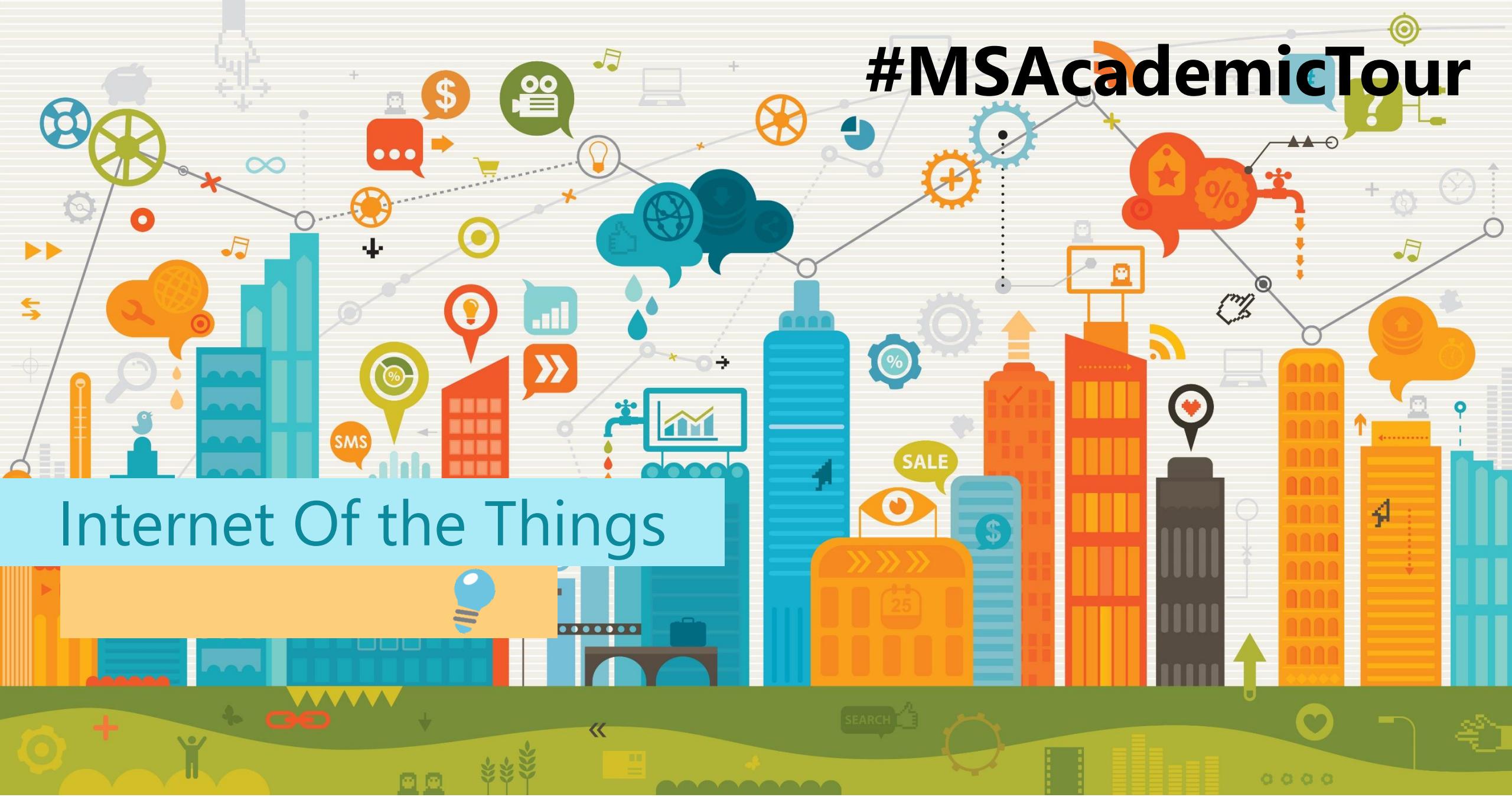


#MSAcademicTour

Internet Of the Things



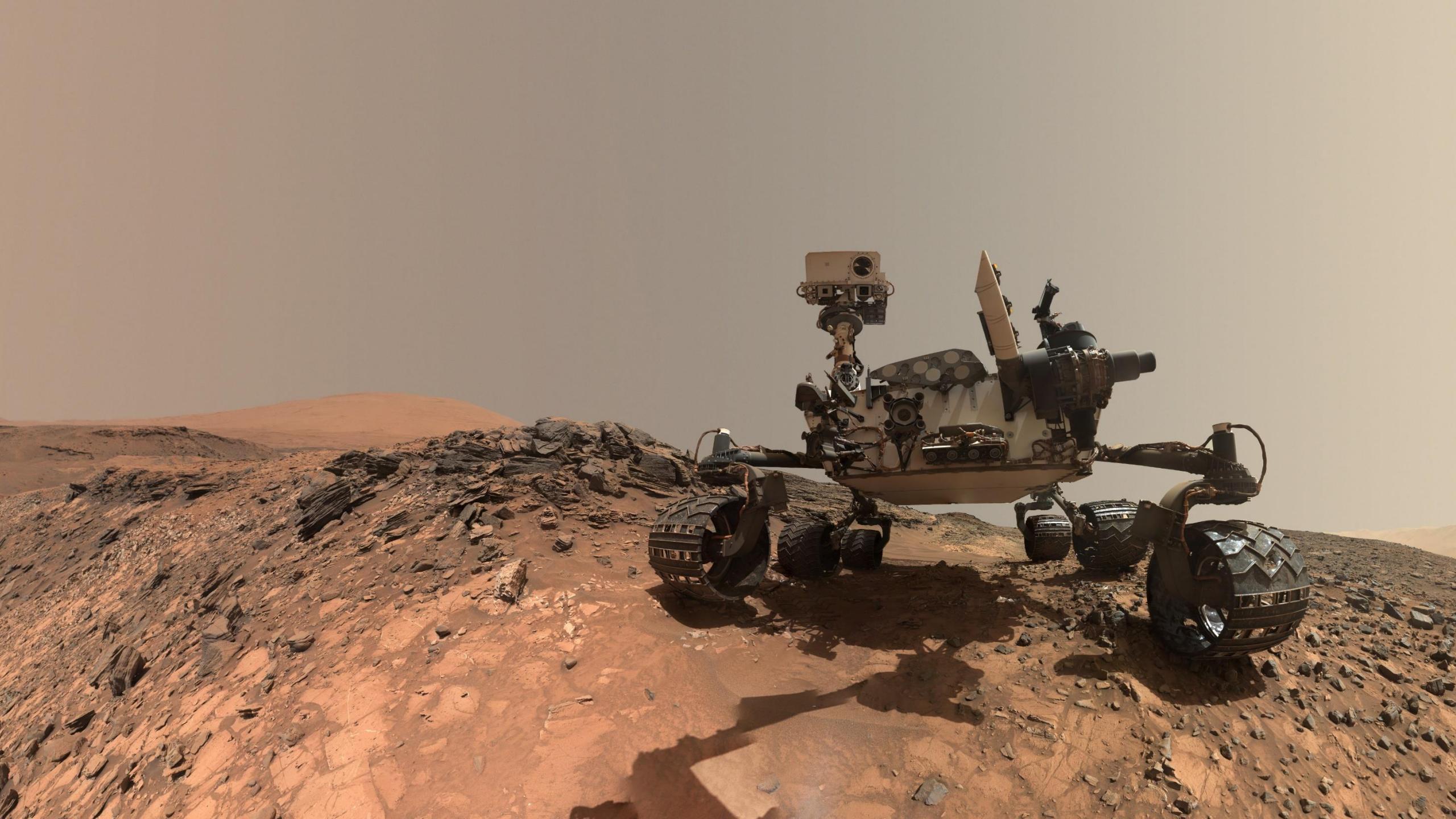


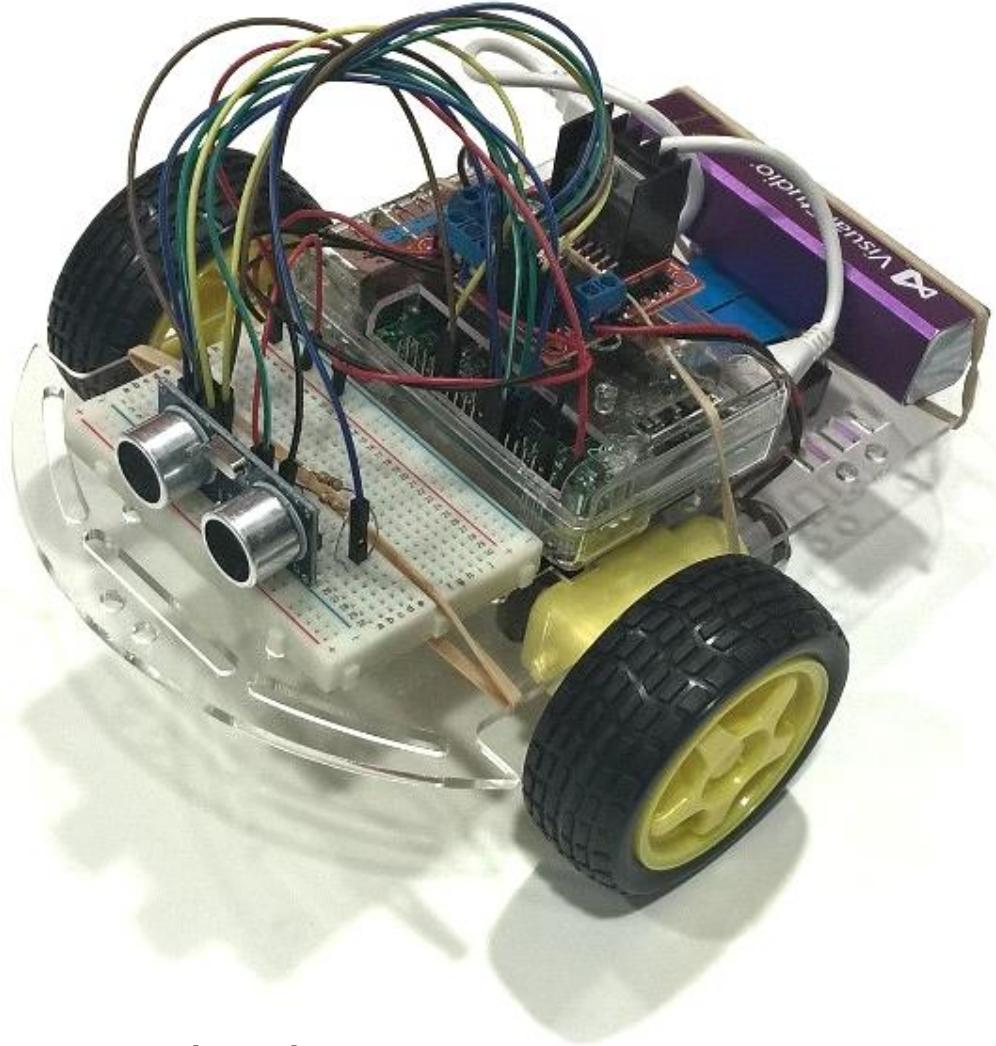
A modern living room featuring a dining table with six chairs, a fireplace on the left, and a large sofa on the right. A television is mounted on the wall above the sofa. Various white icons are