

O I in Action

#IoTinActionMS



Rodney Clark

Vice President IoT and Mixed Reality Sales







Tech intensity = (Tech adoption x Tech capability)^{^Trust}

70%

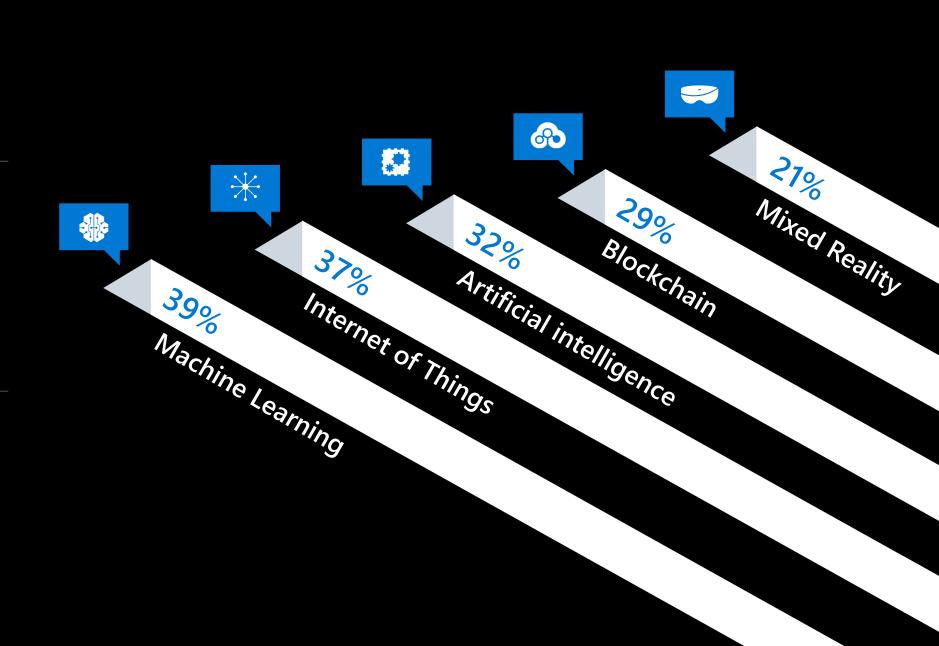
Digital transformation through tech intensity

37%

Leading with IoT engagements

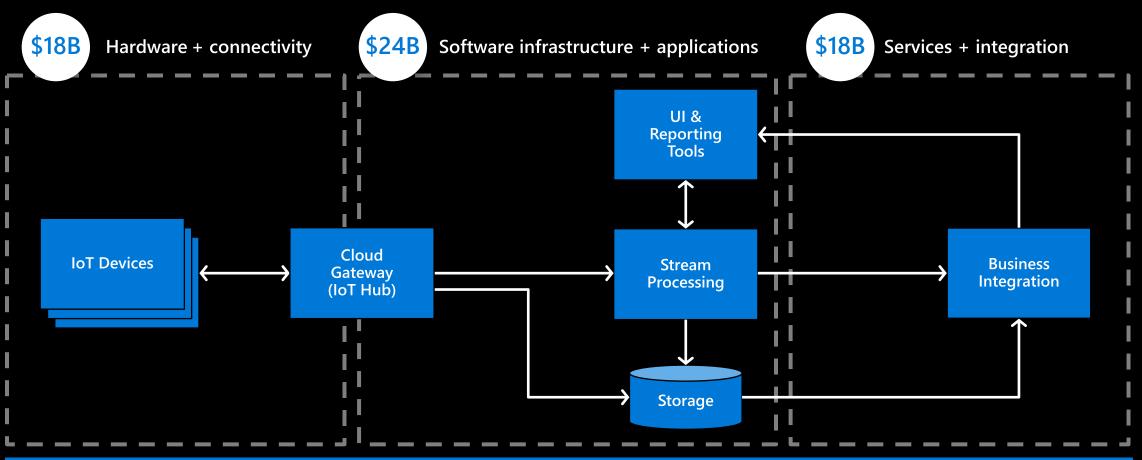
23%

% of Global IoT Projects are Smart City (#1 Vertical)



