The image features a bright blue sky filled with soft, white, fluffy clouds. The text "internet of things" is centered in the sky, rendered in a white, pixelated, monospace-style font. The words are arranged in three lines: "internet" on the top line, "of" in the middle, and "things" on the bottom line. The overall aesthetic is clean and modern, suggesting a digital or technological theme.

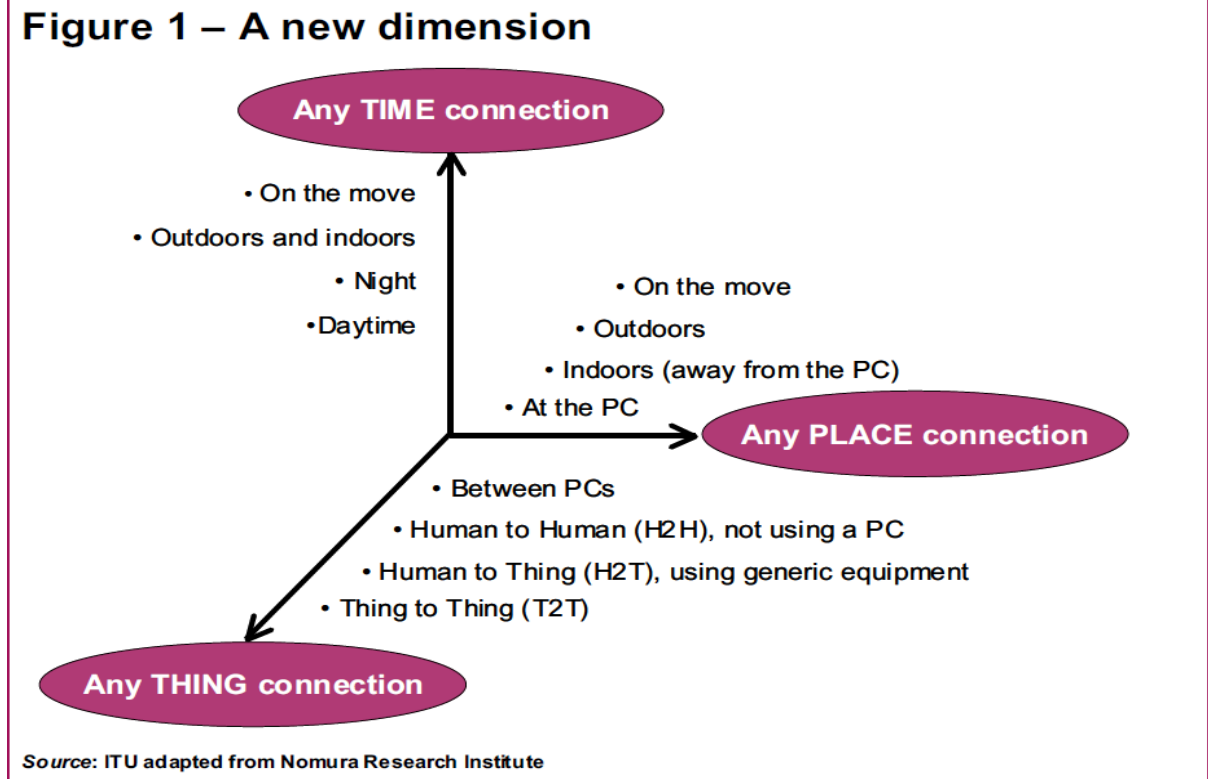
internet
of
things

What is the Internet of things (IOT)?

- The Internet of Things, also called The Internet of Objects, refers to a wireless network between objects, usually the network will be wireless and self-configuring, such as household appliances.

What is the Internet of things (IOT)?

