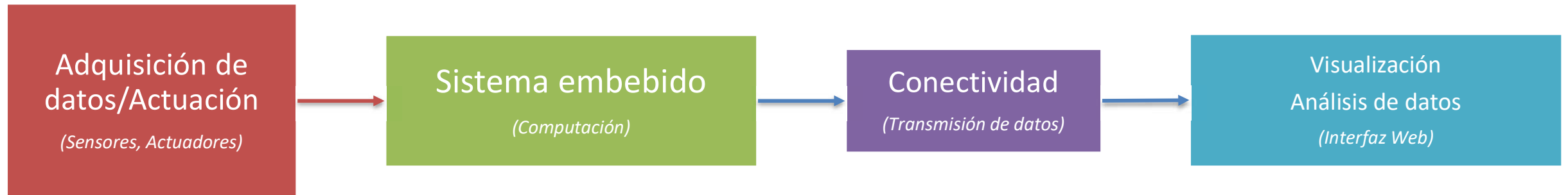


Aplicaciones del IoT

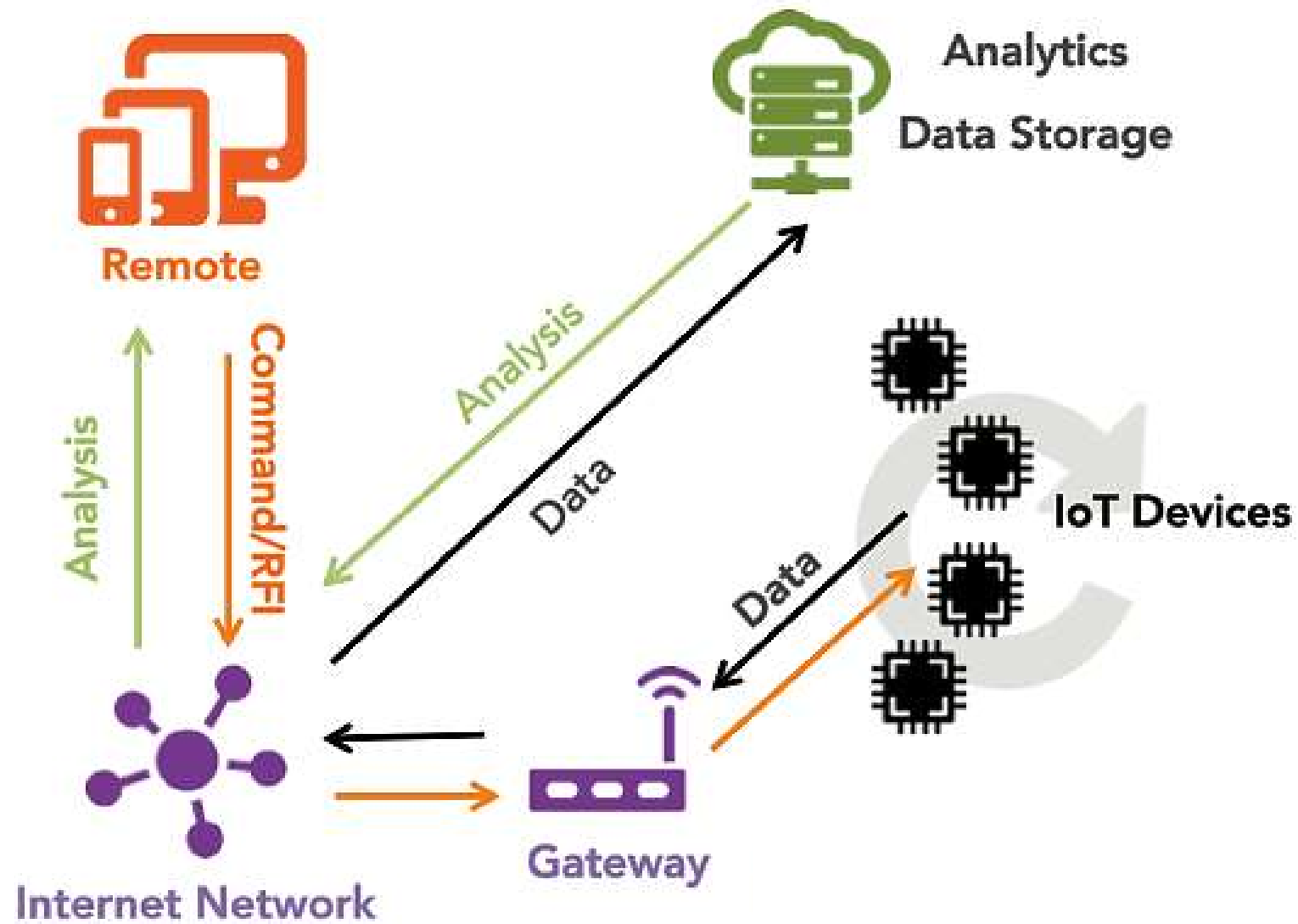
Marco Teran

Modelo básico de IoT

Un modelo simple IoT contemplaría los siguientes módulos:

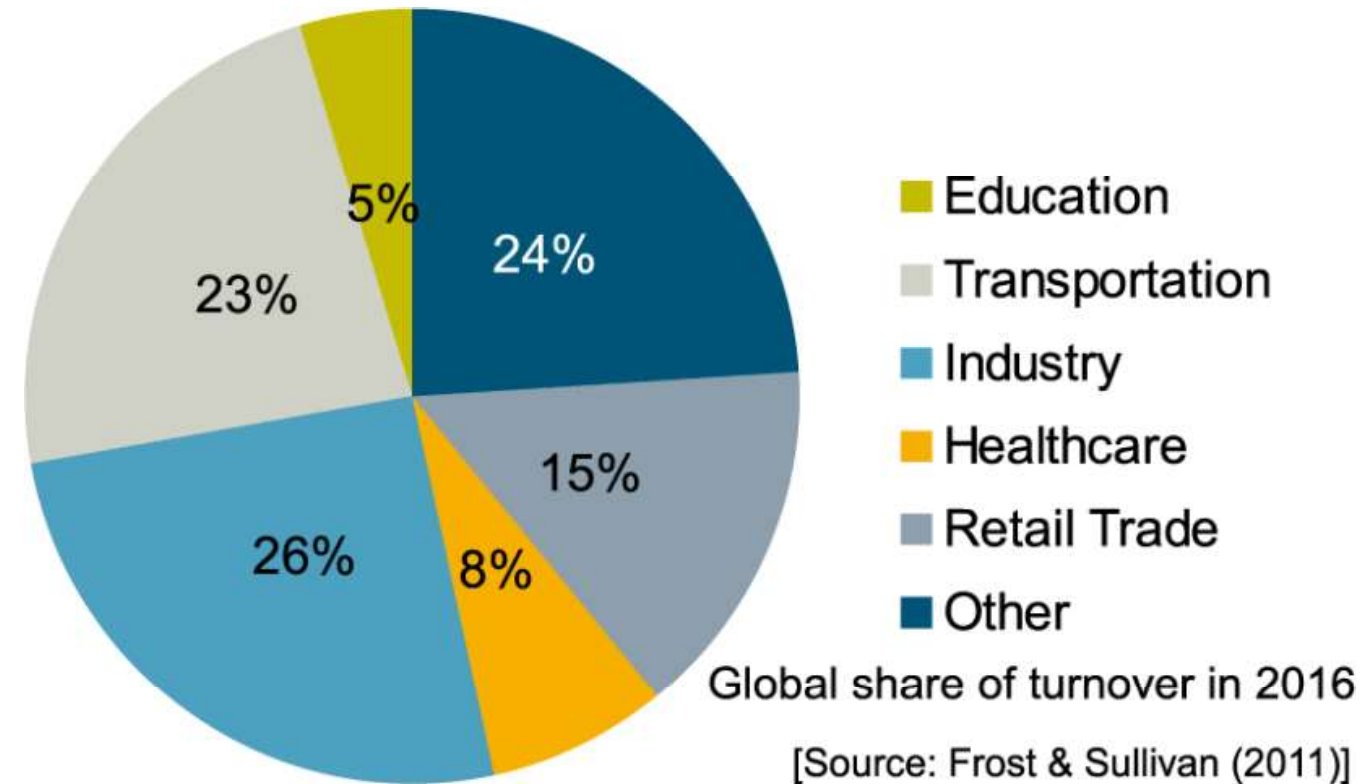


Ecosistema del IoT

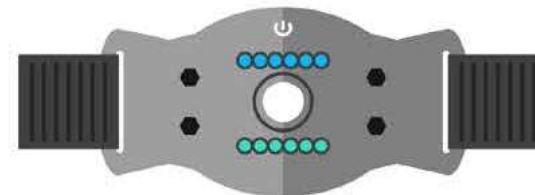
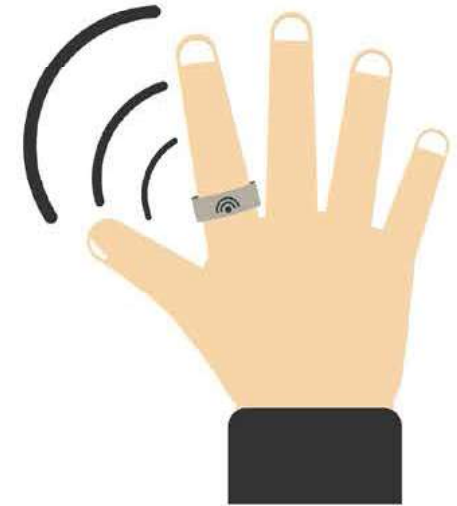