overlaid on the image, representing different smart home features.

Una revolución invisible









<https://www.hackster.io/peejster/rover-c42139>

<http://aka.ms/WomenInIoT>



What is the Internet of (your) Things?

Things



Connectivity

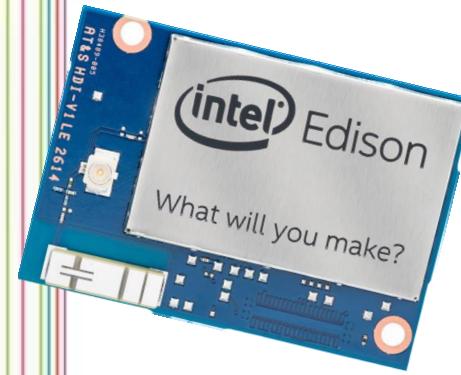
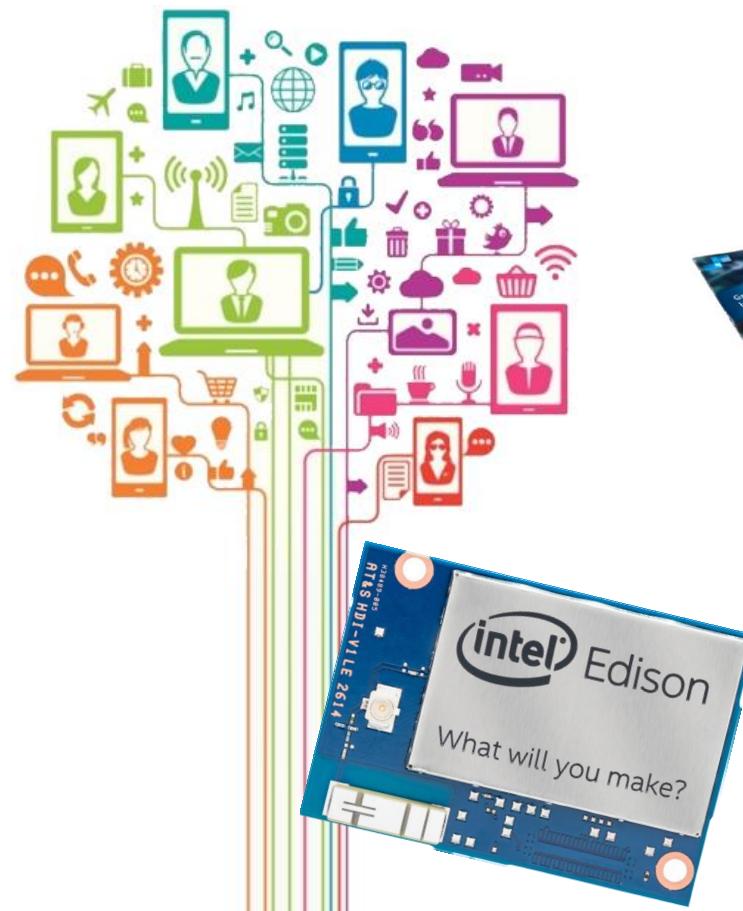
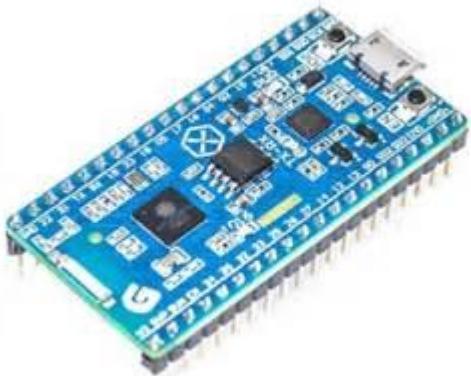


