Microsoft AI

5G-是什么与做什么
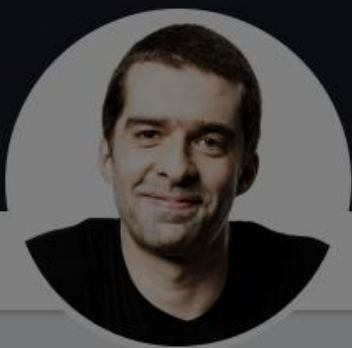
韦青 微软(中国)首席技术官

Prelude

物理世界是有物理局限的

所有进步都是有代价的

拿AI做个借鉴

Mat Velloso
@matvelloso

Difference between machine learning and AI:

If it is written in Python, it's probably machine learning

If it is written in PowerPoint, it's probably AI

5:25 PM - 22 Nov 2018

8,353 Retweets 23,247 Likes

200   ⟲ 8.4K   ♡ 23K

Mat Velloso @matvelloso · 22 Nov 2018
Thank you, thank you, I'm here most evenings, making nonsensical jokes and swearing at keras LSTM because this input shape thing makes no sense what the hell

10   ⟲ 11   ♡ 384

Mat Velloso @matvelloso · 23 Nov 2018
I think this joke is over fitting...

6   ⟲ 19   ♡ 457

Mat Velloso @matvelloso · 23 Nov 2018
People complaining that I use keras lstm: I am not a data scientist, I can't probably tell k-means from a bowl of cornflakes.

My PowerPoints are great though

5   ⟲ 12   ♡ 275

Mat Velloso
@matvelloso

Technical Advisor to the CEO at Microsoft and developer advocate at heart. Opinions here are mine only, don't take them too seriously

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Joined April 2009
1,304 Photos and videos

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* Mat是微软CEO Satya Nadella的技术助手

变革探索在5G前夜未完待续

… …

可以看出在这次CESA上，许多企业已经将曾经停留在"PPT"上的内容逐渐落地，乍一看似乎整个展会上没有新鲜的"概念"，众多参展商让这科技展看起来更像一个"招商会"，但是，对新事物的消化、演进和实现能力，才是当下整个科技制造业最迫切需要的。

… …
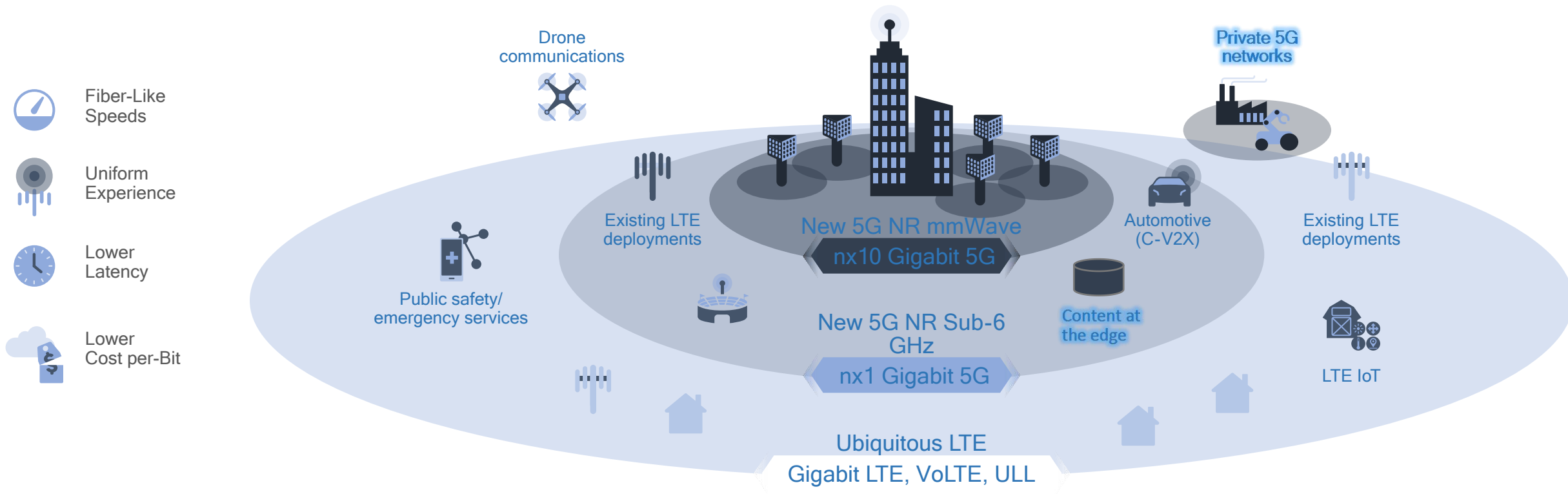
总结下来，两句先贤的智慧

知其雄，守其雌

与其坐而论道，不如起而行之

信息纷杂世界的入门诀窍：
找源头

3GPP和IMT

5G到底是能给大家带来什么？

5G NR
5G NSA/SA
Sub-6G/mmWave
Slicing
Virtualization
ONAP

What is 5G?