Blueprint to profitability

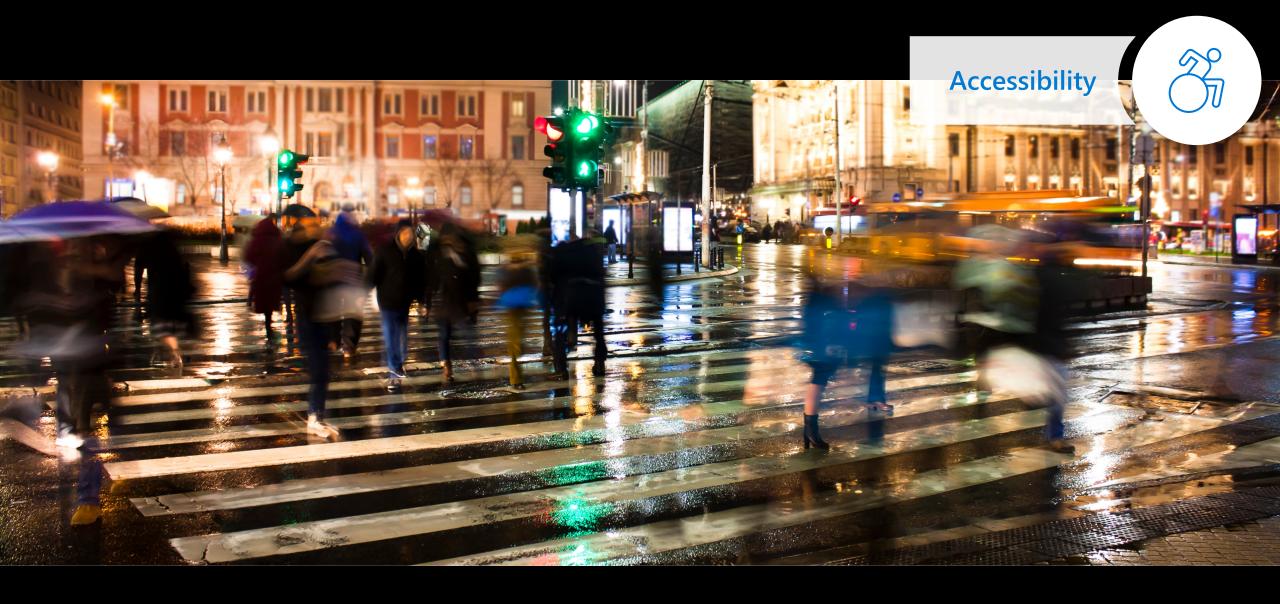
2020 **\$60B** IoT market



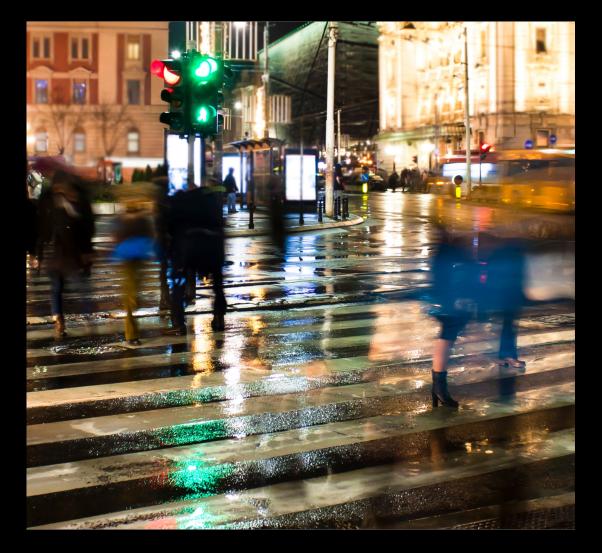
Partner ecosystem

... it needs to be secure and **just work** ... "





