



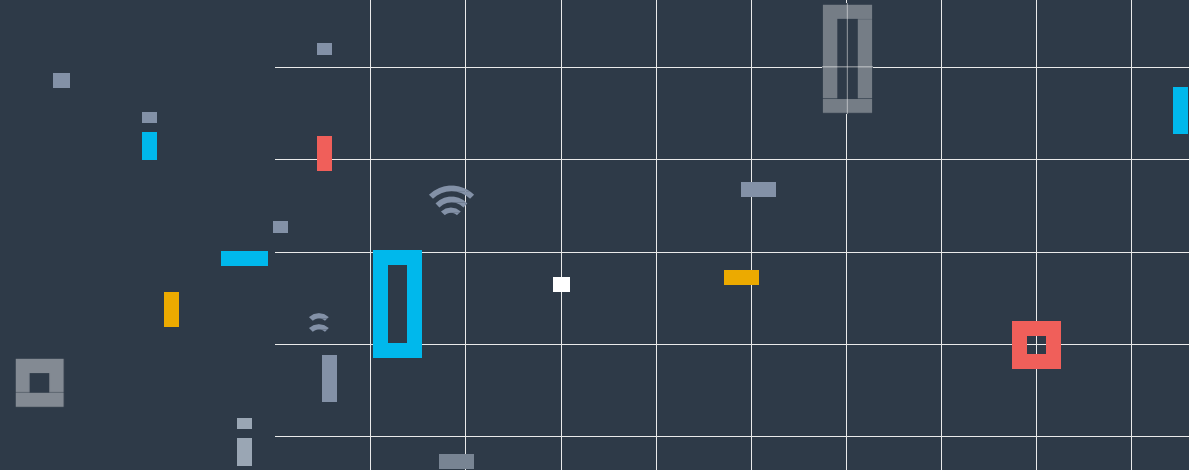
APCO  
International

Leaders in Public Safety Communications®




# Cybersecurity of Tomorrow From Detection to Prediction

October 8th, 2019

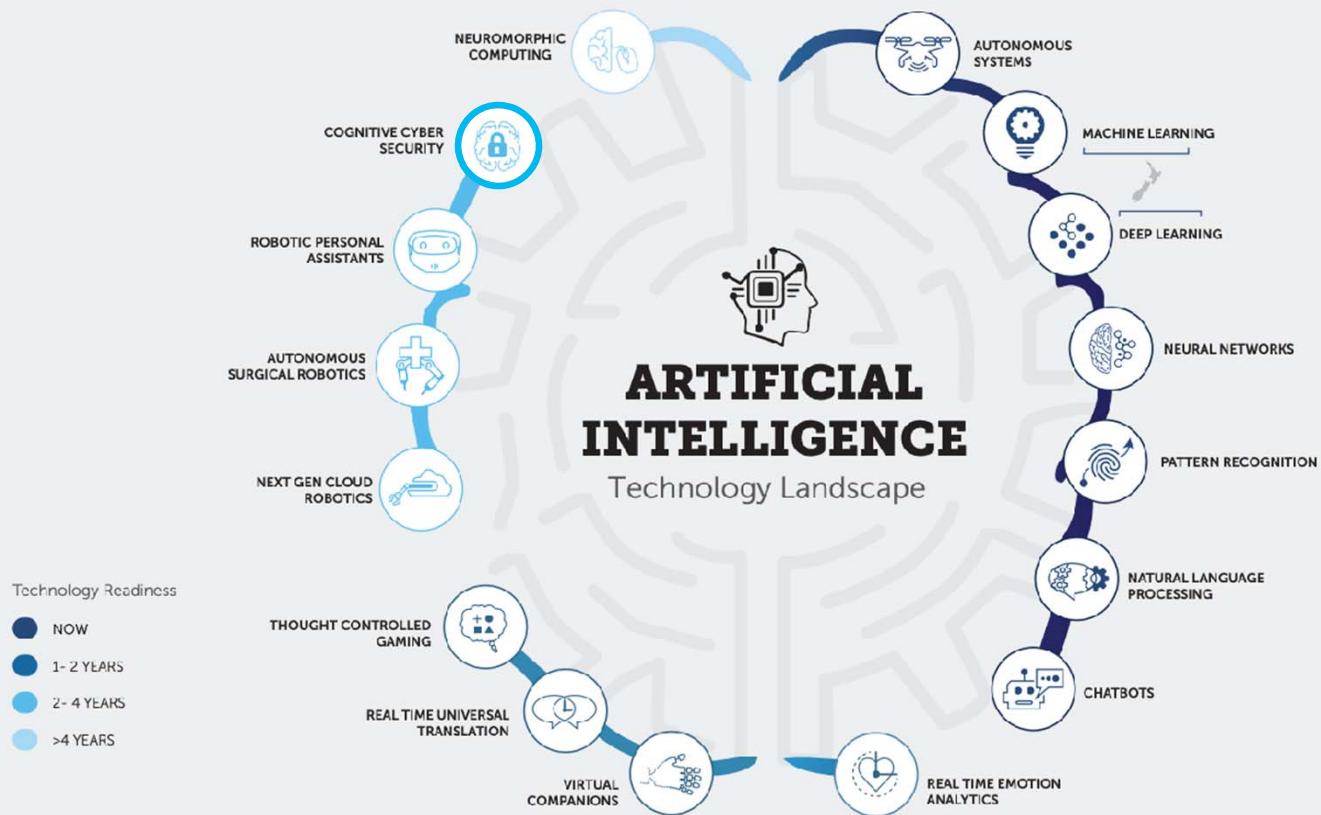


# Artificial Intelligence

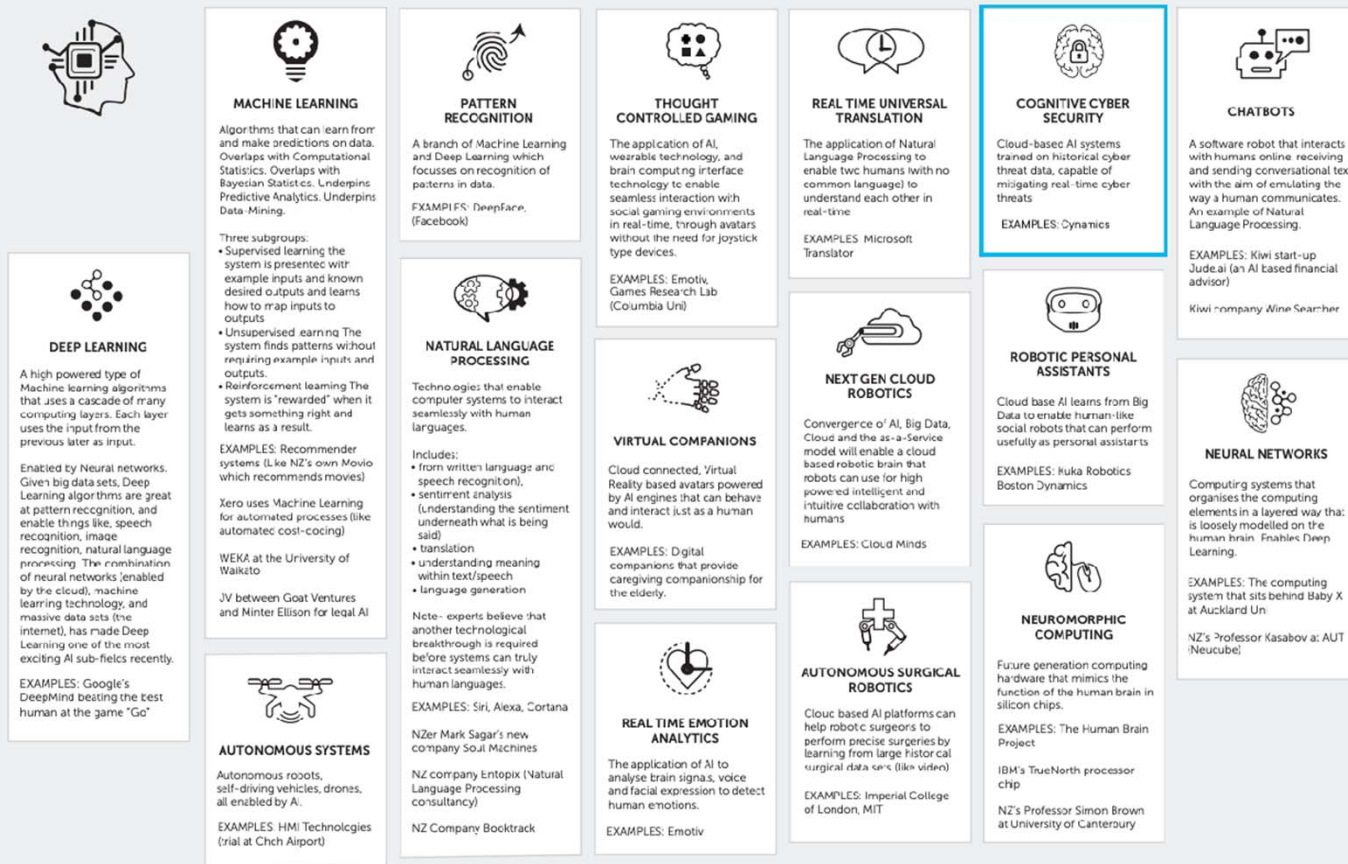
An aerial view of a city at night, with a dark blue overlay. In the upper right, there is a grid of white lines with various colored squares and rectangles (red, blue, yellow, grey) scattered across it. A white Wi-Fi symbol is located in the upper left of the grid area. The text "Artificial Intelligence is computer systems that exhibit human like intelligence. It is a group of science fields and technologies concerned with creating machines take intelligent actions based on inputs." is centered in the middle of the image in a white, sans-serif font.

