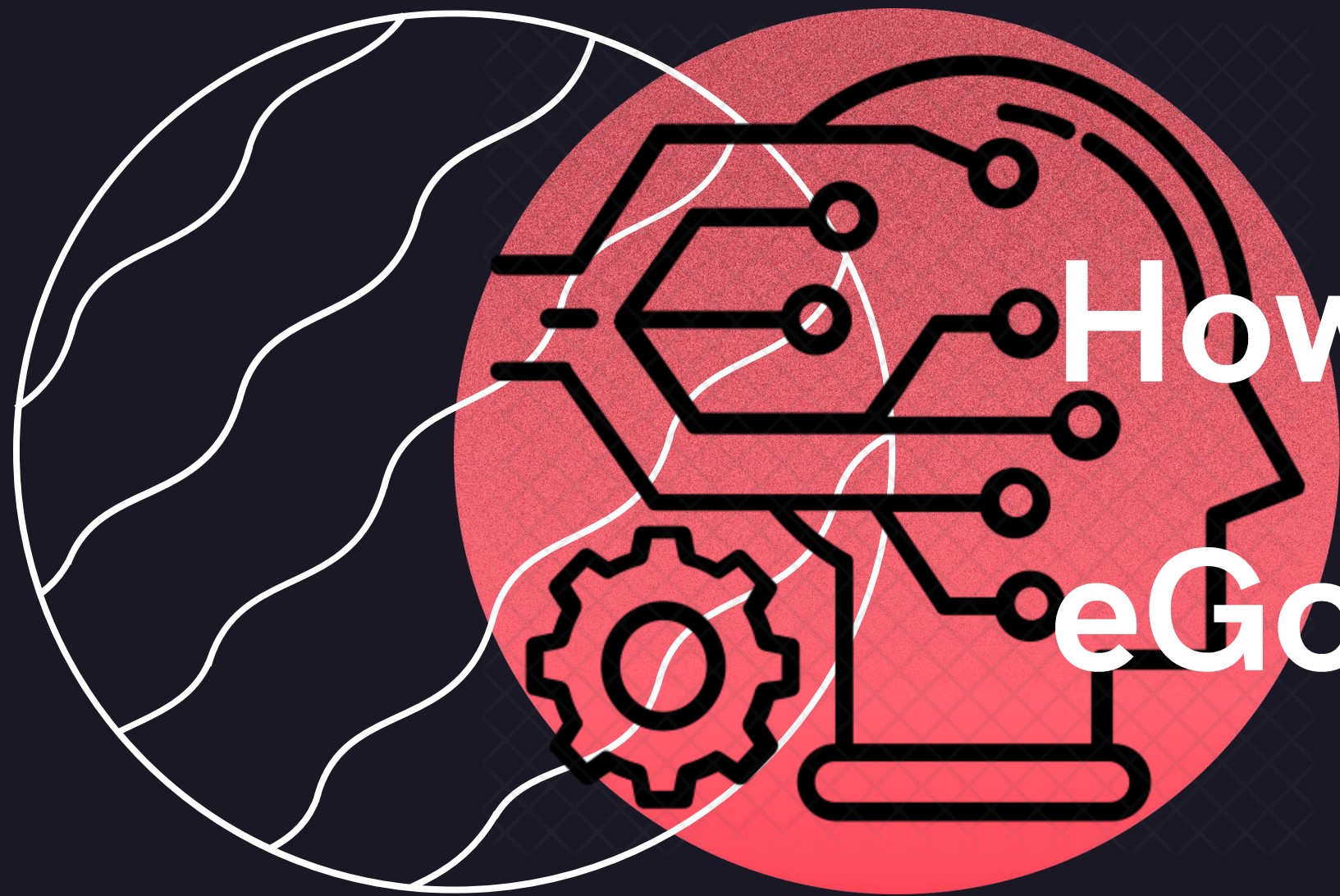




How AI will Transform eGov and Smart Cities

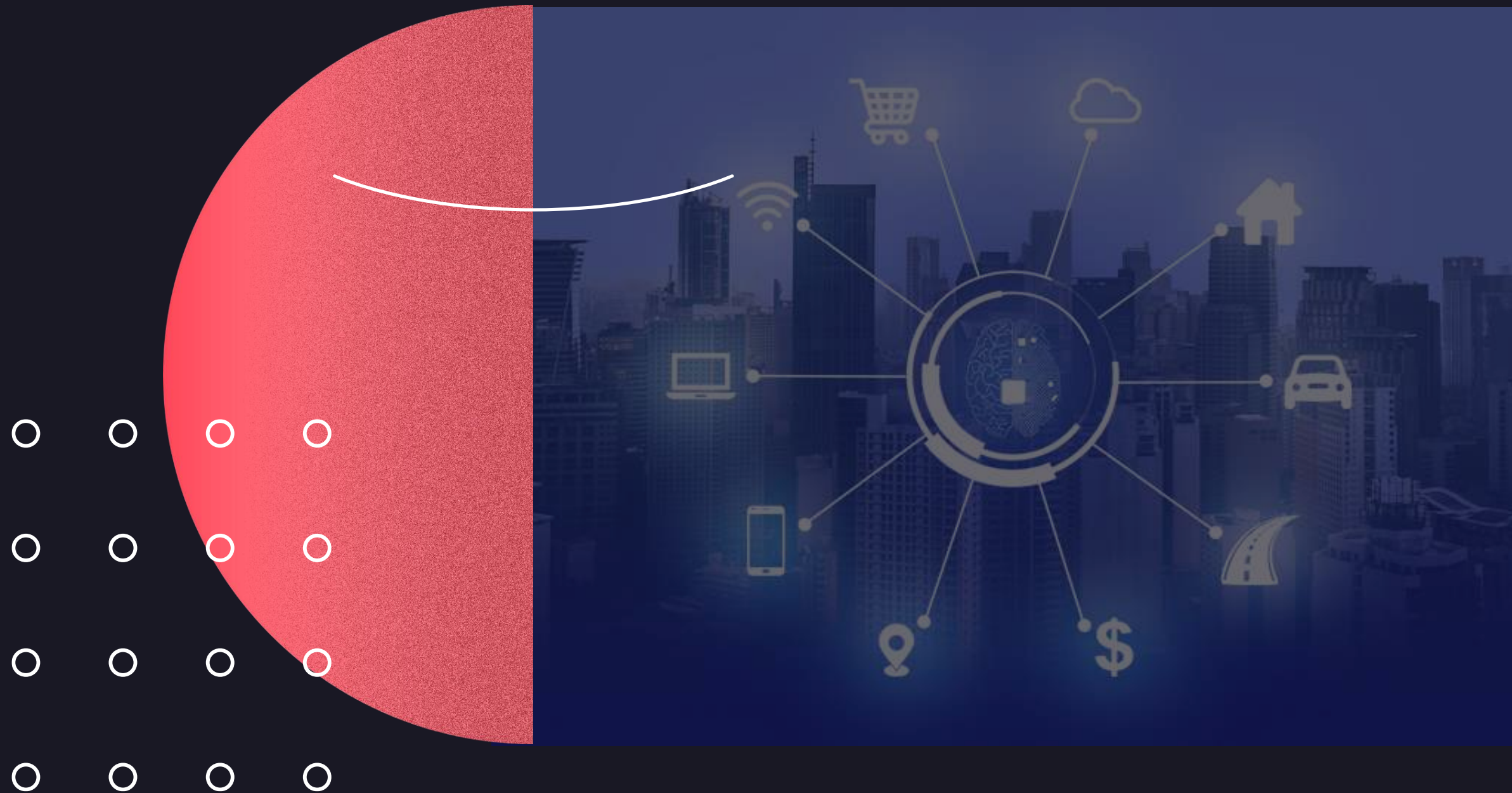
Paulo H. Leocadio
WCAIMLDS Paris 2023

Introduction

02

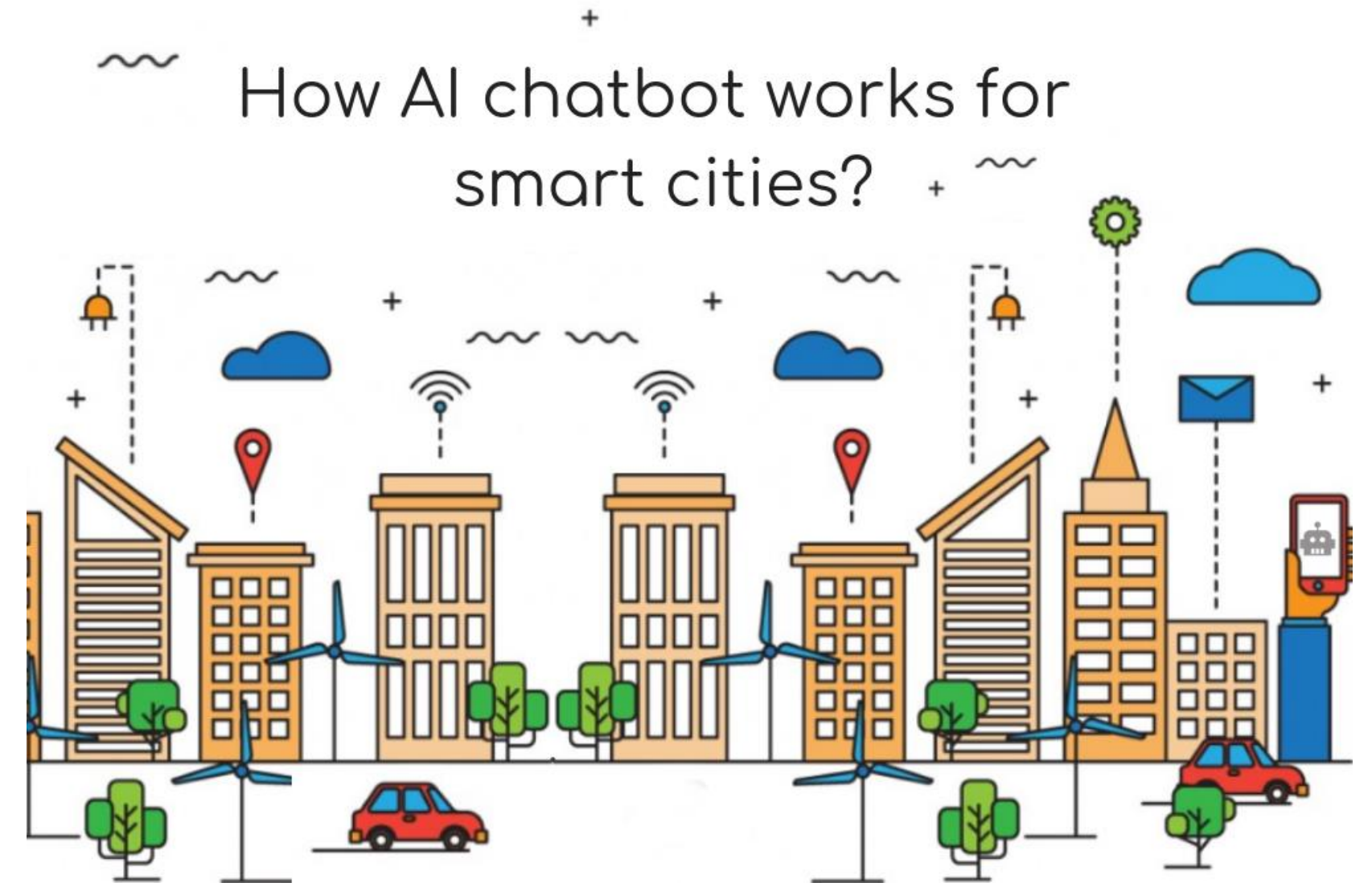


Smart Government Solutions



Technology Advancements

04



"Chatbots let citizens navigate government entitlements and create easy access for citizens to understand and engage with local services,"
Bettina Tratz-Ryan, Gartner Analyst, 2018.

Integration and Migration

Current trends:

Applications of AI in smart cities

- ✓ Surveillance and Security
- ✓ Aerial Monitoring
- ✓ Traffic Management & Vehicle Parking
- ✓ Face detection AI
- ✓ Waste collection & waste disposal
- ✓ City administration & planning management
- ✓ AI in Energy consumption optimization

AI-powered Smart City:

The challenges

- ✓ Hardware installation and maintenance costs
- ✓ Natural damage or theft of AI equipment
- ✓ Security and Privacy of the citizens
- ✓ Classist discrimination in society
- ✓ It is mostly presented before an audience.

Machine Learning in eGov

Smart Cities and, generically, eGovernment are required to process large amounts of data from various sources and transform that data into valuable information. Machine Learning algorithms process data collected from numerous sources for training and is continuously utilized to make a city smarter.



AI in National Defense

Total global military expenditure increased by 3.7 per cent in real terms in 2022, to reach a new high of \$2240 billion. A big portion of the spending will go into research, specifically for AI application in defense.