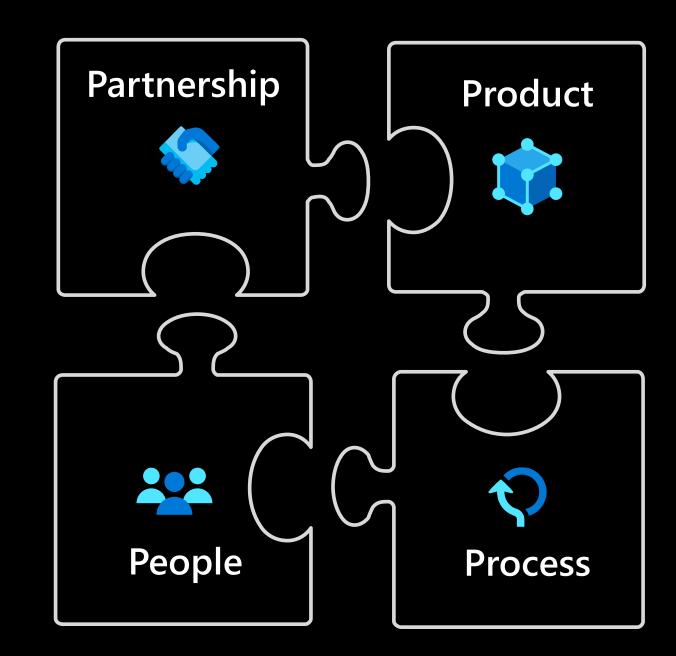






How can any entity profit from their data and cloud platform?

What is the secret to successful implementation?



Success in IoT

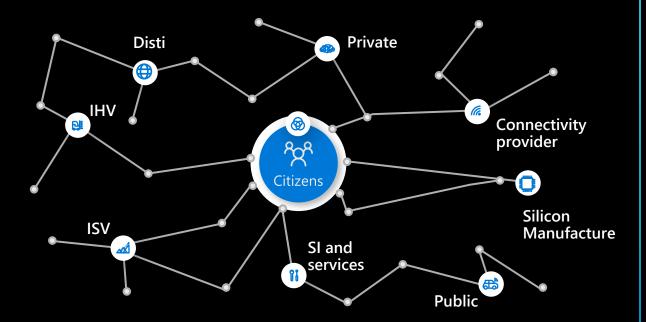


Partnership

Transforming IoT data into meaningful and actionable information is not one size fits all. That's why having a **diverse global partner ecosystem** combined with domain expertise across industries is an imperative. It's how we solve unique challenges with unique solutions....

SIEMENS

Ecosystem



Customer







LOB

IT

Strategy for ecosystemBuild, buy, partner



Microsoft Azure offers extraordinary power, performance and intelligence, and allows us to easily do things with machine learning, edge computing, and artificial intelligence that would be much more difficult otherwise.

