Fig. 4. Artificial Intelligence

Necessities and Ethics

C TelcoMira

Al Economic Value

According to McKinsy Global Institute, AI will add annauly a value of 13 Trillion US dollars by the year 2030.





Why 5G?

Enhanced Mobile Broadband

> 10 Gbps Peak 100 Mbps Average







Massive
Machine-Type
Communication

10x Connection Density vs. 4G 10 Years Battery





Ultra-Reliable & Low-Latency Communication

< 1 ms Latency ~ 99.99999%









Why 5G?



- Low Latency
- High Bandwidth
- Offload Processing

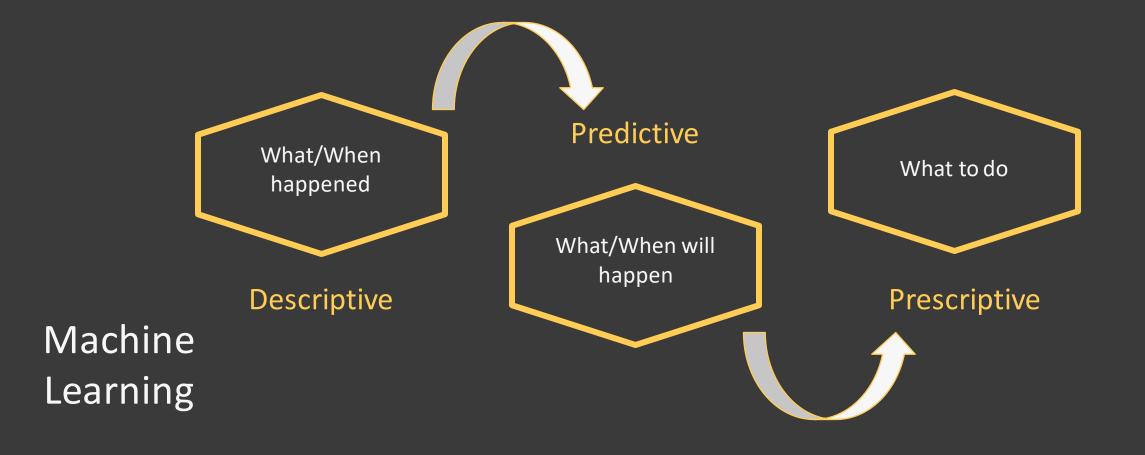
Personalized AI Enhance Security

- Evolution of Cloud Computing.
- Migrating application housed in data centers to network edge "closerto consumer"
- Can be deployed anywhere in the network.
- Either radio or fixed network.



Why AI?

- Ability for a machine to perform cognitive function like a human mind.
- Al consists of three elements: Sensors, Operational Logic and Actuators.





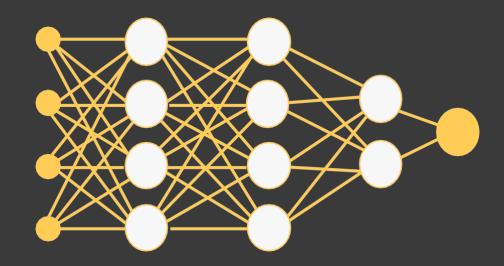
Why AI?

Supervised Learning



- Input to Output Mapping.
- More data will lead to better performing AI, but to a certain extent.

Deep Learning

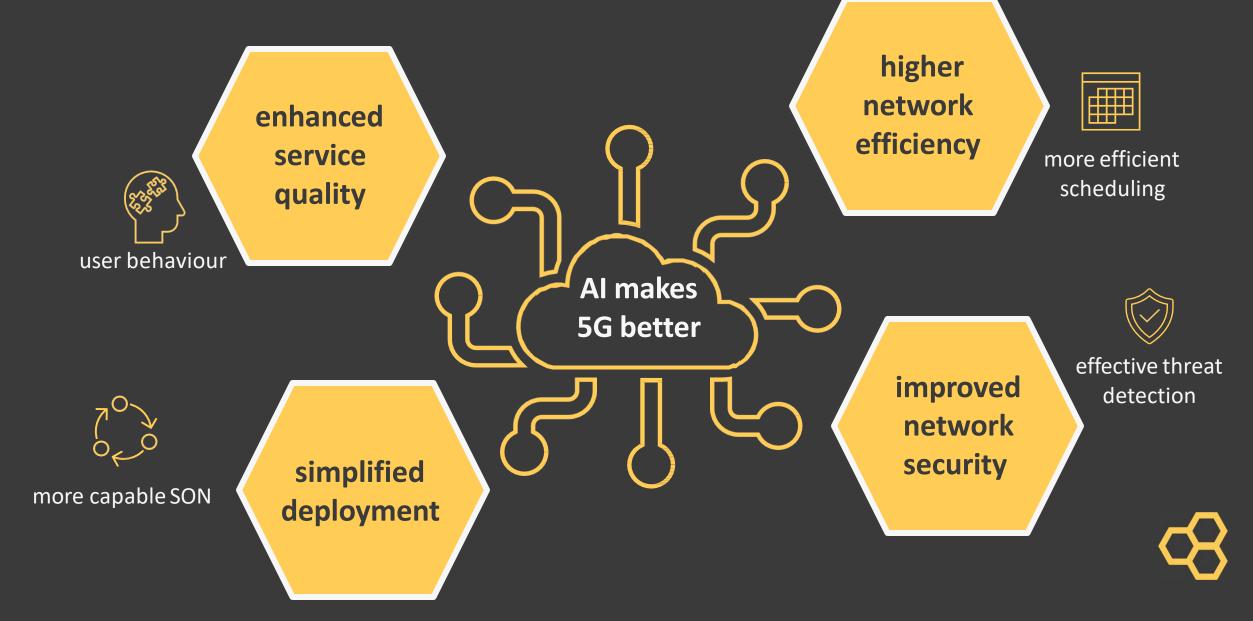


Neural Network

- AI has taken off due to "Deep Learning".
- Al performance depends on the size of the Neural Network.



Why AI for 5G?



Why 5G for AI?

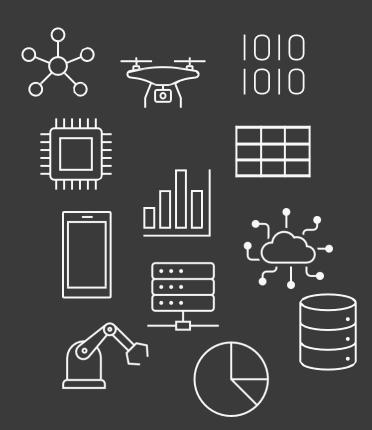
5G makes AI better by providing more **DATA**

interconnected sensors



high bandwidth, low latency

distributing and offloading
Al computing







Ethics in Al **Data Justice** Discrimination **Privacy** Fairness





Get in Touch

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