Data

10101
01010
00100

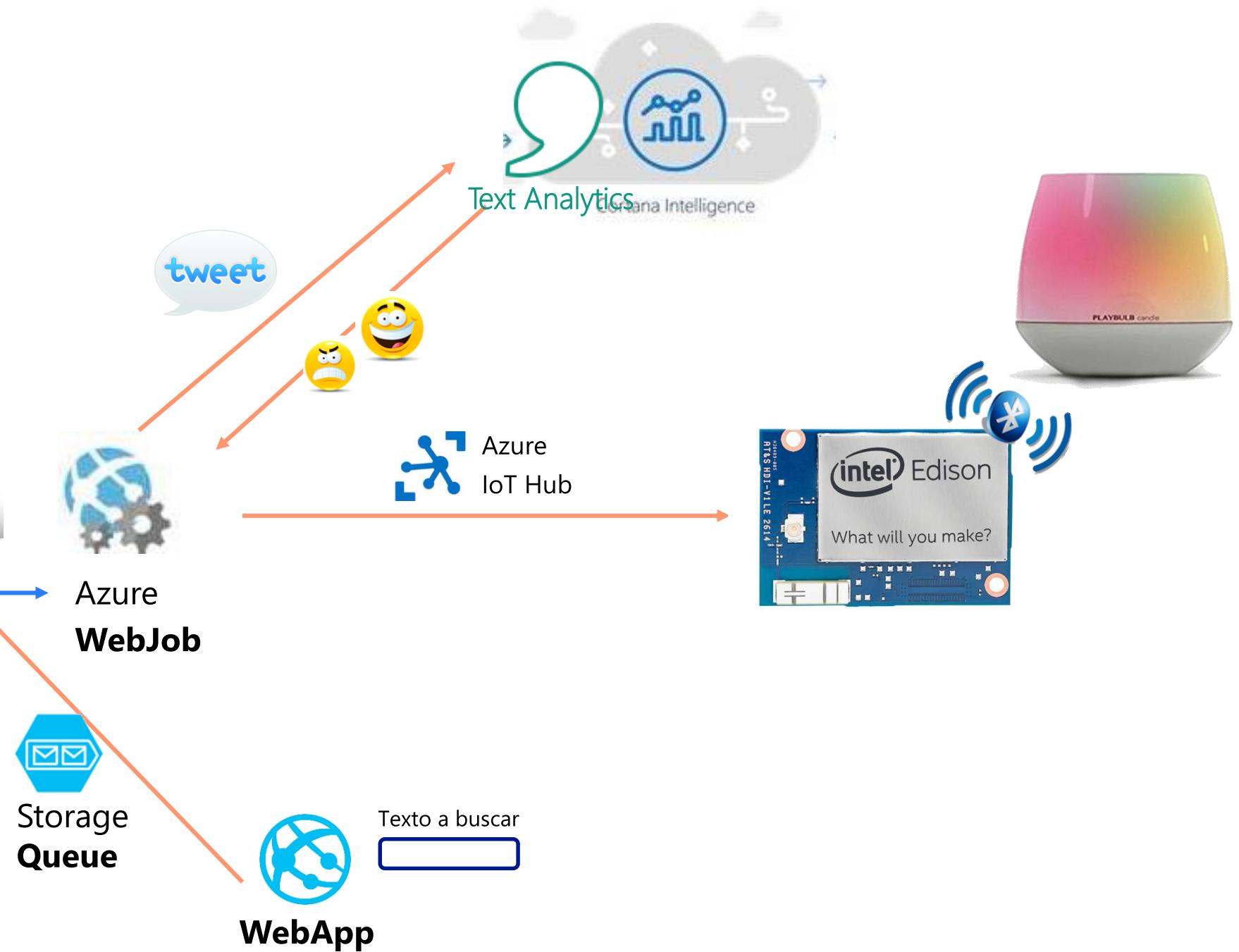
Analytics







- dr_alarcon @mxrush76 Twitter Timeline Update System Down! #TwitterFAIL http://bit.ly/3xRQCZ DM y @Message si funcionan half a minute ago from web
- JOHN_AF @wicklesscents yes it does. #TwitterFAIL! less than a minute ago from TweetDeck
- XtianHawk @wicklesscents Hey Kim, Still #TwitterFAIL?! 1 minute ago from dabr
- Philonoist_ Yes. #twitterfail RT @LGGrant Ummmm...is something wrong w/ @twitter ??? 2 minutes ago from Power Twitter
- Oui68 @Patt ต้อง reply or rt ถึงเห็นกันแล้ว? #twitterfail 2 minutes ago from Gravity
- ImAFanOfSelenaG What's wrong with Twitter?! Why can't I see new tweets on my homepage? #twitterfail 2 minutes ago from web
- dr_alarcon @MJVega Twitter Timeline Update System Down! #TwitterFAIL http://bit.ly/3xRQCZ DM y @Message si funcionan 2 minutes ago from web
- KelsyC #twitterfail 2 minutes ago from web
- daisypops Bye now. Getting bored talking to myself lol. #twitterfail 3 minutes ago from web
- dr_alarcon @eseMendiola Twitter Timeline Update System Down! #TwitterFAIL http://bit.ly/3xRQCZ DM y @Message si funcionan 3 minutes ago from web
- pinguinmaedchen dem kleinen pinguin ist auch #langweilig #twitterfail http://bitpic.com/kq8pb @skoops @cyberflux @sa7yr





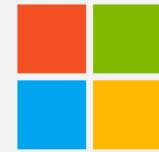
<http://github.com/isabelcabezasm/notwificador>

Microsoft's view

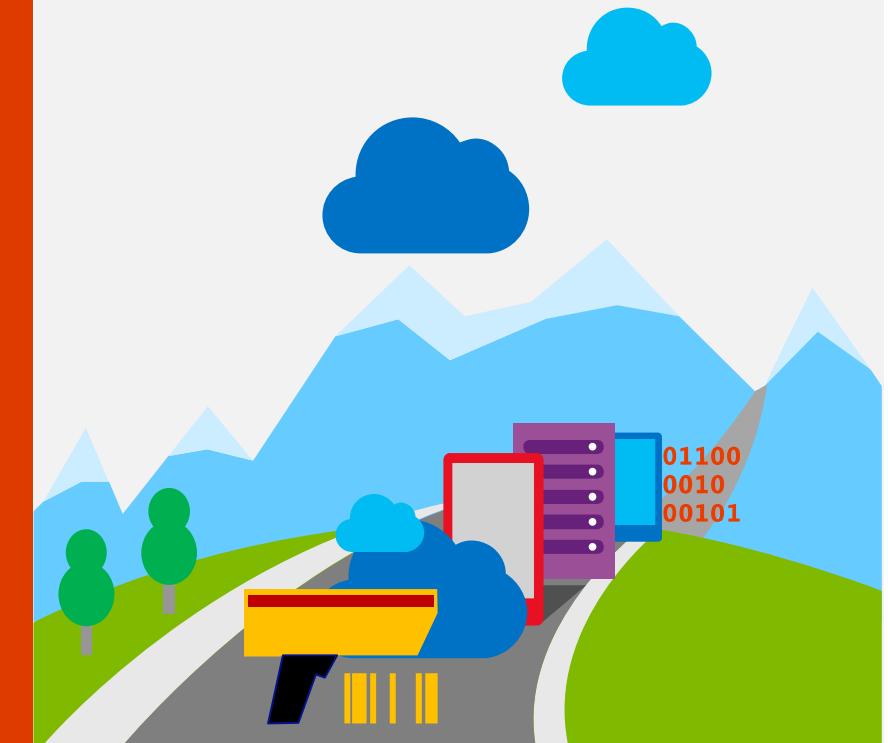
The Internet of Things starts with your things.

- Build on the infrastructure you already have
- Add more devices to the ones you already own
- Get more from the data that already exists

Stop just running your business. Start making it thrive. Start realizing the potential of the Internet of Your Things.