Artificial Intelligence is computer systems that exhibit human like intelligence. It is a group of science fields and technologies concerned with creating machines take intelligent actions based on inputs.

# Where?

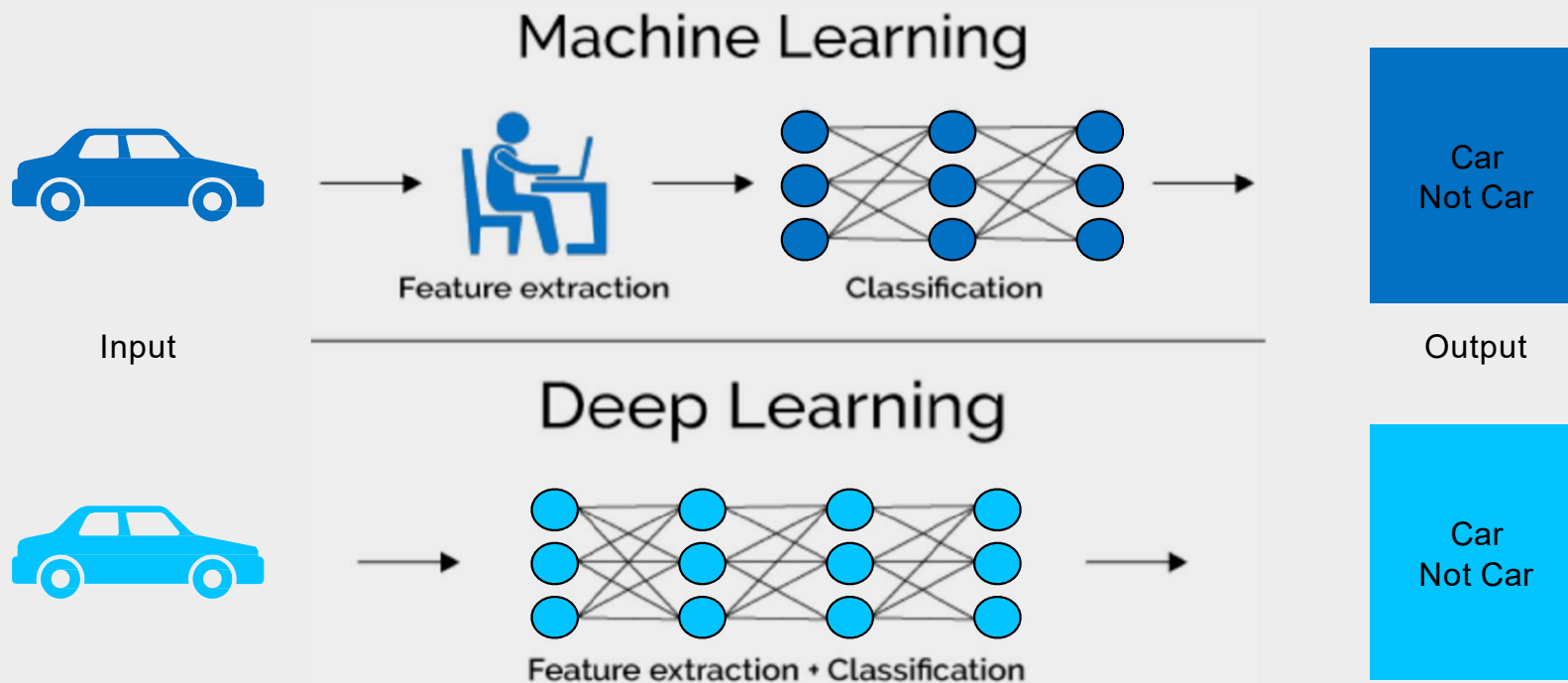


