TRANSFORMING CITIES

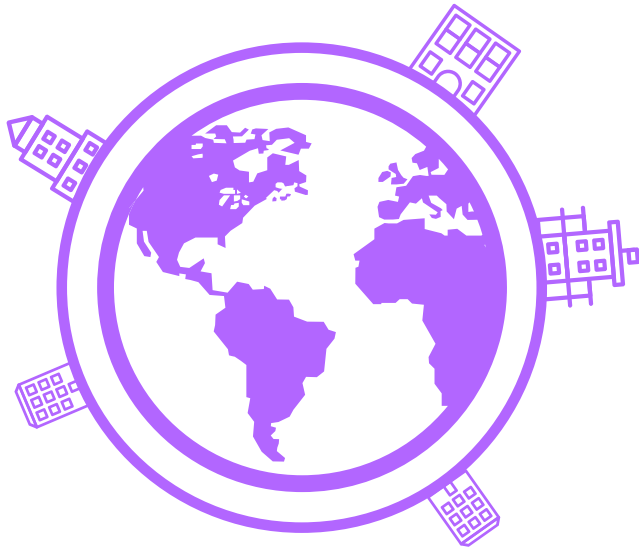**THANASIS KAROUSOS**

Athens, May 30, 2018

21ST CENTURY: THE ONE OF THE CITIES

MORE THAN 2 BILLION PEOPLE WILL MOVE FROM RURAL AREAS TO URBAN CENTERS IN THE NEXT YEARS

1913
10% OF THE WORLD'S POPULATION LIVED IN CITIES
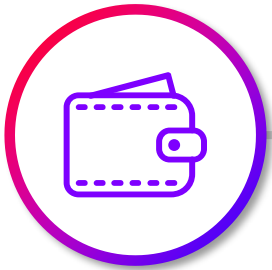
2013
50% OF THE WORLD'S POPULATION LIVED IN CITIES

2050
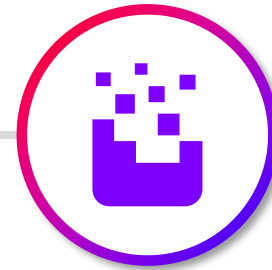**75%** OF THE WORLD'S POPULATION WILL LIVE IN CITIES

Source: Rockefeller Foundation

THE CASE FOR CHANGE FOR CITIES HAS NEVER BEEN MORE PERTINENT THAN IN TODAY'S FAST PACED WORLD
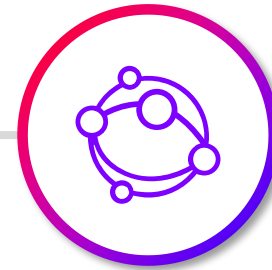
HEIGHTENED PRESSURE TO BALANCE BUDGETS