Microsoft



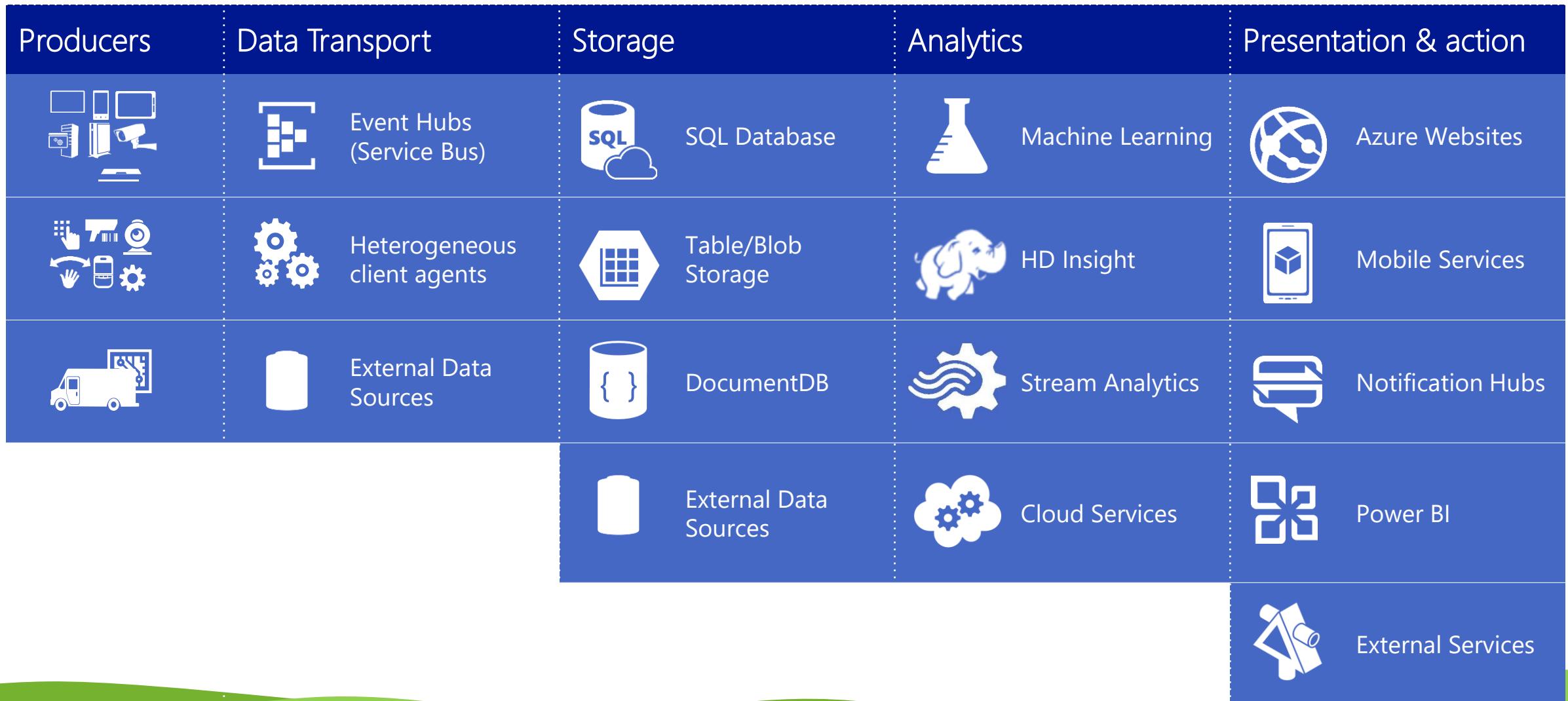
IoT provides Data in motion



VS



Microsoft Azure services for IoT



IoT Hub



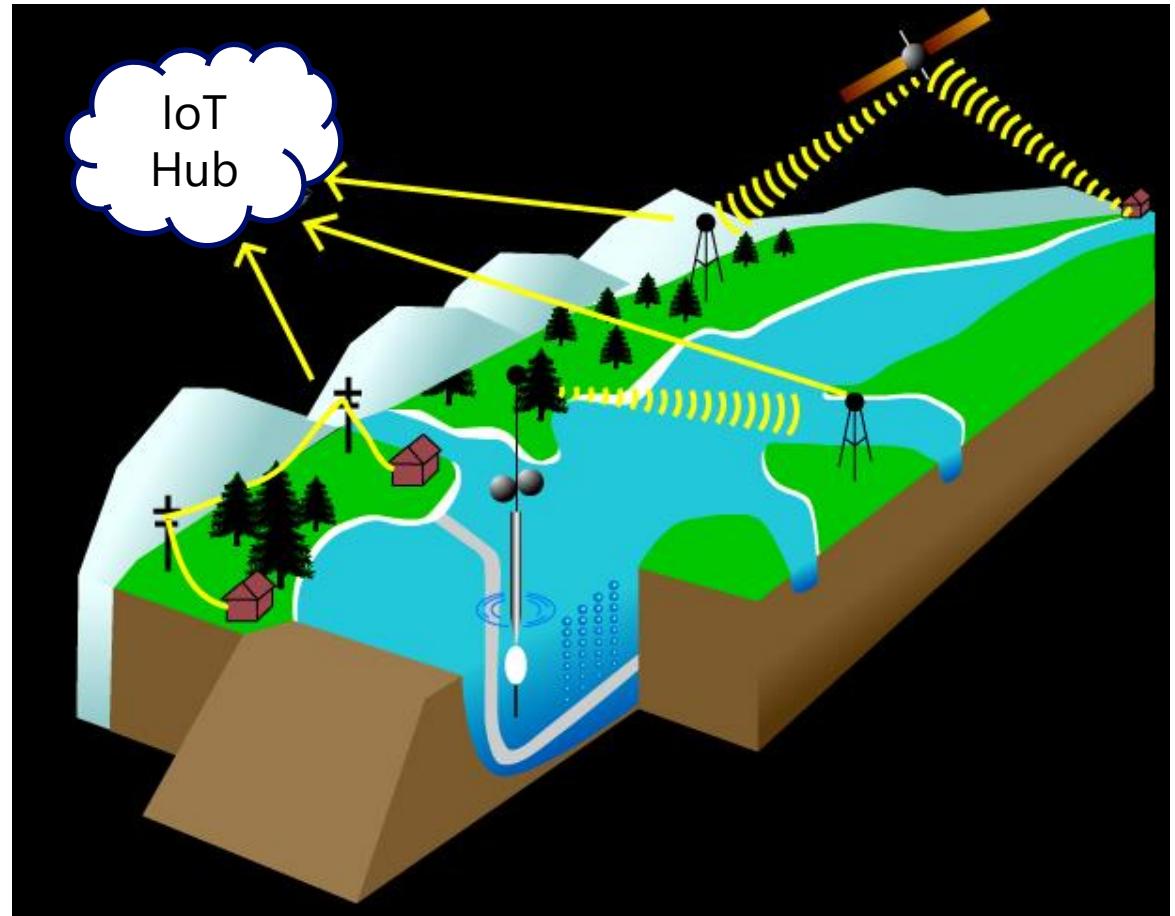
Servicio

Comunicación bidireccional

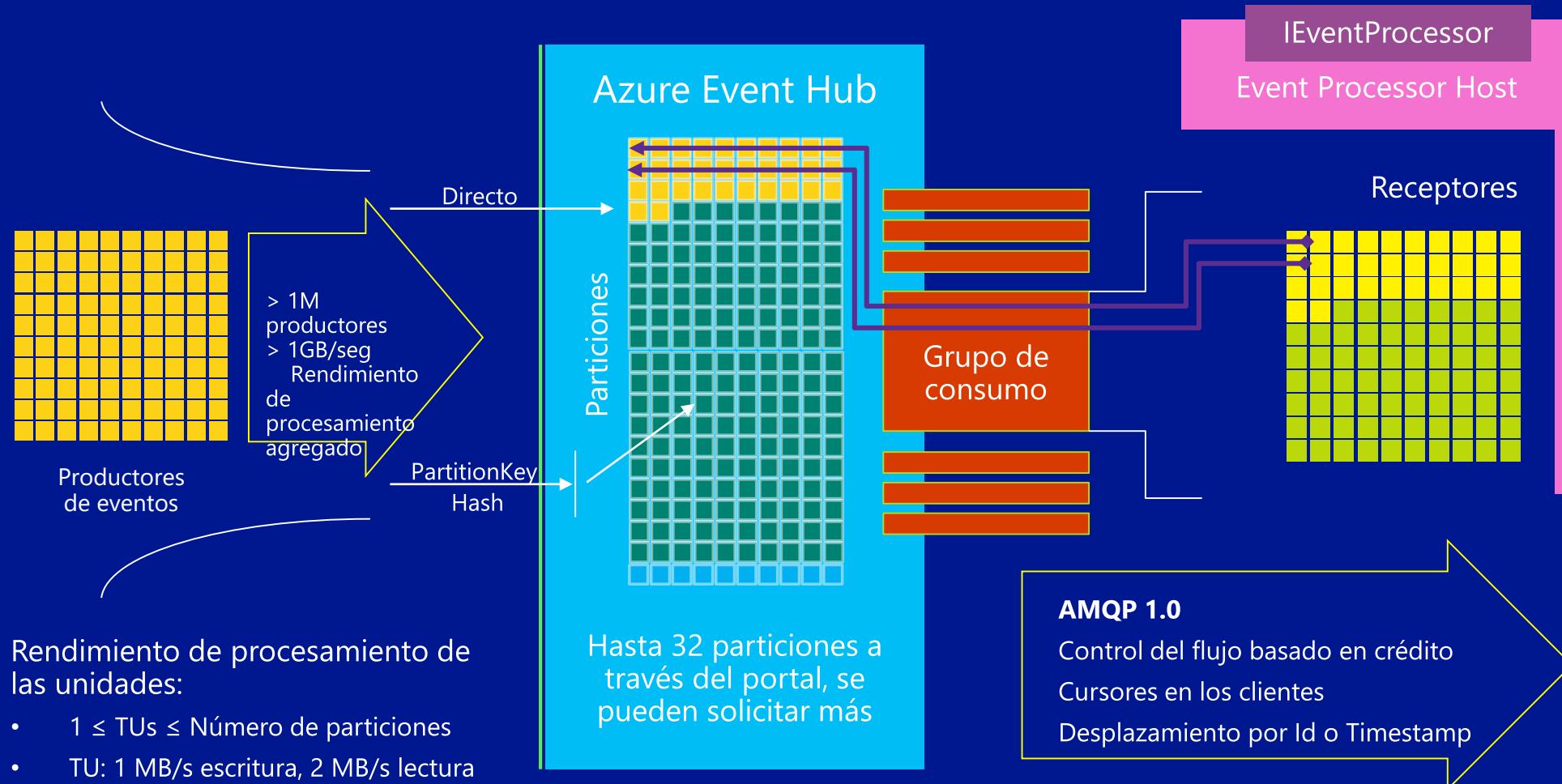
Segura

Protocolos estándar

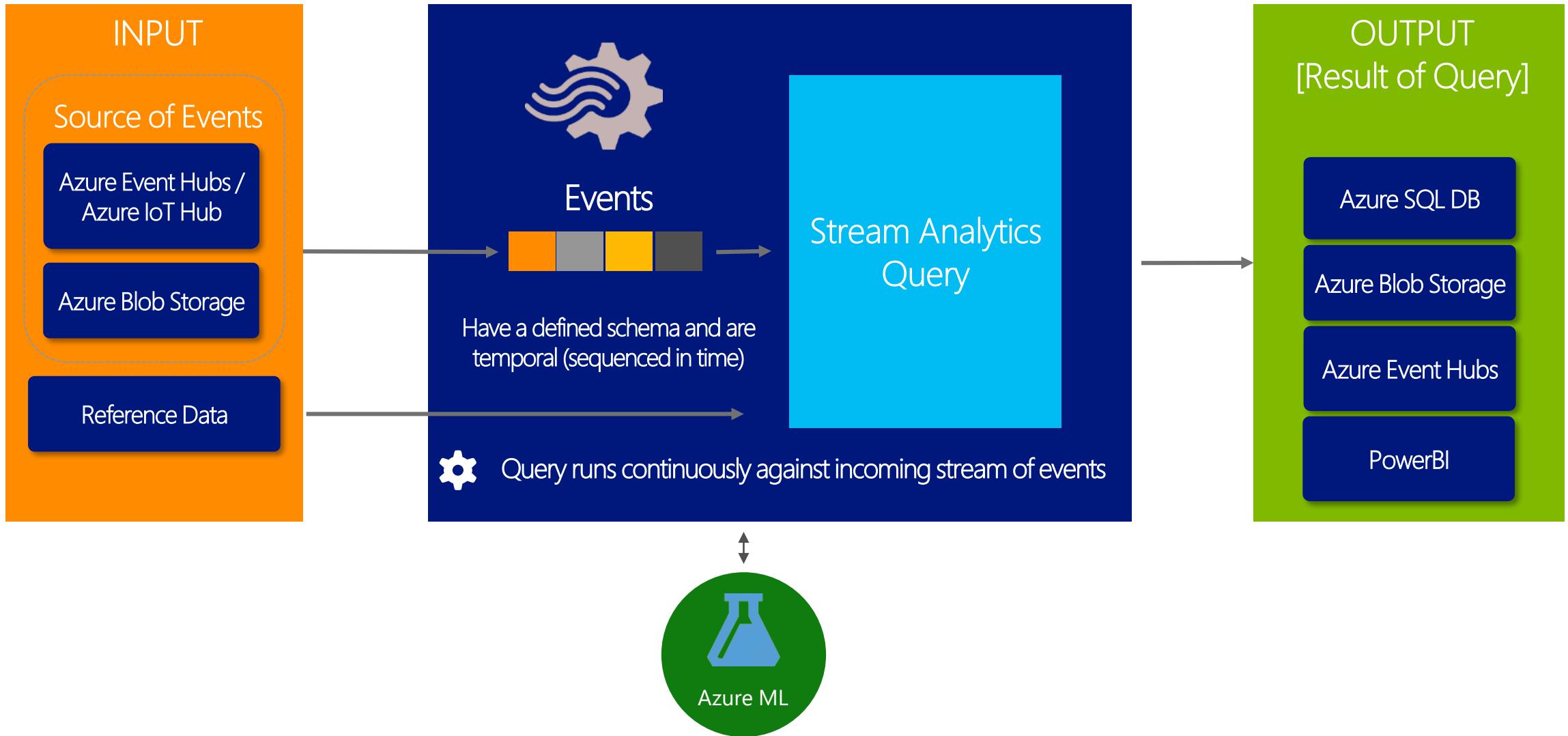
Event Hub

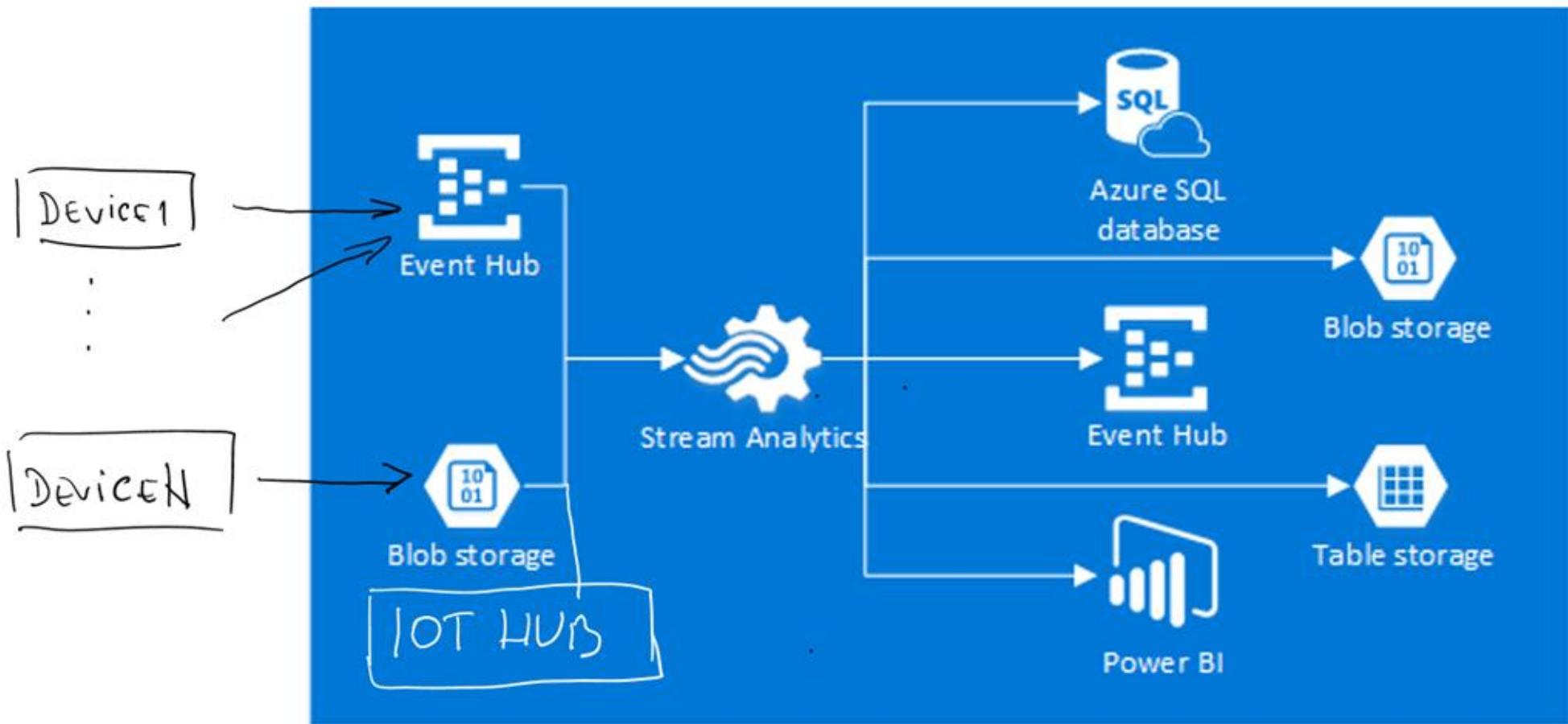


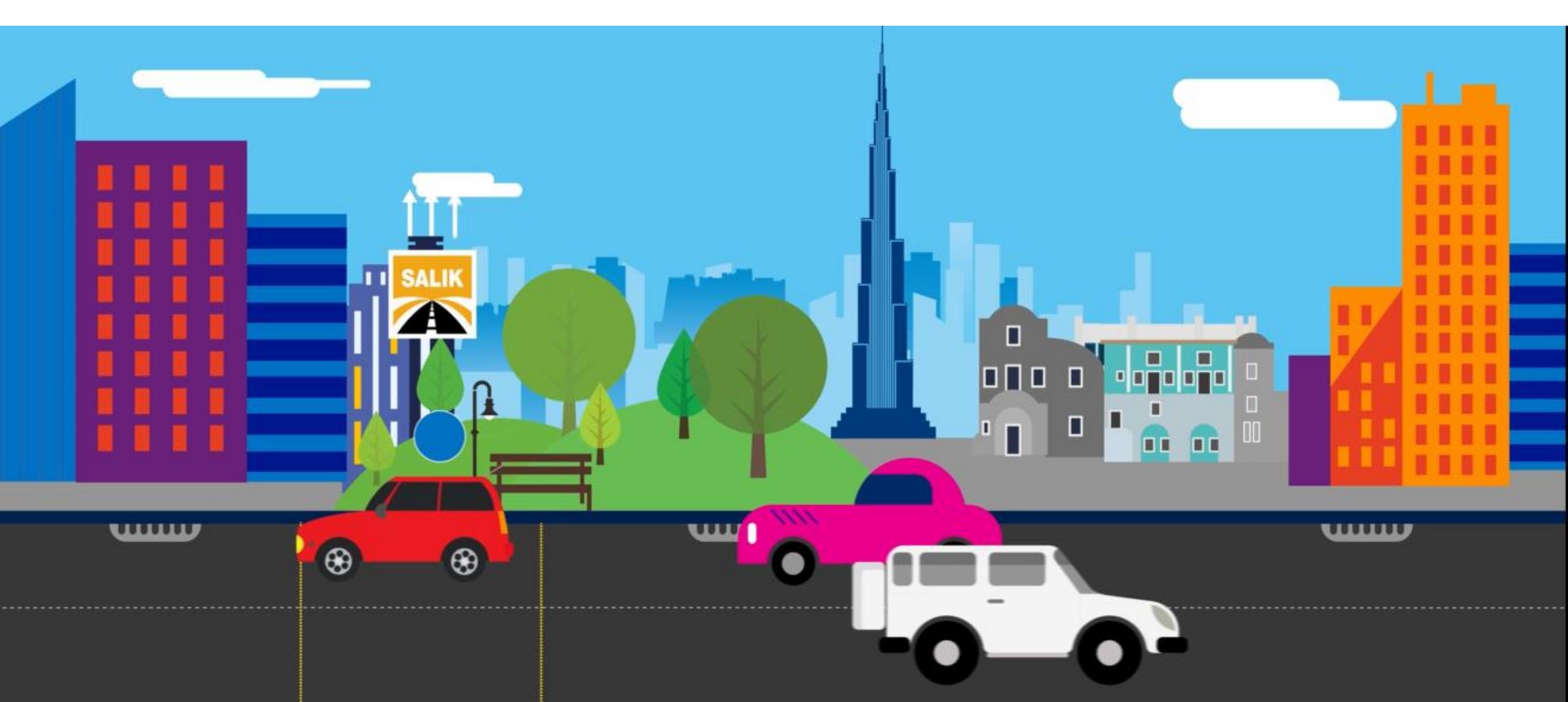
Azure Event Hubs



Application Components