Missile launches

01

Spy drones

02

Surveillance through
image or facial recognition

03

04

Satellites

05

Drone-based
weapon systems

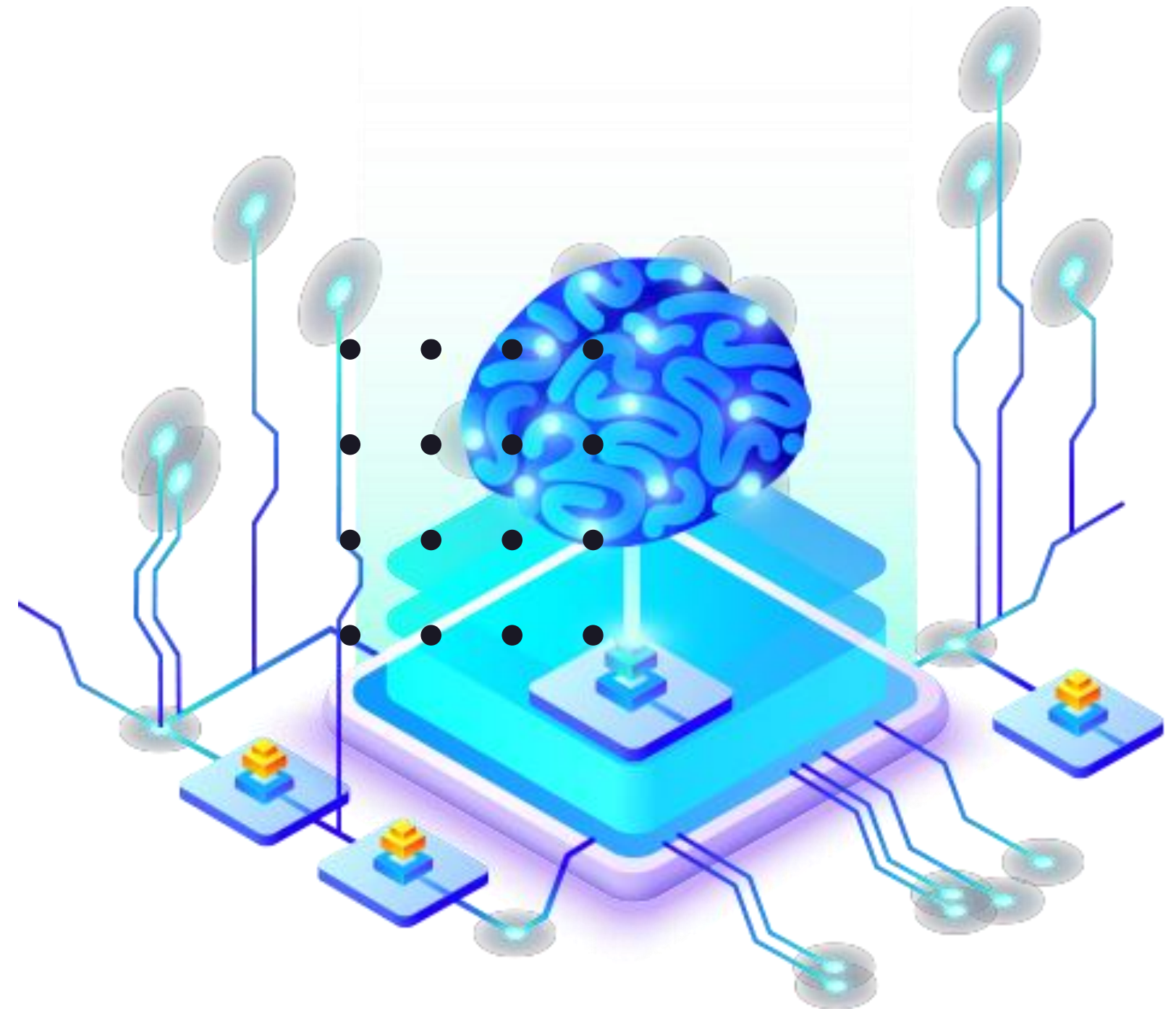
06

Human-less flight controls

AI FOR RESOURCE OPTIMIZATION

- pivotal role in resource optimization within Smart Cities
- advanced data analytics and predictive algorithms
- informed decisions about allocation and management
- real time data from IoT

By dynamically adjusting resource allocation based on demand and environmental factors, AI contributes to sustainability and efficiency, making Smart Cities more livable, eco-friendly, and responsive to the needs of their residents.





