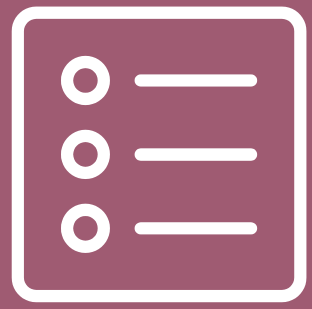


Topic Will Be Discussed

How & What?

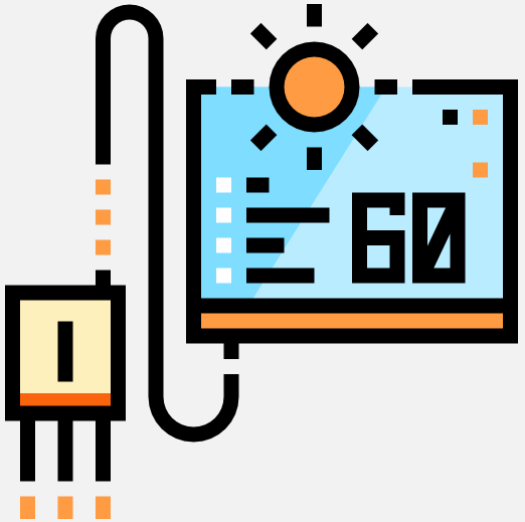
01

How?

How & What?

02

What?



Temperature

Humidity

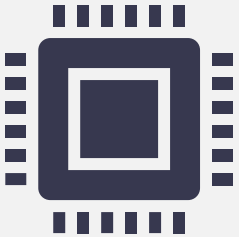
How & What?

02

What?

Embedded System

Hidden computer that quietly works inside everyday devices to make them smarter and more efficient



How & What?

02

What?

IOT

Internet Of Things
Connected

WHY ?

Goal

01

Change The World

Goal

02

My Target

Encourage

Global Aspect

01

What is Happening?

Robotics

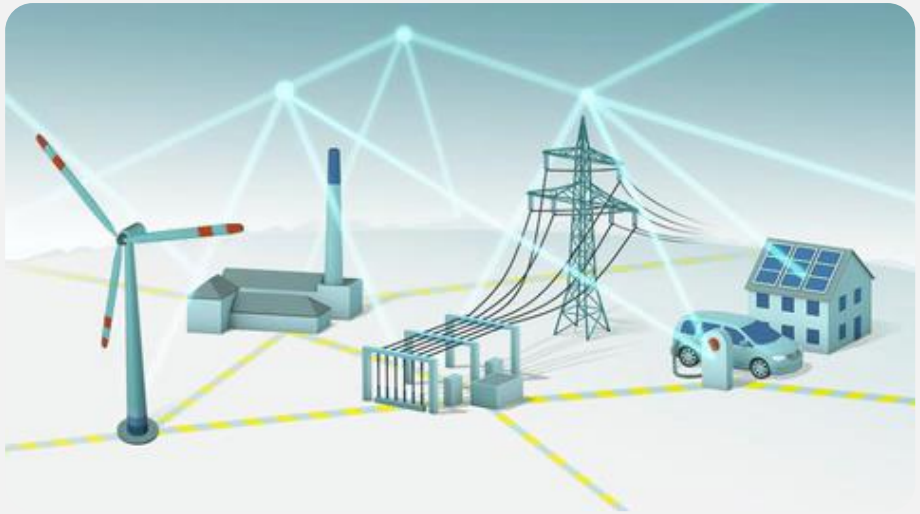
Boston Dynamics

Global Aspect

02

What is Happening?

Somewhere in Industry



Global Aspect

03

What is Happening?

MIT Cheetah

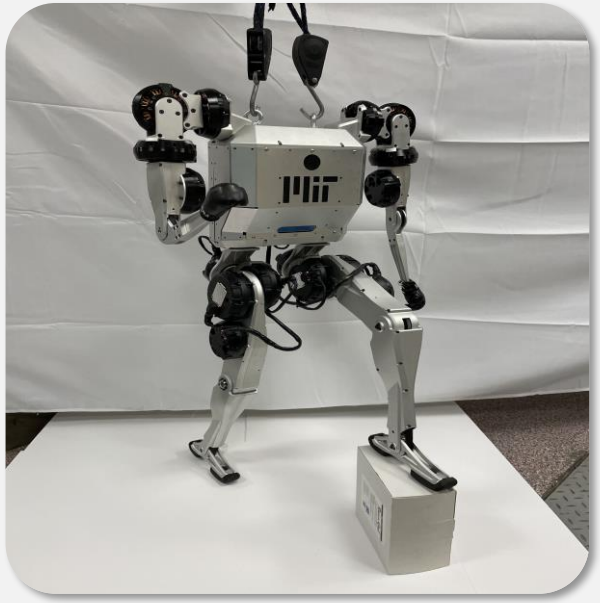
Global Aspect

04

Who are leading?

Carnegie Mellon University

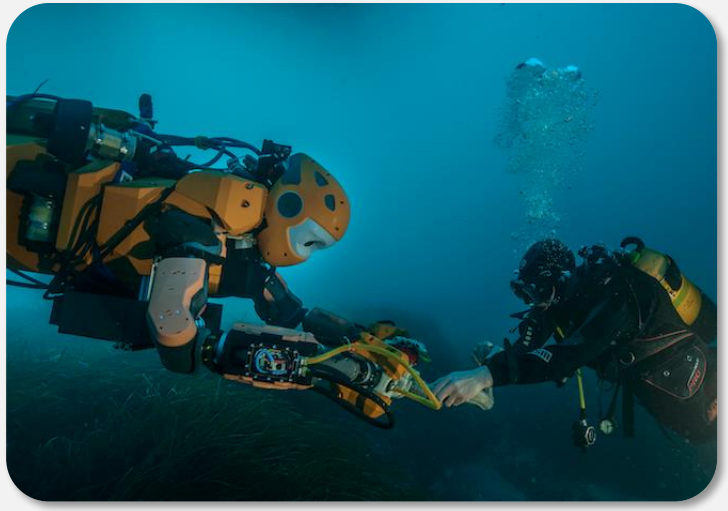
Massachusetts Institute of Technology



Global Aspect

05

Who are leading?