Aplicaciones del IoT

El IoT está en todos lados



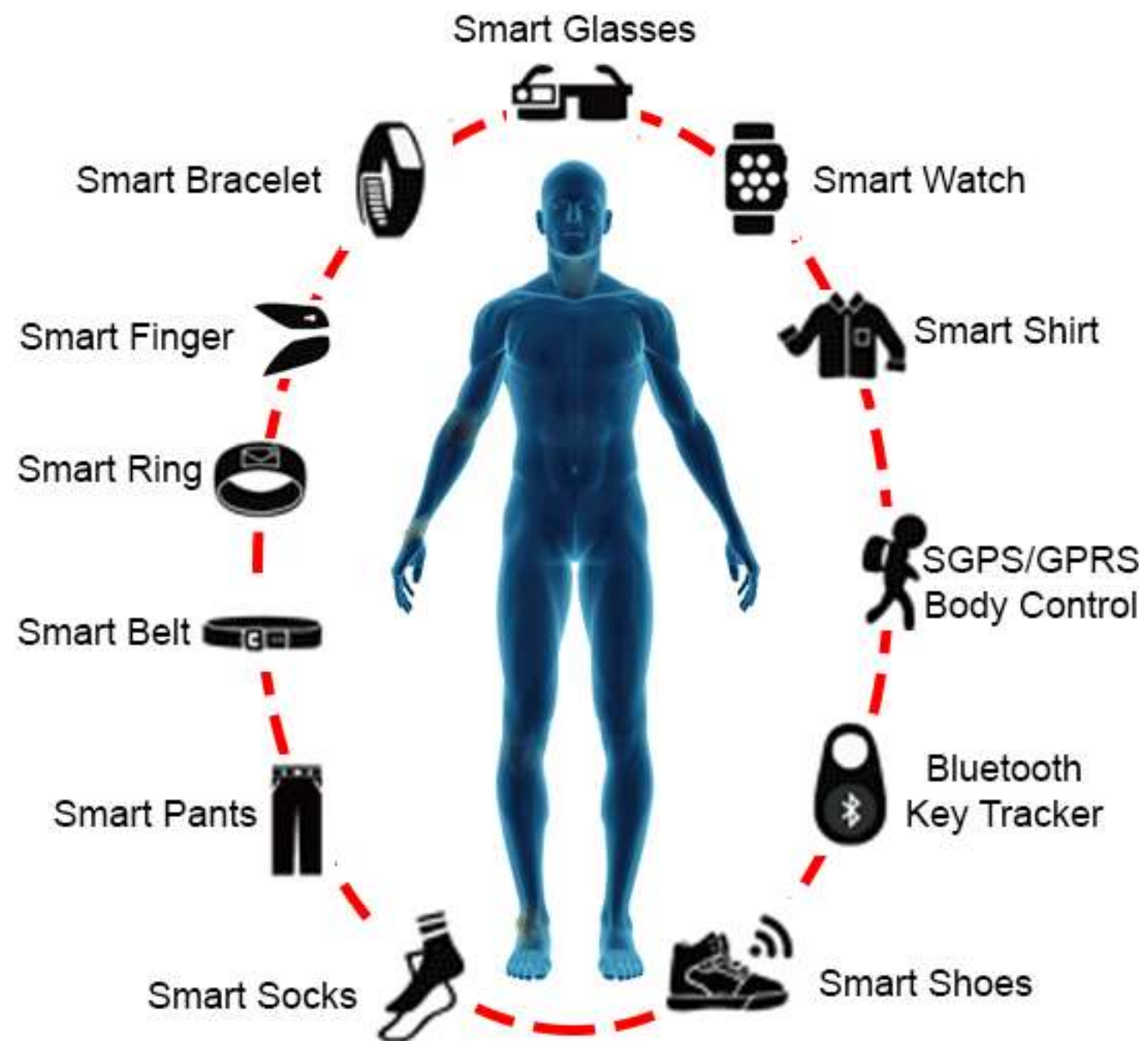
Vestibles (wearables)













The Global Wearables Market Is All About the Wrist

Estimated worldwide wearable device shipments (in million units)