- *From any time ,any place connectivity for anyone, we will now have connectivity for anything!*



➤ Hardware

✓ Cables

✓ Wires

✓ Computers

✓ Others(Routers, servers, Switches, satellites,
Radio waves)

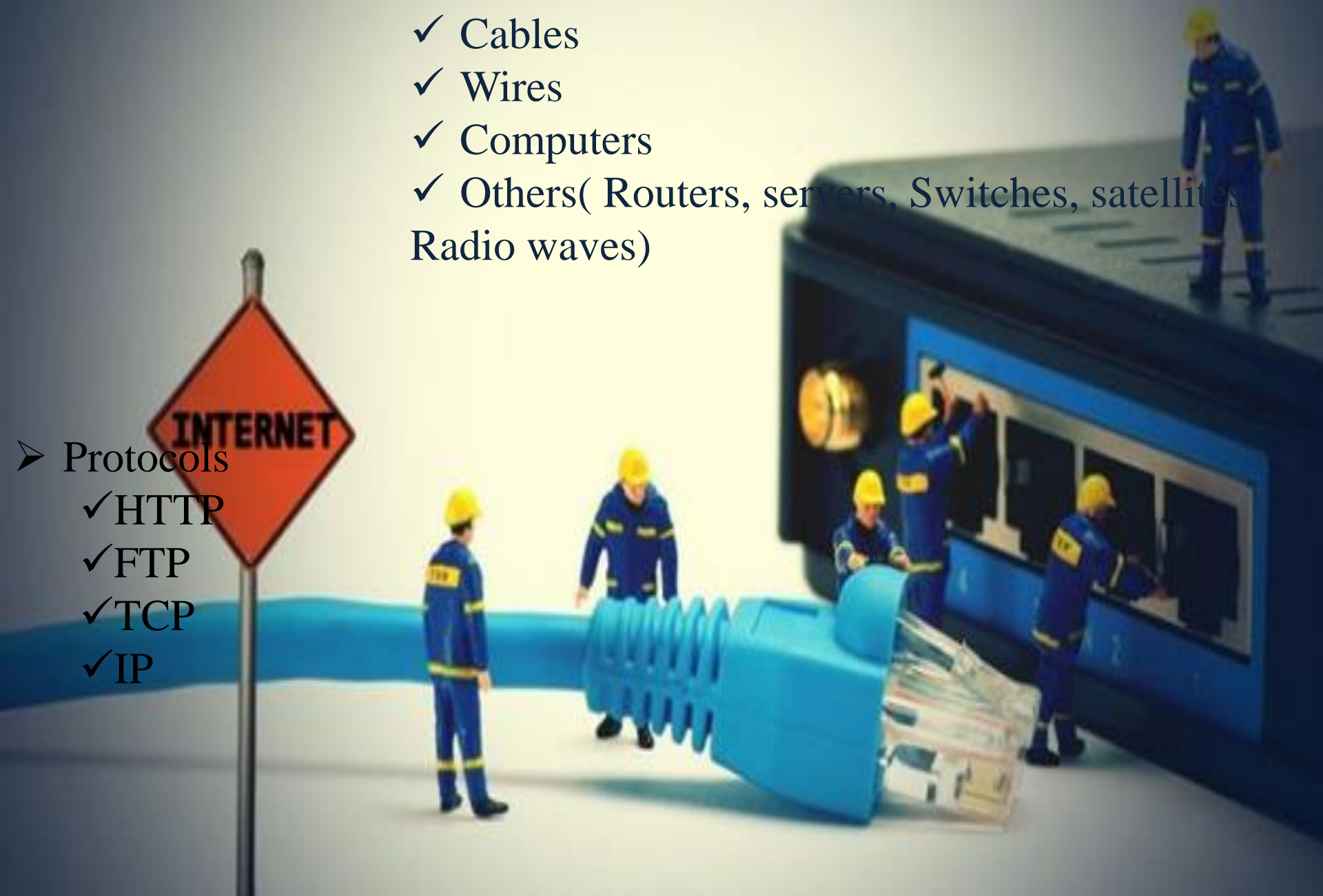
➤ Protocols

✓ HTTP

✓ FTP

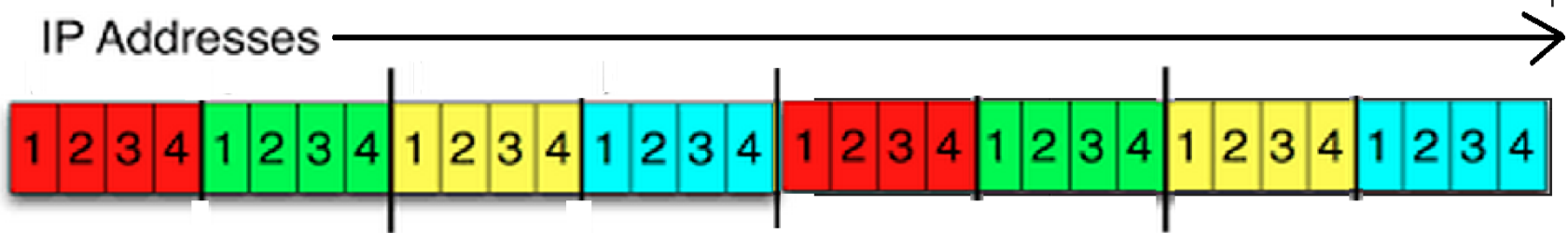
✓ TCP

✓ IP

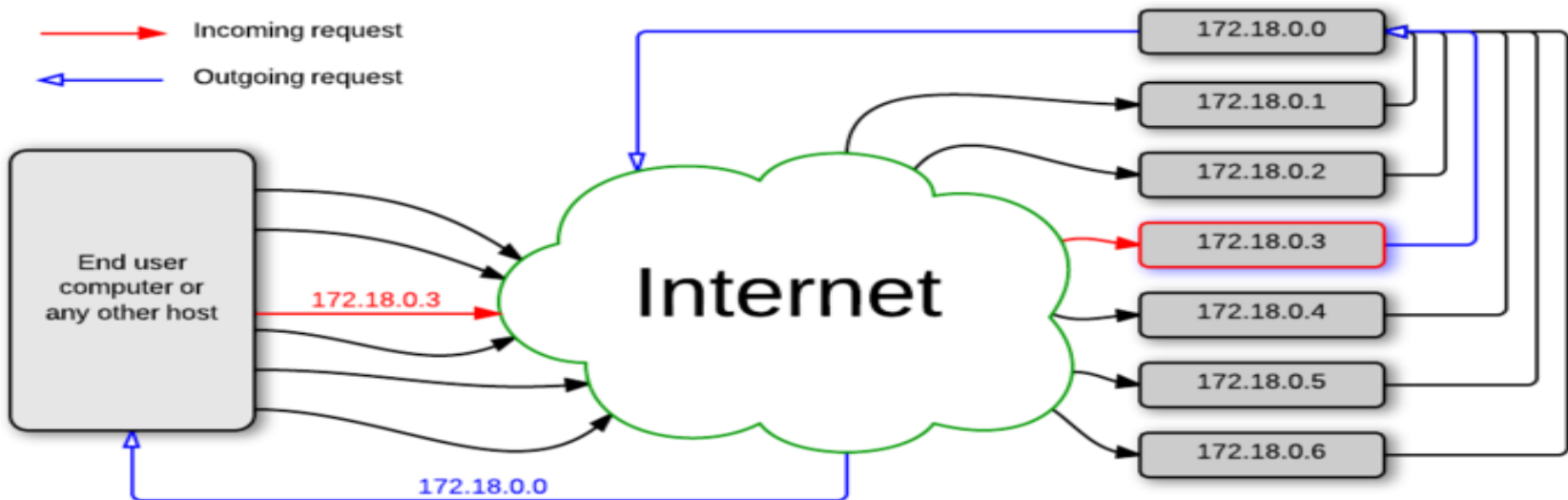


IP4

- Internet Protocol version 4



$$2^{32} = 4294967296$$



IP4

- <http://www.google.jo/>
- <http://209.85.227.103/>

IP6

- 128-bit address in binary:

**00100000000000010000110110111000000000000000
0000010111100111011000000101010101000000000
1111111111111110001010001001110001011010**

- 128-bit address divided into 16-bit blocks:

**0010000000000001 0000110110111000
0000000000000000 0010111100111011
000001010101010 000000011111111
111111000101000 1001110001011010**

- Each 16-bit block converted to HEX (base 16):

2001:0DB8:0000:2F3B:02AA:00FF:FE28:9C5A

- Further simplify by removing leading zeros:

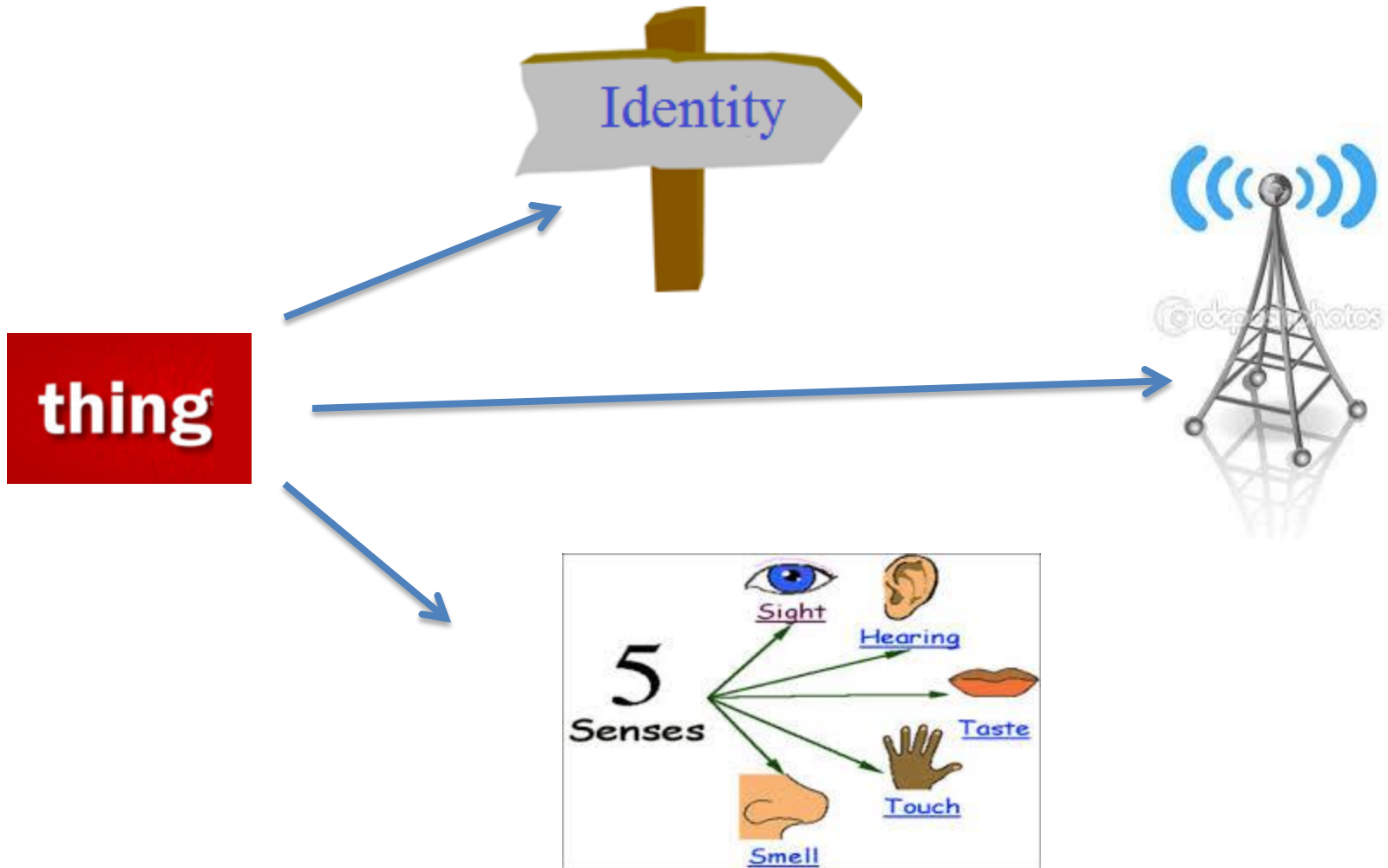
2001:DB8:0:2F3B:2AA:FF:FE28:9C5A

What are the things?

