

DIGITAL TRANSFORMATION






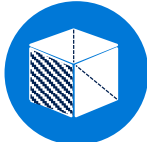

In Financial Services

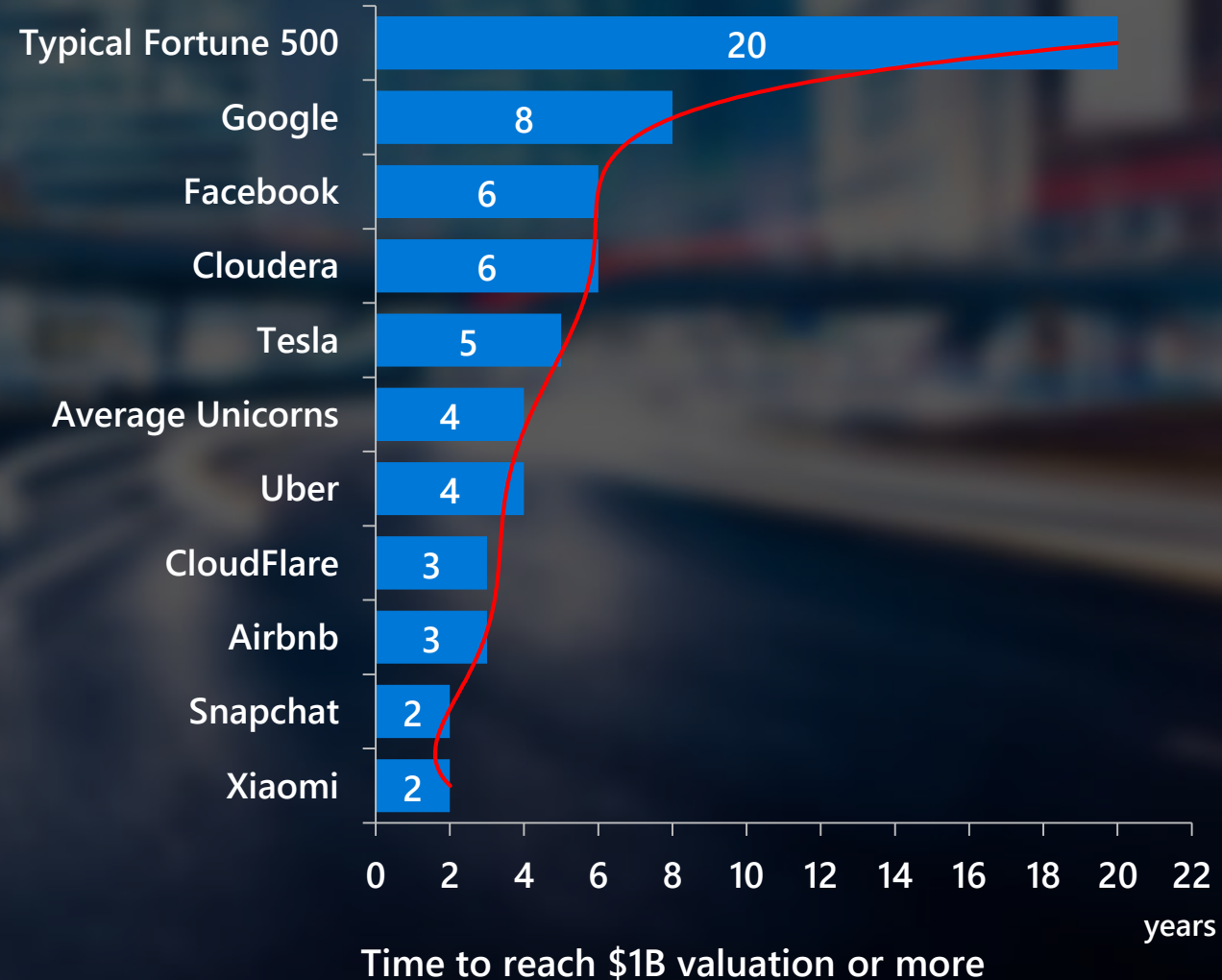
Raimond Nol
Business Manager Financial Services
Commercial Enterprise Netherlands



The scale and pace of change



An astonishing pace of change is accelerating transformation. Technology is more affordable and accessible than ever before.

	Drones	2007	\$100,000
		2017	\$100
	3D Printing	2007	\$40,000
		2017	\$100
	Industrial Robots	2007	\$550,000
		2017	\$20,000
	DNA	2000	\$2.7bn
		2007	\$10m
		2017	\$75
	Solar (KWH)	1984	\$30
		2017	\$2,50
	Sensor (3D)	2009	\$30,000
		2017	\$80
	Smartphones	2007	\$499
		2017	\$10



The need to transform is real, as are the challenges

~65% Maintenance dominates IT budgets Source: Celent

	NORTH AMERICA	EUROPE	APAC
	71,5%	80,6%	71,3%
	60,0%	55,6%	63,2%

Cloud key to changing this paradigm

Compliance and regulations pressure is increasing

GDPR, FRTB, MIFID2, PSD2 ...

... while managing the realities of risk, regulation, legacy systems and cost pressure

Need to deliver digital customer experiences

Focus on maintenance, compliance and regulations

delivering digital customer experiences ...