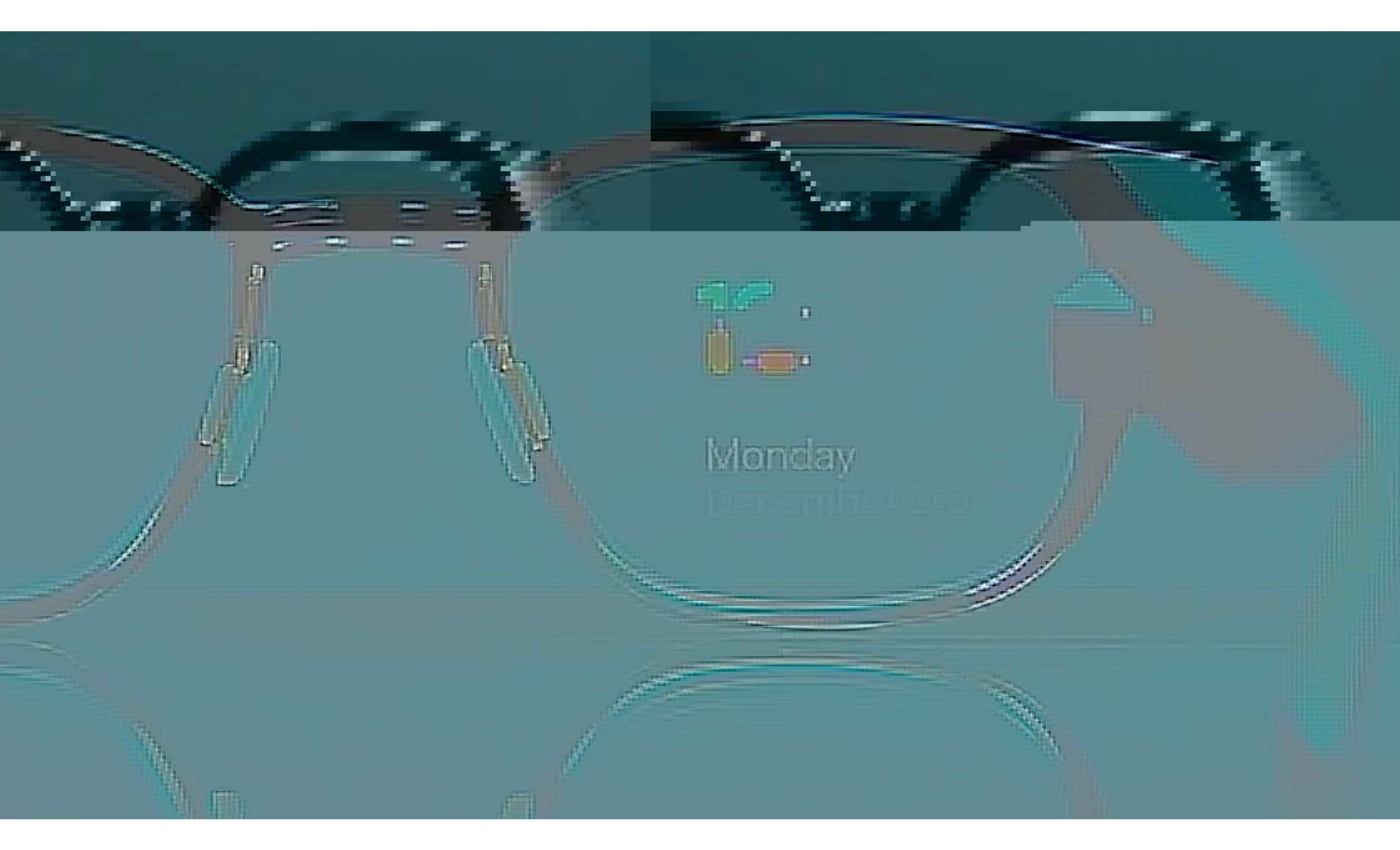






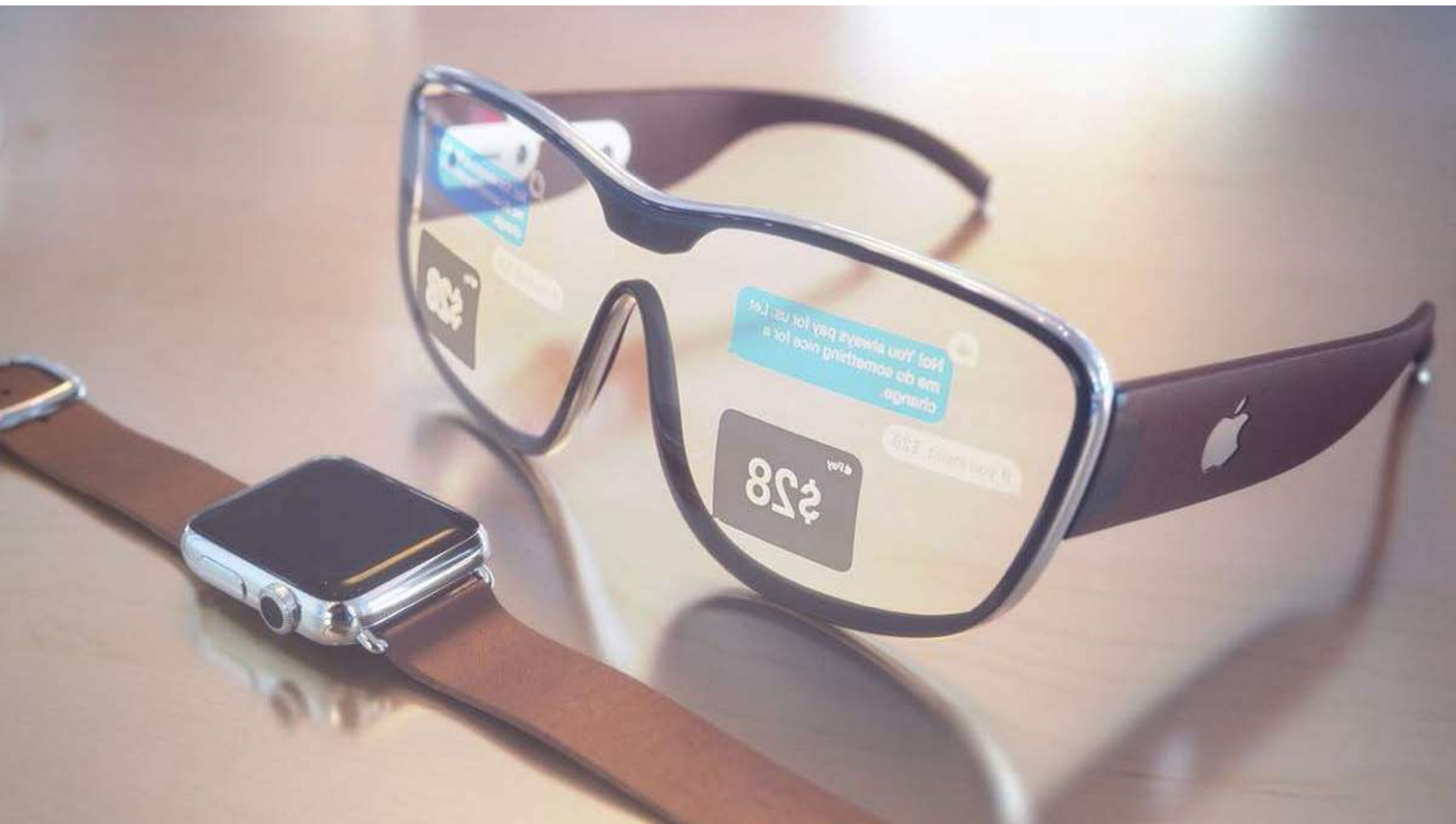


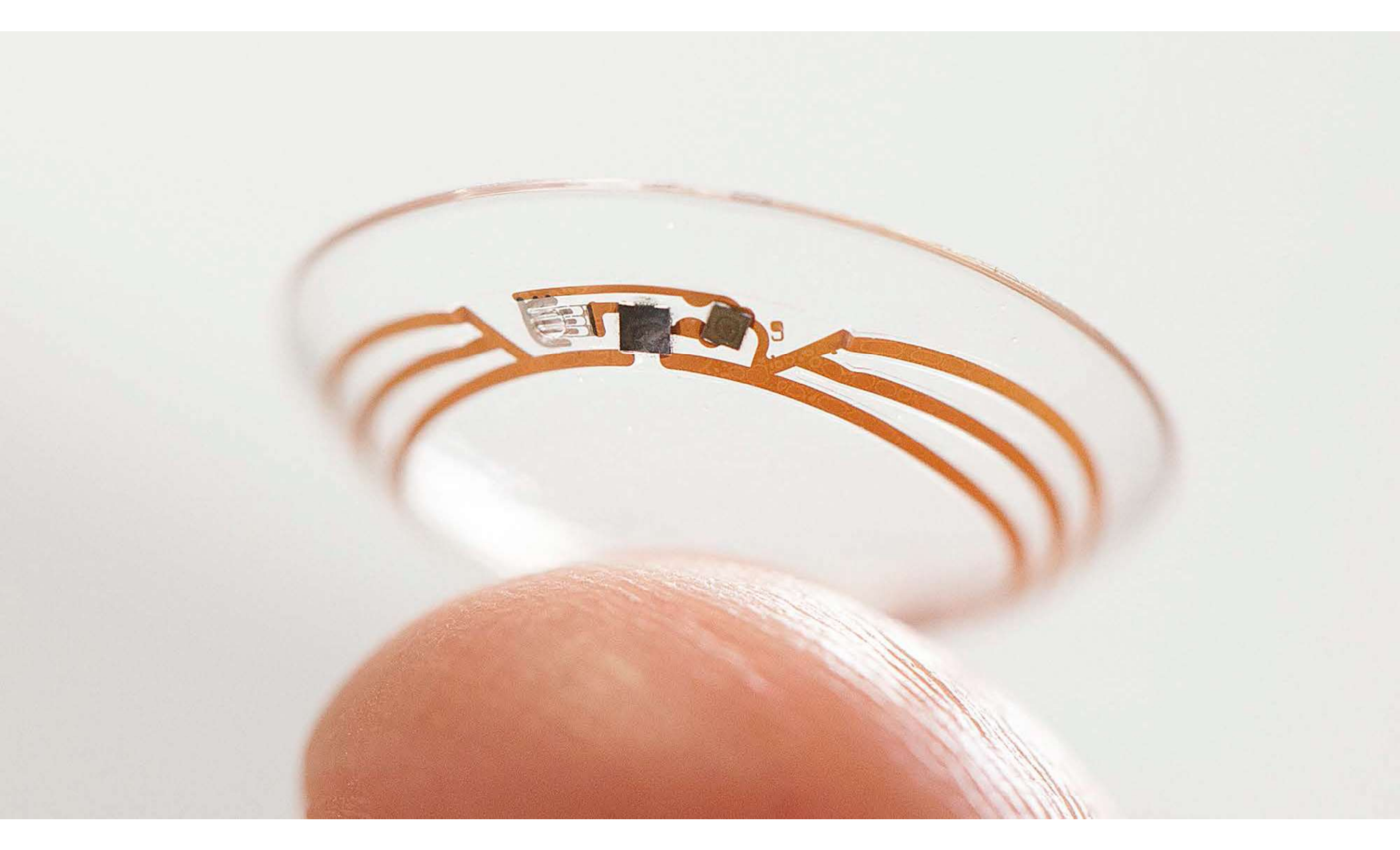


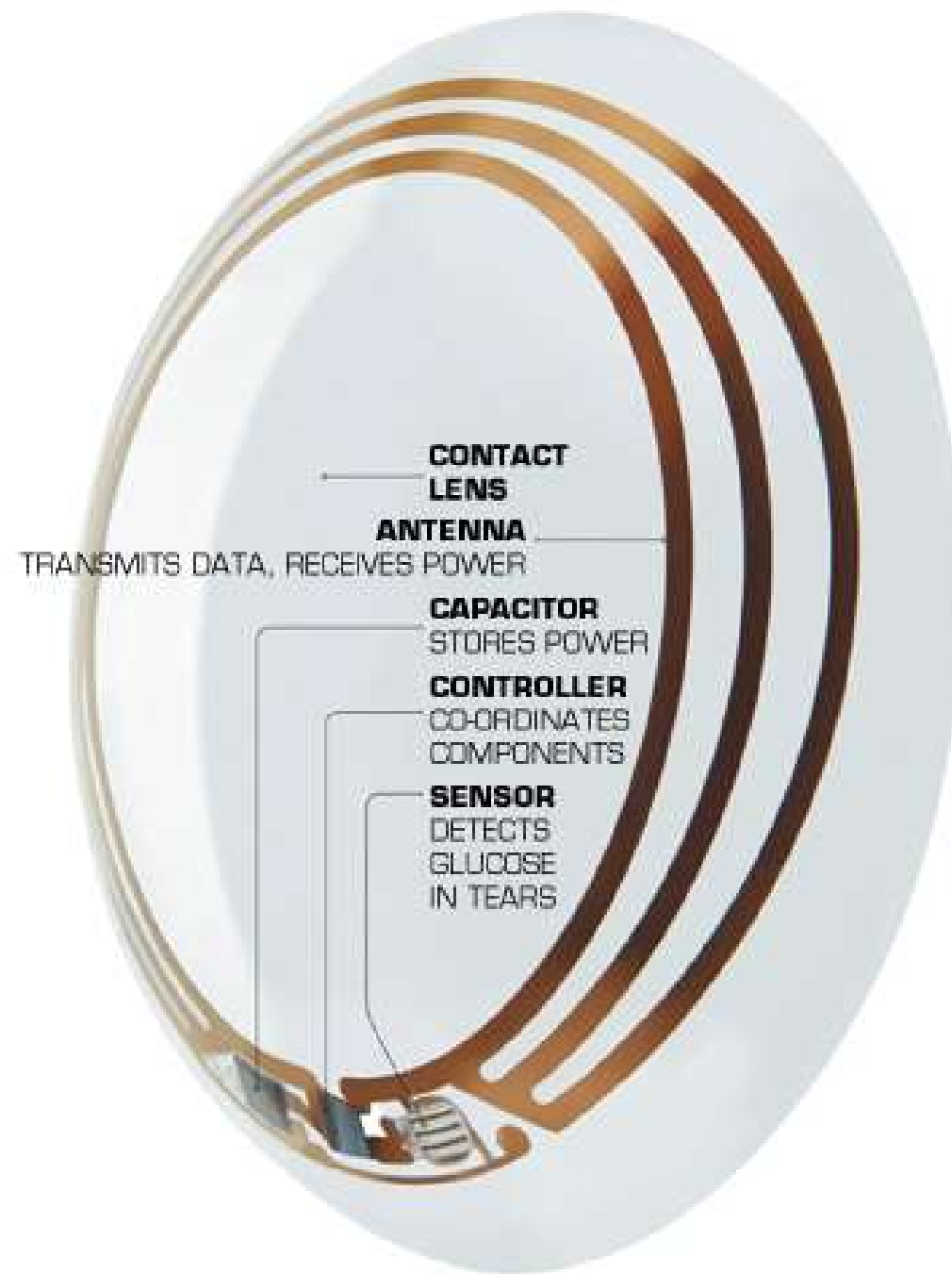






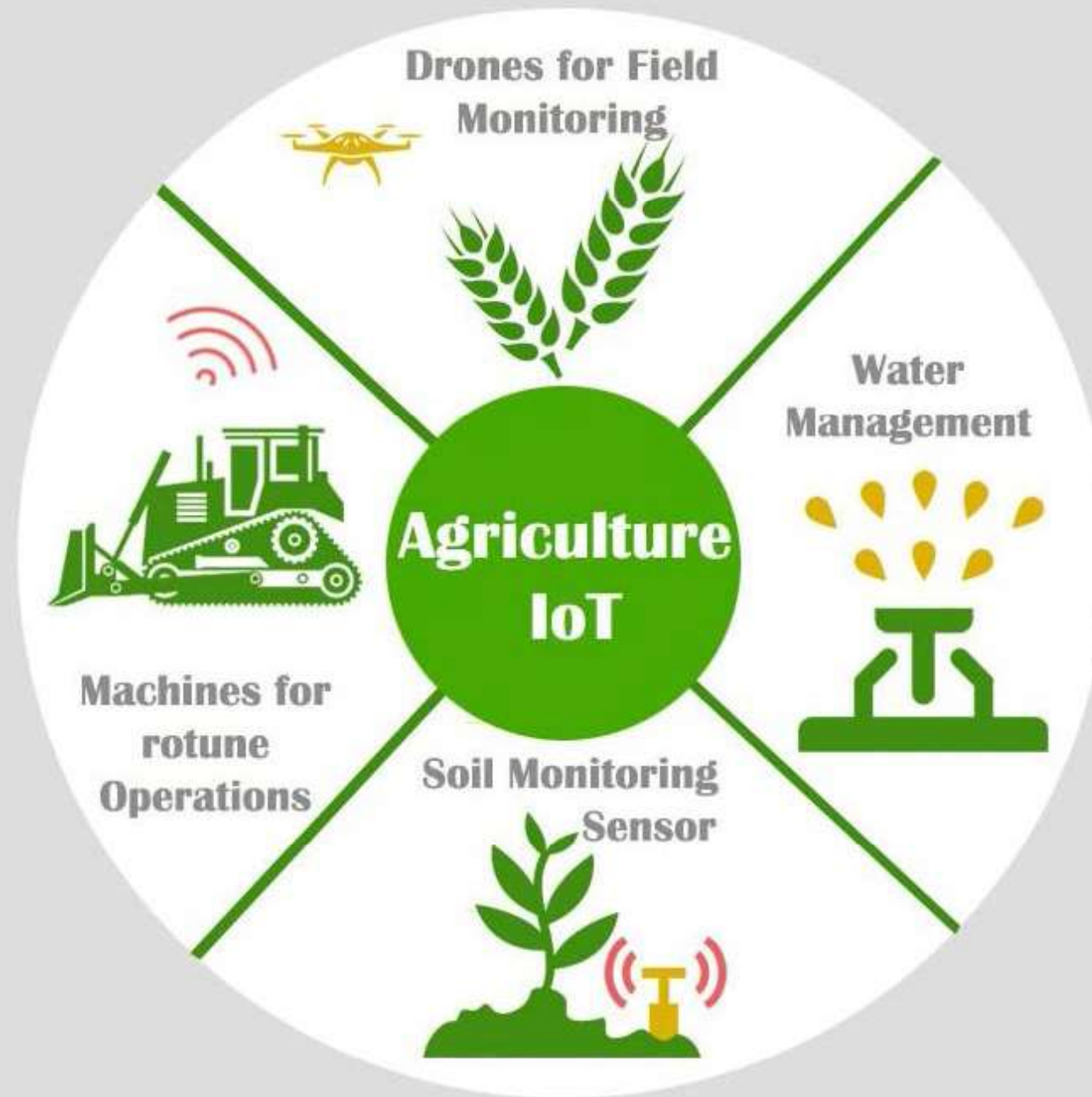






Agricultura de precisión







FUTURE FARMS

small and smart

SURVEY DRONES

Aerial drones survey the fields, mapping weeds, yield and soil variation. This enables precise application of inputs, mapping spread of pernicious weed blackgrass could increase wheat yields by 2-5%.

FLEET OF AGRIBOTS

A herd of specialised agribots tend to crops, weeding, fertilising and harvesting. Robots capable of microdot application of fertiliser reduce fertiliser cost by 99.9%.



FARMING DATA

The farm generates vast quantities of rich and varied data. This is stored in the cloud. Data can be used as digital evidence reducing time spent completing grant applications or carrying out farm inspections saving on average £5,500 per farm per year.

TEXTING COWS

Sensors attached to livestock allowing monitoring of animal health and wellbeing. They can send texts to alert farmers when a cow goes into labour or develops infection increasing herd survival and increasing milk yields by 10%.

SMART TRACTORS

GPS controlled steering and optimised route planning reduces soil erosion, saving fuel costs by 10%.

