CONNECTED LIFE : AN EASIER LIFE

UVCI/ANGLAIS

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Table des matières

Objectifs

By the end of this lesson, students should be able to :

-name connected objects

-find out the synonyms of some words

-make collocations

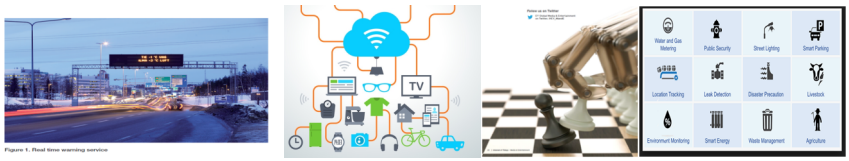
-make a transfer of information for comprehension

-read whole and decimal numbers

-use percentages

-Reorder a paragraph

Introduction



« These different pictures show the possible connected objects. »

When talking about connected objects, we refer to the *Internet of Things (IoT)*. We possess many devices that can be controlled from a distance. Those devices are connected to others through the network. Therefore, we do not have to hold those devices in our hands nor be close to them to use them or control them. The internet acts like a remote control for all the connected objects. Whether we are at home or out, we stay in control of everything we have at home. We only have to connect them to the internet.

LEARNING ABOUT CONNECTED OBJECTS

I

1. PROFILING CONNECTED OBJECTS

Industry / Vertical	M2M applications and possibilities
Automotive	Passenger vehicle anti theft / recovery, monitoring /maintenance, safety/control, entertainment.
Transportation	Fleet management, asset tracking, telematics, manufacturing and logistics.
Utilities / Energy	Smart metering, smart grid, Electric line monitoring, gas / oil / water pipeline monitoring.
Security	Commercial and home security monitoring, Surveillance applications, Fire alarm, Police / medical alert
Financial /Retail	Point of sale (POS), ATM, Kiosk, Vending machines, digital signage and handheld terminals.
Health care	Remote monitoring of patient after surgery (e-health), remote diagnostics, medication reminders, Tele-medicine
Public Safety	Highway, bridge, traffic management, homeland security, police, fire and emergency services.

2. Exercice : what are the connected objects that people possess at home ?

select the connected objects that are shown on the pictures above

- ☐ tv set
- ☐ car
- ☐ wrist watch
- ☐ earphones
- ☐ clothe

- ☐ glasses
- ☐ air-conditioner
- ☐ computer
- ☐ bed
- ☐ ATM

3. Exercice : complete the nouns of connected objects and applications from the table above

complete the nouns of connected objects and applications from the table above : medical - vending -fighter - security - management - services - pipeline - anti-theft - jam - rules

traffic

fire

home

water monitoring

machines

vehicle

alert

4. THE ADVANTAGES OF USING CONNECTED OBJECTS

The use of intelligently connected devices and systems to *leverage* data gathered by *embedded sensors* and *actuator*s in machines and other physical objects is called the Internet of Things (IoT). IoT is expected to spread rapidly over the coming years and this convergence will *unleash* a new dimension of services that improve the quality of life of consumers and productivity of enterprises, unlocking an opportunity that the GSMA *refers to* as the 'Connected Life'.

For consumers, the IoT has the potential to deliver solutions that dramatically *improve* energy efficiency, security, health, education and many other aspects of daily life. For enterprises, IoT can *underpin* solutions that improve decision-making and productivity in manufacturing, *retail*, agriculture and other sectors.

Machine to Machine (M2M) solutions - a *subset* of the IoT – already use *wireless* networks to connect devices to each other and the Internet, with minimal direct human intervention, to deliver services that meet the needs of a wide range of industries. In 2013, M2M connections accounted for 2.8% of global mobile connections (195 million), indicating that the sector is still at a relatively early *stage* in its development. An evolution of M2M, the IoT represents the coordination of multiple vendors' machines, devices and *appliances* connected to the Internet through multiple networks.

As the Connected Life *evolve*s, the number of mobile connections worldwide is set to rise dramatically to reach 10.5 billion by 2020, while the total number of connected devices across all access technologies could reach 25.6 billion. These devices will bridge the physical and digital worlds, enabling a new category of services that improve the quality of life and productivity of individuals, society and enterprises.

This Internet of Things - a widely distributed, locally intelligent network of smart devices – will enable extensions and enhancements to fundamental services in education, health and other sectors, as well as providing a new ecosystem for application development.

By enabling devices to communicate with each other independently of human interaction, the Internet of Things will open up new revenue streams, facilitate new business models, drive efficiencies and improve the way existing services across many different sectors are delivered. It will represent a very important demand-side stimulus that helps finance the deployment of mobile *broadband* networks around the world. In total, the positive impact on the global economy could be as much as US$4.5 trillion per annum, according to a study by Machina Research.