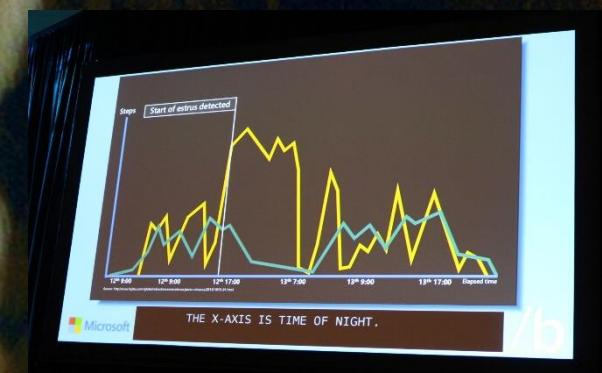






DEMO

<https://github.com/jmservera/IoTHubDemo/tree/iotsuite/SensorTag>





ThyssenKrupp



 ThyssenKrupp
CALL CENTER

 ThyssenKrupp
CALL CENTER





ic Center



Customers



Regions



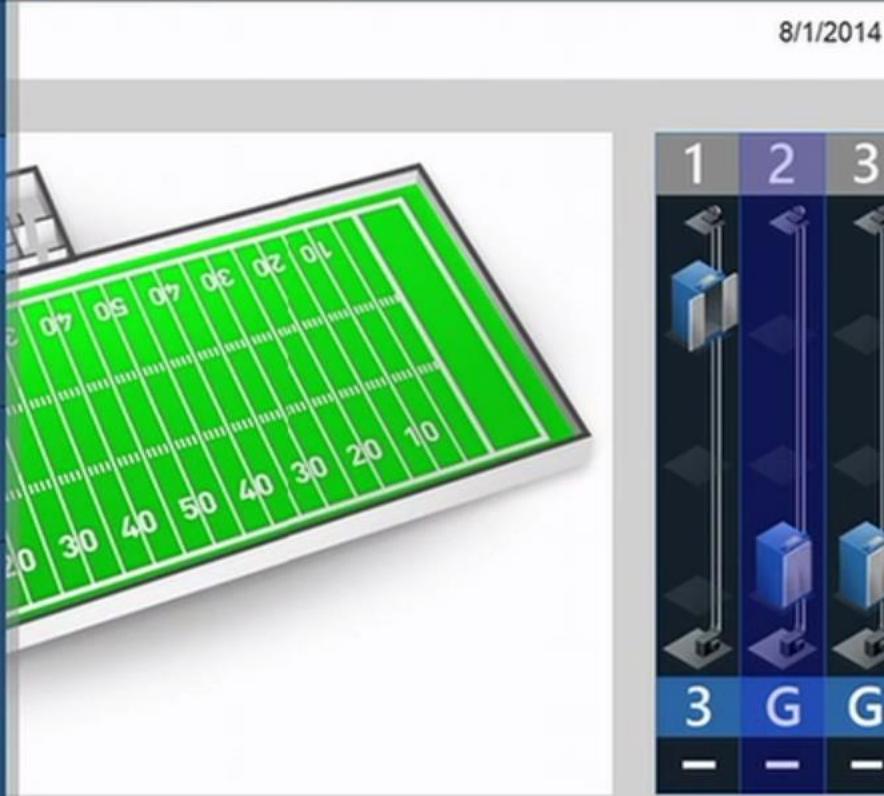
Analytics



Maintenance



Alerts



Type	Scheduled Maintenance	Status	Predicted Health
Hydraulic / Passenger	8/22/2014	Operational	83%
Hydraulic / Freight	7/31/2014	Warning	70%
Hydraulic / Passenger	9/8/2014	Operational	95%