PERSONAL PERSPECTIVE

Engineer grad. → Computer Sciences → Hardware Engineer
→ Software Engineer → Consultant → Master degree →
Director of Engineering → Data Sciences/Big Data post-grad.

downsizing → rightsizing → Internet → outsourcing → web
2.0 → Cloud computing → Big Data → Blockchain →
digital transformation → IoT → web3 → Machine Learning
and Artificial Intelligence

Municipality in Southern Europe
with >20MM inhabitants

→ Smart City

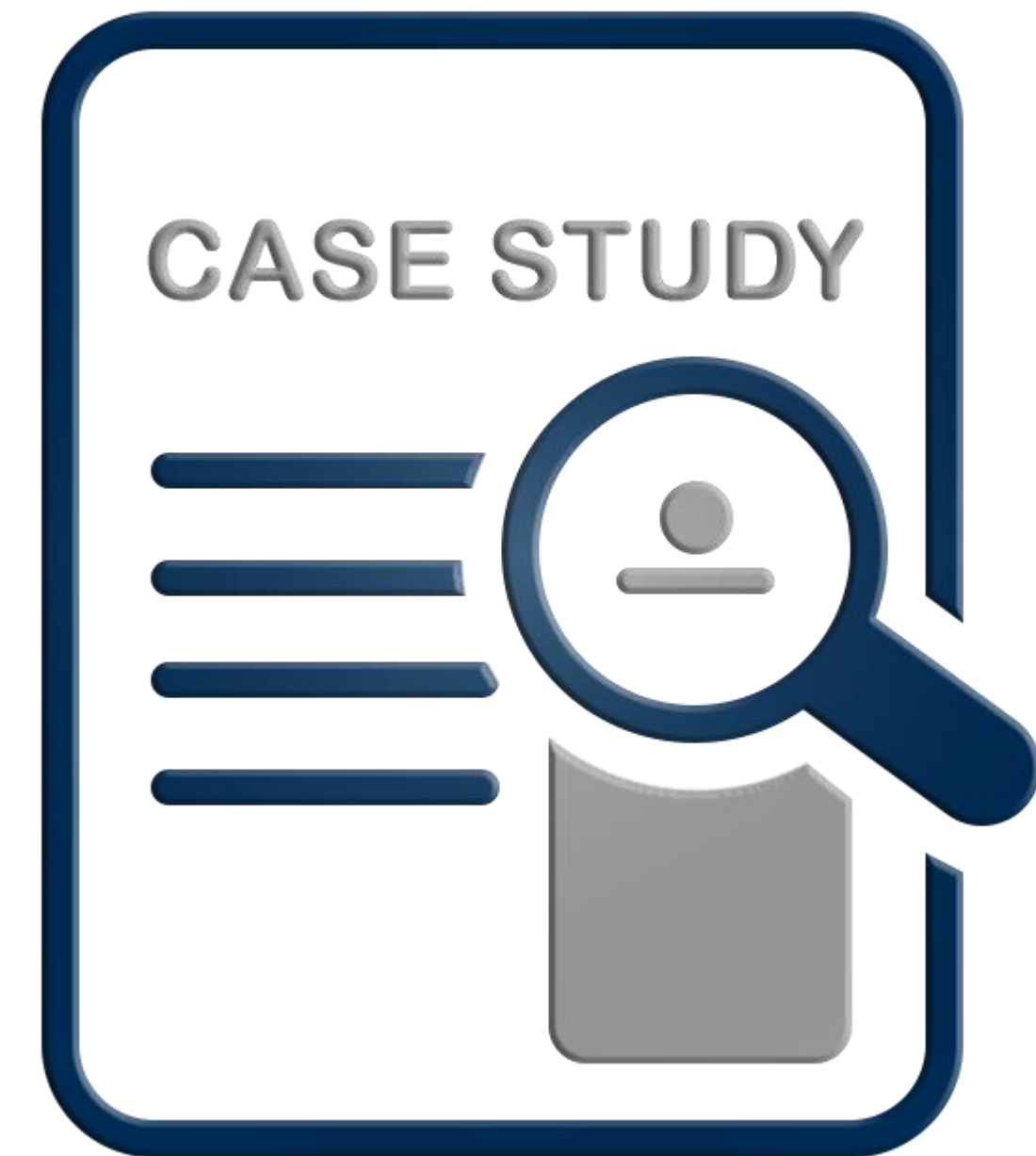
Municipality in Southeastern Asia
with > 18MM inhabitants