Ciudades inteligentes



IoT en la Manufactura





INDUSTRIAL

Internet of things

Connection

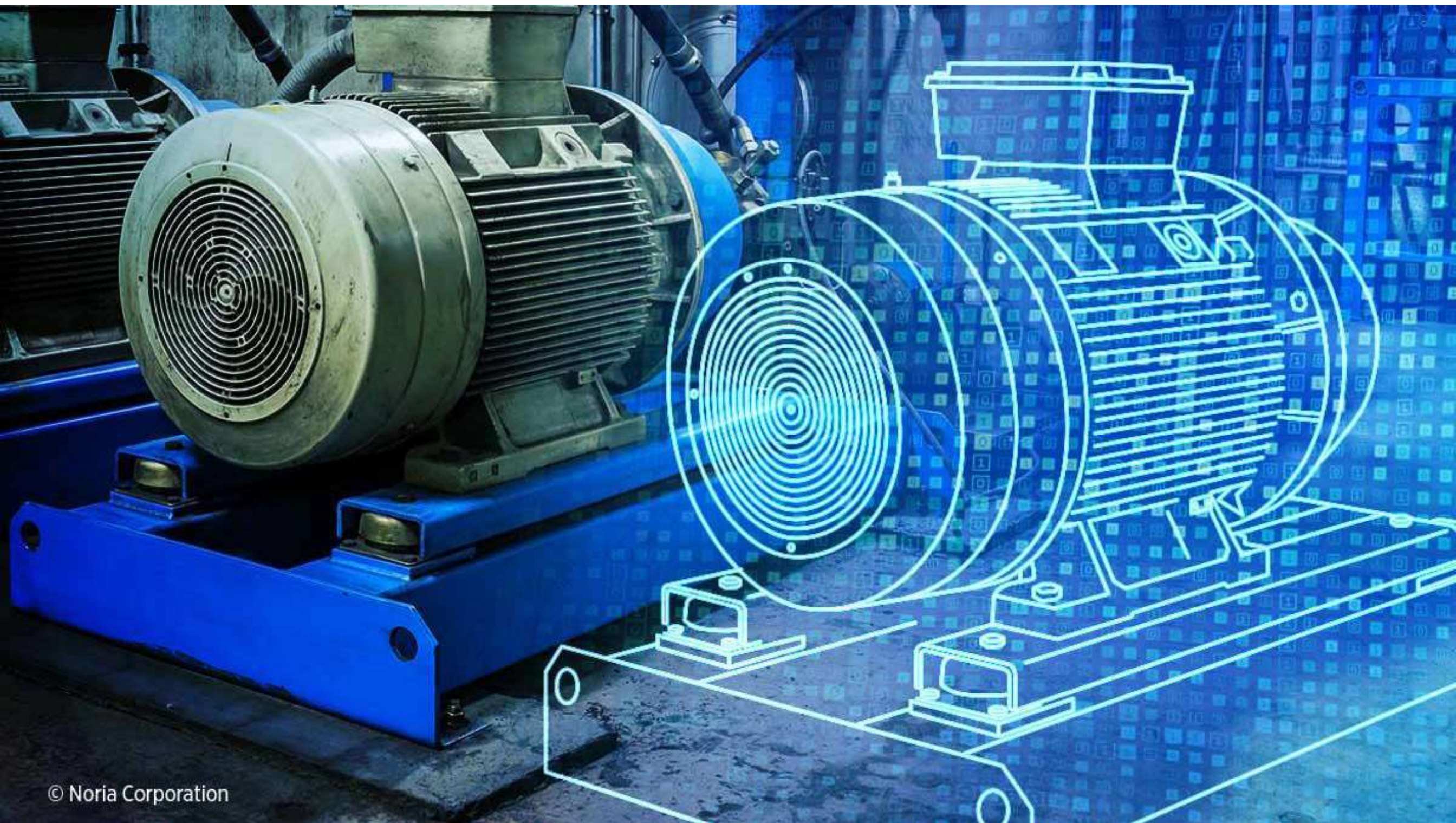
Communicate

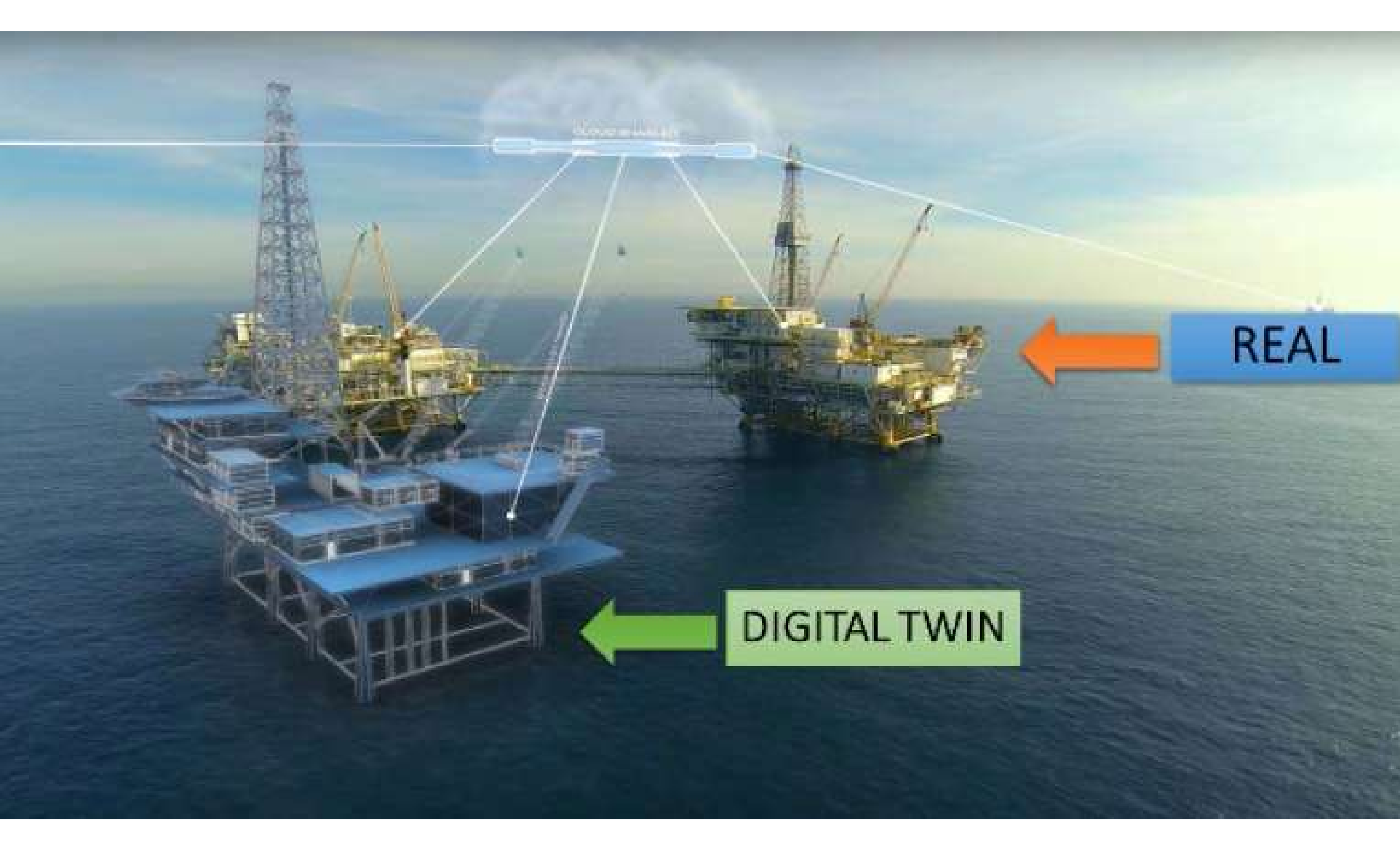
Things

Process

Data

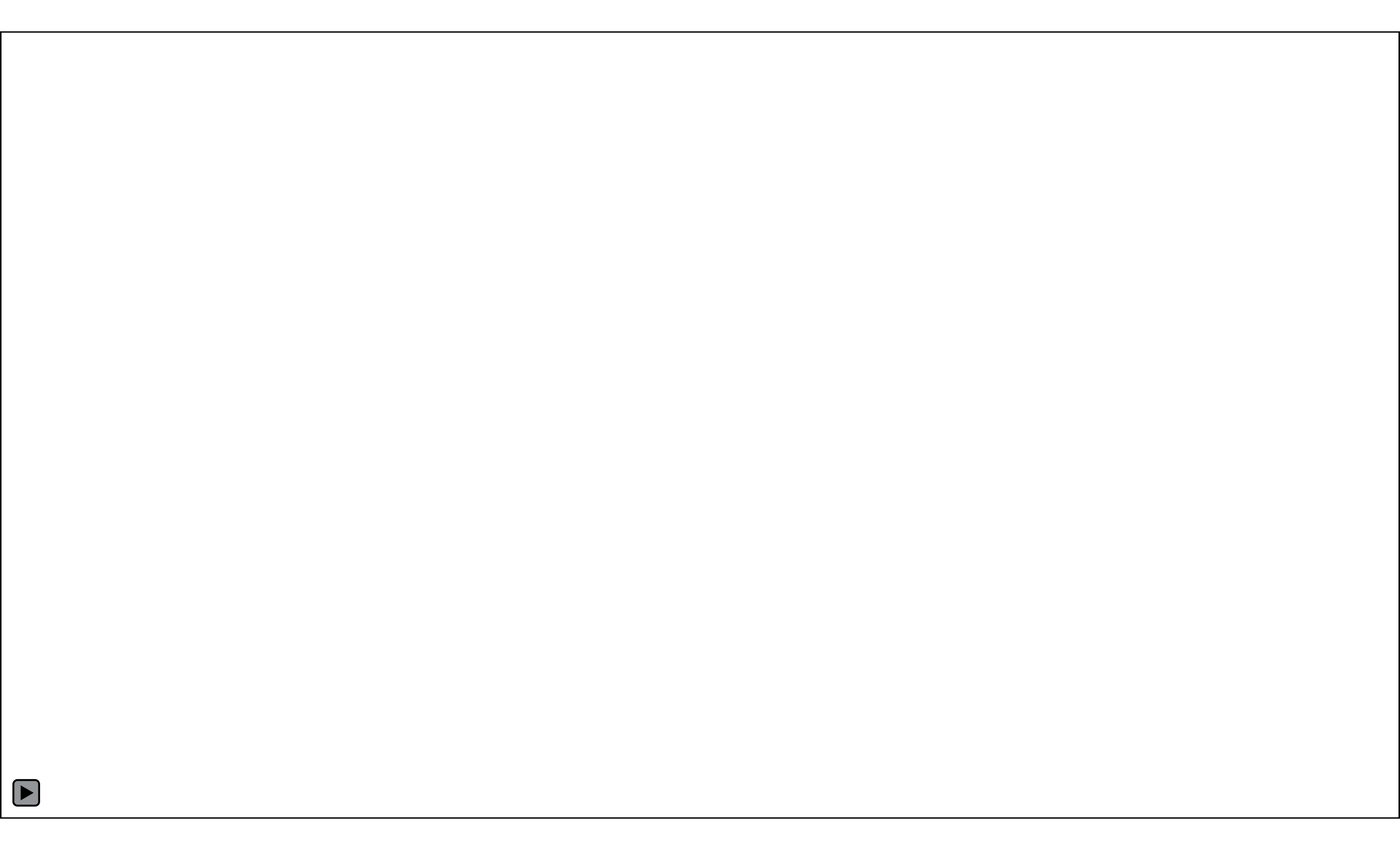
Control 



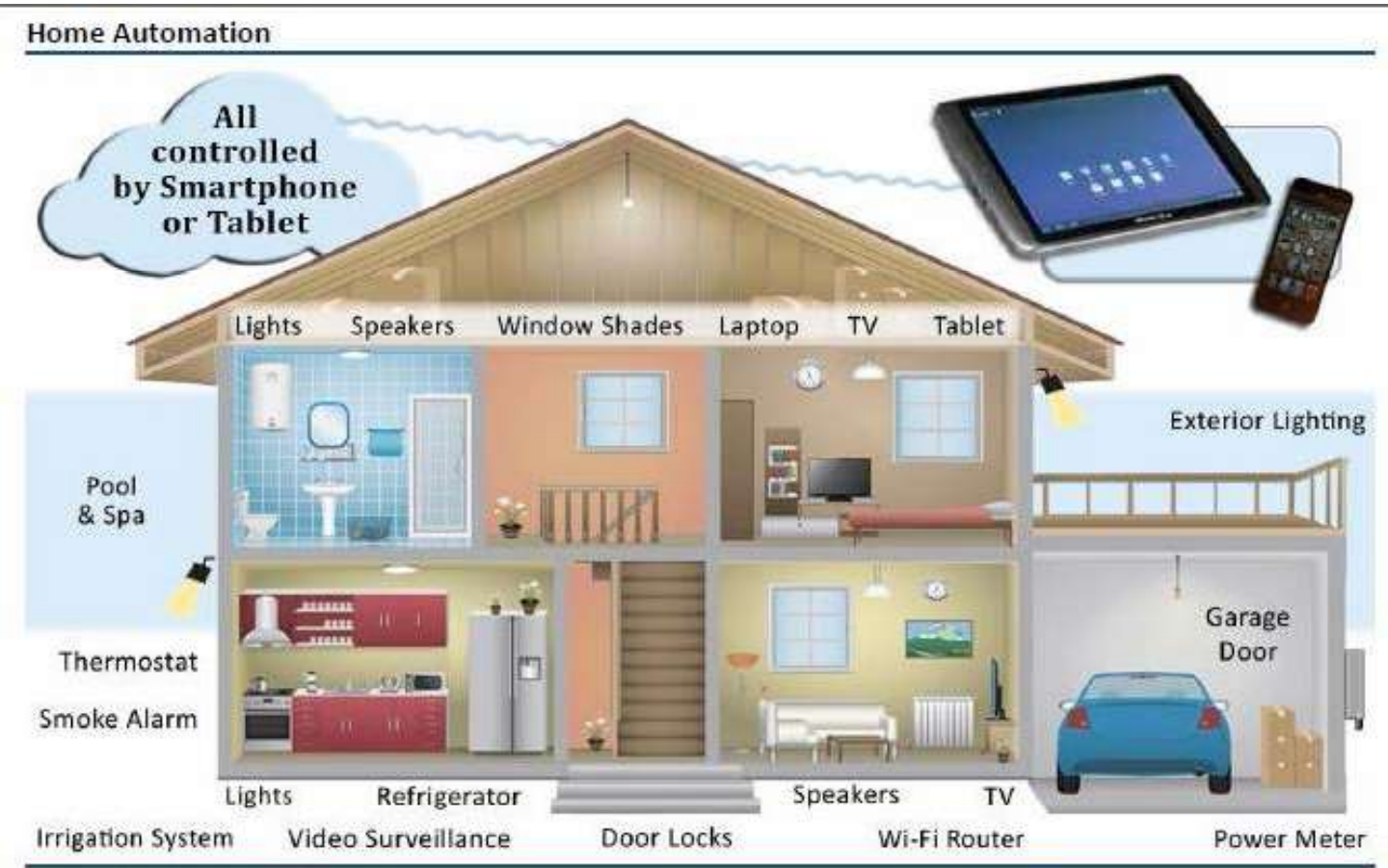


REAL

DIGITAL TWIN



Domótica (Smart Home)