# Examples





# ML - DL



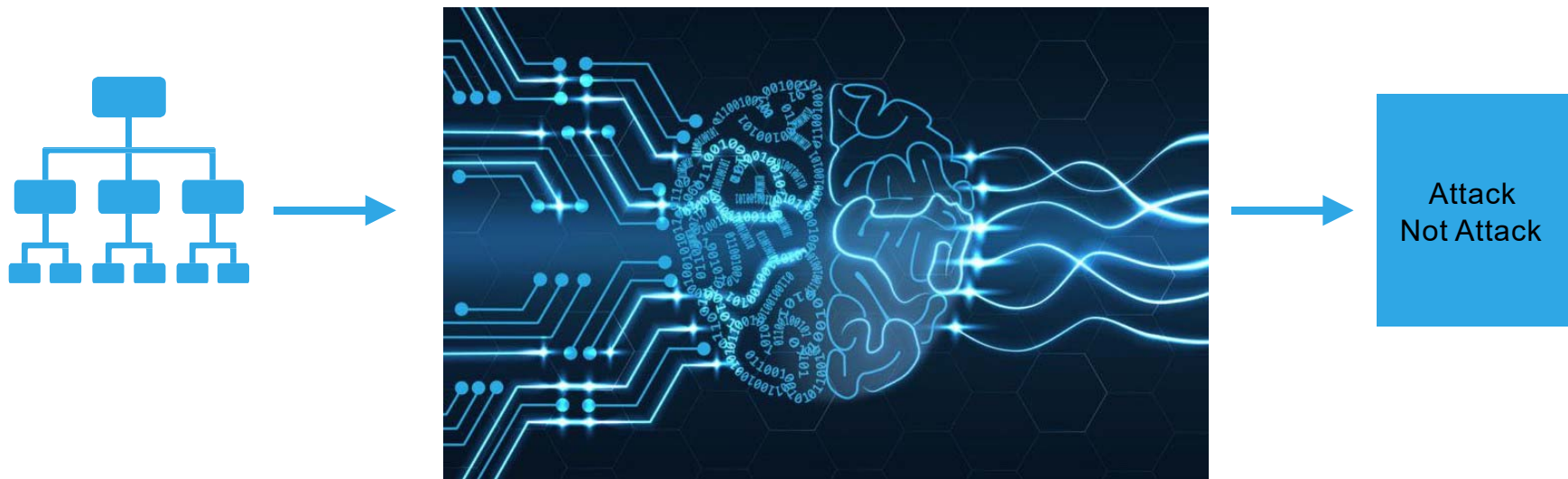


# Cybersecurity & Artificial Intelligence ?



# Building the impossible...

AI, learns with each interaction to connect the dots between threats and provide actionable insights.  
The result: You can respond to threats with greater confidence and speed.