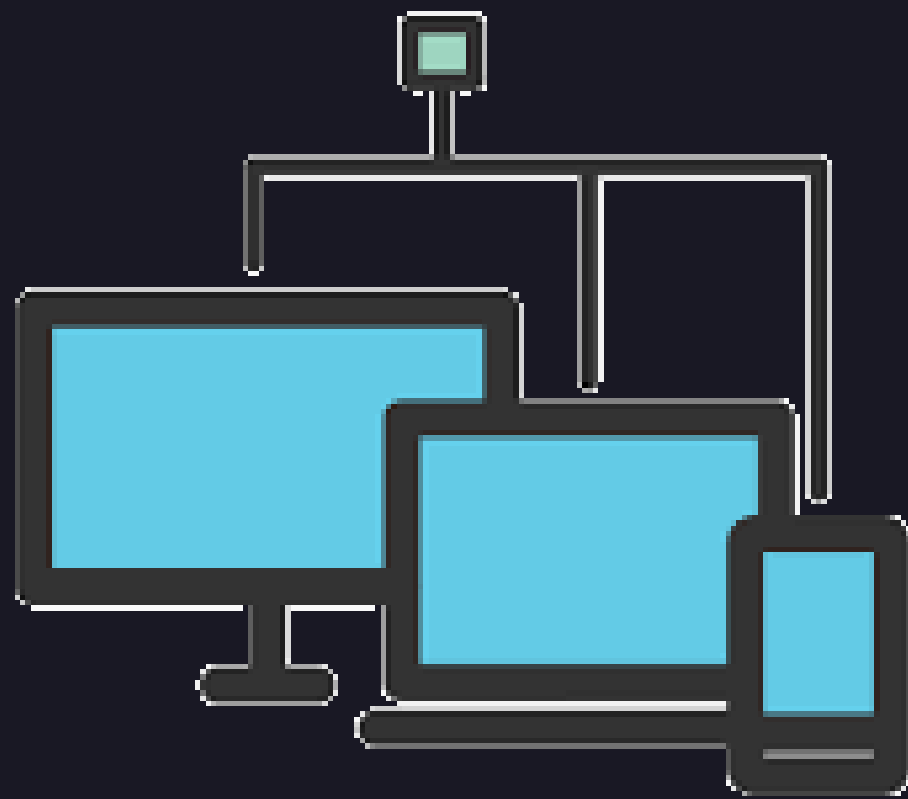
→ Digital Transformation

→ Smart City

Country in the Pacific Eastern Asia
with > 100MM inhabitants

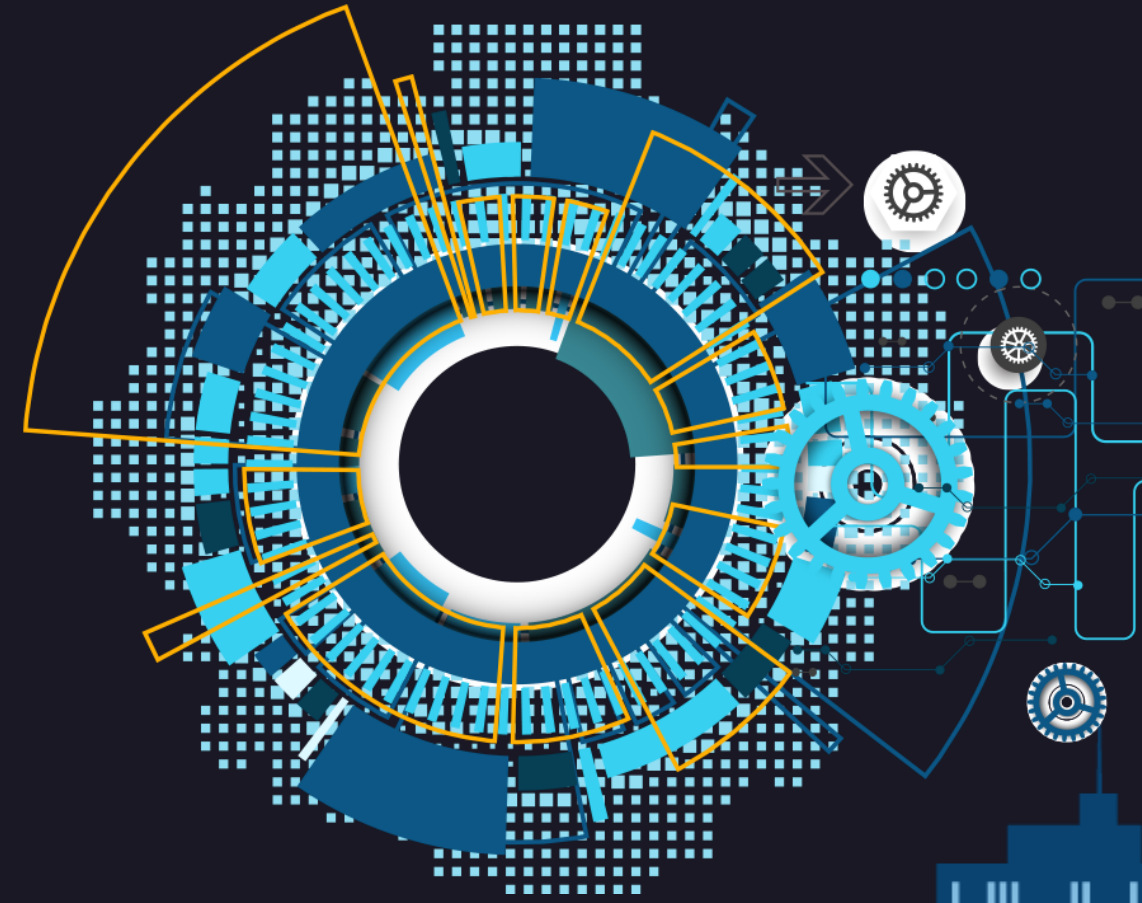
→ Cloud Center of Excellence





INTEGRATION

By leveraging AI and Machine Learning, technologies, governments can harness the power of data-driven insights, automation, and intelligent decision-making, ultimately improving the delivery of public services.