Gary Slater,
 Digital and Data Science Architect

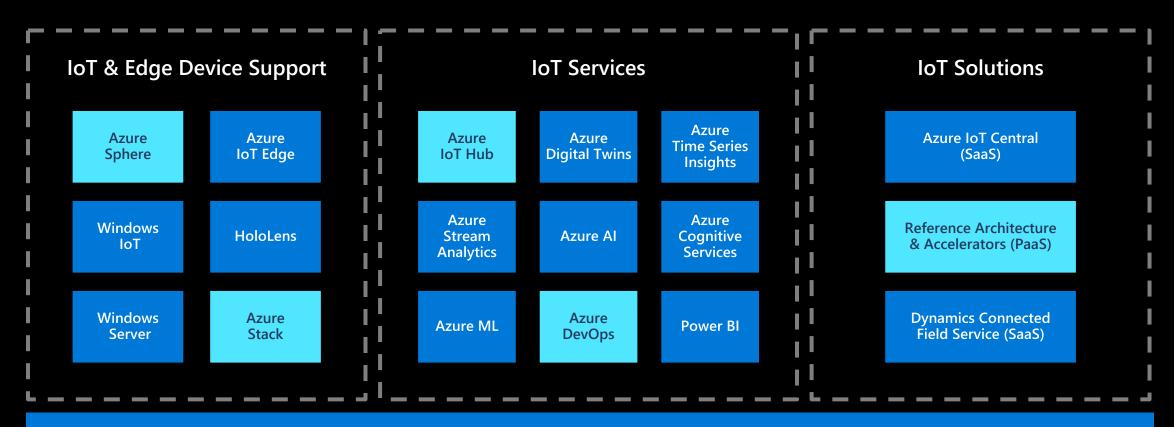


Product



Custom architecture

Microsoft's IoT Platform



Comprehensive and consistent

App platform | Security | Identity | Management

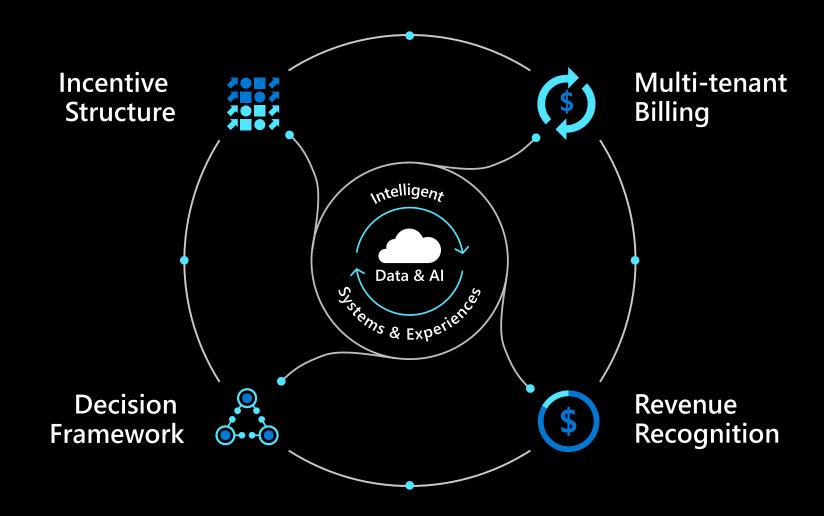


We emphasize collaboration, using realtime data to make it easier for people to work together as a team and achieve better results in less time. And because we're using Microsoft Azure, we can offer global collaboration, so our customers can use it on **any site or in any country** and every user is on the same database.