- Goods
- Objects
- Machines
- Appliances
- Buildings
- Vehicles
- Animals
- Plants
- Soil
- People



How we will do IOT?



Search of thing



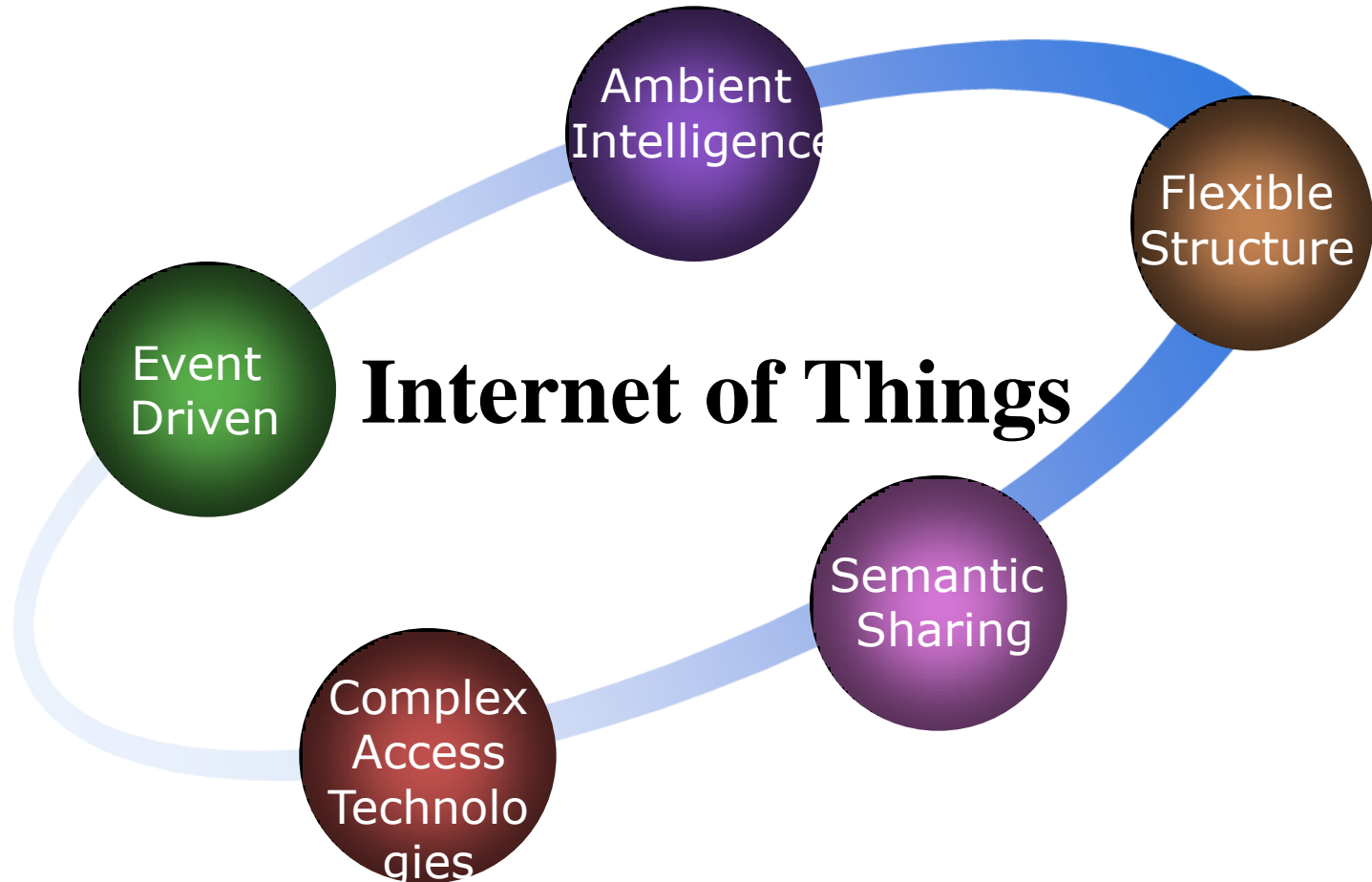
where is my keys?

