

INTERNET OF THINGS (IOT)

Welcome

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Why IoT?



Internet of Things (IoT)

Just 2 words (actually three...) but lot to be said.

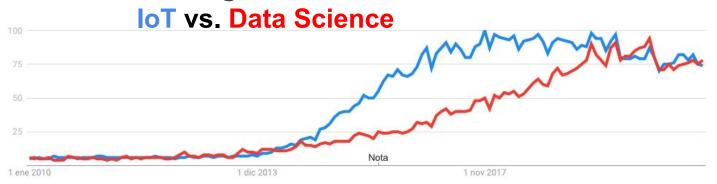
Google Results: 5.270.000.000

Google News: 862.000.000

Google Videos: 431.000.000



Google Trends:



IoT is an Opportunity



2022 Internet

Internet Users

2022: 4.9K millions users (~60%)

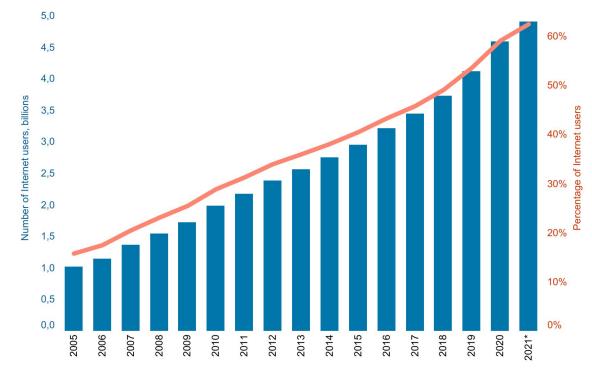
6 out 10 persons have Internet access

Users have doubled in only 10 years

Grow rate of 3-4% per year

Internet nenetration non-uniform

Individuals using the Internet



Source: ITU
* ITU estimate

Fixed-broadband subscriptions per 100 inhabitants, by development status

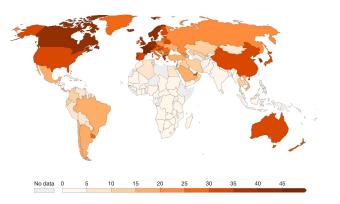
Fixed Access

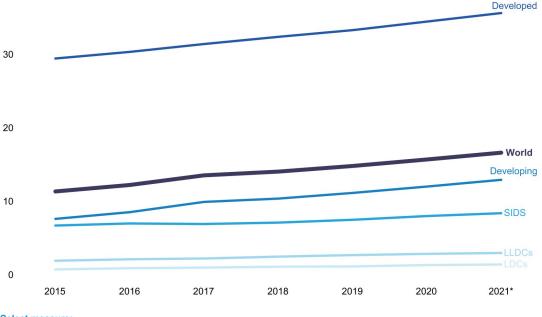
Fixed access not growing

3 persons per access in developed

10 persons in developing

100 persons in least developed





Select measure:

- Fixed-telephone subscriptions per 100 inhabitants
- Fixed-broadband subscriptions per 100 inhabitants
- Mobile-cellular telephone subscriptions per 100 inhabitants
- Active mobile-broadband subscriptions per 100 inhabitants

Source: ITU
* ITU estimate

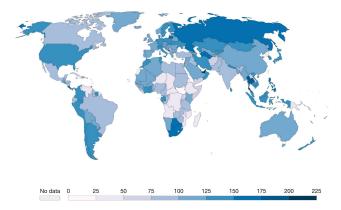
Active mobile-broadband subscriptions per 100 inhabitants, by development status

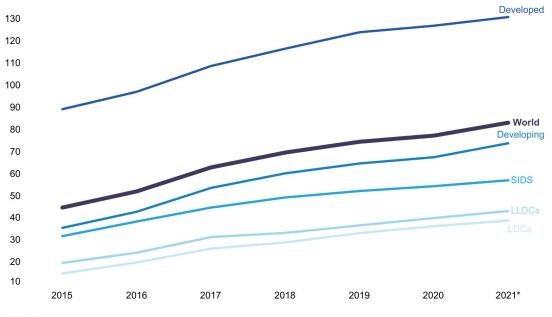
Mobile Access

More than 1 mobile access per person in developed countries

About 1 mobile access every 3 persons in least developed countries

Mobile access has double in 5 years





Select measure:

- Fixed-telephone subscriptions per 100 inhabitants
- Fixed-broadband subscriptions per 100 inhabitants
- Mobile-cellular telephone subscriptions per 100 inhabitants
- Active mobile-broadband subscriptions per 100 inhabitants

Source: ITU
* ITU estimate



Internet Devices

Personal Devices



Non-Personal Devices



Internet Devices

Personal Devices







Non-Personal Devices



Internet Devices

Personal Devices



Non-Personal Devices



Devices connected to Internet

2022: More non-personal devices that personal ones (~50% more)

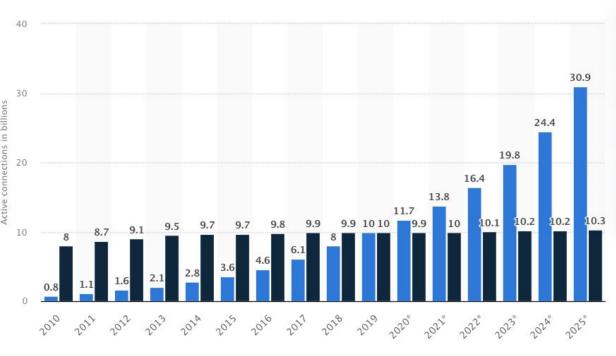
Saturation of personal devices

Exponential growth of non-personal growth devices (~13% per year)

Expected more than 50K millions of a non personal devices by 2030 (about 6 times world's population)