Sebastian SpindlerKey Account & Partner Manager

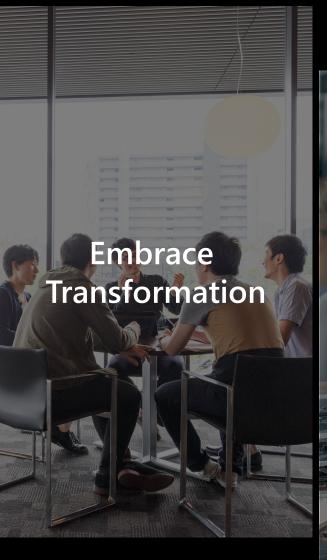


Process

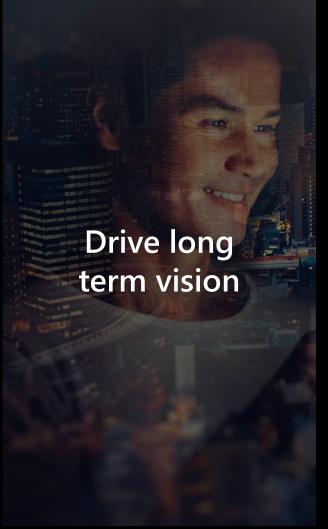






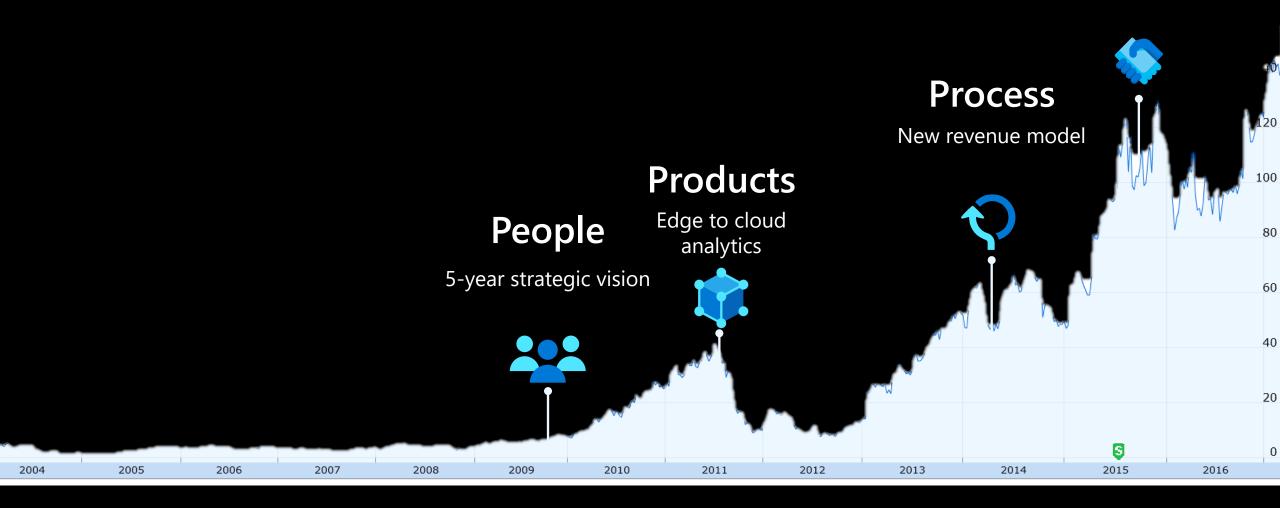




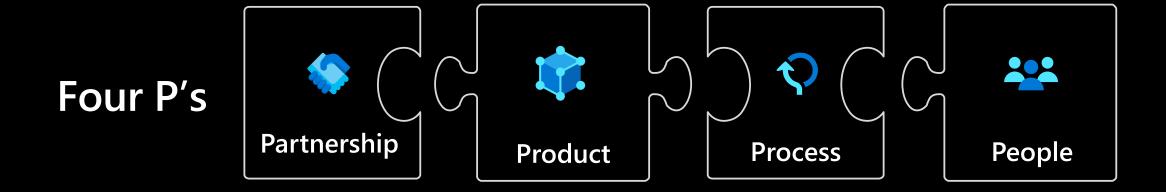


Sustained value

Partnership Industry alliance



Tech intensity = $(Tech adoption x Tech capability)^{Trust}$





O I in Action

#IoTinActionMS



Microsoft for Smart Cities

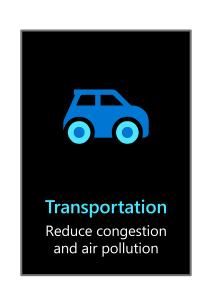
Empowered Citizens
Empowered Communities
Empowered Cities

Susan Wilkinson Business Strategy Lead for Smart Cities, Worldwide Government Industry





Cities and regions around the world face common challenges















PHI·GI·TAL / n

Unwilling or unable to draw a distinction between the physical world and its digital equivalent.

Expectations are changing



Microsoft for Government



40+ years

working with governments, deep industry knowledge and expertise



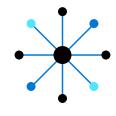
>16k

communities around the world



7+ years

Investment in smart city programs



Ecosystem

>top cloud competitors combined



IoT

Smart City IoT platform leader worldwide*

(*IDC MarketScape 2019-2020)

Most comprehensive set of compliance offerings of any cloud service provider, more certifications than anyone in the market

Industry-leading scale – with >\$15 billion invested in cloud infrastructure, and >1 million physical servers across 54 global regions

Empowered Governments

Empowered citizens. Empowered communities. Empowered cities.









A leader in evidence-based research

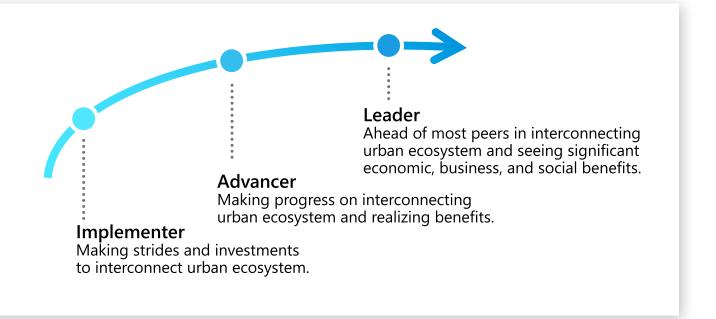
Building a Hyperconnected City

A Global Research Initiative

#HyperconnectedCity

Hyperconnected cities

Hyperconnected cites unlock the greatest economic, business, and social value by leveraging technology to transform and securely interconnect key areas of their urban ecosystems





Technology

101010 010101 101010



Data & analytics

Cybersecurity

Connected citizens

Cities must overcome common obstacles

To gain the full benefits of a smart, hyperconnected ecosystem

Obstacles to hyperconnect programs by percentage of	
Gaining support of citizens and other stakeholders	52%
Making sure the speed of development keeps up with business and citizen needs	47%
Complexity of procurement	44%
Keeping pace with technological change	37%
Policy and regulatory barriers	36%
Managing cybersecurity/data privacy	36%

Gaining support is challenging, but essential

Cities need to overcome the current disconnect between what cities are doing and what citizens think they are doing.