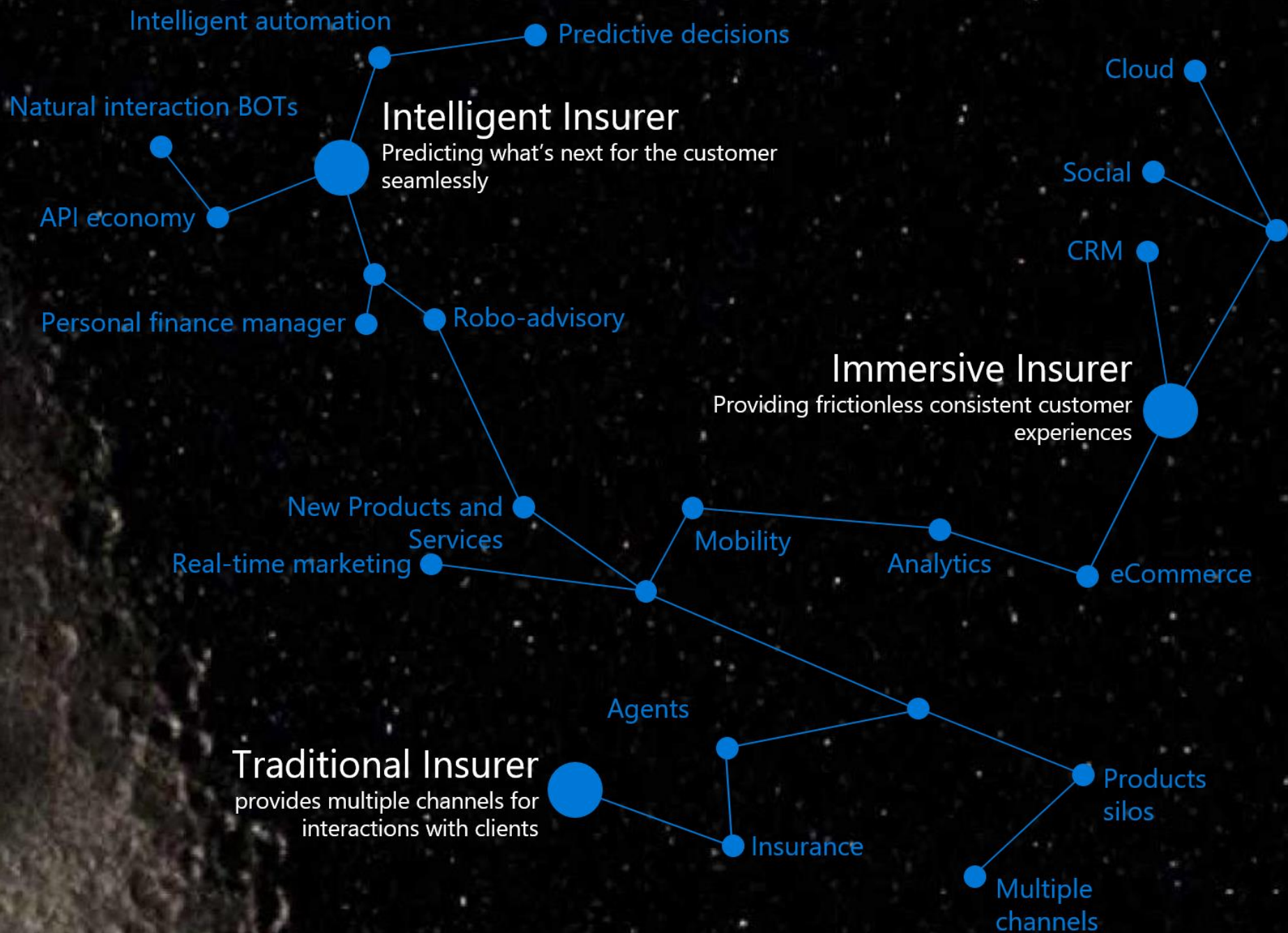
48% rely on comments on social media when buying insurance Source: Accenture

79% will only use a digital channel for insurance interaction Source: Bain & Company

80% of customers would switch to an insurer that provided personalized services Source: Accenture

Digital Insurance Journey

Yesterday		Today		Tomorrow
<i>Pre-Digital 50+ years ago</i>	<i>Early Digital 25 to 50 years ago</i>	<i>Basic Digital 25 years ago to today</i>	<i>Advanced Digital Today's Digital Leaders</i>	<i>Future Digital Tomorrow</i>
Paper-based insurance sales and operational processes	Monolithic core insurance systems Accounting systems	Agent portals & Collaboration Customer portals 360 degree customer view Enterprise Social Networking Call center automation	Omni-channel Delivery IoT – Use Based / Connected Home Core Systems in the Cloud Social as channel Mobile sales, service, claims self Service	Advanced Predictive Analytics and Machine Learning Right offer, right time, right channel IoT – Wearables Advanced straight-through processing Blockchain & Bots
Role of Data in Insurance				
Summing up revenue and expenses	Silos of hard to access data	Exposing more data to agents and customers	Many sources, data mining for trends, available to everyone in real time.	Petabytes, increase of 3 rd data sources, predictive analytics and ML/AI