Non-personal devices can be any "Thing" connected to the Internet

Internet not only connects people but also things



Non-Personal devices

Personal devices

2022



4.9K millions

Internet

26.5K millions

of People

7.9K millions

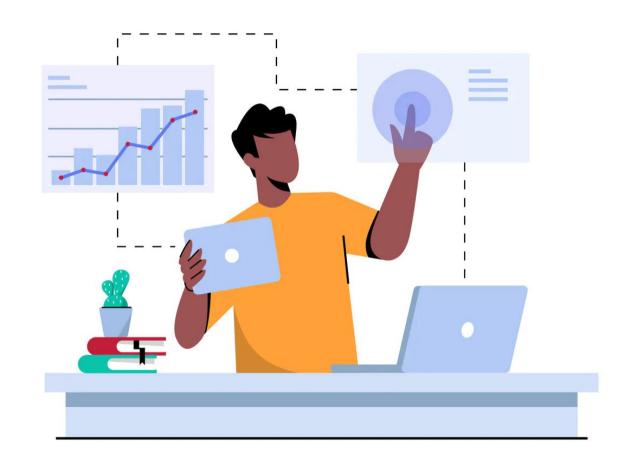
Things

16.4K millions

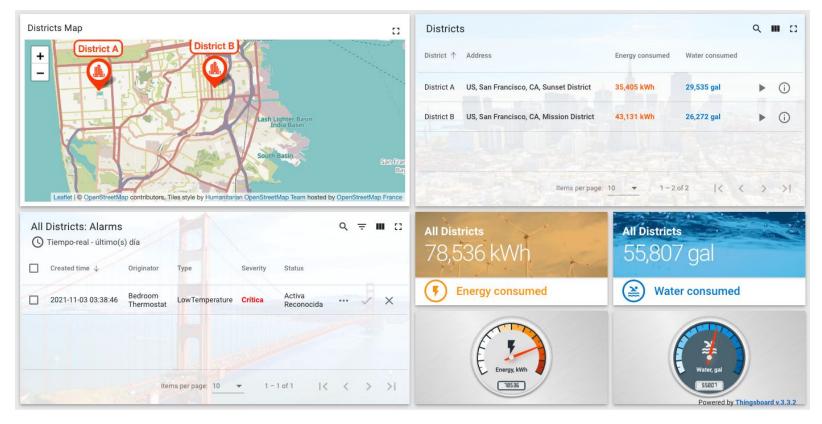
IoT is Every where



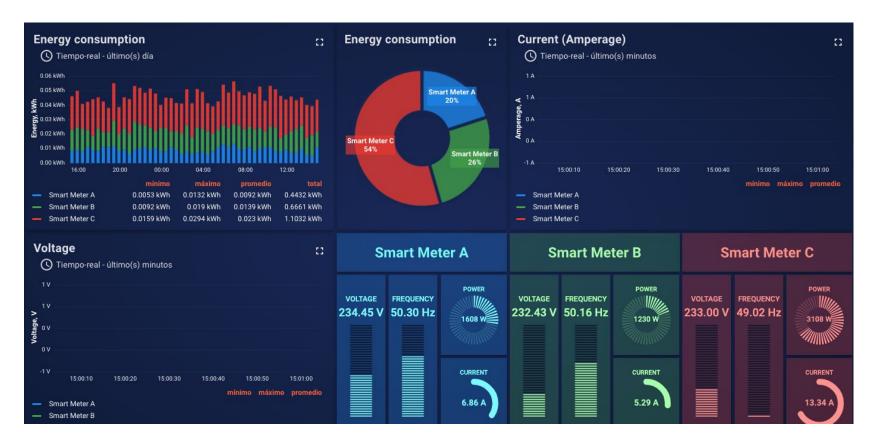
loT in practice



IoT in practice: **Smart Metering**



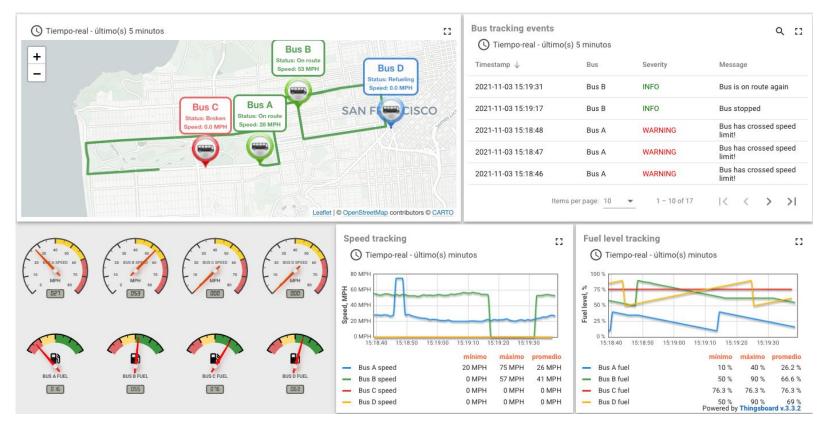
IoT in practice: **Smart Energy**



IoT in practice: **Smart Farm**



IoT in practice: **Smart Fleet**





IoT Stories

Smart Building



Internet of Wine



Industry 4.0



Retail Experience





IoT Lifestyle

Smart Parking



Smart Home



Smart Factory



loT for our World



Agenda 2030

Sustainable Development Goals are a universal call to action to end poverty, protect the planet and improve the lives and prospects of everyone, everywhere.

A total of 17 are proposed.



Agenda 2030: Sustainable Development Goals







































IoT for Sustainable Development Project

The World Economic Forum's IoT for Sustainable Development project aims to encourage the use of the Internet of Things (IoT) to accelerate progress on the 17 United Nations Sustainable Development Goals (SDGs).

To achieve this goal, the project explores scalable and replicable models of business, investment and collaboration across industries and with public authorities to support the design of commercially viable IoT deployments that can maximize their social value potential.

More details: http://widgets.weforum.org/iot4d/

IoT Projects

Project Results

From 640 IoT projects, 84% can contribute to achieve SDGs

Only 5 SDGs concentrate 75% of the projects

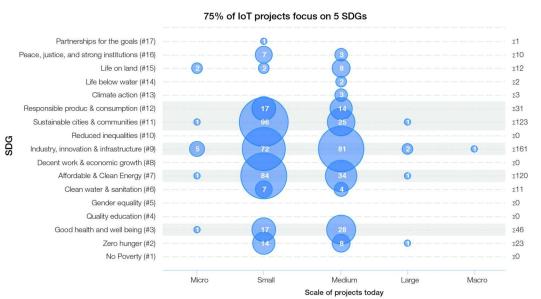












But some things will never change...