Unlimited Visibility & Unprecedented  
Scalability for Smart Networks



Large Attack Surface

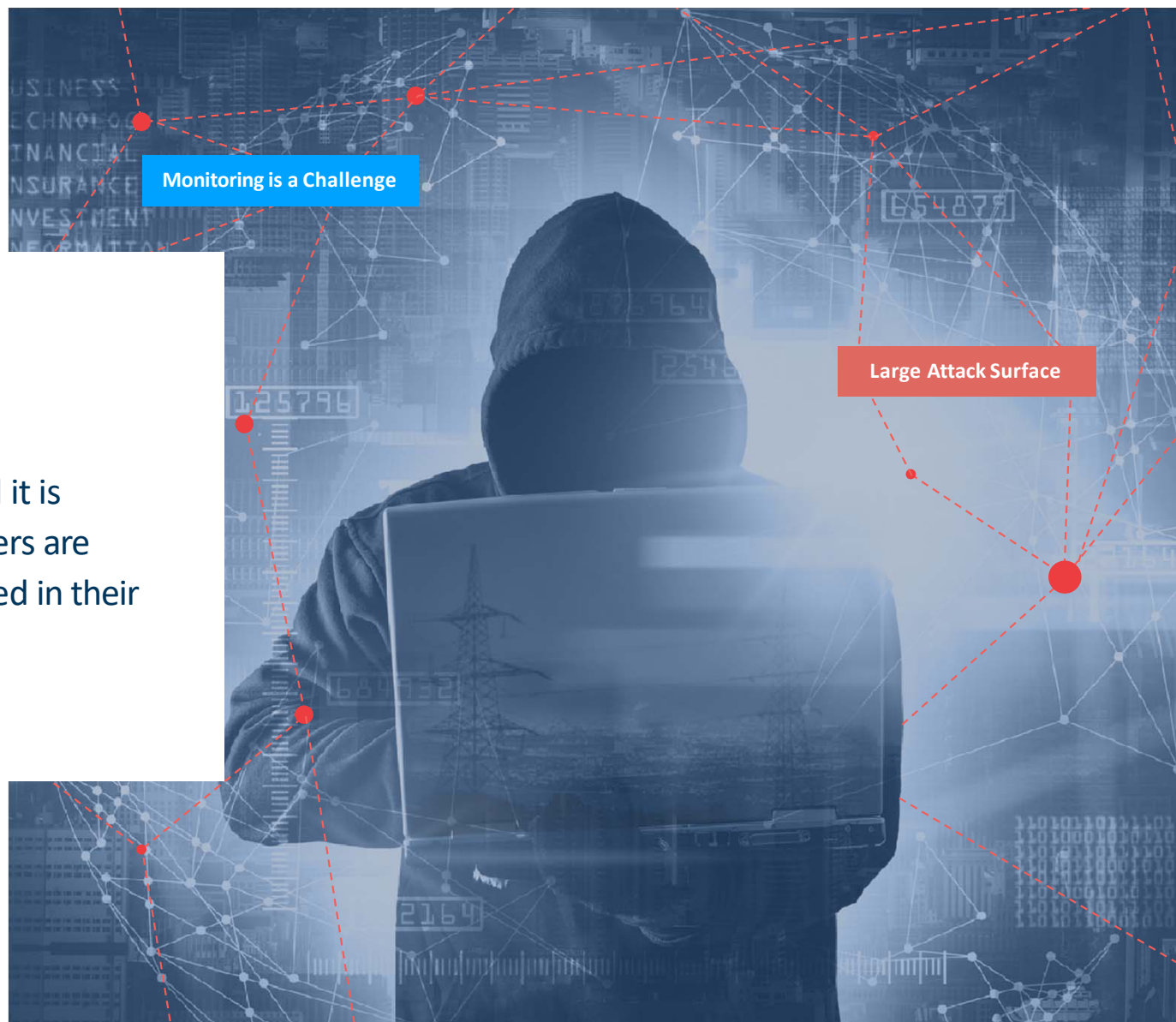
# Smart Cities

Smart cities are comprised of diverse and interconnected components constantly exchanging data from various endpoints and through various networks.

Monitoring is a Challenge

# Utility Sector

The grid becomes more connected it is opening new lines of attacks. Hackers are becoming increasingly sophisticated in their attempts to disrupt electric grids.



Monitoring is a Challenge

Large Attack Surface



# Public Safety



NG9-1-1 will allow Public Safety Answering Points (PSAPs) to accept and process a range of information from responders and the public, including text, images, video, and voice calls. These new capabilities introduce several different backdoors for cyber criminals to exploit.