Stanford University

University of Tokyo

Global Aspect

06

Who are leading?

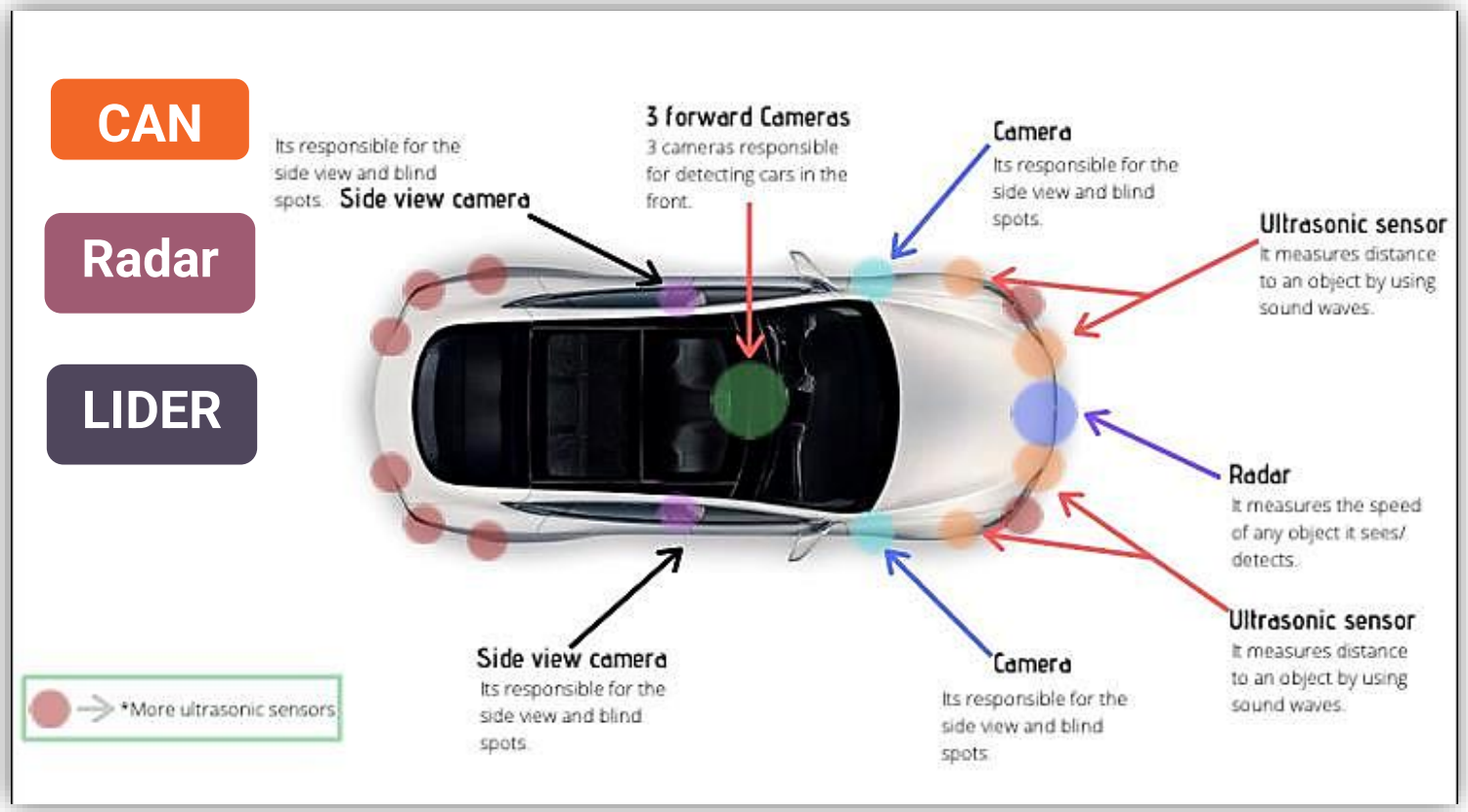
University of California, Berkeley

University of Pennsylvania

Global Aspect

07

Who are leading?