ESCALATING CITIZEN NEEDS & EXPECTATIONS

THE ACCELERATION OF DIGITAL

INCREASINGLY COMPLEX SYSTEMS

A **SMART CITY** IS A DIGITALLY-ENRICHED, SUSTAINABLE URBAN ENVIRONMENT

A City that **embeds technology** into its design and operation

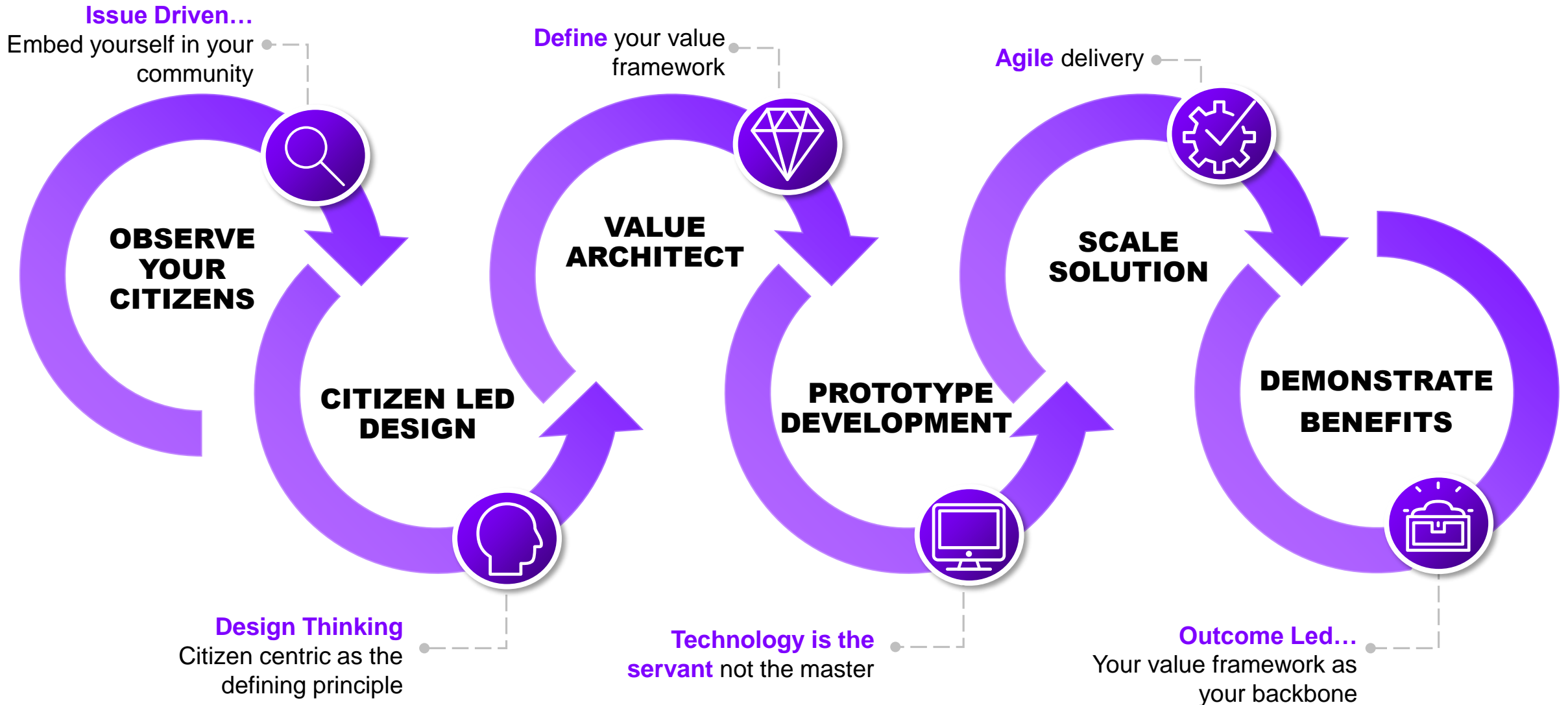A City that integrates across **multiple infrastructure layers**

A City that **focuses on service provision** for its citizens and business

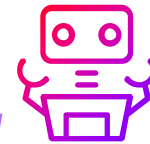A City using an innovative **public & private sector collaboration model**

DO YOU KNOW WHAT PROBLEMS YOU'RE TRYING TO SOLVE?