1. **Ubiquitous 4G Gigabit LTE** / IMS as the fallback (43 MOs deployed since 2018) – 100s of Mb/s
2. **5G New Radio (NR) "Sub 6"** – Below 6HGhz spectrum capabilities provides single digit Gbp/s bandwidth with more consistent coverage and lower cost per sub; upgrade existing telecom equip
3. **5G NR "mmWave"** – millimeter wave high frequency capabilities that 10s of Gb/s bandwidth and precise indoor location; new equip needed

Fiber-Like Speeds

Uniform Experience

Lower Latency

Lower Cost per-Bit

Drone communications

Private 5G networks

Existing LTE deployments

New 5G NR mmWave
nx10 Gigabit 5G

Automotive (C-V2X)

Existing LTE deployments

Public safety/ emergency services

New 5G NR Sub-6 GHz
nx1 Gigabit 5G

Content at the edge

LTE IoT

Ubiquitous LTE
Gigabit LTE, VoLTE, ULL

Intelligent Cloud & Intelligent Edge

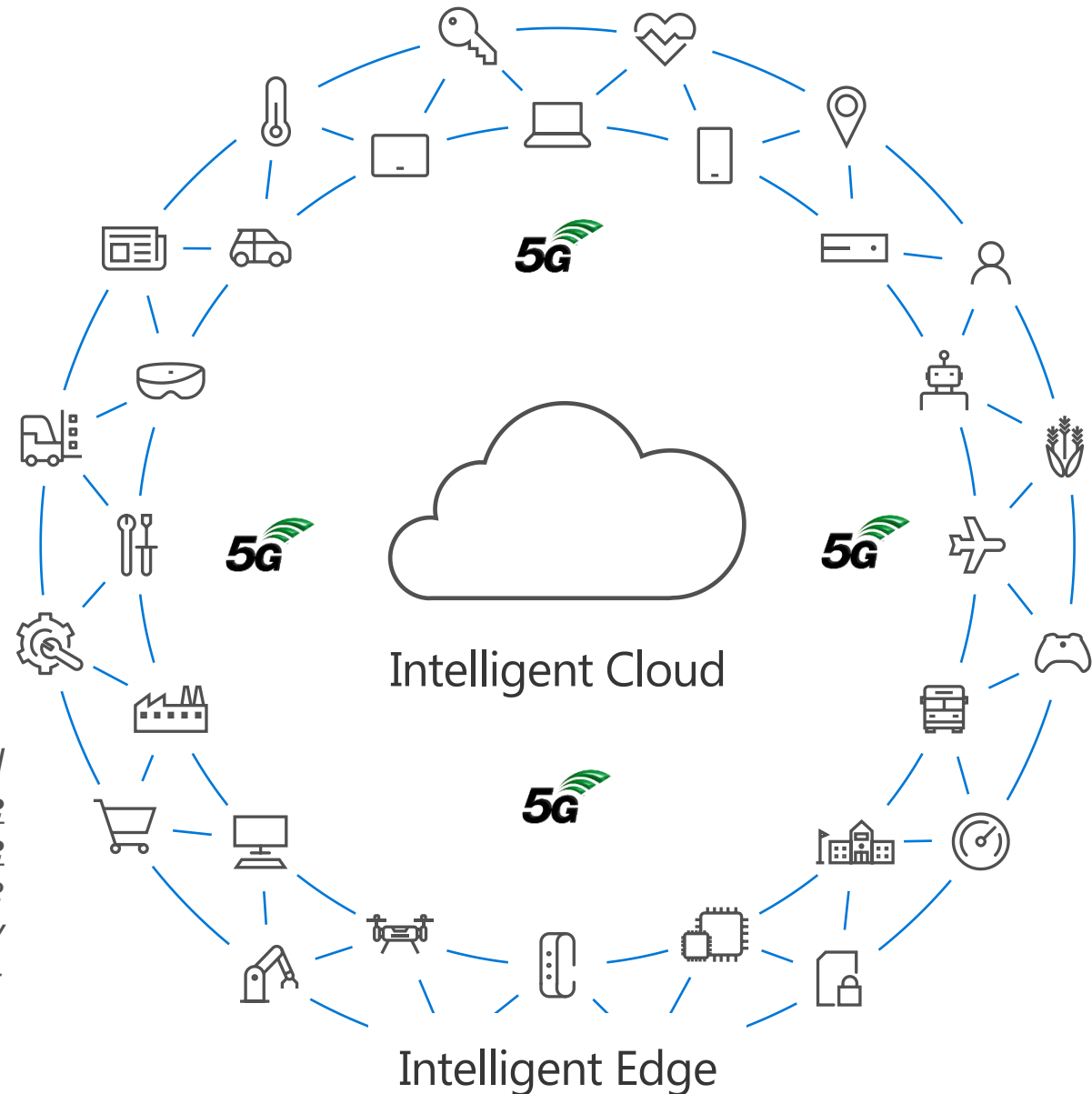Gaming

Modern Life

Modern Workplace

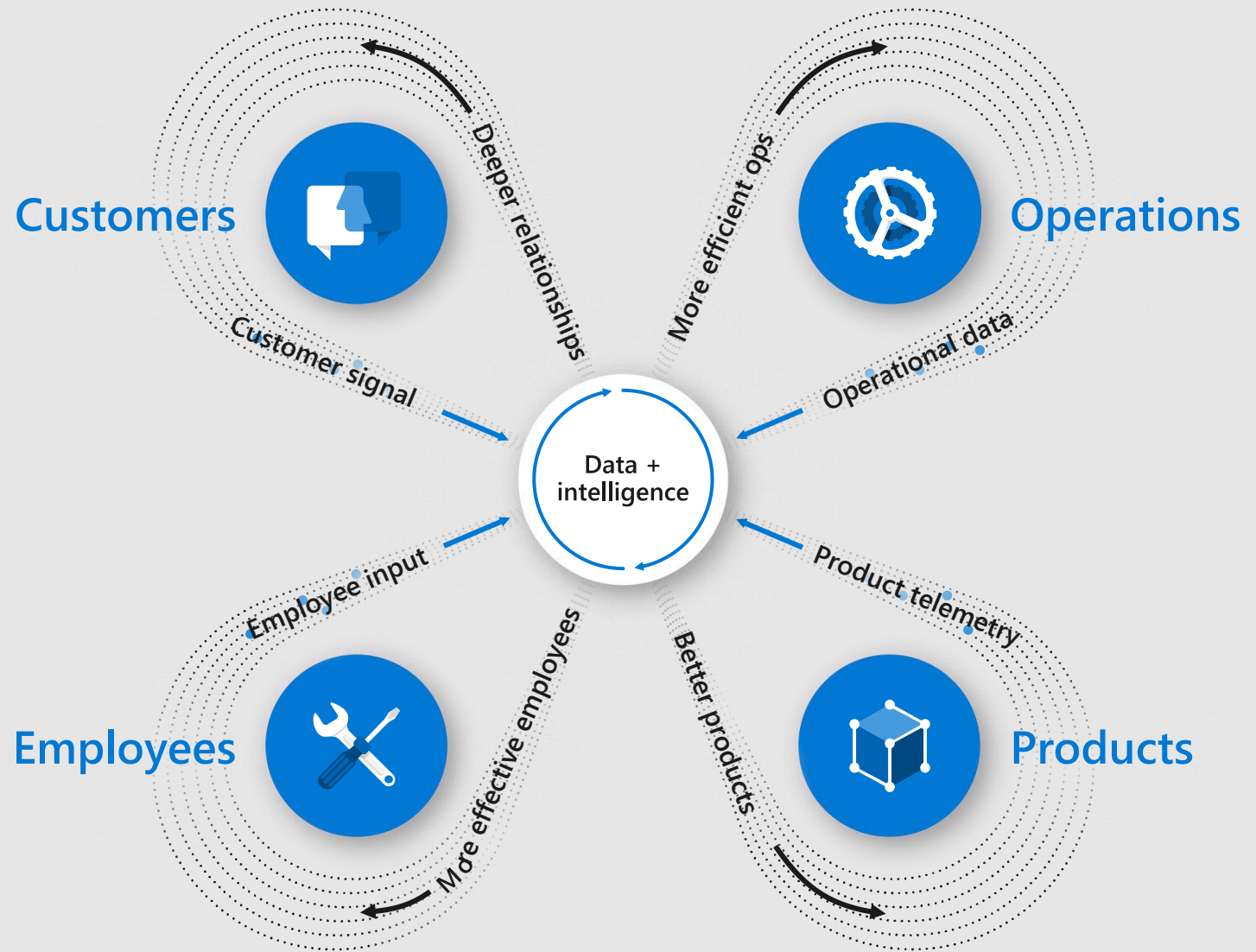Business applications

Applications & infrastructure

Data & AI

*5G is going to help marry the intelligent cloud and the intelligent edge in a way that **brings the power of computing and machine intelligence right to the source -** every device will not only be connected, but intelligent and able to seamlessly operate with the rest of your digital life in real-time*