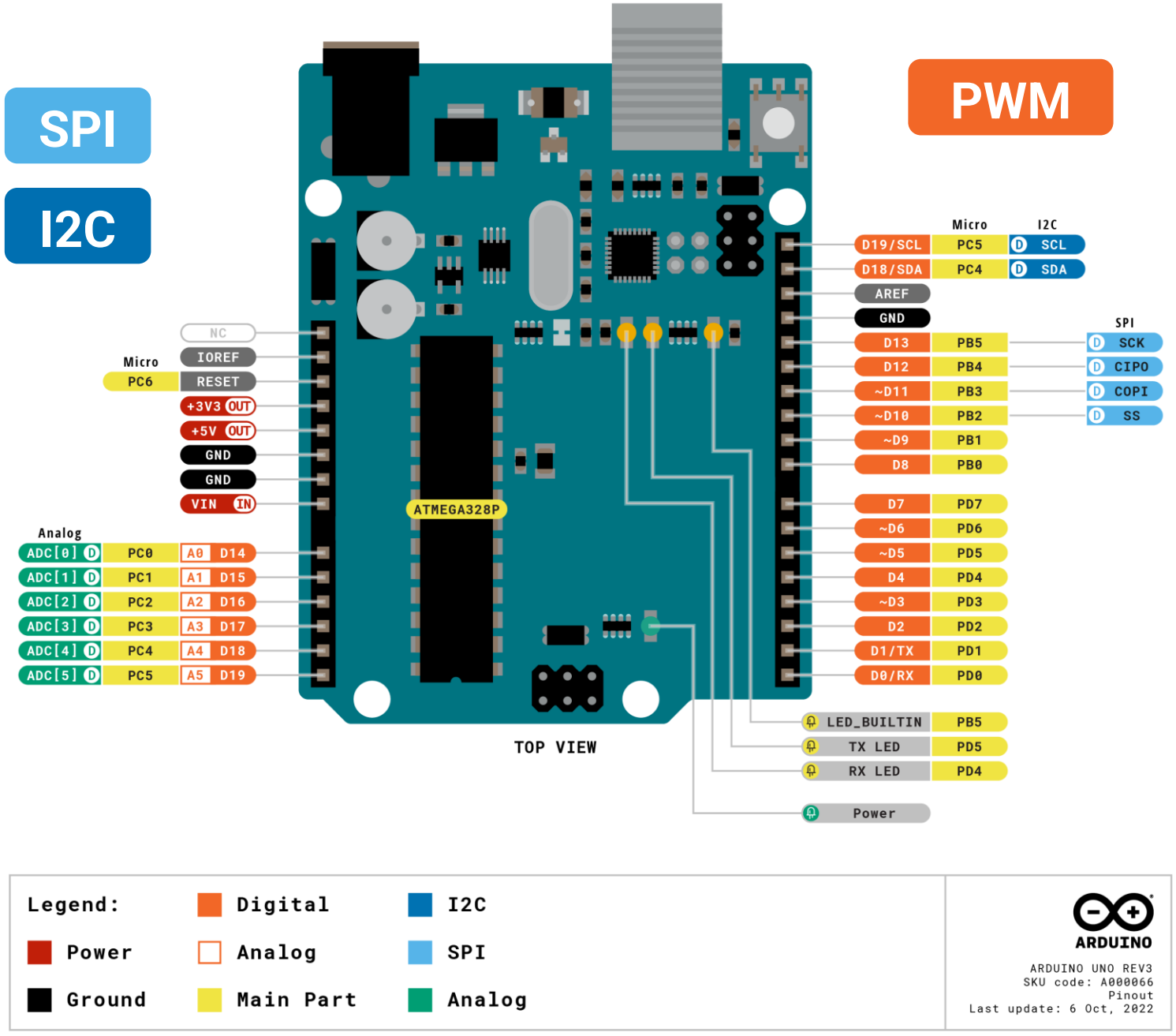


TESLA

Arduino

01

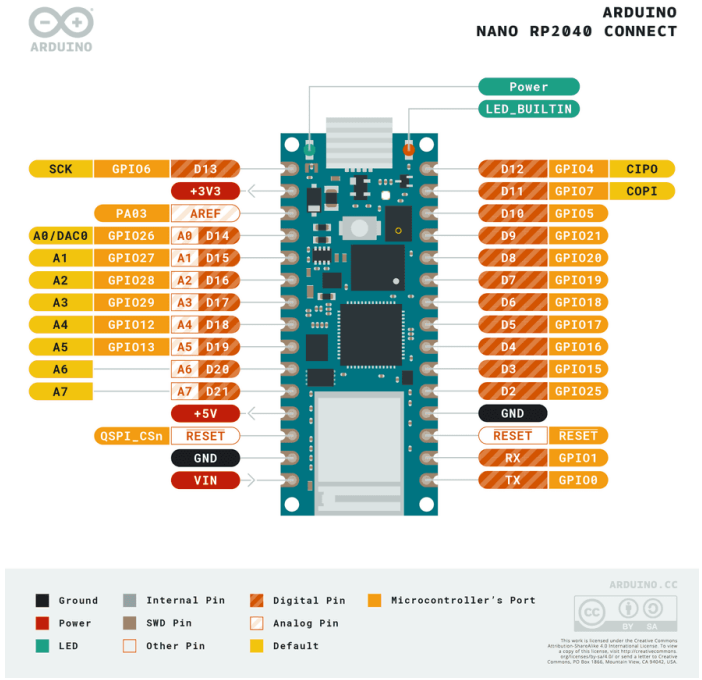
Dev Boards

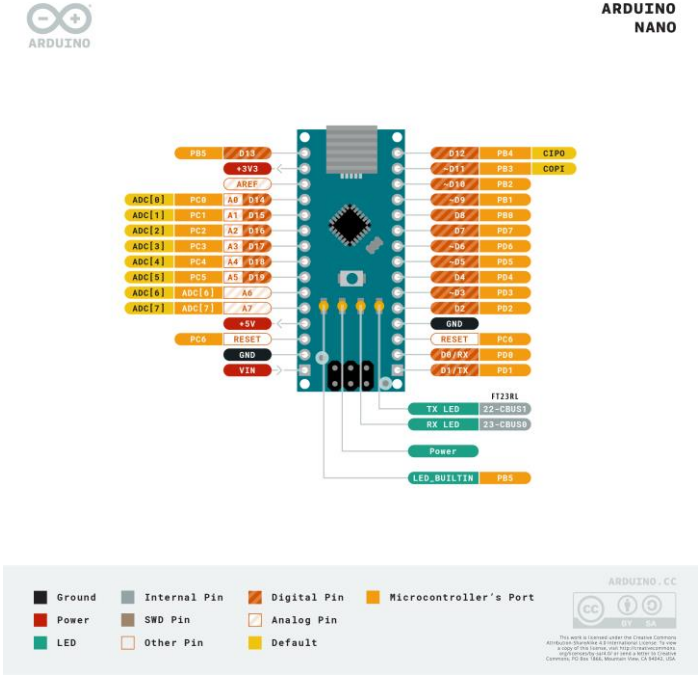


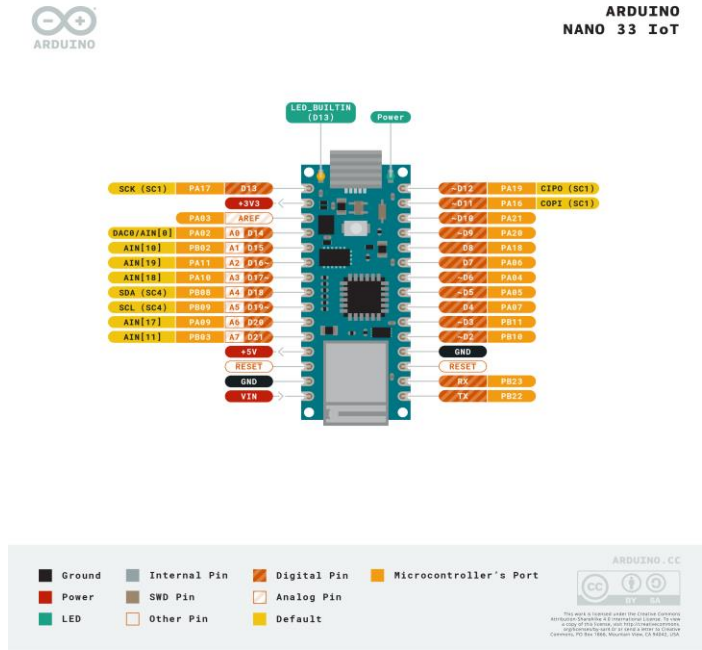
Arduino

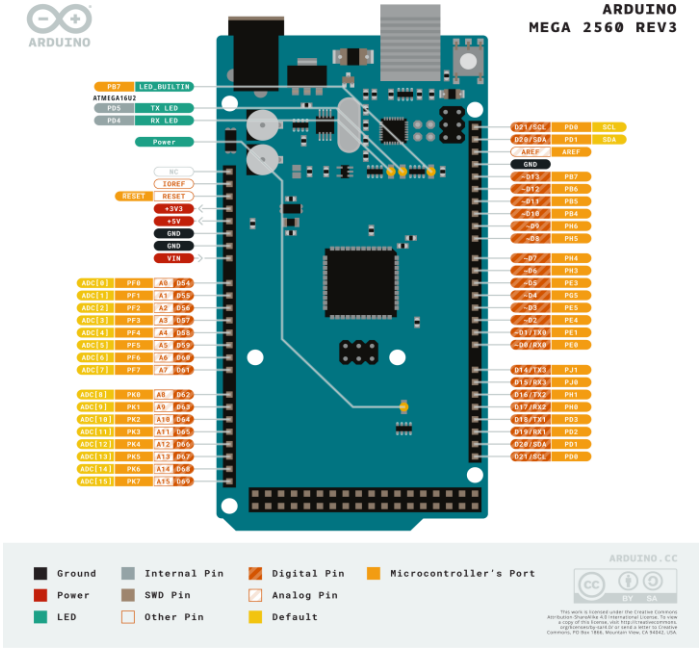
02

Dev Boards