ENVISIONING THE FUTURE

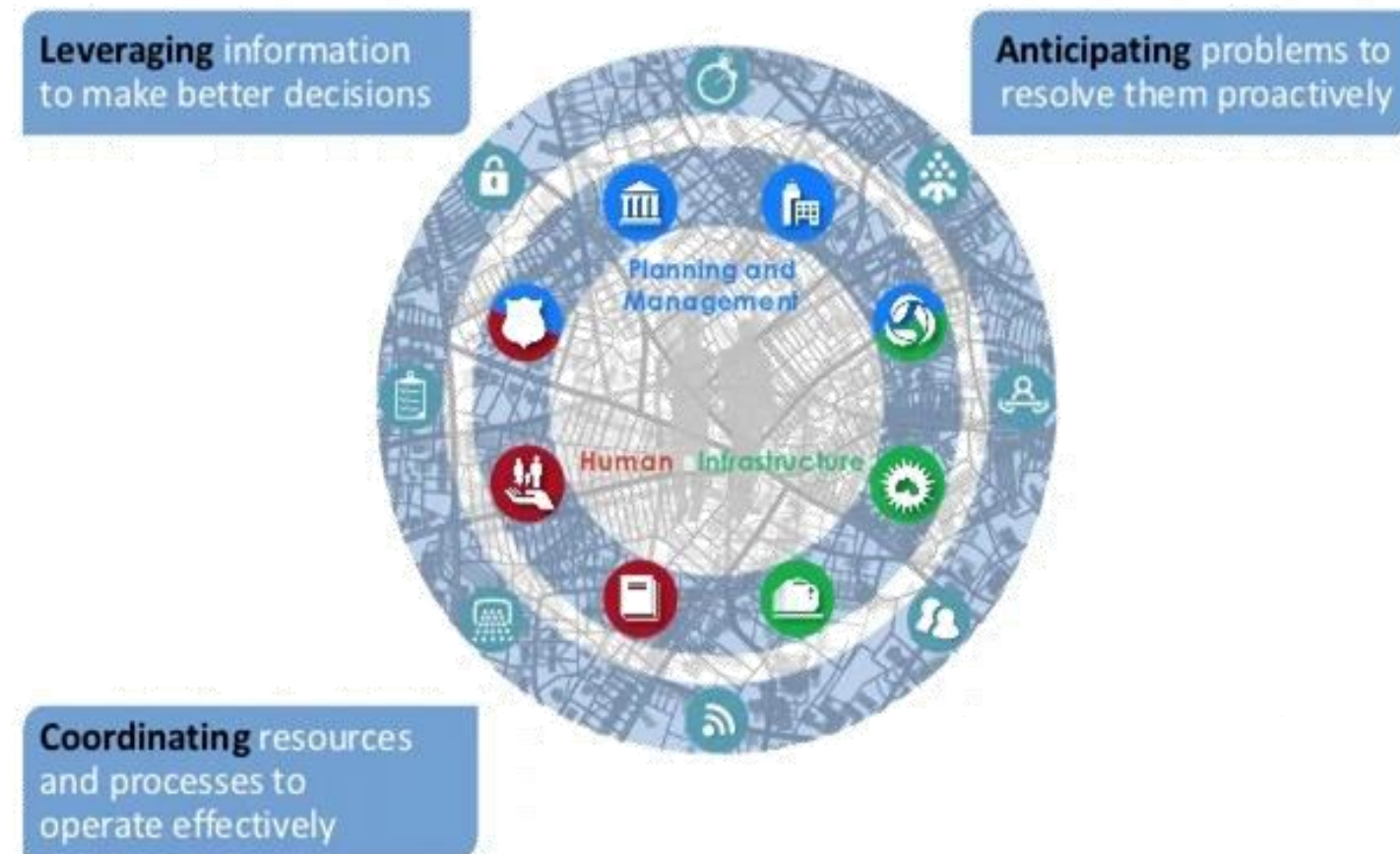


Image © IBM Corporation 2009

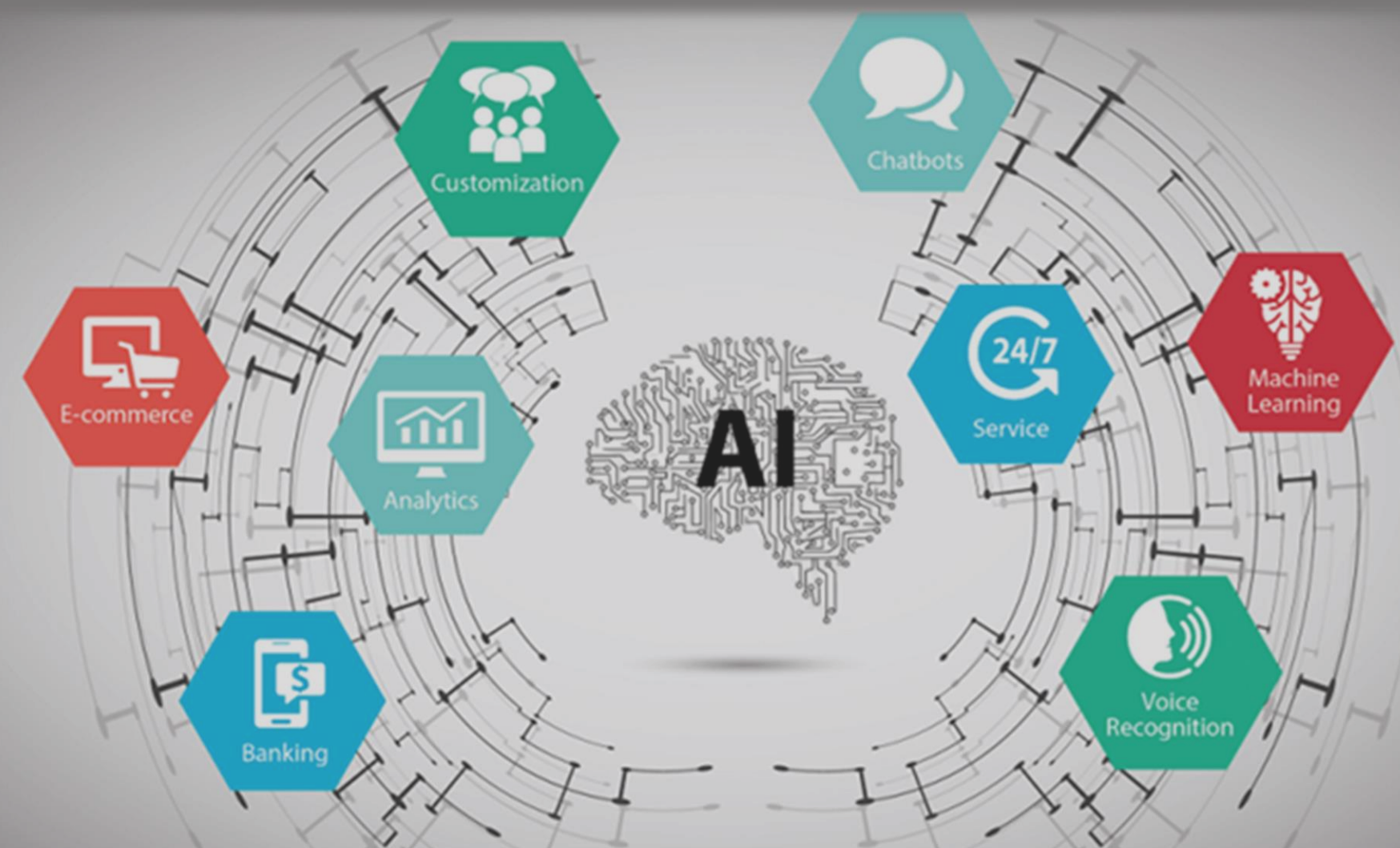
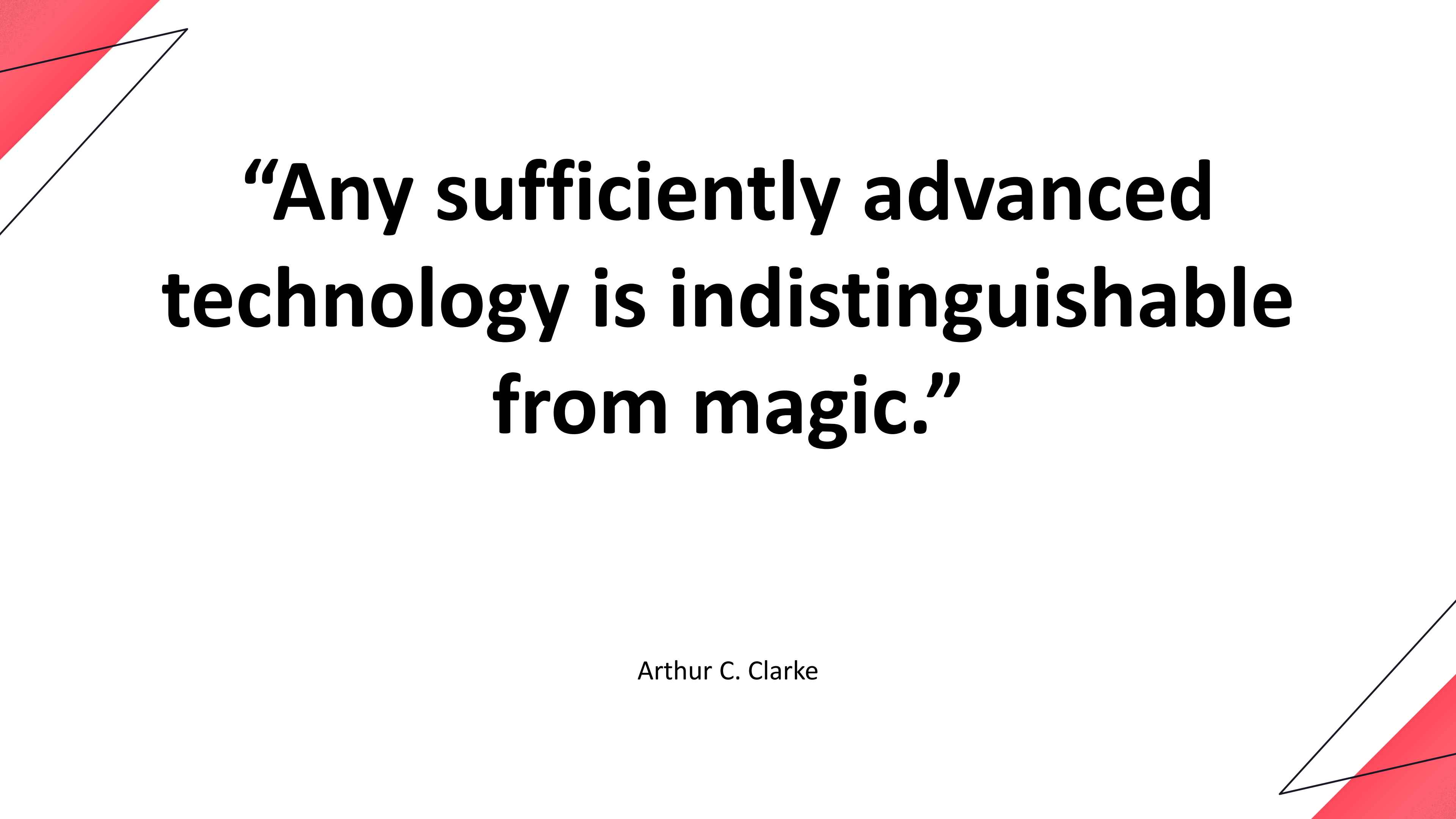


Image retrieved from TeckCrack Blog at <https://www.techcrackblog.com/2020/07/how-e-commerce-becomes-smarter-with-ai.html>



Seamlessly integration into existing solutions
Harness the power of data-driven
Automation and intelligent decision-making

Real-time analytics
Instant and Informed decision making
Dynamically adjusting resource allocation

The image features a white background with two red geometric shapes in the corners. In the top-left corner, there is a red triangle with a black line extending from its vertex towards the center. In the bottom-right corner, there is a red triangle with a black line extending from its vertex towards the center. The main text is centered and reads:

**“Any sufficiently advanced
technology is indistinguishable
from magic.”**

Arthur C. Clarke