Source: Raymond James research.



📶 SMART HOME 📶



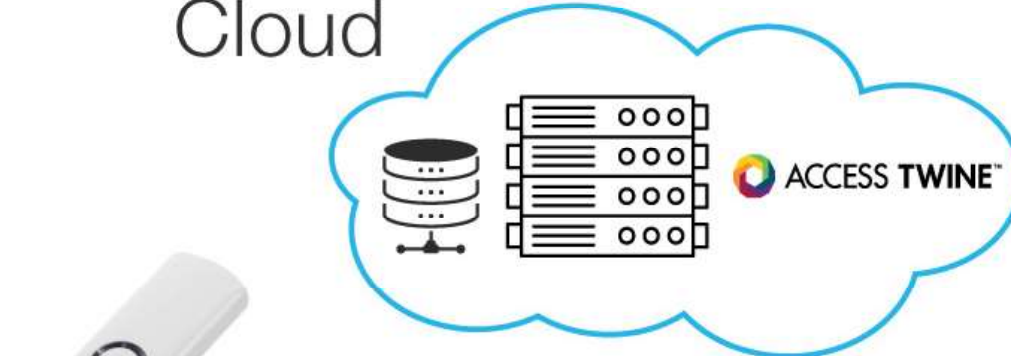


IoT World



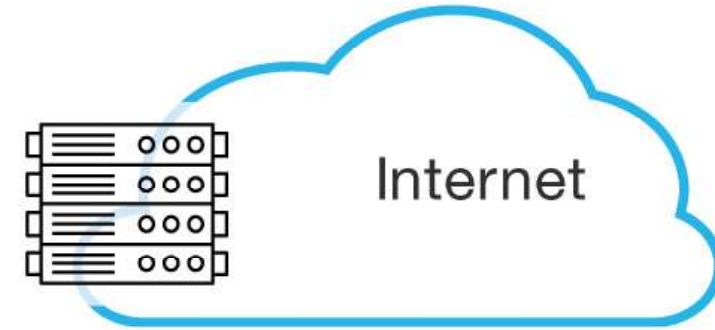
- Door & window sensors
- Water & flood sensors
- Door locks
- Outlets
- Light bulbs
- Garage door openers
- Thermostats
- Energy management
- Shade controls
- Motion detectors
- Security / Surveillance cameras