Field Access Elevator

Factory Type

EX6298

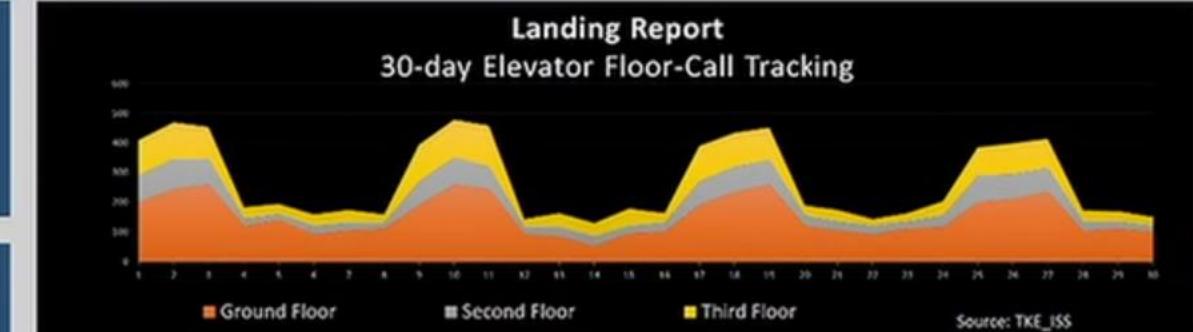
Model

TKE-WCRHYDRO

Predicted Health

70%

Landing Report
30-day Elevator Floor-Call Tracking



view as

	High Speed Run Count	Aver Door Close Time	Aver Up Level Time	Aver Down Level Time	Aver Door Open Time
Mean	2	3	7	28	1
Median	1	0	0	32	0
Min	0	0	0	21	0
Max	4	6	14	35	2
Std Deviation	2	3	7	7	1

Asset Feed

ille Halberg
ul 25 2012
d out Scheduled Maintenance.