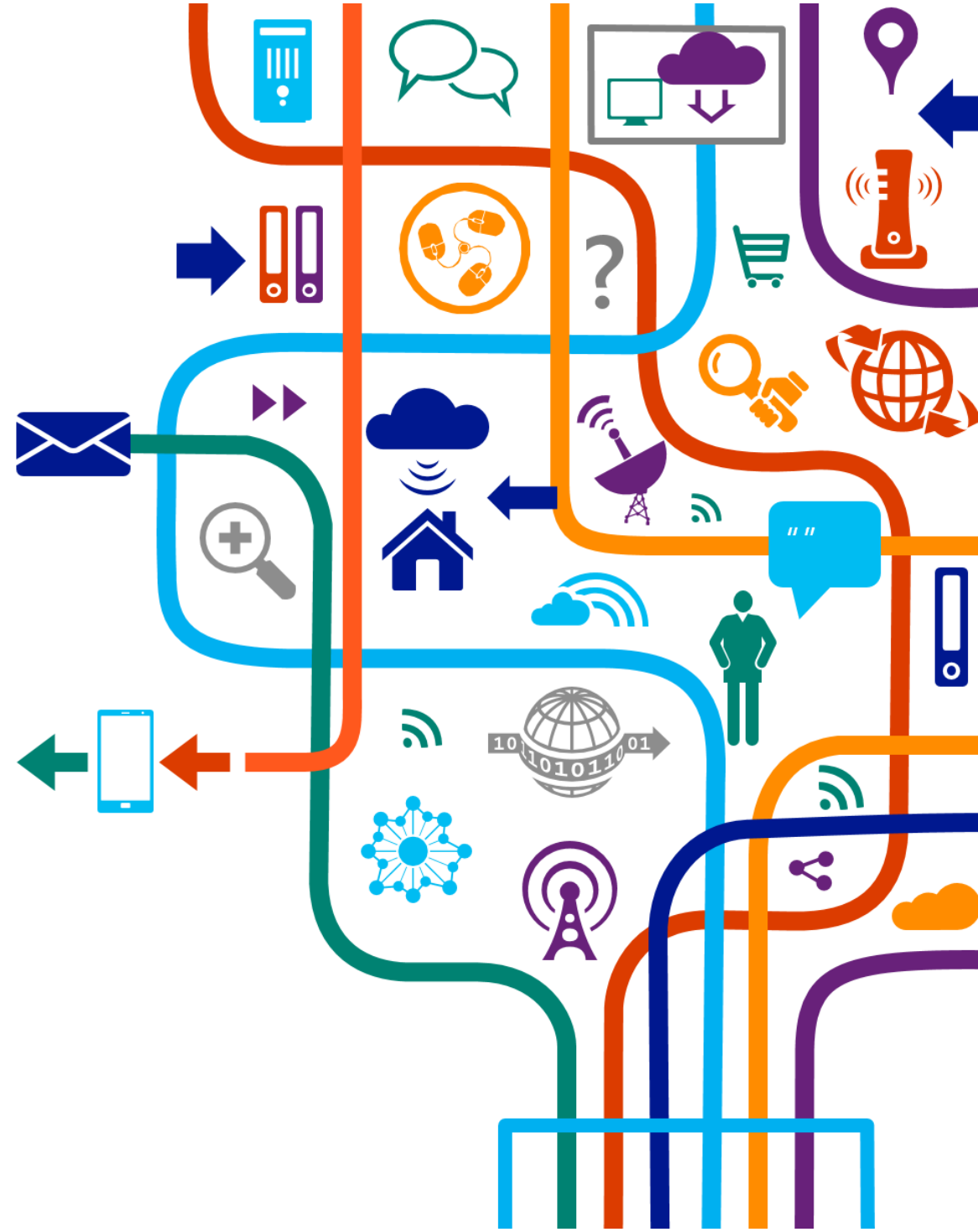


The ultimate goal is the provision of a single experience for customers through all interfaces – one seamless end-to-end journey to the desired customer outcome.

To become the financial trusted advisor.

Internet of Things

“The network of physical objects that contain embedded technology to communicate and interact with their internal states or the external environment.”



Empowering financial services

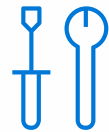
Managing the realities of risk, regulation, legacy systems and cost pressures

Delivering innovative customer and employee experiences with speed and agility



ENGAGE YOUR CUSTOMERS

to help increase relevance, loyalty, and profitability



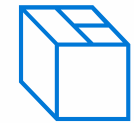
EMPOWER YOUR EMPLOYEES

to innovate faster and meet client needs



OPTIMIZE YOUR OPERATIONS

for efficiency, compliance, and risk management



TRANSFORM YOUR PRODUCTS

to unlock new opportunities and achieve growth

Transforming Insurance



Digital Insurer

Improve Customer Engagement



Intelligent Insurer

Provide Insight
Manage Risk



Agile Insurer

Improve Core Processes



Future Insurer

What's next in Insurance?

How we think about IoT

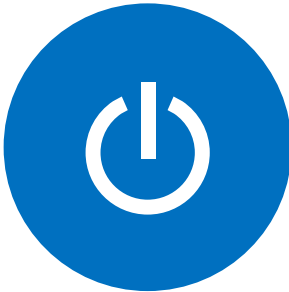
Build
Things



30B

connected devices
by 2020

Control
Data volume



10 X

Amount of data in
2020. (44ZB)