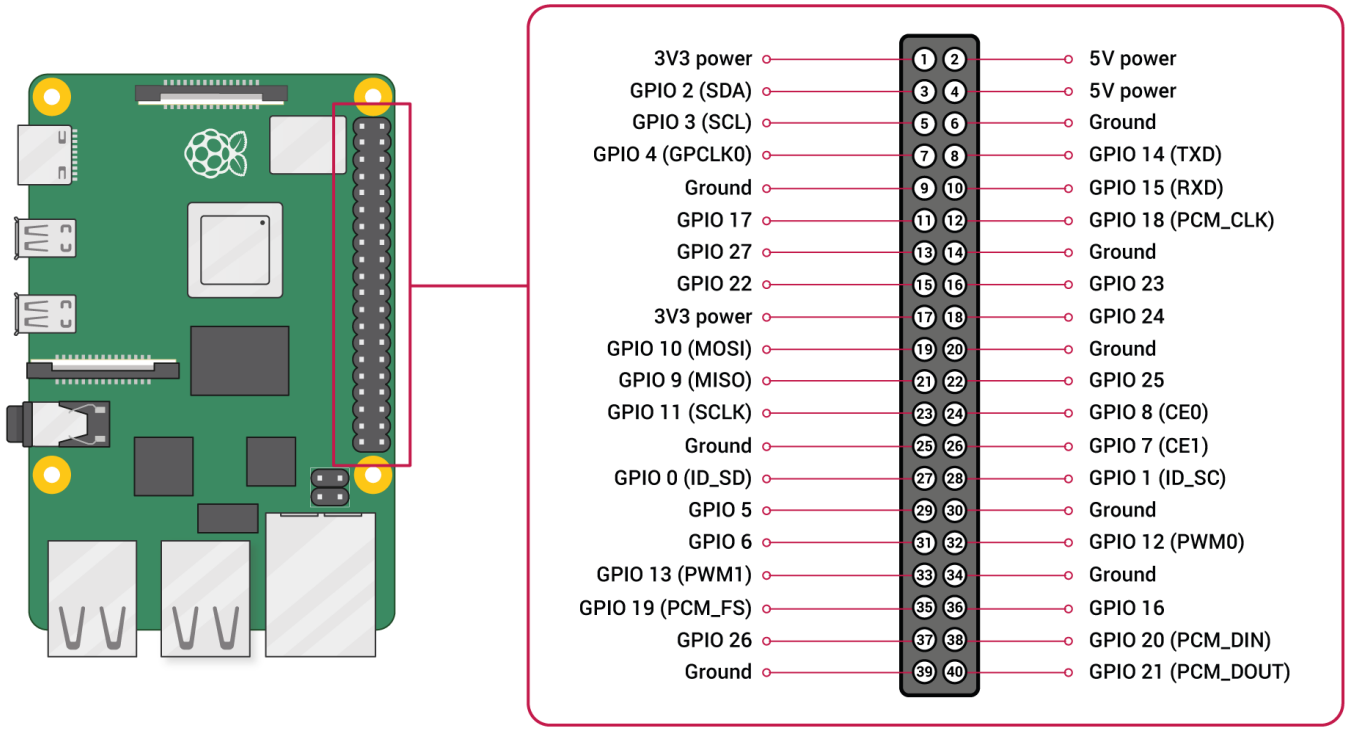
Raspberry Pi

03

Dev Boards

Raspberry Pi

Mini Computer



ESP32

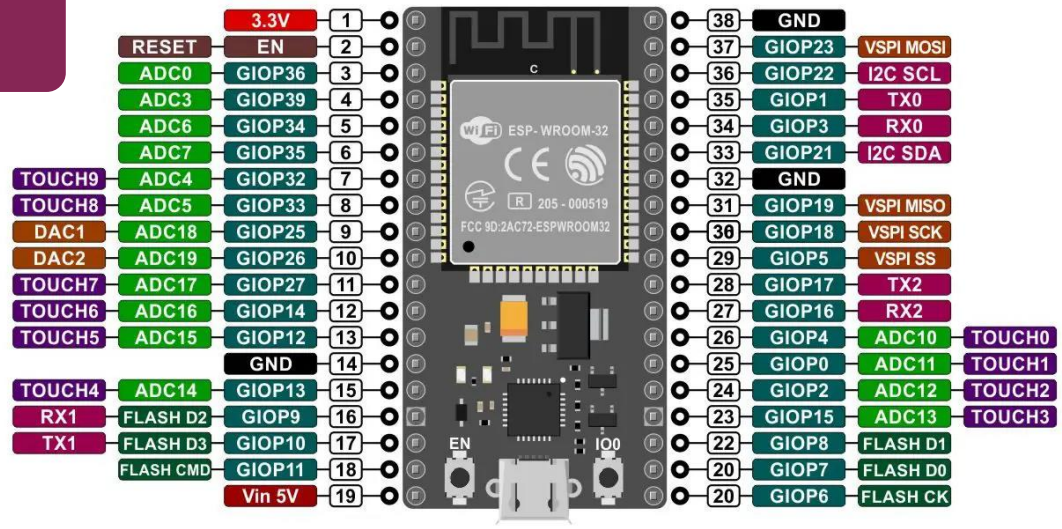
04

Dev Boards

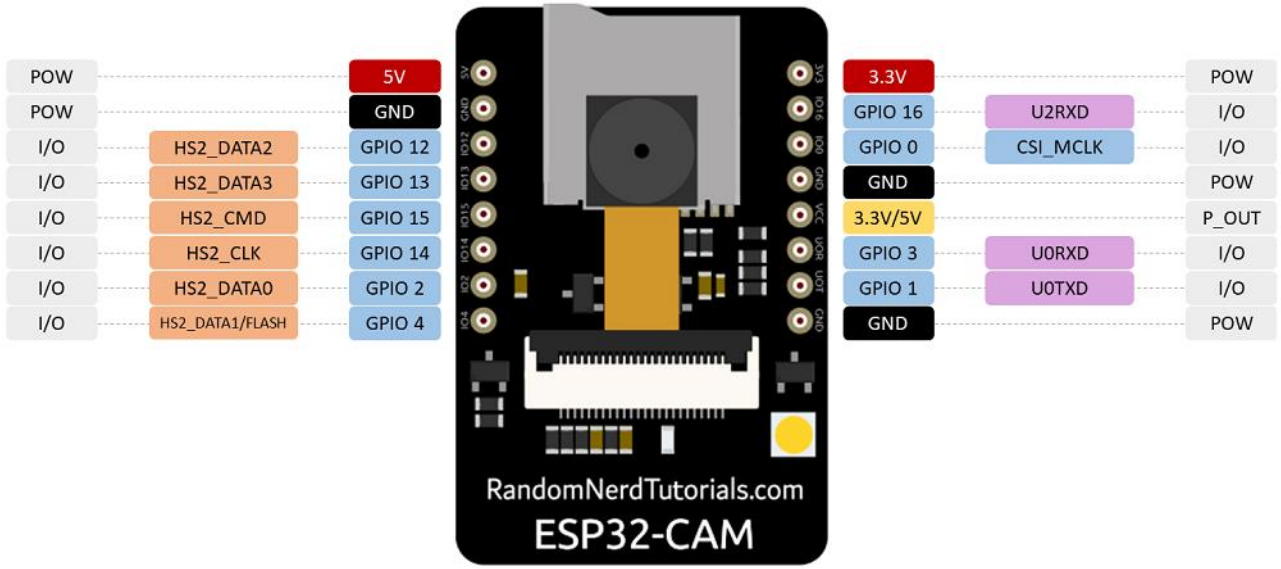
ESP32

Wi-Fi

BLE



ESP32-CAM

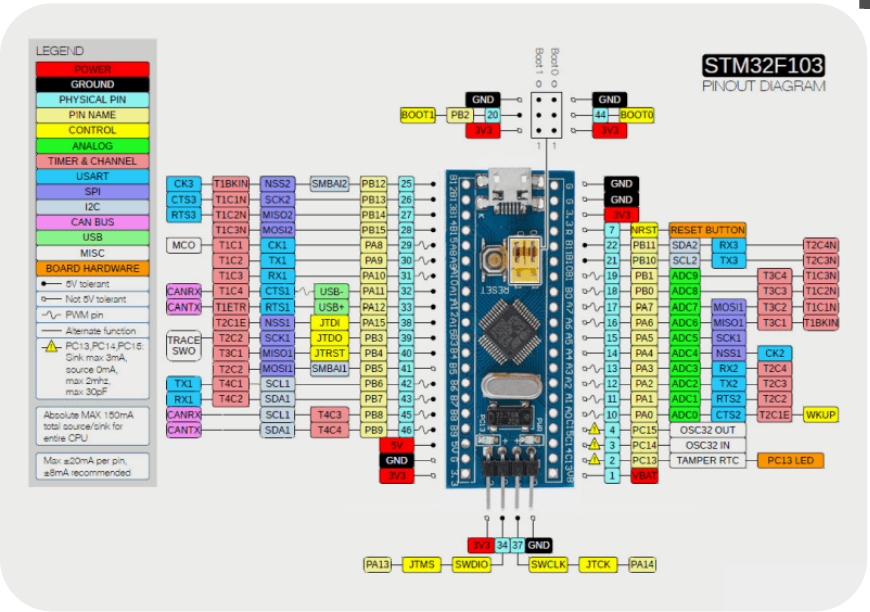