Issue Driven…
Embed yourself in your community

OBSERVE YOUR CITIZENS

CITIZEN LED DESIGN

Design Thinking
Citizen centric as the defining principle

Define your value framework

VALUE ARCHITECT

PROTOTYPE DEVELOPMENT

Technology is the servant not the master

Agile delivery

SCALE SOLUTION

DEMONSTRATE BENEFITS

Outcome Led…
Your value framework as your backbone

KEY PILLARS OF CITIES' TRANSFORMATION:
5G AND ARTIFICIAL INTELLIGENCE

5G NETWORKS

ARTIFICIAL INTELLIGENCE

5G: TECHNOLOGY TO MEET THE GROWING DEMANDS OF SMART CITIES

Ability to connect many more sensors and devices
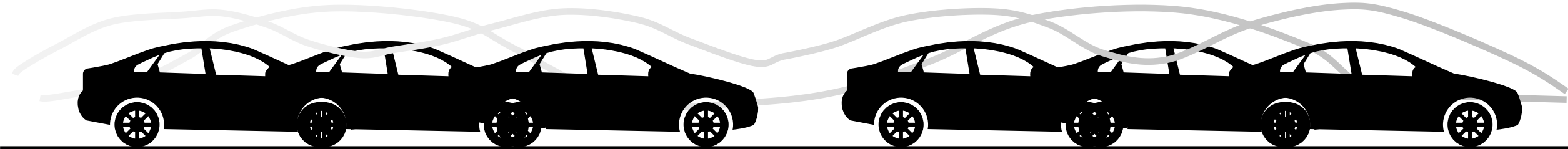
High-speed ubiquitous connectivity