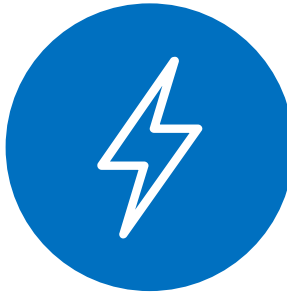
Gain
Insights



10%

of the data on earth
will come from IoT
by 2020

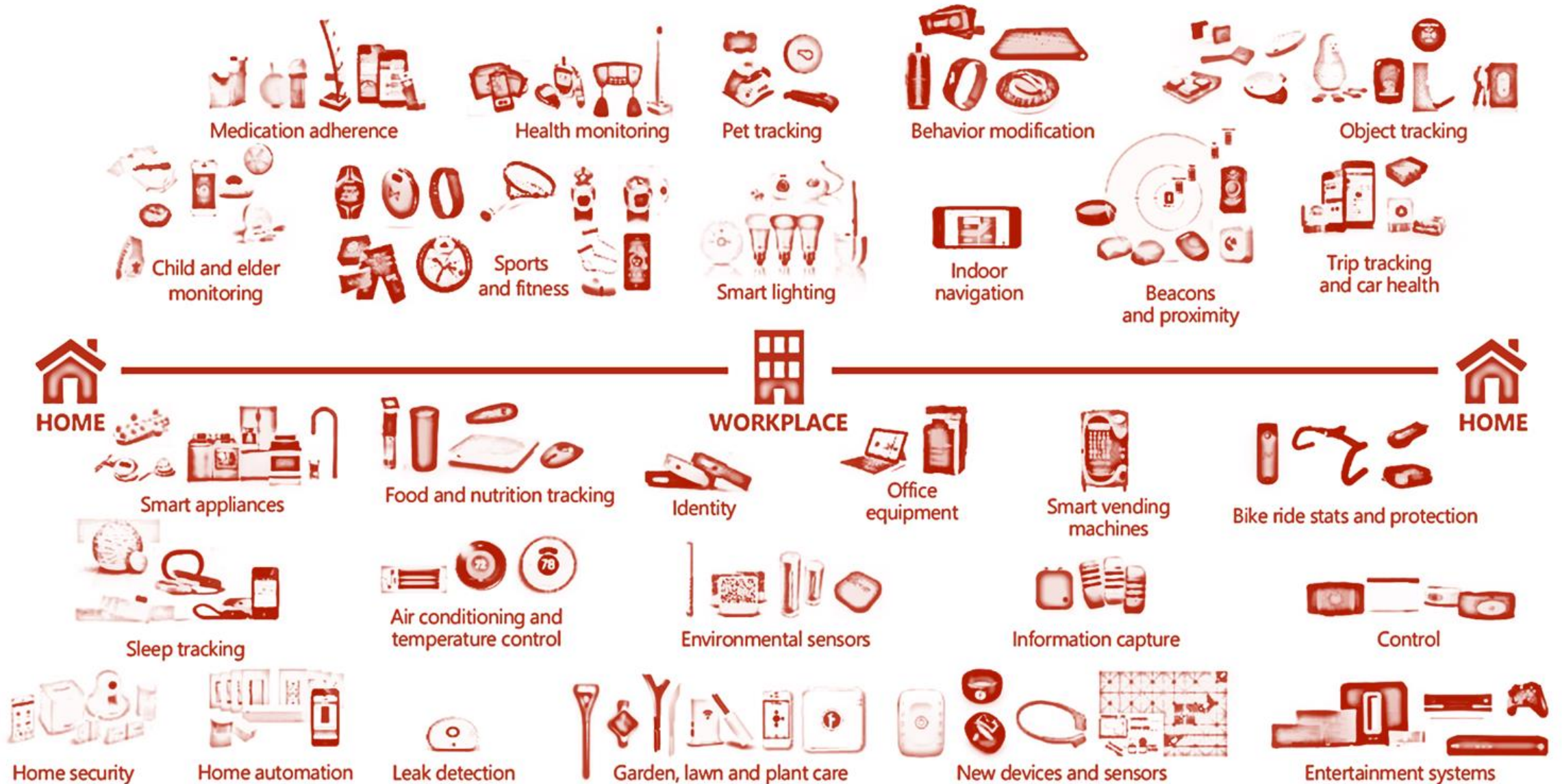
Take
Action



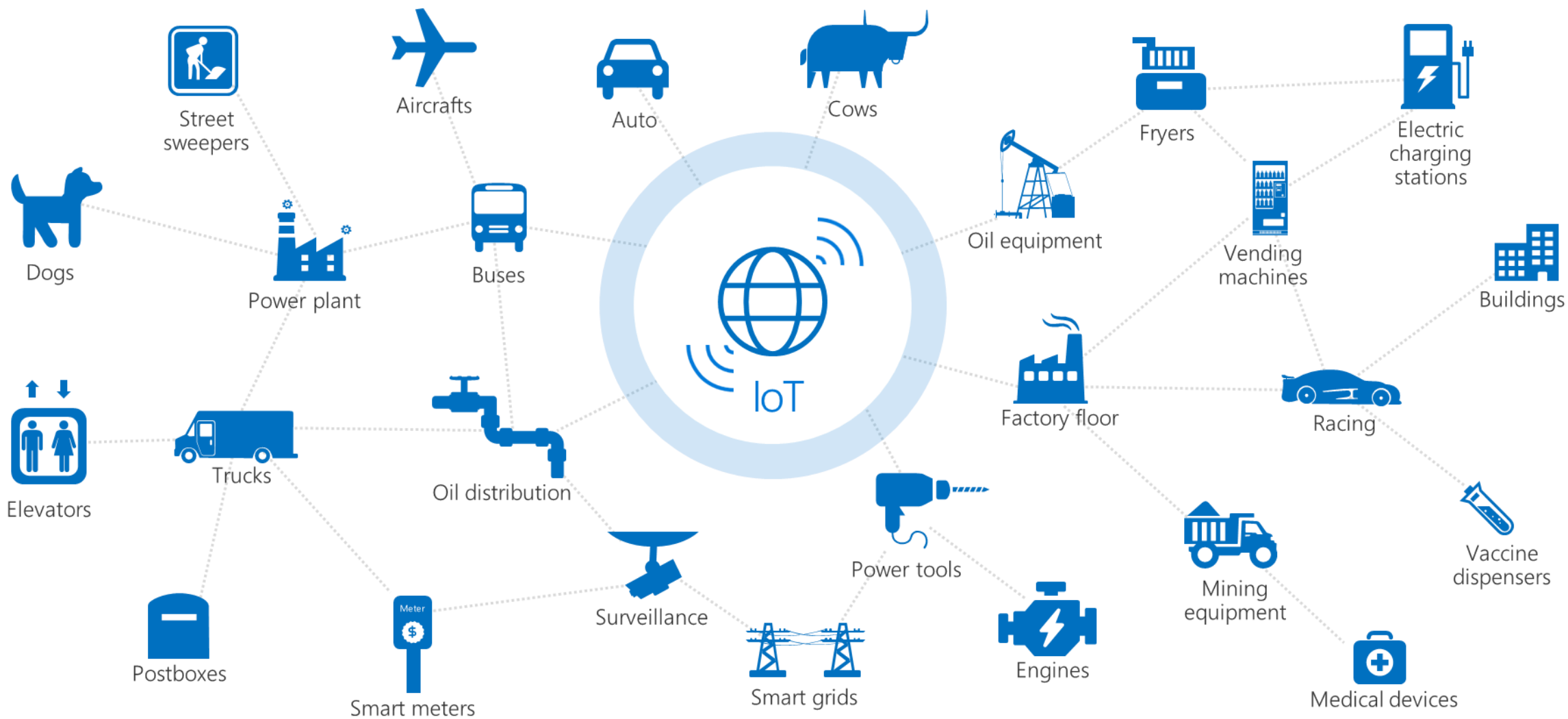
\$10B

market for business
process automation
tools by 2020

Things ...



Innovation at work – real IoT use cases



IoT is already delivering results across industries



Connected chillers are back online 9x faster than unconnected equipment, avoiding more than \$300,000 in hourly downtime costs



“Power by the hour” model maximizes aircraft availability, while cutting fuel usage by 1%, saving \$250,000 per plane, per year



Data from sensors and systems create valuable business intelligence and reduce downtime by 50%



Access to production and supply chain data worldwide can reduce downtime costs by as much as \$300,000 per day

The logo for WEHR, consisting of the word 'WEHR' in blue, bold, uppercase letters.

The logo for FUJITSU, consisting of the word 'FUJITSU' in red, bold, uppercase letters.

The logo for Schneider Electric, featuring the word 'Schneider' in green and 'Electric' in blue, with a stylized 'E' icon.

The logo for LIEBHERR, consisting of the word 'LIEBHERR' in black, bold, uppercase letters.

The logo for Purell, featuring the word 'Purell' in blue and red, with a stylized 'P' icon.

The logo for HERSHEY'S, consisting of the word 'HERSHEY'S' in brown, bold, uppercase letters.

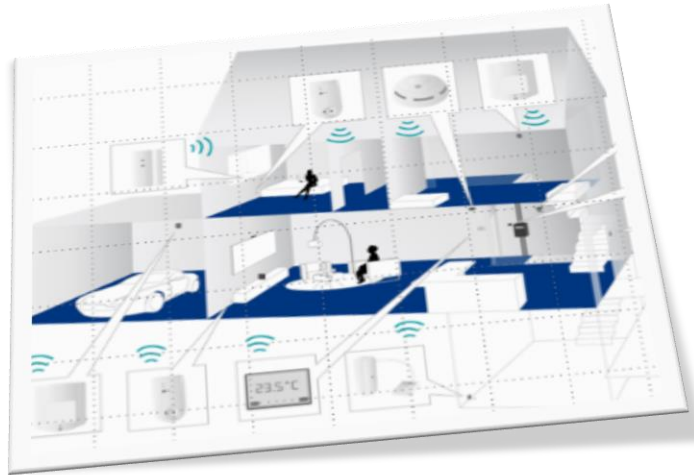
The logo for JABIL, consisting of the word 'JABIL' in blue, bold, uppercase letters.

The logo for ABB, consisting of the letters 'ABB' in red, bold, uppercase letters.

Internet of Things Scenarios in Insurance



**Wearables/
Health Devices**



Connected Home



