off.





Hospitals, Healthcare

- Empowered doctors to deliver superlative care by **remotely monitoring**the patients using IoT enabled devices.
- End-to-end connectivity to the workflow of patient care.
- Transformed the healthcare industry and is highly beneficial for doctors, patients, families, hospitals, and even the insurance companies.
- It can enable the machine to machine communication, interoperability, data movement, and information exchange that allows the healthcare industry to **deliver efficiency**.

Embedded Hardware - Raspberry PI

Embedded Hardware

A leading beneficiary of the rapid growth of the IoT will be the overall **embedded systems** market including providers of hardware, software, and operating systems

It is a network of things and this things is an Embedded Device which consist of electronics, controllers, processors, sensors, software's and a network to connect all these things together.



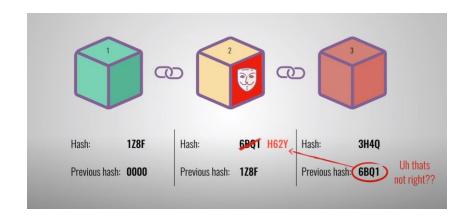
Banking, Finance, Blockchain

Blockchain at its core is a cryptographically secured, **distributed ledger** that allows for the secure transfer of data between parties.

Decentralization. Information is sent from the device to the cloud where the data is processed using analytics and then sent back to the IoT devices.

Smart contracts in blockchain networks will allow devices to function securely and autonomously by creating agreements that are only executed upon completion of specific requirements.

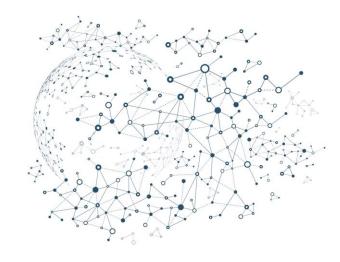
Blockchain



can we explain the concept of Blockellain

-what it aims to do?

-apart from banking what else NEEDS blockellain?







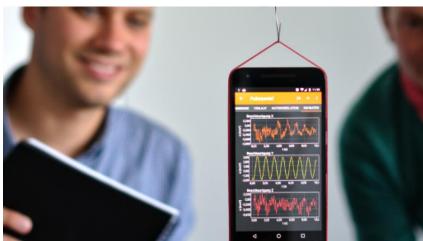






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Discussion



School Bus Tracking

School bus tracking solutions use sensors to track the location and performance of school busses to increase efficiency and ensure the safety of children riding to school.

Reflection

What can we do now? How can we start?

Start small, start early?