STM32

05

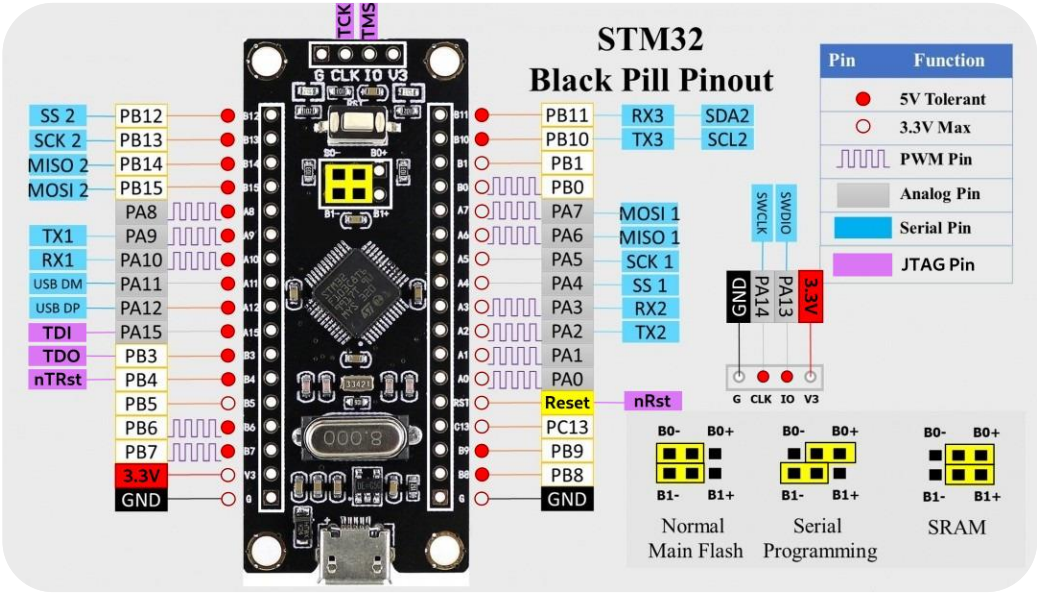
Dev Boards

Blue Pill



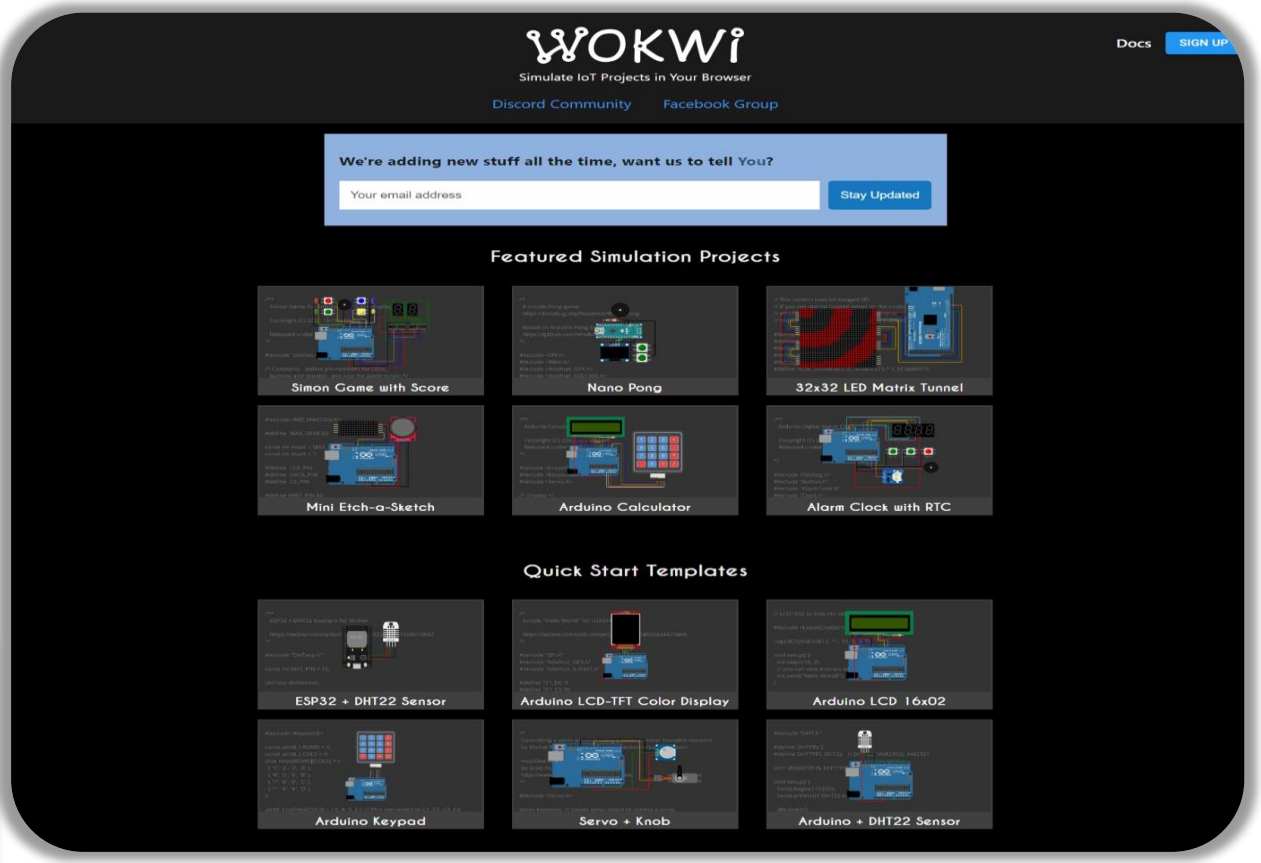
72 MHz

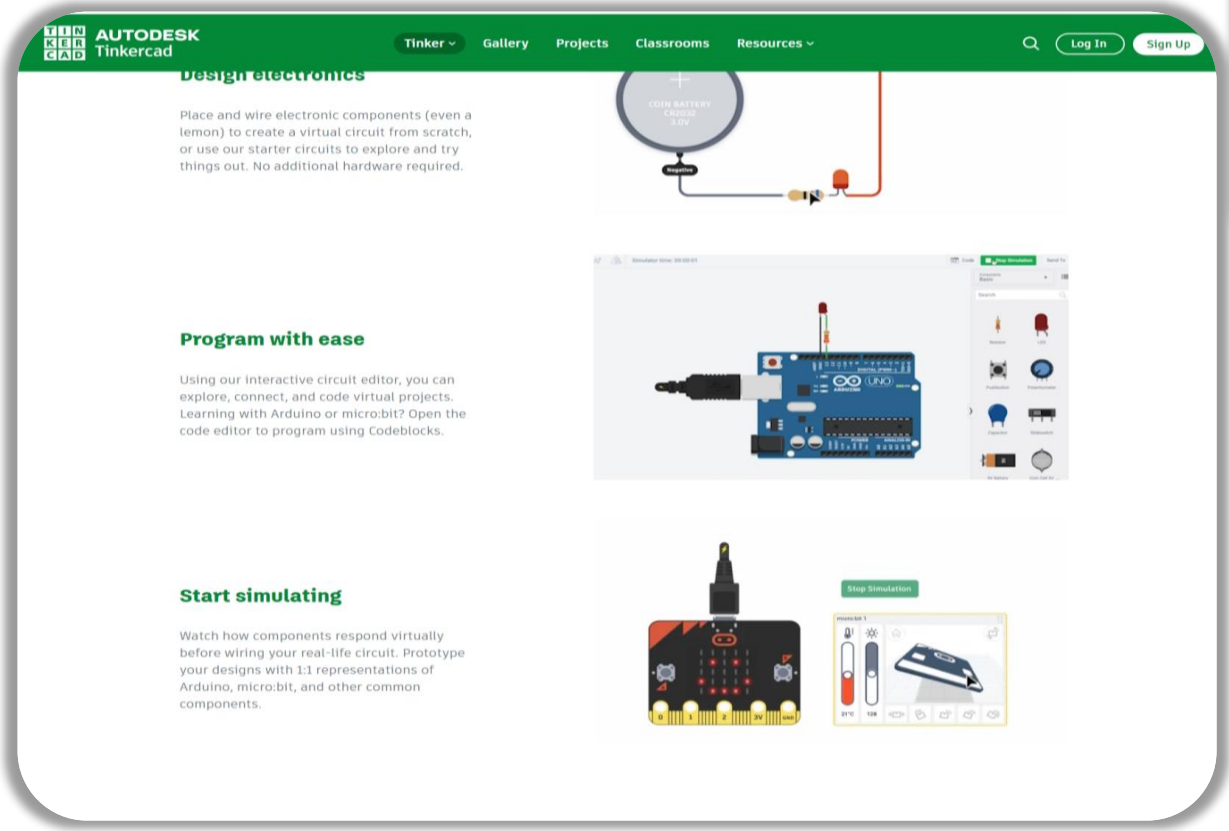
Black Pill



Simulations

Wokwi





AUTODESK Tinkercad

Idea

AUTODESK Instructables

PROJECT HUB

CIRCUIT DIGEST

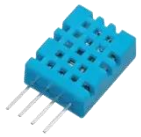
IOT PROJECT OF THE YEAR

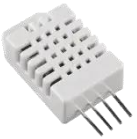
Resources

01

Sensors

- Temperature Sensor
- Humidity Sensor





DHT11		DHT22
0 - 50°C / ± 2°C	*Temperature Range*	-40 - 125 °C / ± 0.5 °C
20 - 80% / ± 5%	*Humidity Range*	0 - 100 % / ± 2-5%
1Hz (one reading every second)	*Sampling Rate*	0.5 Hz (one reading every two seconds)
15.5mm x 12mm x 5.5mm	*Body Size*	15.1mm x 25mm x 7.7mm
3 - 5V	*Operating Voltage*	3 - 5V
2.5mA	*Max Current During Measuring*	2.5mA