**Telematics & Usage Based
Insurance (UBI)**

Security & Management

- Security Center
- Portal
- Azure Active Directory
- Azure AD B2C
- Multi-Factor Authentication
- Automation
- Scheduler
- Key Vault
- Store/ Marketplace
- VM Image Gallery & VM Depot

Platform Services

Media & CDN

- Media Services
- Media Analytics
- Content Delivery Network

Integration

- API Mgt
- BizTalk Services
- Logic Apps
- Service Bus

Compute Services

- Container Service
- VM Scale Sets
- Batch
- RemoteApp
- Dev/Test Lab

Application Platform

- Web Apps
- Mobile Apps
- API Apps
- Cloud Services
- Service Fabric
- Notification Hubs
- Functions

Developer Services

- Visual Studio
- Mobile Engagement
- VS Team Services
- Xamarin
- Application Insights
- HockeyApp

Data

- SQL Database
- SQL Data Warehouse
- DocumentDB
- SQL Server Stretch Database
- Redis Cache
- Storage Tables
- Azure Search

Intelligence

- Cognitive Services
- Bot Framework
- Cortana

Analytics & IoT

- HDInsight
- Machine Learning
- Stream Analytics
- Data Catalog
- Data Lake Analytics Service
- Data Lake Store
- IoT Hub
- Event Hubs
- Data Factory
- Power BI Embedded

Hybrid Cloud

- Azure AD Health Monitoring
- AD Privileged Identity Management
- Domain Services
- Backup
- Operational Analytics
- Import/Export
- Azure Site Recovery
- StorSimple

Infrastructure Services

Compute

- Virtual Machines
- Containers

Storage

- Blob
- Queues
- Files
- Disks

Networking

- Virtual Network
- Load Balancer
- DNS
- Express Route
- Traffic Manager
- VPN Gateway
- App Gateway

Datacenter Infrastructure



AXA Connected Home

- Mobile application My AXA to control all these devices remotely from a single interface.
- Coupled with AXA Assistance in order to send help if an emergency is detected



