

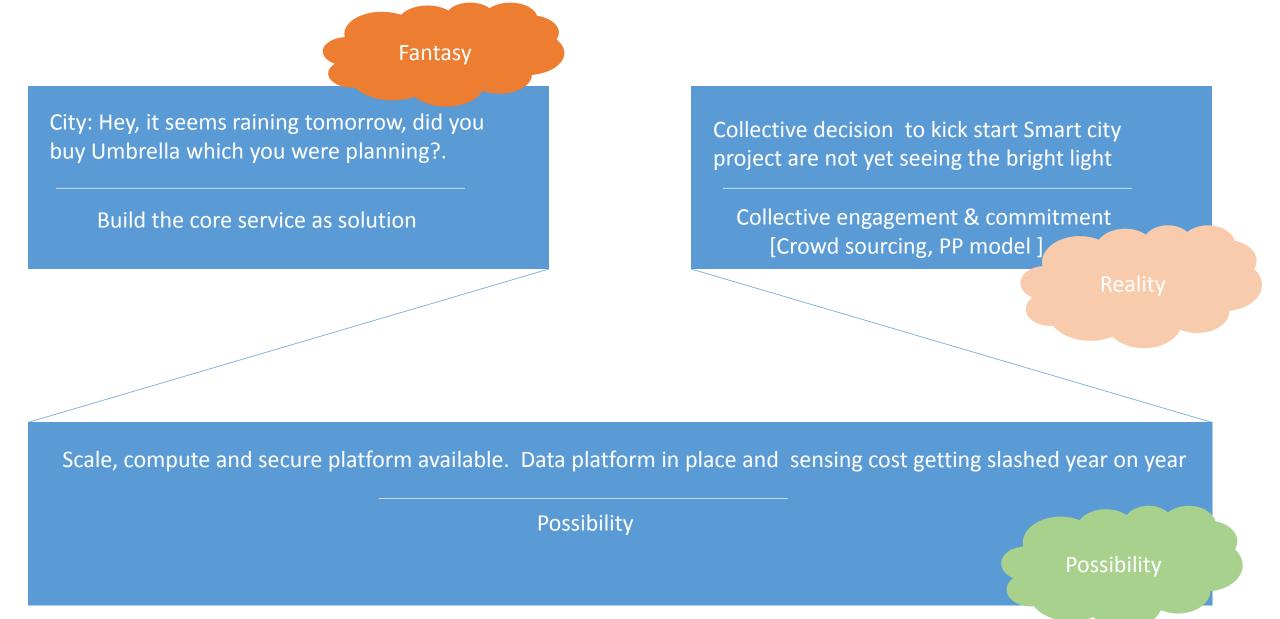


CITY THAT TALK TO YOU

Absolute Fantasy Reality Possibility

Kishore Shetty

Technology Solution Professional - IOT Microsoft Corporation India

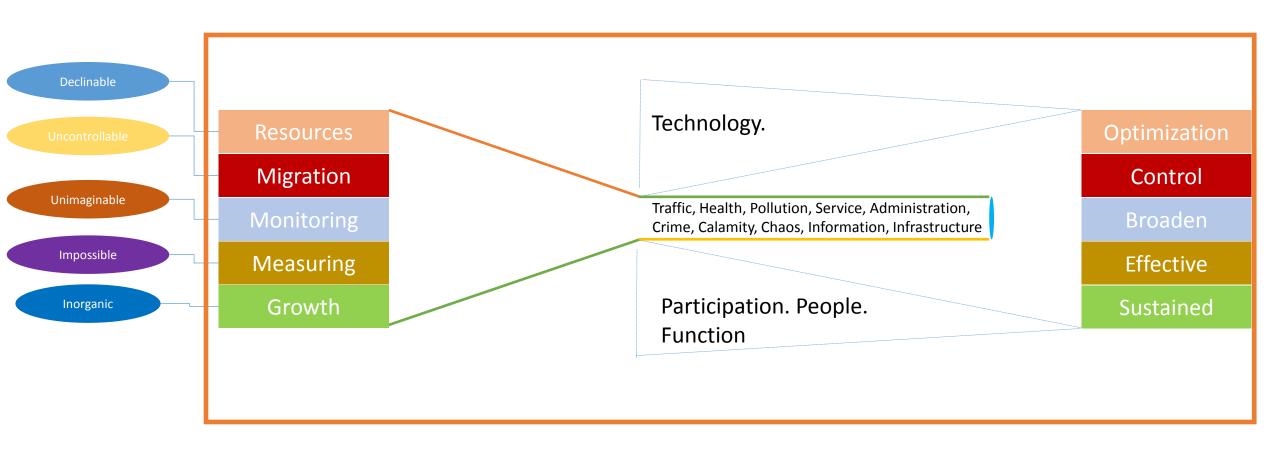


Smart city is beyond technology. It is a multitude approach and collaboration from different parties