Prioritization, greater reliability and redundancy

Ultra-low power consumption

SMART CAR CONVOYS ENABLED BY 5G AND V2V COMMUNICATIONS

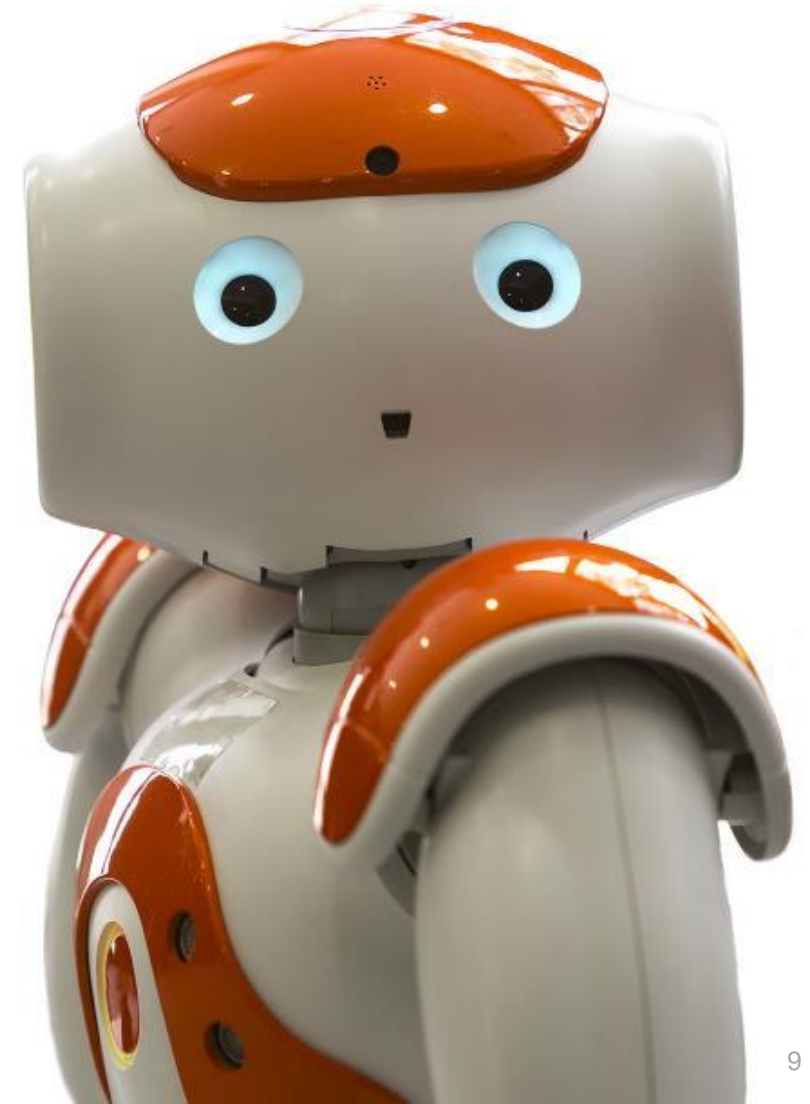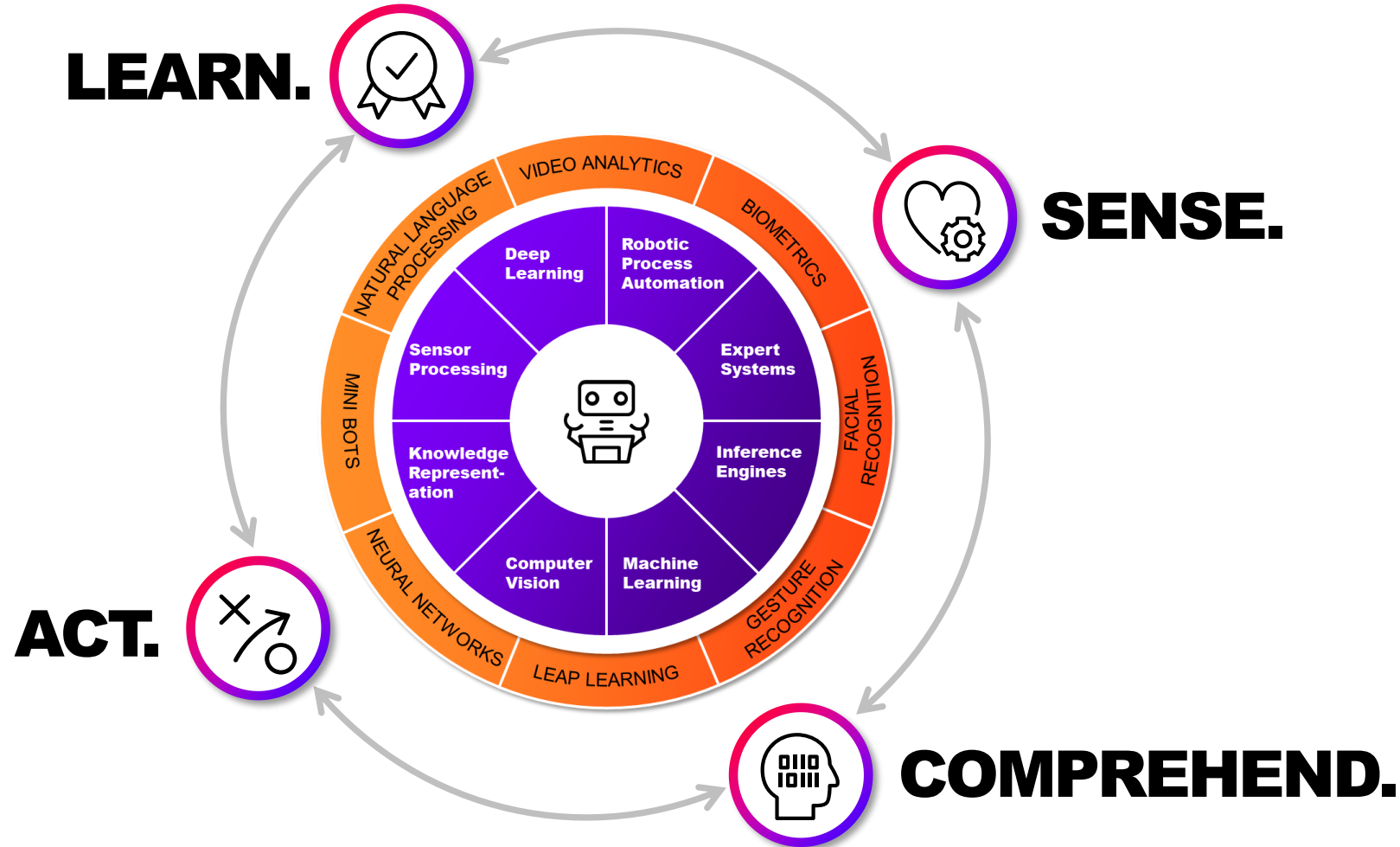*Safe Distance **with** 5G and Vehicle-2-Vehicle Communications*