BH1750FVI

- Light Sensor

- Pressure Sensor

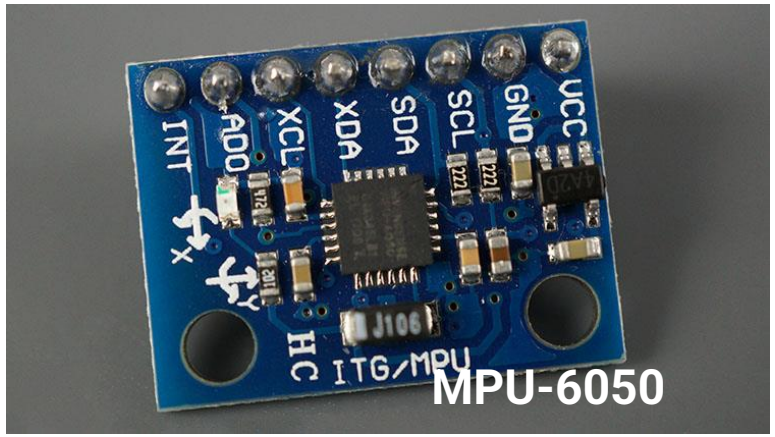
Resources

02

Sensors

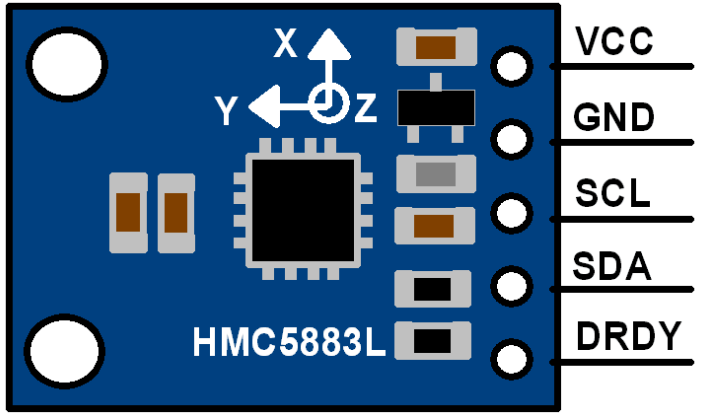
- Gyroscope

  Accelerometer Sensor



- Ultrasonic Sensor

- Magnetometer Module



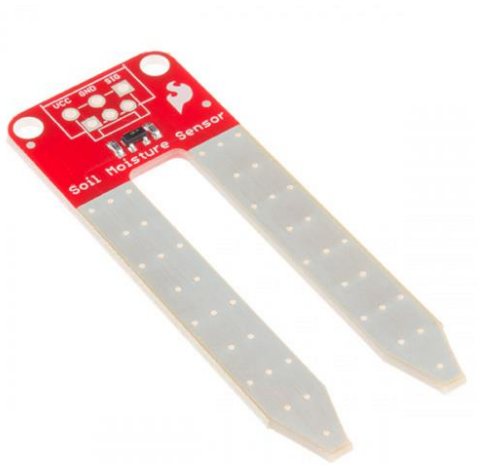
HMC5883L

Resources

03

Sensors

- PIR Motion Sensor



- Soil Moisture Sensor

- Flammable Gas & Smoke Sensor

MQ-2

Resources

04

Sensors

- Gas Sensor

MQ-135

- Heart Rate Sensor

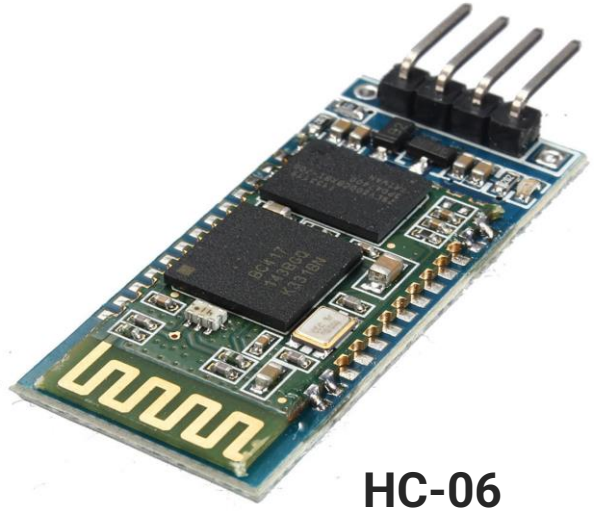
MAX30102

Resources

04

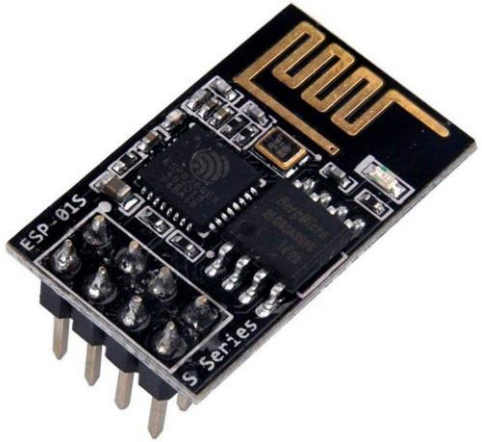
Connectivity

- Bluetooth Module



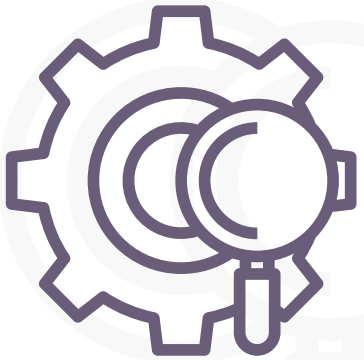
HC-06

- Wifi Module



ESP8266 ESP-01S

Where To Get?



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ROBOTICSBD
DISCOVER YOURSELF

SPEEDYTECH
DRIVE YOUR BEST FUTURE

Expenses ?

Real-life Demo

Real-life Demo

Braille Translator

Conclusion

IoT is not just about connecting things; it's about connecting possibilities and creating a smarter, more connected world.