5. Exercice : Choose the right ending that is the definition or the synonym of each word from the text

Choose the right ending that is the definition or the synonym of each word from the text

inserted ; placed or set firmly in something else --- mention, identify, make allusion or reference---to abandon control of ; to release ; to free from---a detector ; a device that detects heat, light, sound, motion, and then reacts to it in a particular way--- a part of ; a division of --- a communication network with a frequency range divided into many autonomous channels---to move to a more desirable or excellent condition ; to better ; to increase --- to develop gradually ; to undergo evolution--- using electromagnetic waves---the sale of goods to ultimate consumers ; in detail---to use influence or power to achieve a desired result ; to capitalize on --- a step ; a degree in a process--- a step ; a degree in a process--- to furnish a foundation ; to support from below ; to construct--- a device that makes another one move or operate---

leverage =

embedded =

sensor =

actuator =

unleash =

refer to =

improve =

underpin =

retail =

subset =

wireless =

stage =

evolve =

broadband =

6. Exercice : select the advantages of having connected objects from the proposals below

select the advantages of having connected objects from the proposals below

- ☐ Living conditions will be more helpful
- ☐ companies will make more profits
- ☐ People won't lose their belongings
- ☐ New services will come into existence
- ☐ services in schools and universites as well as in the primary sector will improve
- ☐ sources of revenue will not be diversified
- ☐ innovation will take place in business creation

7. Exercice : GAP FILLING

Fill the gaps with the suitable word from the text : per annum - 10.5 billion - M2M - connections - GSMA - 25.6 billion

_____ is the body that coined the phrase 'Connected Life'.

The abbreviation _____ means Machine to Machine.

By 2020, there will be about _____ connected devices.

Within 2 years, around the world there would be _____ mobile _____ .

Four point five trillion of US dollar could be earned _____ thanks to connected objects.

LANGUAGE SPOT

II

1. READING WHOLE AND DECIMAL NUMBERS

WHOLE NUMBERS

Whole numbers from one thousand and more are expressed with a coma (,)

example :

1,000 = one thousand

1,000,000 = one billion

1,000,000,000 = one billion

1,000,000,000,000 = one trillion

195 million= 195,000,000: one hundred and ninety five million OR one hundred ninety five million

1,600 = one thousand and six hundred OR one thousand six hundred

4,500,000,000,000= four trillion and five hundred billion

120.548 = one hundred twenty thousand five hundred and forty-eight

DECIMAL NUMBERS

Decimal numbers contain a period or a point(.)

10.5 billion = ten point five billion = 10,500,000,000

1.600 = one point six

4.5 trillion = four point five trillion

1.658 = one point six five eight

2. Exercice : WRITE IN LETTERS OR IN NUMBERS

write in letters or in numbers

Eleven point two seven =

125.56 =

= five hundred eighty nine thousand five hundred and sixty-four

3. WORD CATEGORIES

WORD CLASSES

There are 7 main types of words :

1. Noun
2. Adjective
3. Adverb
4. Verb
5. Conjunction/connective
6. Preposition
7. Article

From a single word, we can form other words. Example :

1- intelligently (adverb) -- *intelligent* (adjective) --- *intelligential* (adjective)

2- connected (adjective) ---*connection* (noun)-- *connect* (verb) -- *connectivity* (noun) -- *disconnected* (negative noun)

3- convergence (noun) -- *converge* (verb) -- *convergent* (adjective) --- *converging* (adjective) --- *convergency* (noun)

4- consumer (noun) *consume* (verb) -- *consumption* (noun) -- *consumed* (adjective/past participle) --- *consumable* (adjective)

4. Exercice : Find out the words from the cues

1- Digital ( ) --- (verb) --- digitally ( ) --- (verb)

2- computer ( ) --- / (verb)

3- quickly ( ) --- quick ( ) --- (verb)

4-weak ( ) --- (noun)

5-similar ( ) (noun) similarly ( )

WRITING A PARAGRAPH

III

1. Exercice : REORDER THE SENTENCES BELOW TO MAKE A COHERENT PARAGRAPH

reorder the sentences below to make a coherent paragraph

It sounds bizarre, but it's possible—if they are equipped with a tin Radio Frequency Identification (RFID) device, your location could be revealed without you knowing about it.

This technology is just one of the current ways of allowing physical objects to go online – the so-called Internet of Things.

Imagine a smart building where you know how many people are inside just by detecting movement with motion-sensitive lights.

This could help save lives in an emergency.

Those in favour of the IoT claim that interconnectivity would allow us to locate and monitor everything, everywhere and at any time.

To start, what if those new jeans you've just bought start tweeting about our location as you cross London Bridge?