Azure ML
Thu Jan 17 2013
AML critical alert verified,
maintenance complete



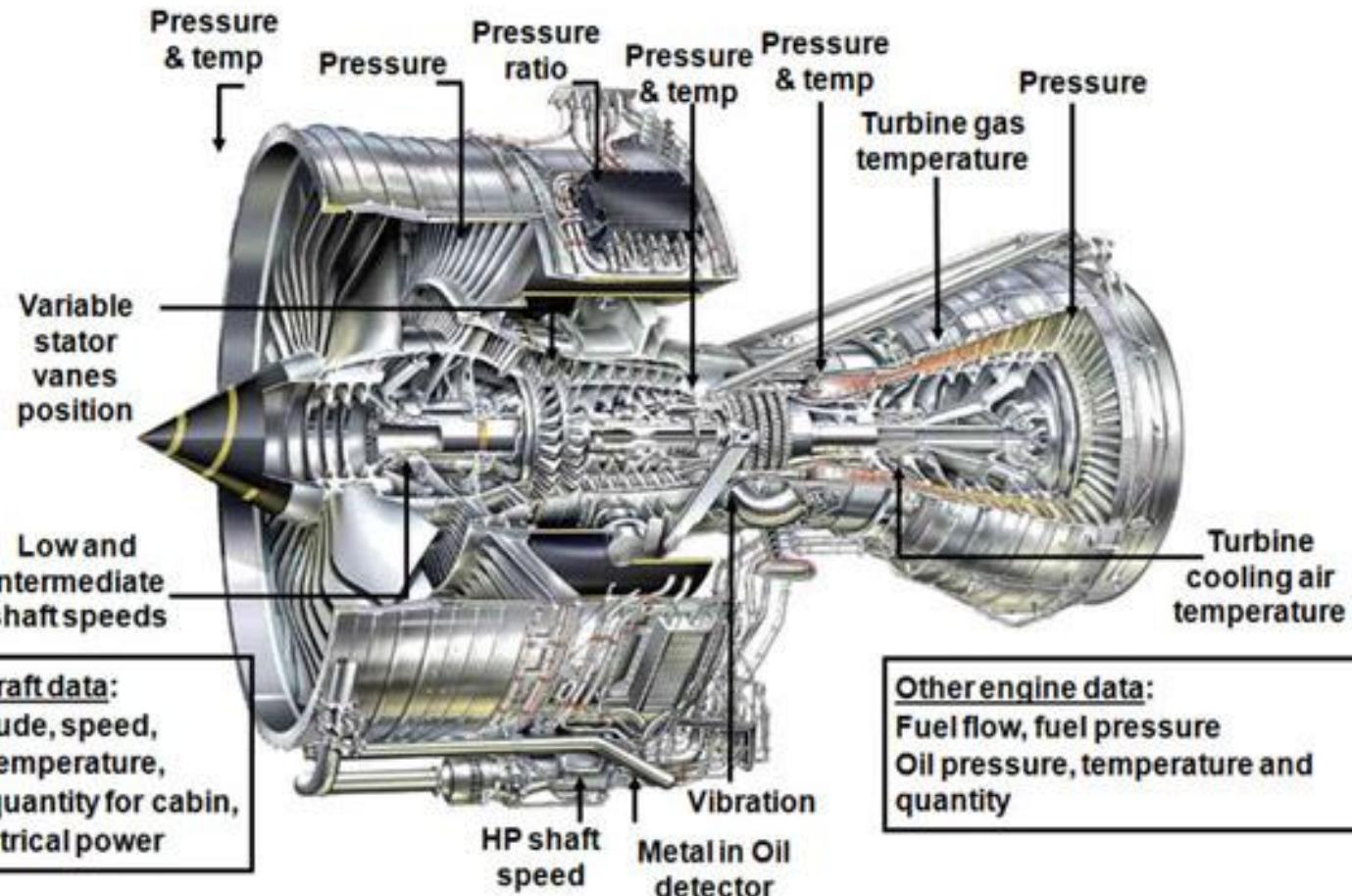
Franck Ha
Fri Mar 29 20
Carried out S

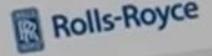
Predictive Maintenance Warning
Scheduled Maintenance Alert - Asset Sensors Indicate Critical Failure in (8) Days.



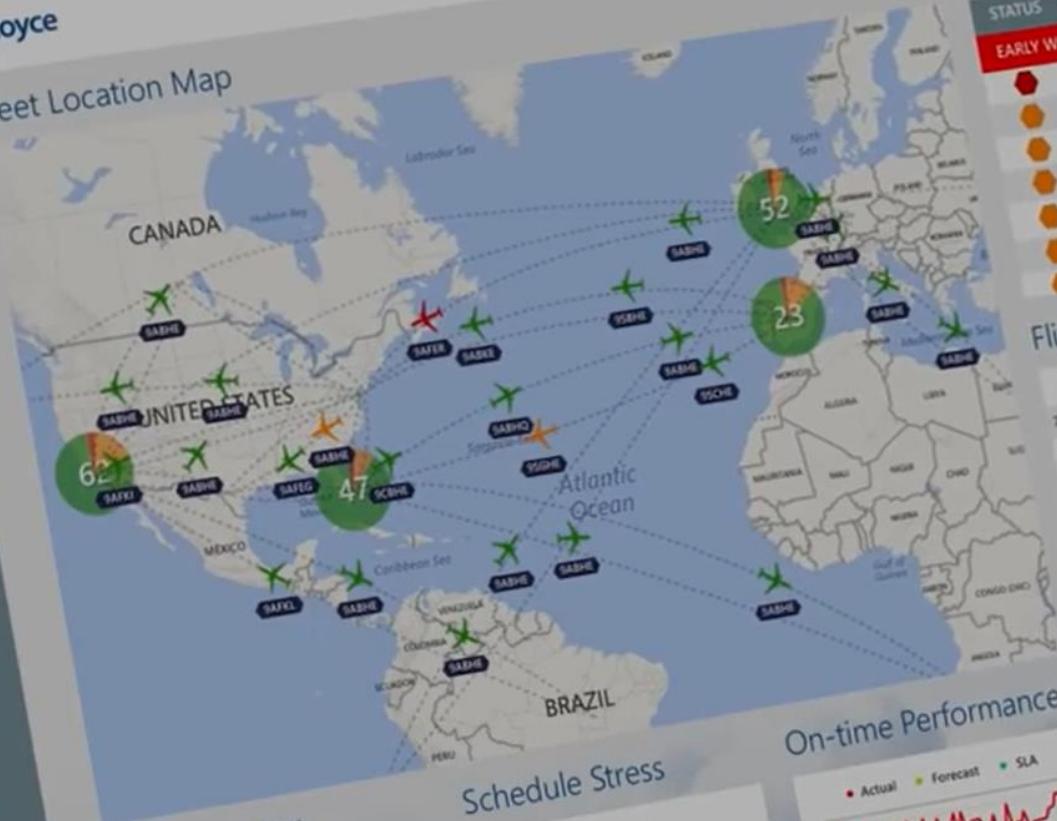
 **BOEING**







Fleet Location Map



Operating KPI's

NORMALIZED FUEL
EFFICIENCY

89%

FLEET UTILIZATION

91%

Schedule Stress



On-time Performance



APR 06 2016 06:20 UTC

Elise Armstrong
Captain

Fleet Health

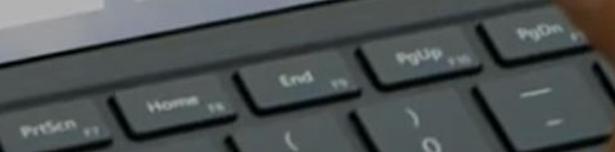
	STATUS	TAIL ID#	TYPE	DEST	TIME REM	ADVISORY
EARLY WATCH LIST						
●	SABHL	A380	SIN	06:25 (hr)	Primary Fuel Pump	
●	SABKE	787	PVG	07:36 (hr)	Hydraulic System	
●	SAKED	A380	LHR	07:46 (hr)	Control Surface	
●	9PWUS	787	LHR	07:57 (hr)	Main Door Seal	
●	9VSKA	A350	CDG	08:10 (hr)	Engine Bleed Air	
●	9VSKD	A380	BOM	08:25 (hr)	Oxygen System	
●	9VALP	A350	SIN	08:39 (hr)	Hydraulic System	