MyFox

A sensor, camera and alarm to detect intrusion attempts [↗](#)



Kiwatch

An entry-level Wi-Fi camera to monitor your home remotely [↗](#)



Philips Hue

A connected LED light bulb that can be controlled remotely [↗](#)



Orange My Plug

A smart plug with connected smoke & water leakage sensors [↗](#)

Zurich safe driving & accident assistance

Zurich safe driving & accident assistance includes three major services:

- **Urgent notice service**
When the on-board terminal detects a strong shock, typical of an accident, it automatically sends a notice to a Zurich accidents center, and also offers the driver active support and practical advice.
- **Safe driving assistance**
The terminal makes audio announcements if it detects sharp turns of the steering wheel or sudden braking.*⁵ Drivers can review their driving for themselves with the smart phone applications. Accumulated driving data will be used for assessing future insurance applications.
- **Video service**
An onboard video camera, mounted on the front shield, provides video output that supports driver safety and security. It also offers the additional value of allowing drivers to take and share videos of drives through scenic areas on their preferred SNS.

The solution server system is built on Microsoft Azure, a cloud service from Microsoft Corporation, and incorporates Bing Maps.



<https://www.zurich.co.jp/car/z-assist/index.html>

Windows Phone

Phones Features **Apps+Games** How-to

Overview Spotlight **Apps** Games Purchase history

personal finance

Aviva Drive



★★★★★
No reviews

Sorry, this app isn't available in your market.

Like 1

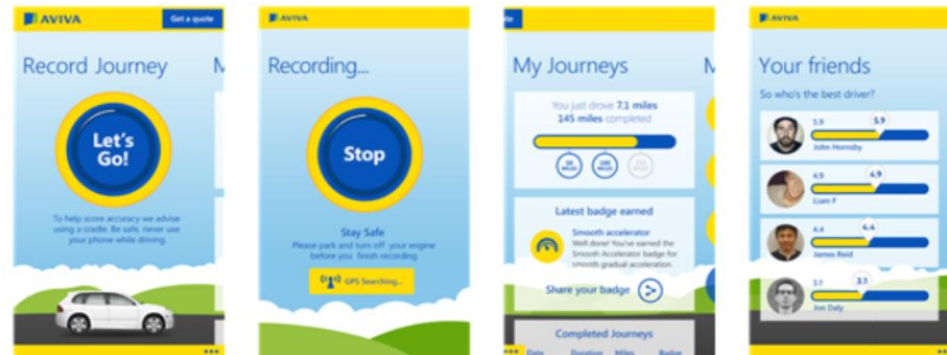
Tweet 3

Test your driving skills with the most comprehensive car insurance. 30

The app uses your phone's GPS badges and share your progress

Once you've completed 200 miles (being the safest). We'll give you

[show details](#)



Telematics and Usage Based Insurance at Aviva

Aviva leverages Windows Phone and the Microsoft Cloud to power Aviva Drive.

Solution Details:

- Implemented for commercial and consumer lines.
- Uses mobile phone's accelerometer and GPS to collect data (Windows Phone, iOS, and Android).
- Data store and in the Azure cloud with Microsoft SQL Server
- 300,000 application downloads
- Incorporates gamification
- Helped raise Net Promoter score

Video see: <https://youtu.be/zRr3swwZTTE>

API economy / Microsoft Cognitive Services



Put intelligence APIs to work

Microsoft Cognitive Services let you build apps with powerful algorithms using just a few lines of code. They work across devices and platforms such as iOS, Android, and Windows, keep improving, and are easy to set up.

Microsoft Cognitive Services API's

Vision



Computer Vision APIs

Preview

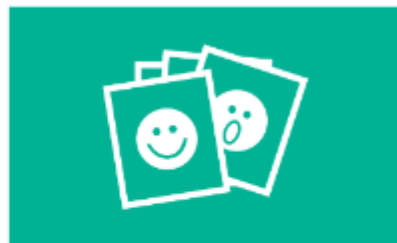
Understand images and generate thumbnails



Face APIs **Updated**

Preview

See your users with Face Detection and Recognition



Emotion APIs **New**

Preview

Understand your users with Emotion Recognition

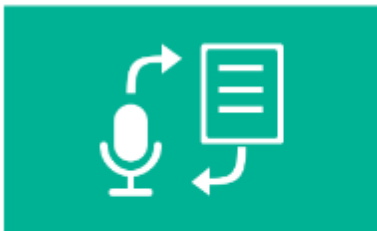


Video APIs **New**

Preview

Understand and transform your videos

Speech



Speech APIs

Preview

Communicate with your users with speech recognition and synthesis powered by Bing



Speaker Recognition APIs **New**

Preview

Recognize your users from their voice using our state-of-the-art Speaker Recognition APIs



Custom Recognition Intelligent Service (CRIS) **New**

Private preview

Customize both language and acoustic models for better speech recognition tailored to your application

Language



Spell Check APIs **New**

Preview

Detect and correct common and uncommon spelling errors, via the Bing document index



Language Understanding Intelligent Service (LUIS)

Preview

Understand natural language commands tailored to your application



Web Language Model APIs **New**

Preview

Leverage the power of language models trained on web-scale data

Face API's



Face Detection Updated

To detect human faces in image with face rectangles and face attributes including face landmarks, pose, and machine learning-based predictions of gender and age.



Face Verification

To check two faces belonging to same person or not, with confidence score.

Similar Face Searching Updated

To find similar-looking faces from many faces by a query face.