Safe Driving Class - 2020
Autonomous Cars - 5G - Future

Air flow – drag convoy constitutes 50-75% of highway energy

AI HAS CREATED THE SINGLE BIGGEST TECHNOLOGY REVOLUTION THE WORLD HAS EVER SEEN

LEARN.

SENSE.

ACT.

COMPREHEND.

VIDEO ANALYTICS

NATURAL LANGUAGE PROCESSING

BIOMETRICS

MINI BOTS

FACIAL RECOGNITION

NEURAL NETWORKS

GESTURE RECOGNITION

LEAP LEARNING

Deep Learning

Robotic Process Automation

Sensor Processing

Expert Systems

Knowledge Represent-ation

Inference Engines

Computer Vision

Machine Learning

ARTIFICIAL INTELLIGENCE POTENTIAL FOR CITIES

82% rate any-time availability as a top benefit of AI

AI will boost economic growth 2x & productivity 40% by 2035

Machine Learning optimizes city transit routes

72% believe machines will make work more interesting

49% of citizens would use AI public service

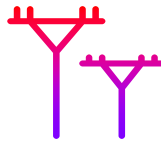**AI processes paperwork without human error**

INTELLIGENT CITIES:
A DIGITAL HUB OF INTERCONNECTED SYSTEMS

NATURAL RESOURCES
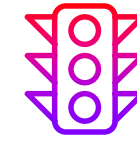
SMART ENERGY
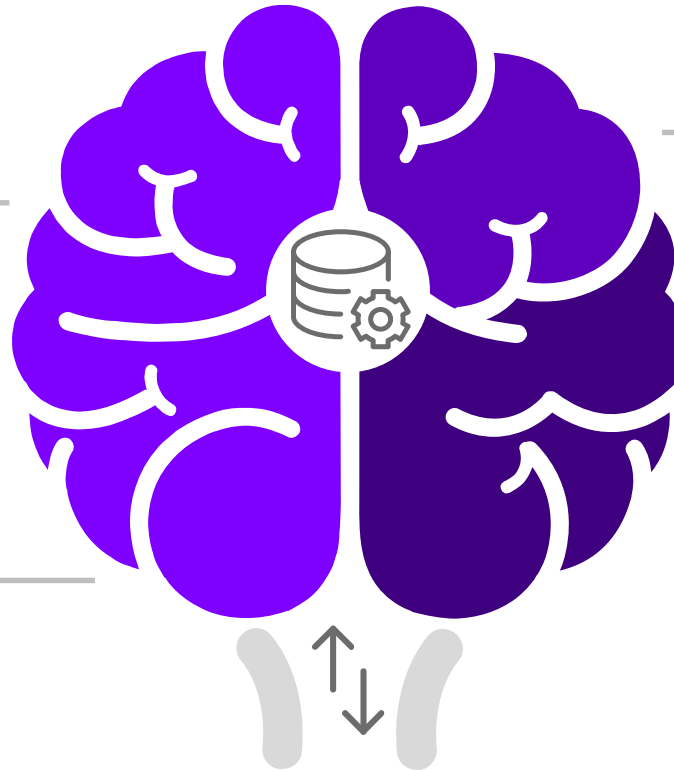
SMART TRANSPORTATION

DIGITAL HEALTH

INTELLIGENT CITY, ECOSYSTEM & CITIZEN DATA

THE EVOLUTION DOES NOT END ....

THANK YOU

THANASIS KAROUSOS

MANAGEMENT CONSULTING @ ACCENTURE