## BENEFITS

### NG9-1-1 will enhance response capabilities

- Enable receipt of data (e.g., video, text) from the public over a variety of networks
- Enable cal transfer and data sharing among PSAPs
- Improve location data
- Allow for virtual PSAPs for survivability

## RISKS

### NG9-1-1 is different from traditional systems

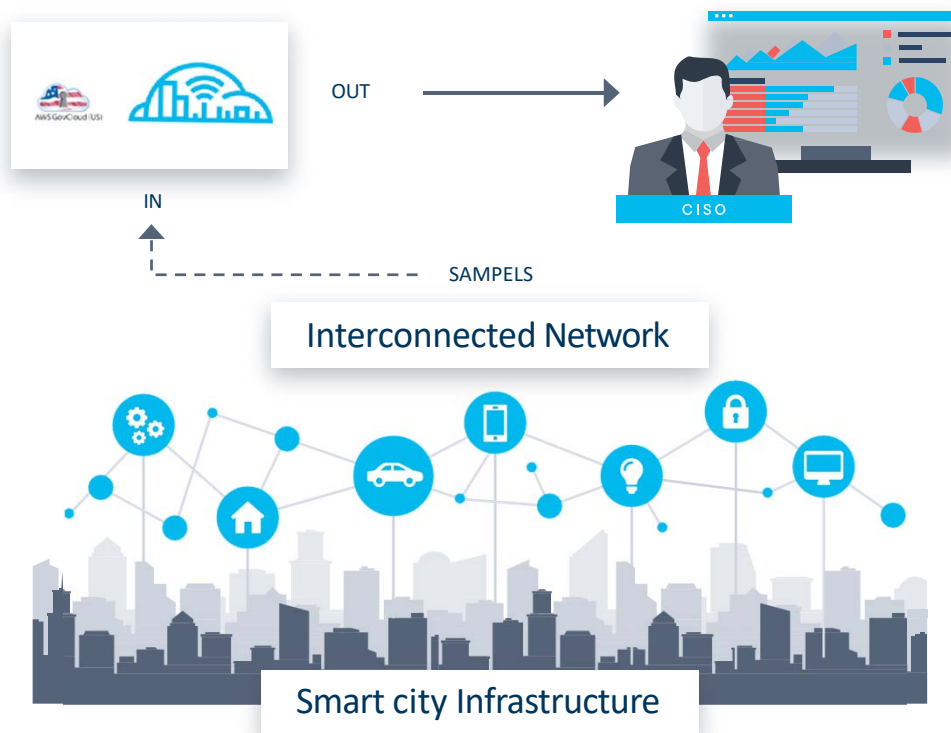
- Requires standardised identity management and credentialing across systems
- Allows for potentials attacks to quickly escalate or proliferate across systems
- Introduces new attack vectors