Google Search

I'm Feeling Lucky

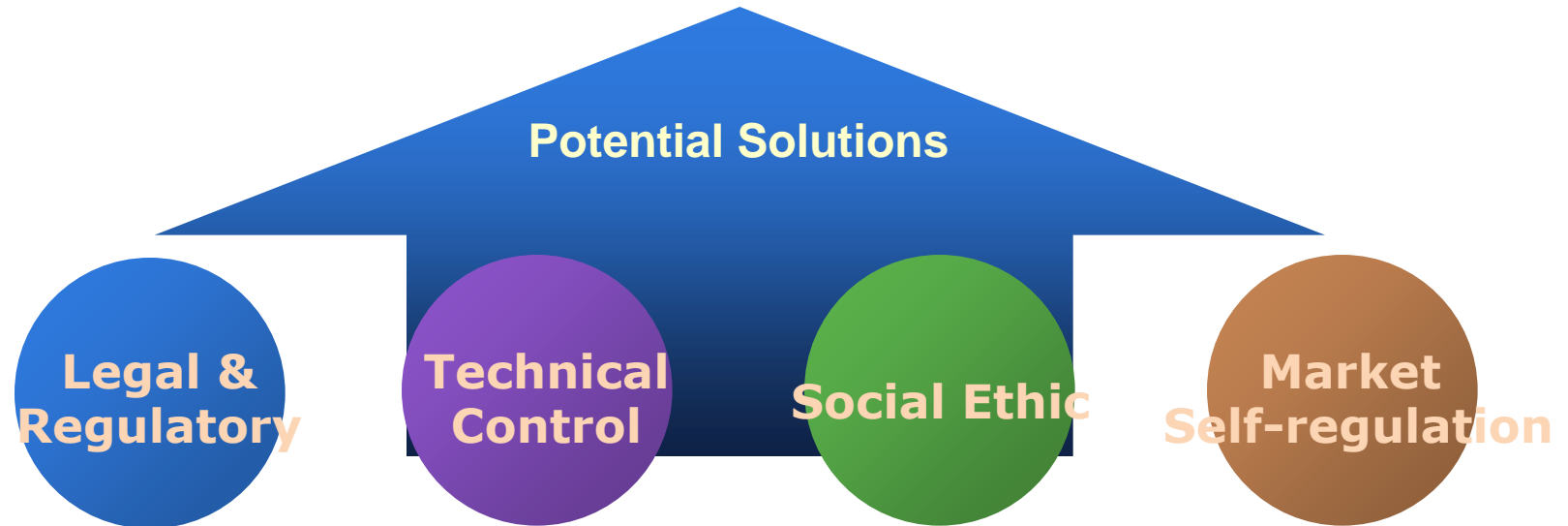
Google.iq offered in: العربية كوردى

Characteristics of IOT



The challenge of IOT

How to convincing users that the IoT technology will protect their data and privacy when tracking



Applications



Applications of the Internet of Things



Home and Safety

Kitchen and home appliances

Lighting and heating/HVAC

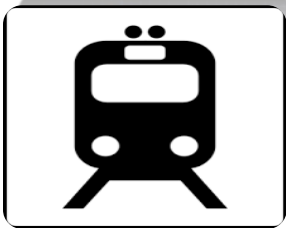
Safety monitoring (video cameras, sensors)



Health and Fitness

Fitness wearables like FitBit

Pulse, blood pressure, blood sugar monitoring



Transportation

Smart transportation solutions (traffic signals, smart parking)

Streamlined operations at airports, railroads, roadways

Fleet service management, including maintenance, monitoring, navigation, etc.



Industrial

Connected industries to control flow of materials

Oil & gas to check for flow interruptions

Cost control by monitoring and controlling electricity usage

The image features a 3D-rendered white rectangular sign with rounded corners, tilted at an angle. The sign has the words "THANK YOU" written in a bold, blue, sans-serif font. The letters are raised, creating a shadow on the surface below them. The background is a vibrant blue with abstract, flowing, wave-like patterns that create a sense of depth and movement. The overall aesthetic is clean and modern.

THANK YOU

12/19/2016

QUESTIONS