Face Grouping

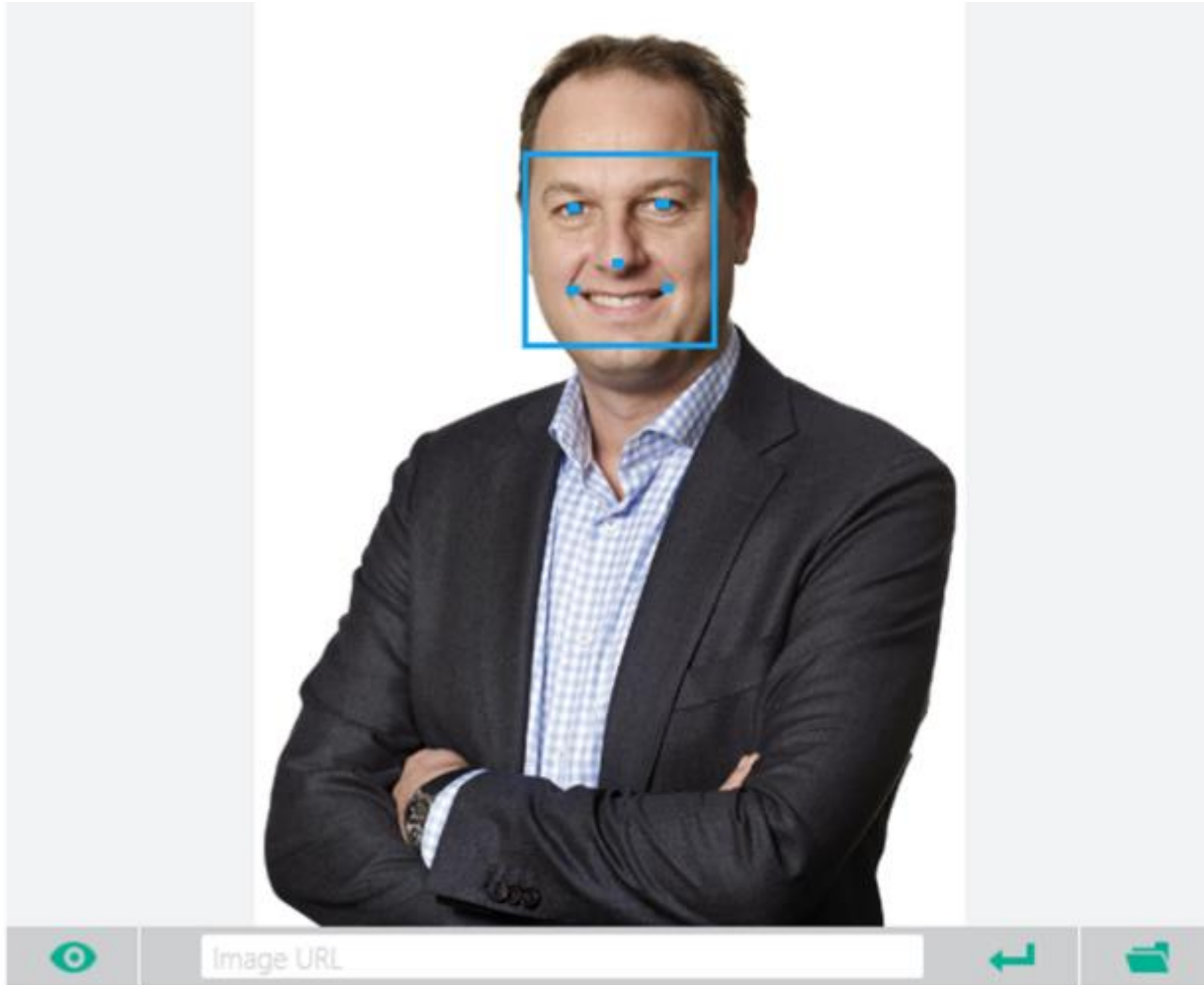
To organize many faces into face groups based on their visual similarity.

Face Identification

To search which specific person entity a query face belongs to, from user-provided person-face data.



Face Verification



Verification Result:
The two faces belong to the same person.
Confidence is 0.643.

"Face API has enabled us to validate more than 70% of credit transactions automatically, build a robust fraud detection system, and free our call centers to focus on supporting our customers."

— Juan Rafael Sierra Escobar, Subgerente de Tecnología, SISTECREDITO S.A.S.