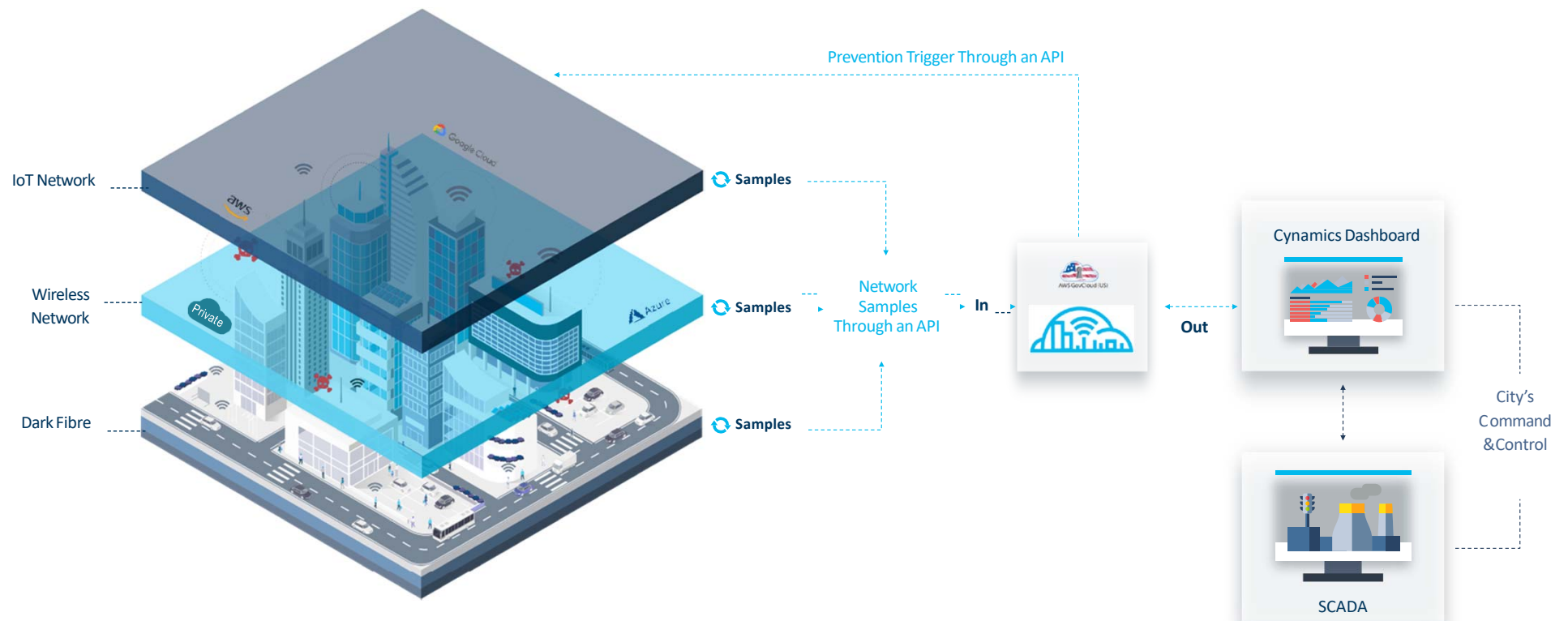
# AI Based Network Visibility

100% network visibility from 1% traffic samples



An advance solution using a unique AI technologies to infer complete network visibility from small traffic samples and able to fast and accurately detect attacks and network anomalies

# Architecture



# Dashboard

## The dashboard enables:

- Attacks and anomalies detection
- Security forensics and analysis
- Continuous real-time network monitoring, analytics and stats
- Creating user-defined notifications

## Query across dozens of data fields, multiple groups-by dimension, metrics, and filters:

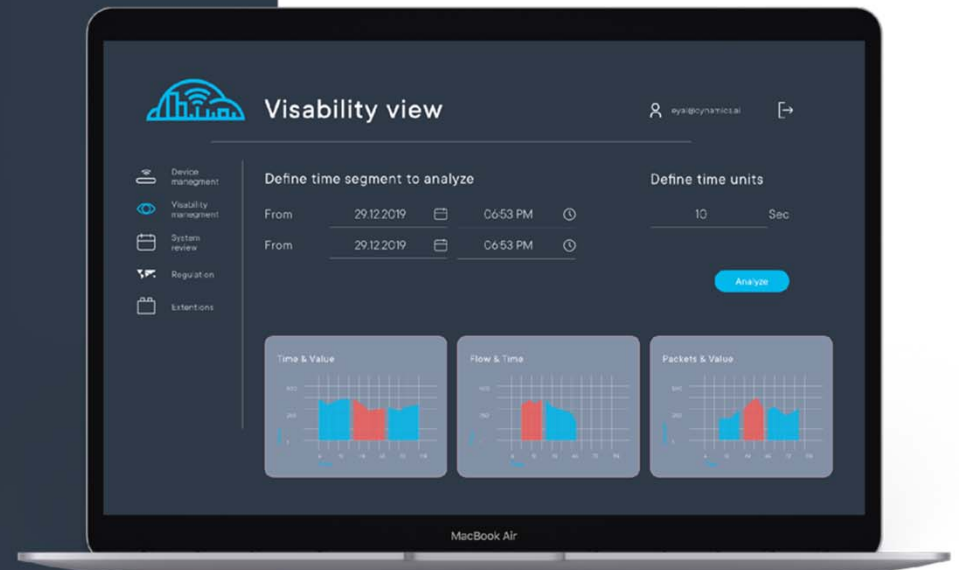
- Drill down on specific aspects
- Results in seconds

## Wide variety of performance, traffic and network metrics:

- Volume stats (average Mb/sec, min, max, top flows)
- Number of flows
- Number of packets

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# Value Proposition



No Network Modification



SaaS Based Solution



No Agent Installation



Cost Effective



View Multiple Networks



Rapid Setup



Thank You!

October 8th, 2019