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# Using Cameras as the ( in IoT

What is IoT?

Google says that: "The Internet of Things (IoT) describes the network

IoT means different things to different people.

of physical objects—"things"—that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet." If IoT devices are the eyes and ears for increasingly interconnected

systems, then analytics technology is the brain.

## Cost of Cost of Cost of Sensors **Bandwidth Processing**

/ 40x

WHY TALK ABOUT IOT NOW?

60x

Cost of

Cloud

**Storage** 

**Connectivity** 

Cost of

99%

THE GOOD NEWS:

of things in the world are still not connected

# **How can Cameras be IoT Sensors?**

**CAMERAS AS THE** 

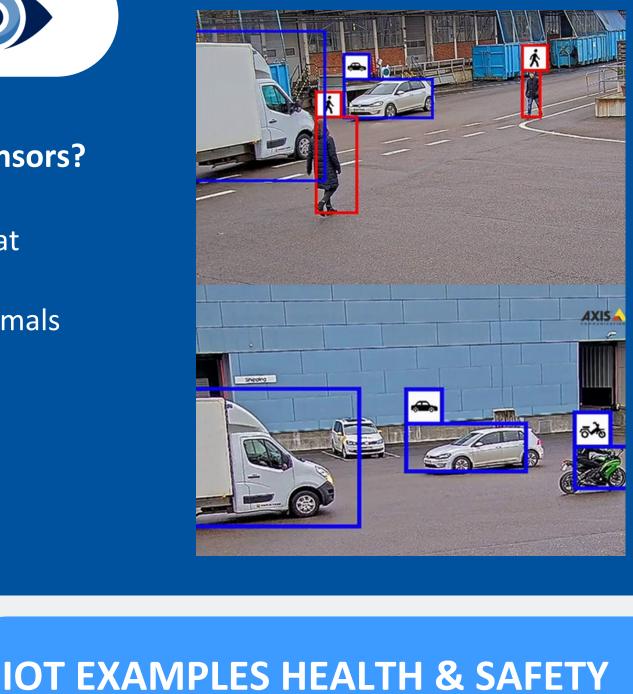


# Detect – motion, patterns, heat

Classify – people, vehicles, animals

IoT is all about Data!

Count and Measure



# Hard hat detection

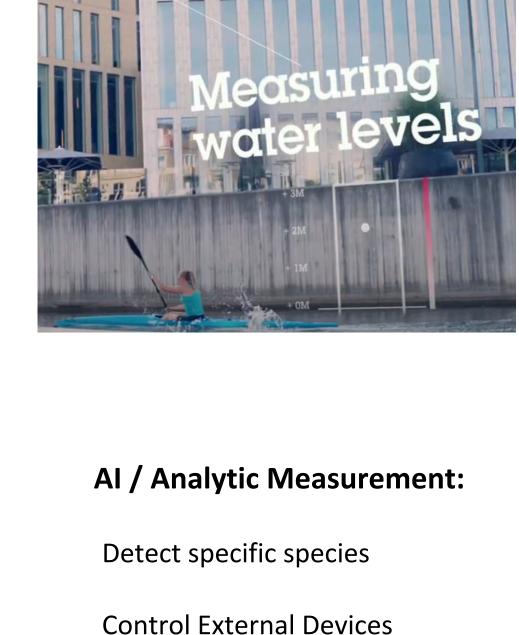
Hi-Viz detection

AI / Analytic Measurement:

Man-down

# Al / Analytic Measurement:

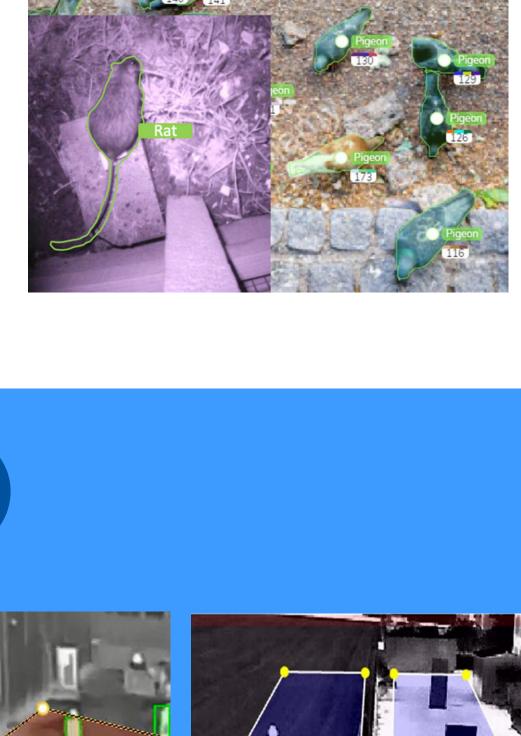
**IOT EXAMPLES ENVIRONMENTAL** 



and calculates flow

24/7 Monitoring of water flow

Edge algorithm measures water level



PERIMETER PROTECTION

# **IOT EXAMPLES SECURITY**

Count

**Thermal or Visual** 

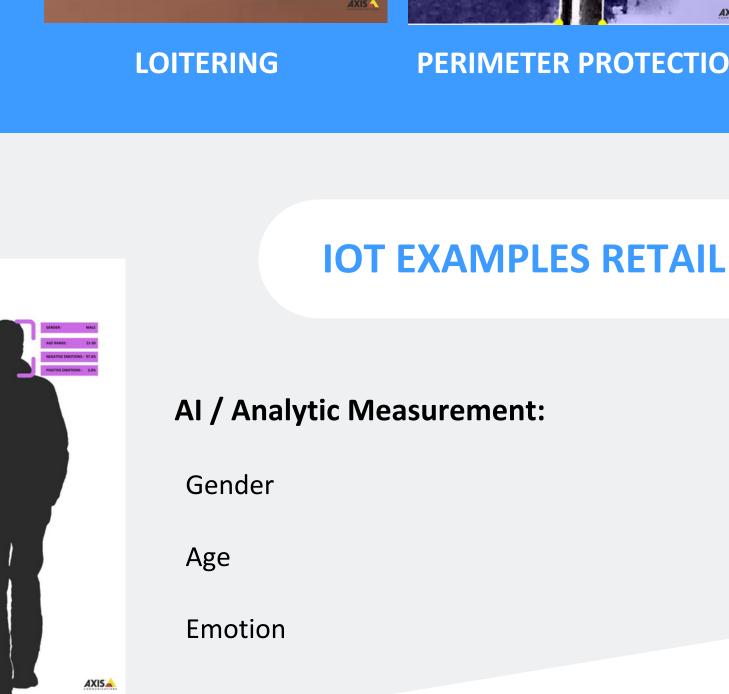
Consider perspective

Rules (even rules

within rules)

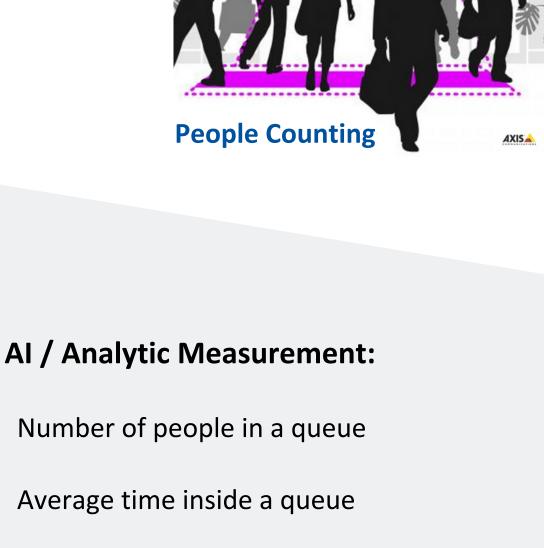
Detect a "person" even when crawling, log-rolling

**Demographics** 



AI / Analytic Measurement:

People traffic – People in and out



# **Monitoring Queues**

solution.

eyes at you...

Occupancy

- **Last Thoughts**
- Al and Edge Analytics very sensitive to the environment. No one-size-fit-all
- Visibility camera can only detect/analyse what the camera can "see". Consider Data privacy and Cyber Security impacts.
- Next time you look at a CCTV camera just think how it is looking with new

## Using cameras as IoT sensors is an efficient way to get more out of existing infrastructure.