Cloud-based platforms maximize business agility

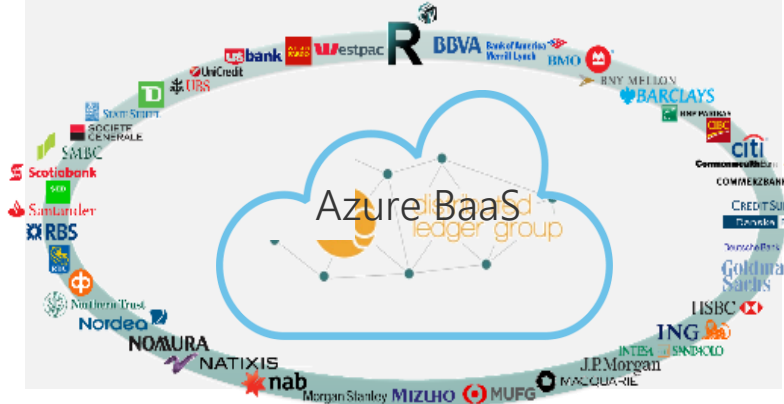
Open API economy



Elastic compute capacity risk modeling



Blockchain and transformational digital ledger

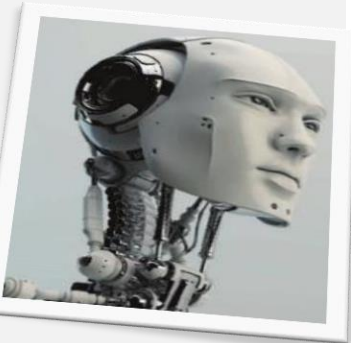


Artificial intelligence

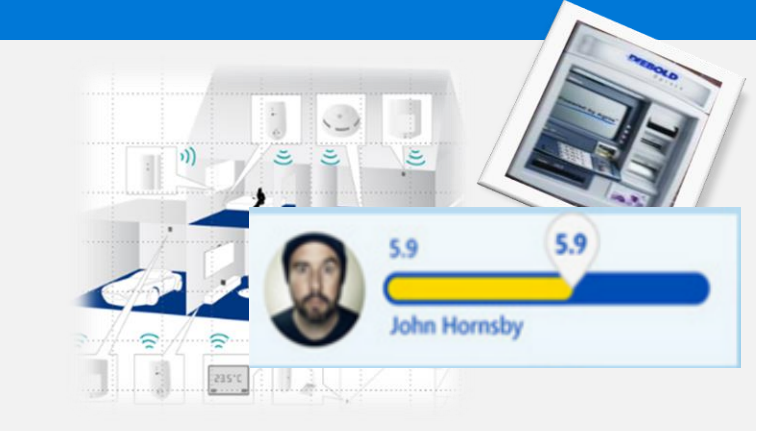


Conversation as a platform (CaaS), chatbots, and robo-advisory

Hi, I'm Cortana
Your Personal Assistant
Conversational apps with >2 billion users



Internet of Things



Empowering financial services

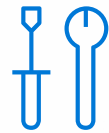
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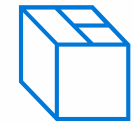
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to innovate faster and meet client needs



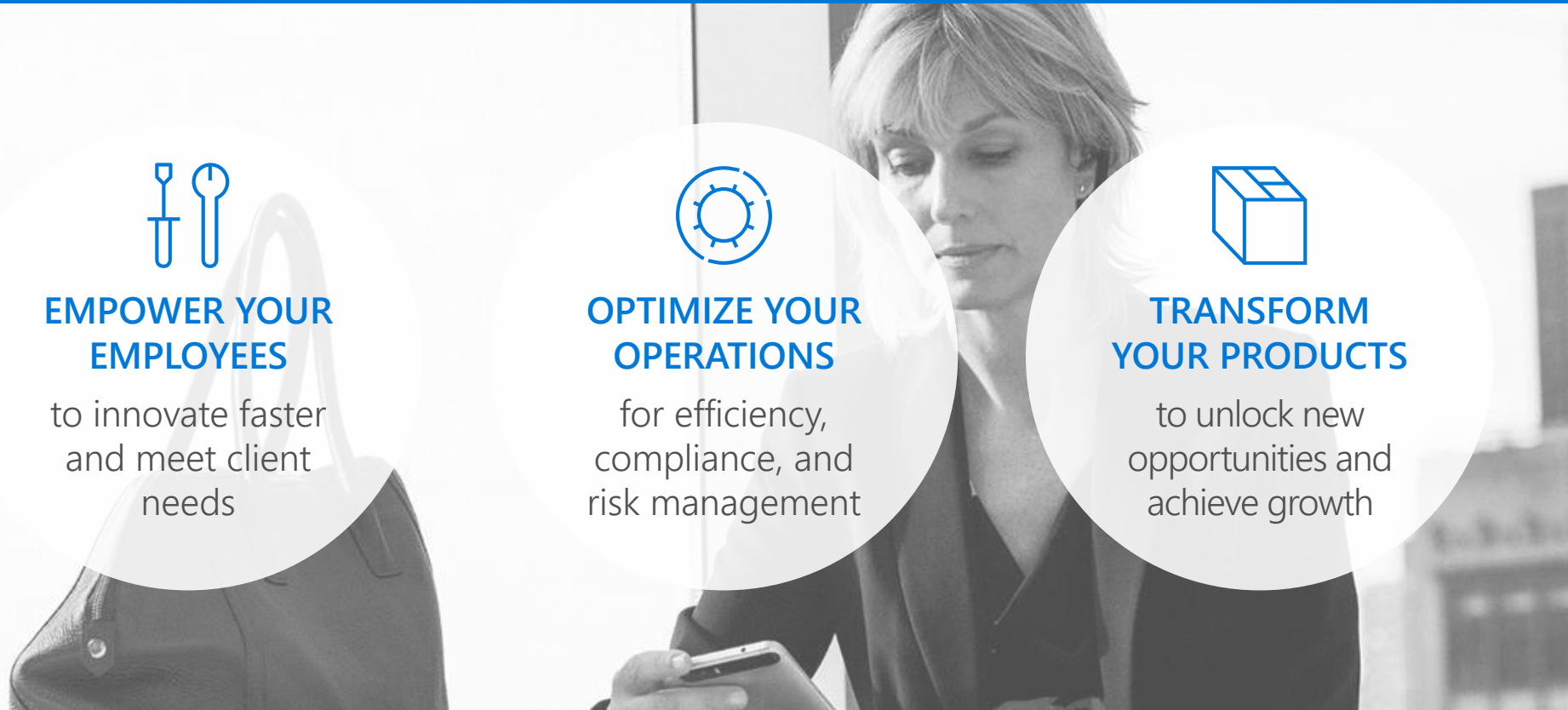
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for efficiency, compliance, and risk management



TRANSFORM YOUR PRODUCTS

to unlock new opportunities and achieve growth





Like to learn more?

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 - Our perspectives in blogs, videos and articles
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 - Events & webcasts
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Thank You!