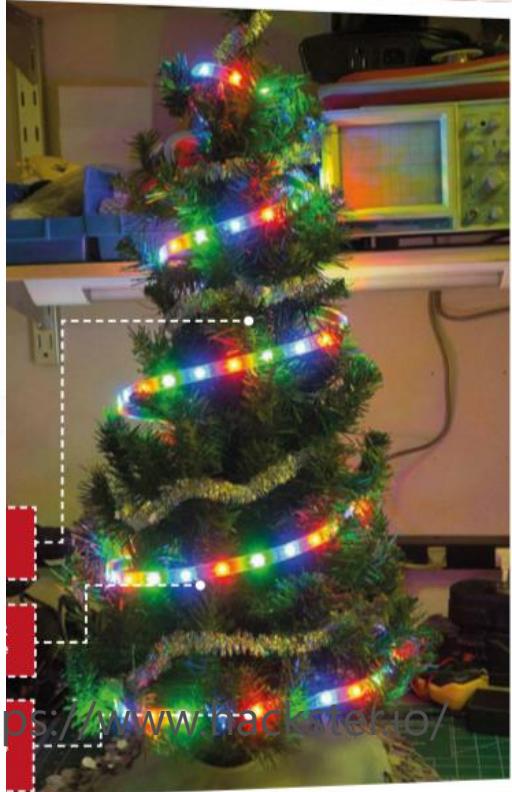
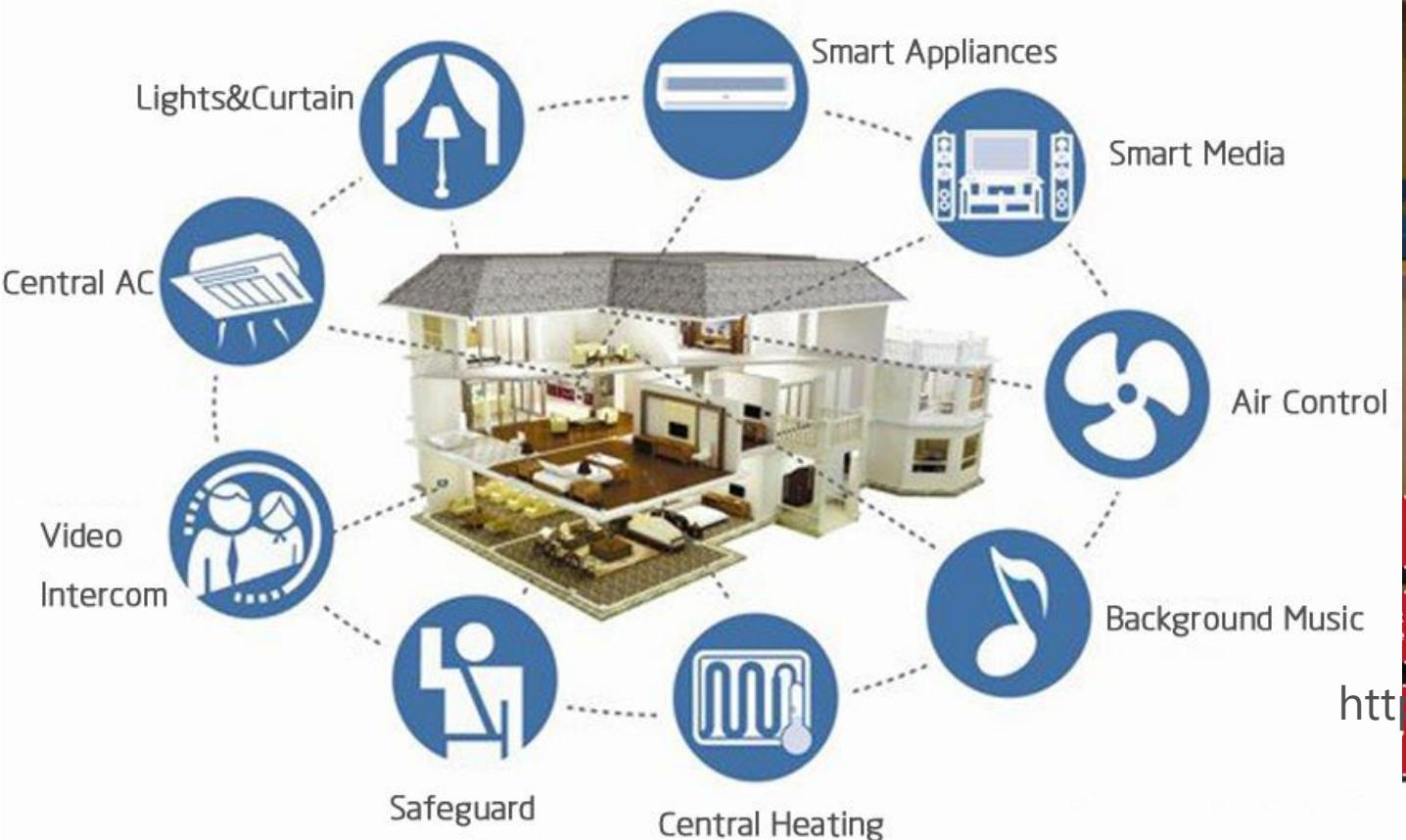
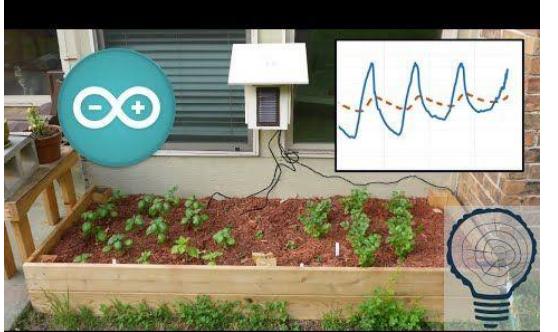
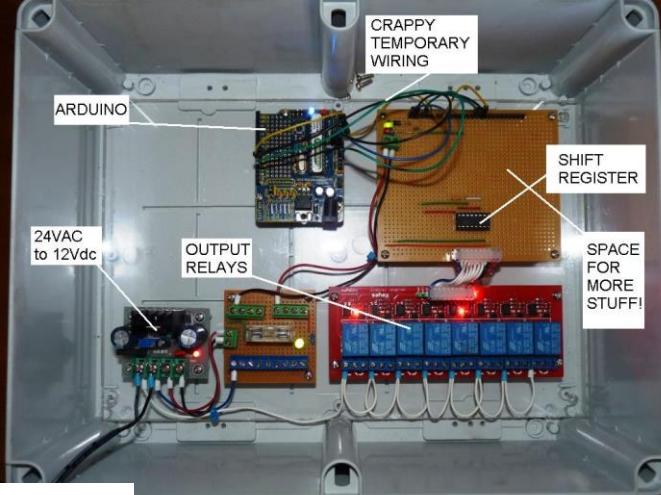
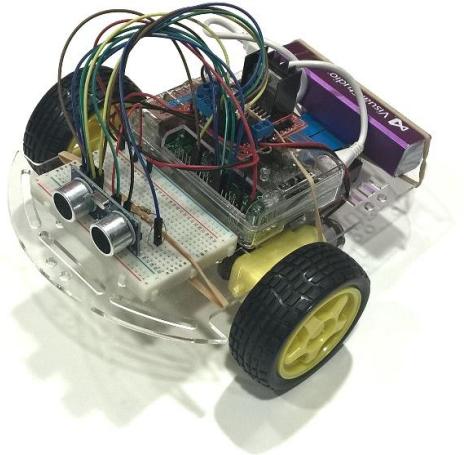
Flight Scheduling (UTC)

	1	5	10	15	20	25	MAY	1	5	10	15	20	25
7CEEP	SIN 0609	PVG 0702	SIN 0803		CDG 0952								
TINTG	SIN 0609		SIN 0803		SIN 1007								
TVSKA	SIN 0609		SIN 0803		SIN 1007								
THOLS			LHR 0909		SIN 2210								
TVLOK			CDG 1008		SIN 1523								
7JLXJ	SIN 0609		PVG 0834		SIN 1523								

Maintenance Scheduling

TAIL ID#	TYPE	LOC.	TIME REM	SYSTEM	SERVICE
9ATHF	A380	BOM	16 hrs	Engine	Engine Wash Service
9AE8B	A380	BOM	2 hrs	Fuel Pump	Preventative Maintenance
9ATHF	777	LHR	2 days	All	Scheduled Service
9FWER	757	LHR	4 days	Engine	Engine Overhaul
9WTH	A330	LHR	6 hrs	Hydraulic System	Preventative Maintenance
9SCHE	A350	PEK	1 day	Fuel Pump	Preventative Maintenance
9SJHE	A380	SIN	5 days	All	Scheduled Service
9ABHQ	777	AUK	1.5 hrs	All	Scheduled Service





<https://www.hackster.io/>

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¡Gracias!