Intelligent Cloud

Intelligent Edge

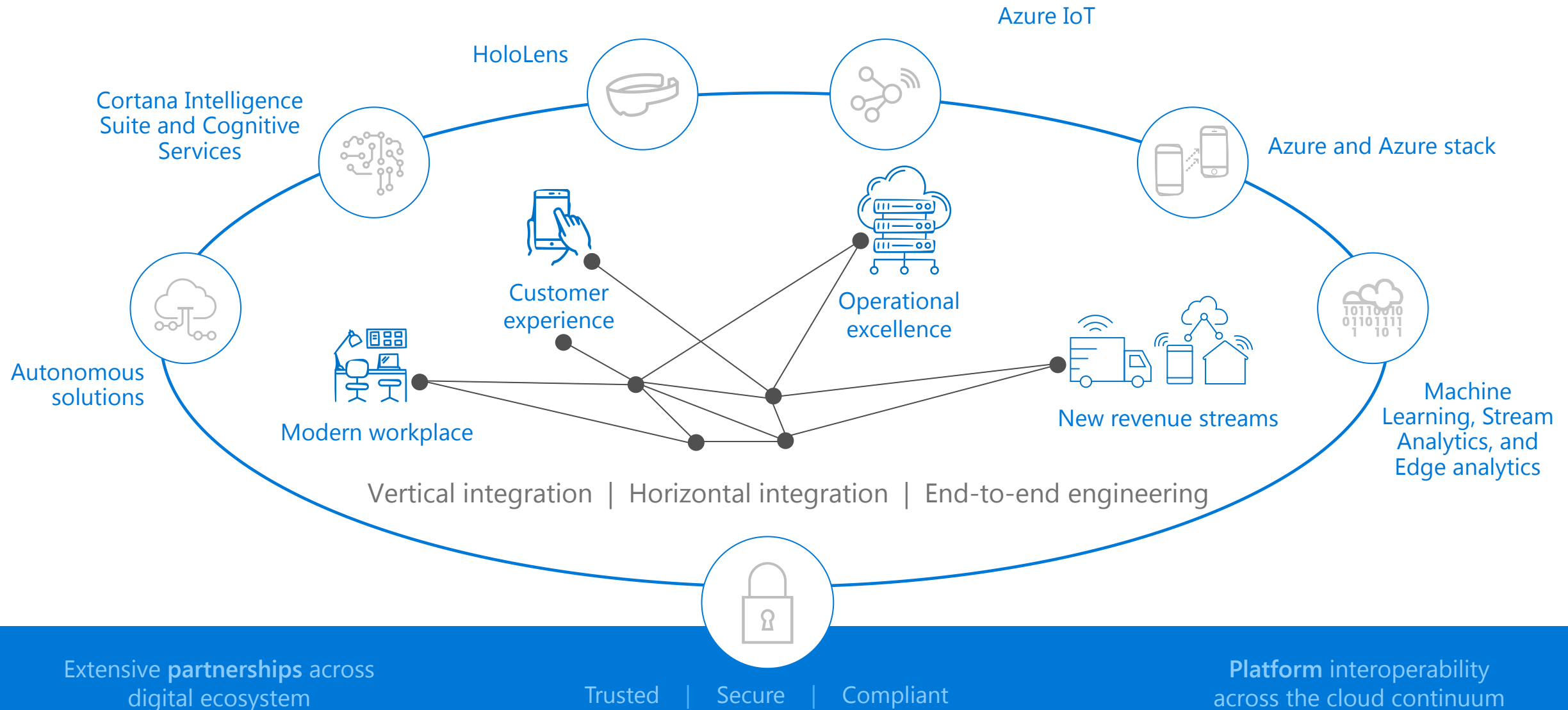# How does 5G enhance the digital feedback loop?

1. Data: Capture digital signal across business
2. Insight: Connect and synthesize data
3. Action: Improve business outcomes

Customers

Operations

Employees

Products

Data + intelligence

Deeper relationships

Customer signal

More efficient ops

Operational data

Employee input

Product telemetry

More effective employees

Better products

Telco Digital Transformation

Cortana Intelligence Suite and Cognitive Services

HoloLens

Azure IoT

Azure and Azure stack

Autonomous solutions

Customer experience

Operational excellence

New revenue streams

Machine Learning, Stream Analytics, and Edge analytics

Modern workplace

Vertical integration | Horizontal integration | End-to-end engineering

Extensive **partnerships** across digital ecosystem

Trusted | Secure | Compliant

Platform interoperability across the cloud continuum

Microsoft

谢谢大家！