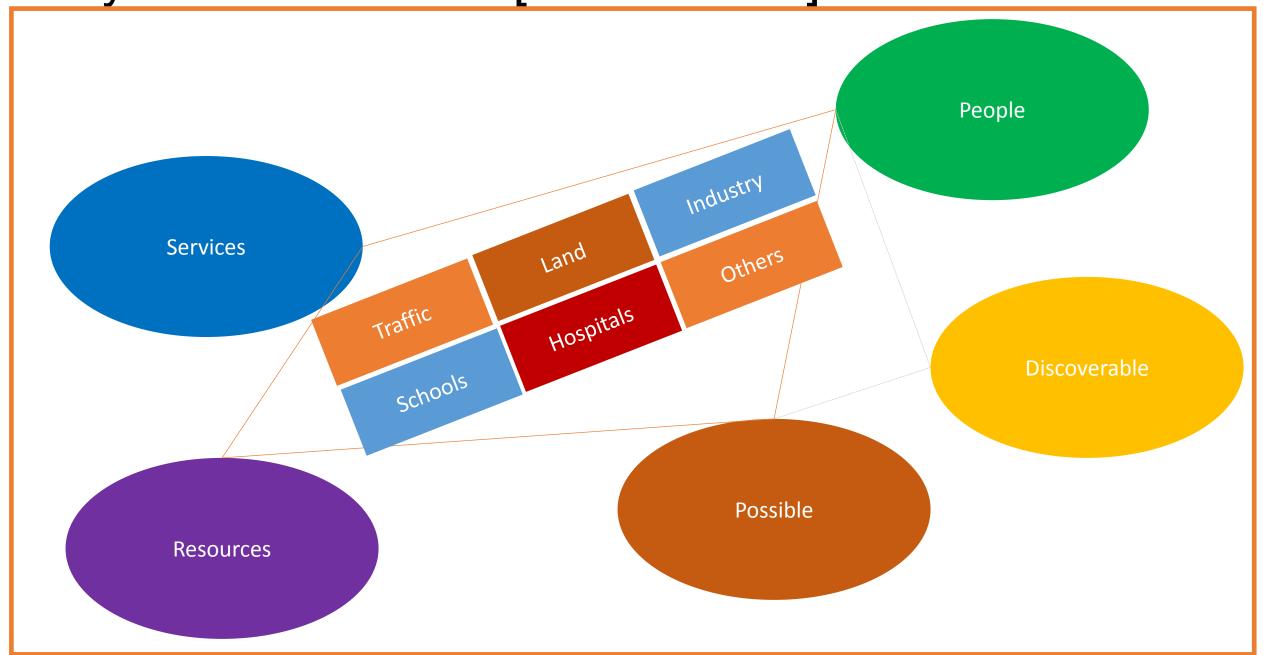
Cities We heard are better - A reference

Amaravati	Mohenjo -Daro	World's Top 10 City	India's Top 5 City
Before the roll out of yugas	2500 BCE	Ex. Sydney Australia	Ex. Bengaluru
Heard in Purana's Created by creator himself Illusionary or imaginative No relevance	Read in History Fresh from caves or tribal pains Real attempt to build best place to live Only evidence	Heard in News & Surveys – lived or visited Thoughtful planning, usage of technology More resources and less population Only Challenges	Meaningful yet short sighted planning, usage of natural surroundings/resources. Abundant natural resource and less population Only bottleneck
Imagination	Design	Administration	Nature & people
		Economy, Migration, Policies, Unrest	Growth, Environment, Migration, Population, Administration, Corruption, pollution

Core Challenges & Priorities



City – Is full of Data [== THINGS]



CITY THAT TALK TO YOU - CLIMAX



Possible integration and intervention – Auto & Seamless



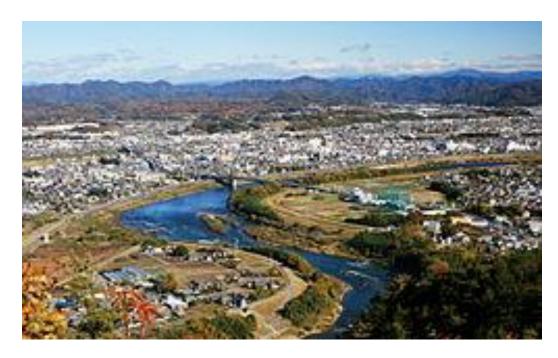


Fixed timing to variable based on density



Sense and Alert. Provide details for quick service

Meet – City of MINOKAMO



Japan Minokamo Disaster Prevention Department

SCADA system for flood warning and prevention

"There is no doubt that the residents of Japan rest easier knowing that their municipal authorities have installed state-ofthe-art technology to help protect them from the risk of unexpected flood damage."