Effective communication is also crucial in overcoming another major challenge: keeping up with business and citizen needs.

Stakeholders who are very to extremely familiar with smart city activities.



Business leaders

88%



Elected Officials

65%



City employees

40%



Average Citizens

32%

AI Business School for Government

The Microsoft Al Business School is an engaging master class series that empowers business leaders to be successful and get results from Al:



Define an AI strategy to create business value



Discover ways to foster an Al-ready culture in your business



Identify guiding principles for responsible AI in your business



Introduction to AI technology for business leaders



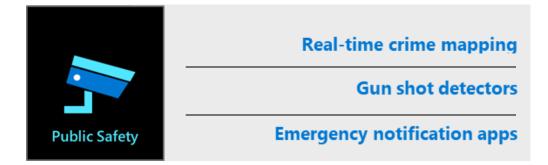






Top Smart City services driving high returns









Jerusalem light rail

Case Study

	Before	After	Benefits
Travel time	80 min	42 min	47%
# trams required	32	21	34%
Tram frequency (headway)	15 min	5 min	66%
# of passengers	40,000	200,000	400%

FINANCIAL BENEFITS

- Fleet savings \$600 million
- 28% Less power to operate Trams
- Travel time savings: \$43 million p.a.
- Dramatic reduction of pollution in the city center



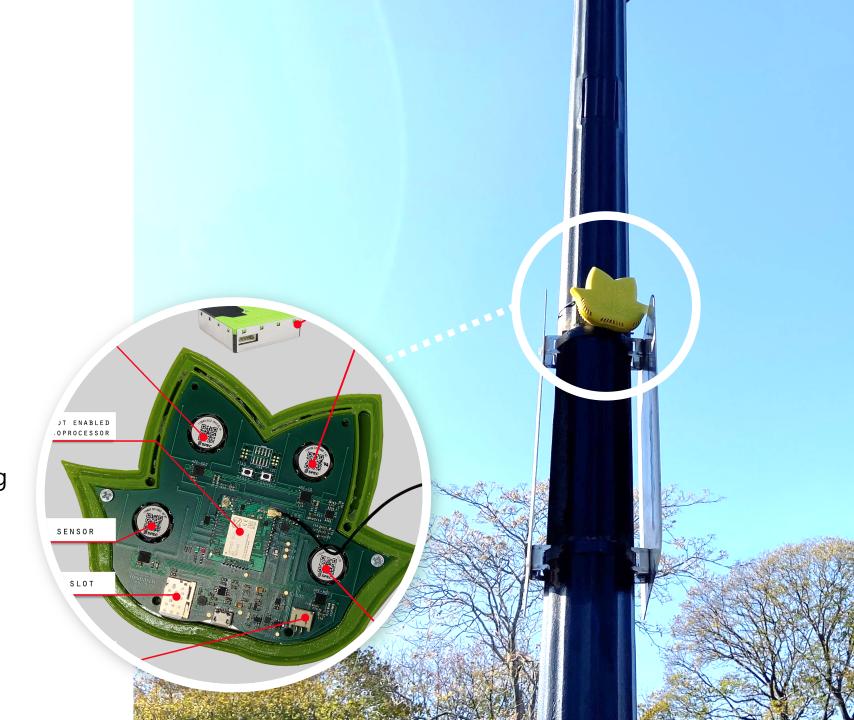


Microsoft Research

Case Study

Project Eclipse Air Quality Sensor

A low-cost, end-to-end air quality sensing platform for cities aiming to increase the geographic granularity of environmental sensing for public health scenarios.



Project Eclipse

Simple mobile apps "Haze" Immersive AR experiences





We believe in what people make possible

Our mission is to empower every person and every organization on the planet to achieve more.

















Next Steps

- 1 Learn more about how Microsoft can help you achieve your <u>smart city vision</u>
- Download Hyperconnected city eBook and explore the accompanying interactive benchmarking tool



- Download IDC white paper Building Smart Communities of the Future
- 4 Get started today with <u>Azure IoT Central</u>

<u>Industry templates</u> for waste, water quality, water consumption monitoring and smart meter monitoring