Cloud

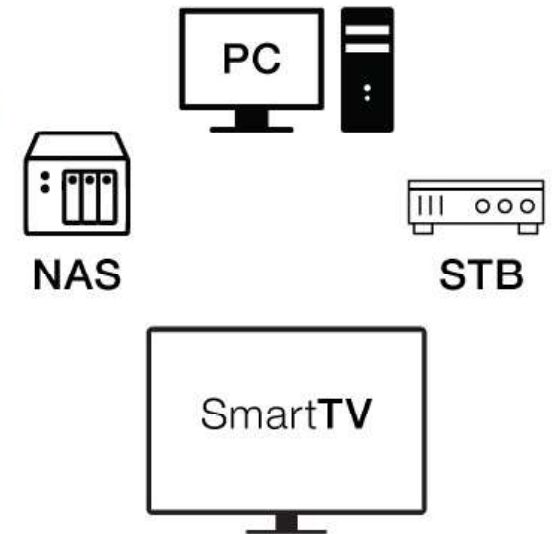


Control Devices

Multimedia World



Operator head-end





amazon alexa



Hey Google



Hey Siri



■ Play your favorite music



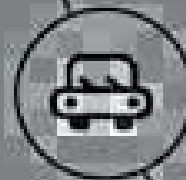
Order pizza from Domino's



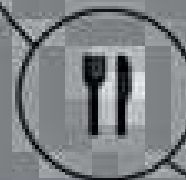
Voice control your home

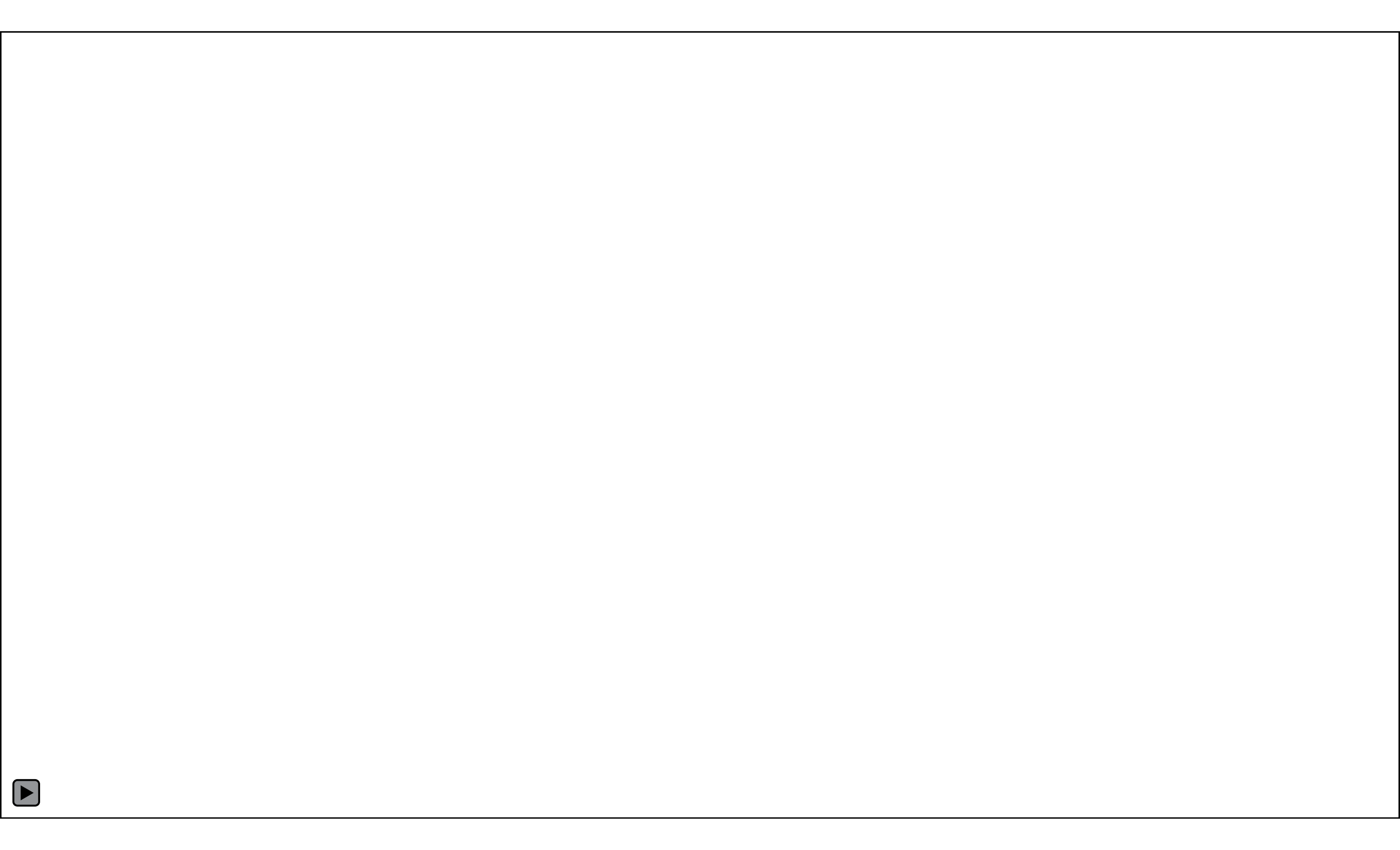


Request rides from Uber



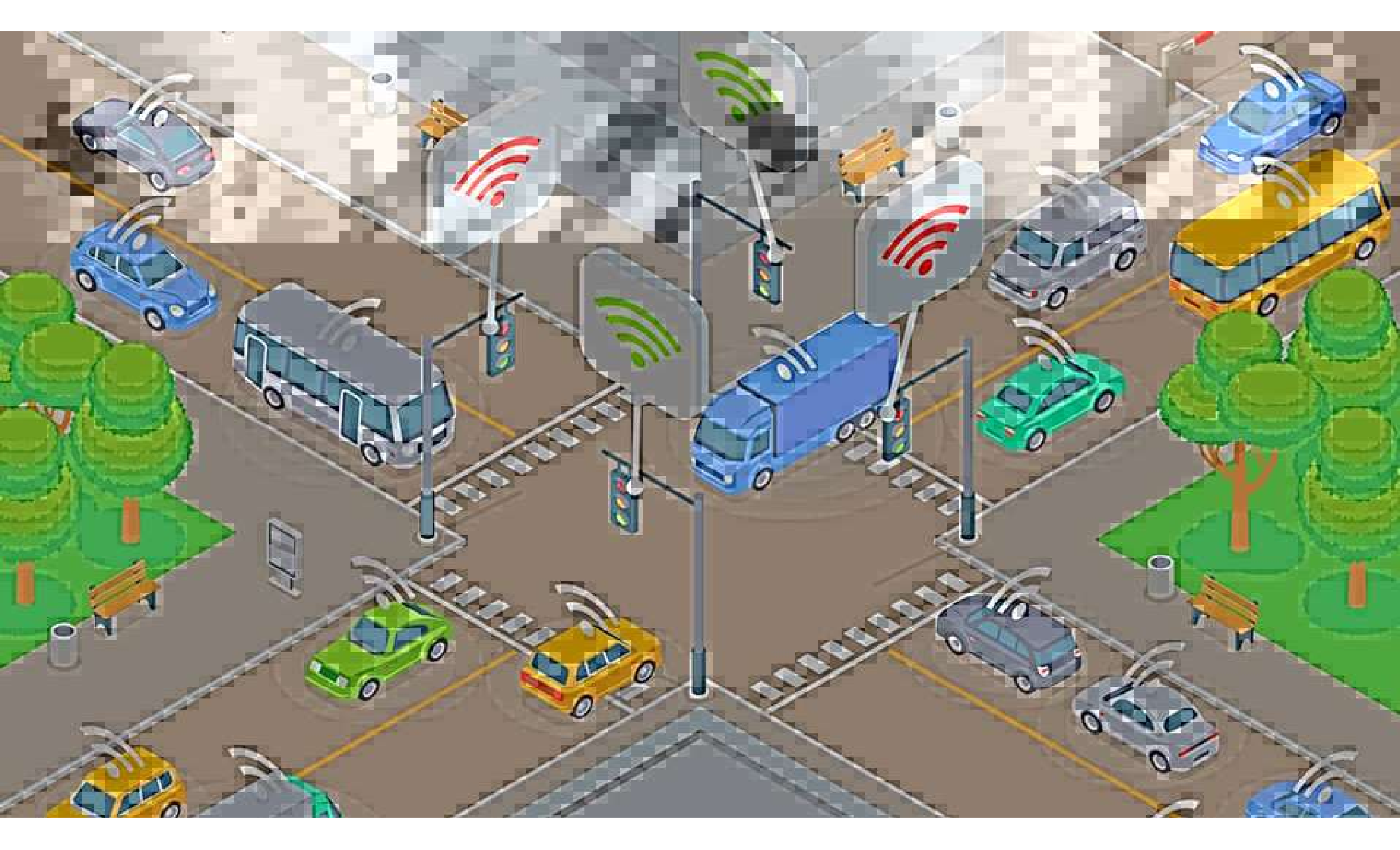
Find local businesses

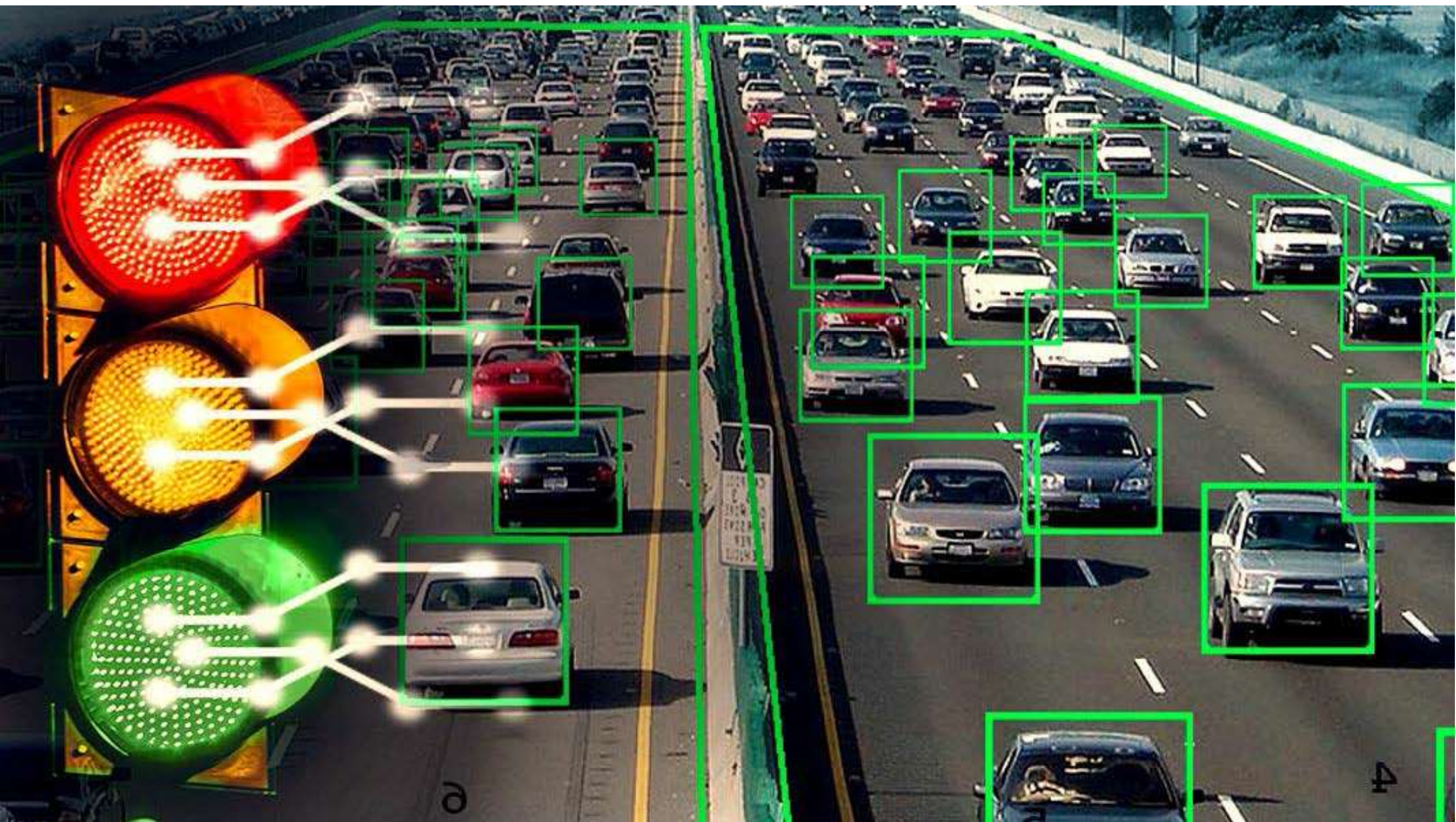




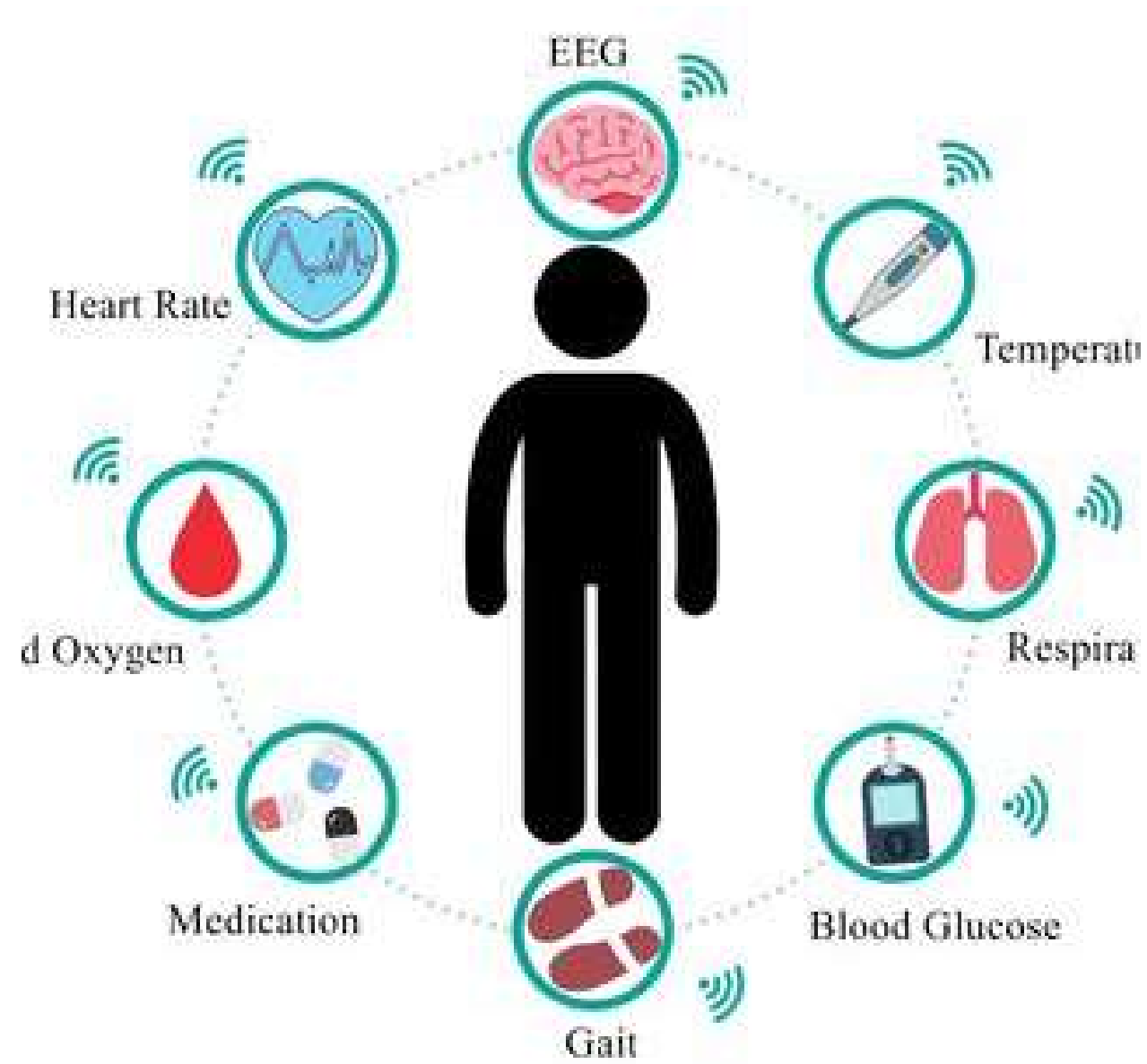


Transporte









Salud