In Reality City is Talking

Remember: Tsunami – Early warning after we were hit by.

City as Data – General Data Rule

Let us take one aspect of city – Which is data. Smart City – A possibility [with IOT] can be explained, explored & Applied with a "DATA" approach in a simplest way.





- Every thing is a Data
- Everywhere there is a Data

Digital Transformation [IOT]

Make Sense out of data [Analytics]

- Traffic Jam High density
- Water level leakage somewhere

Approach

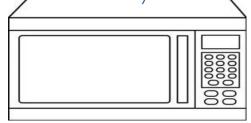
Redefine IOT Data [about the THINGS] available over network [Internet] for processing [store, analyze, stream] to create business value

Our society – our behaviors are driven towards – getting things one quickly, convenience of using things and replace the things. Convenience of using things win over all (off course it comes with price)!.



Show me my favorite when I am free

Give me water as service – When I am Thirsty



Cook my favorite recipe when I am hungry



Give me coffee when I feel fatigue

You buy bean when it gets over – Please buy my - Coorg one

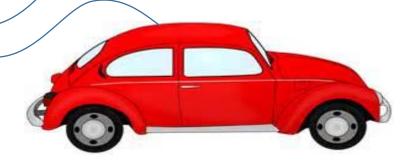
My dear factory I enabled you with I4.0.



Boss,
I am on predictive
maintenance – No

maintenance – No worry I will never break down

Pick me up when I am ready and drive yourself buddy



Gov. Policies

/ Environment

Feel Good

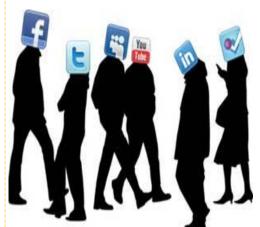
Sustainability

/ Efficiency

Beyond Business Transformation – Enterprise is changing way it look the convenience and digital transformation touching every nuke and corner of Enterprise – driving change

/ Appeal









- Milenials @ work
- Connected workforce
- Mobility redefined
- Smart living condition at home/community
- Smart Infrastructure around
- Optimization of resources
- Environment responsibilities



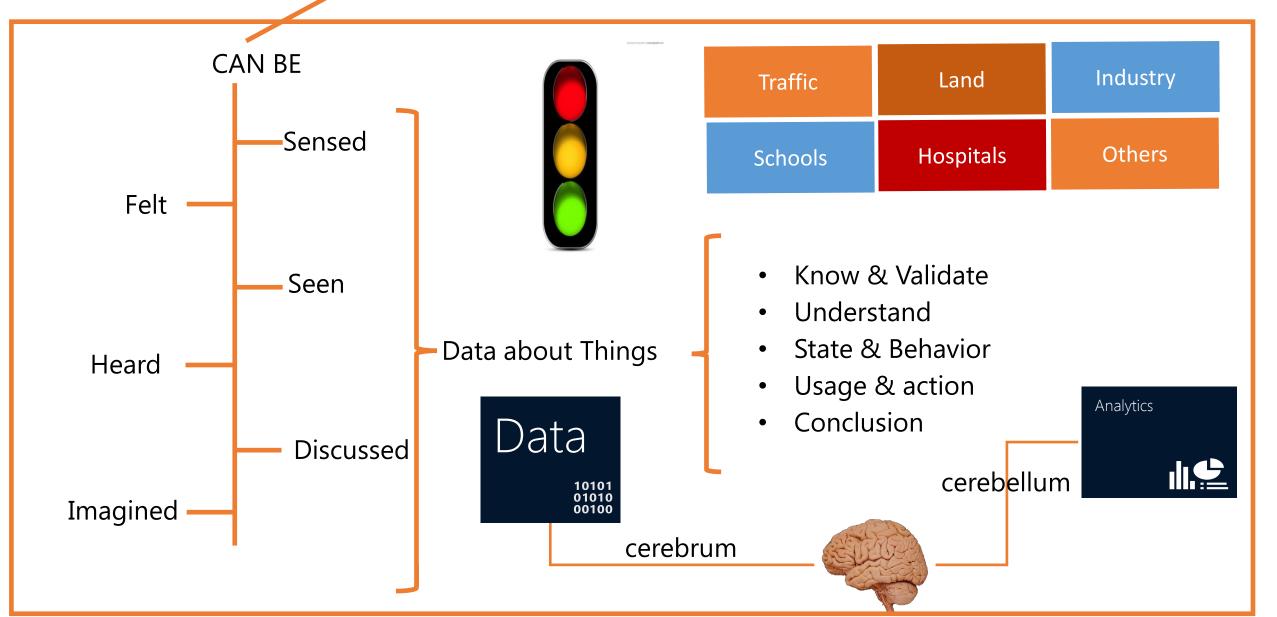


DON'T YOU THINK?

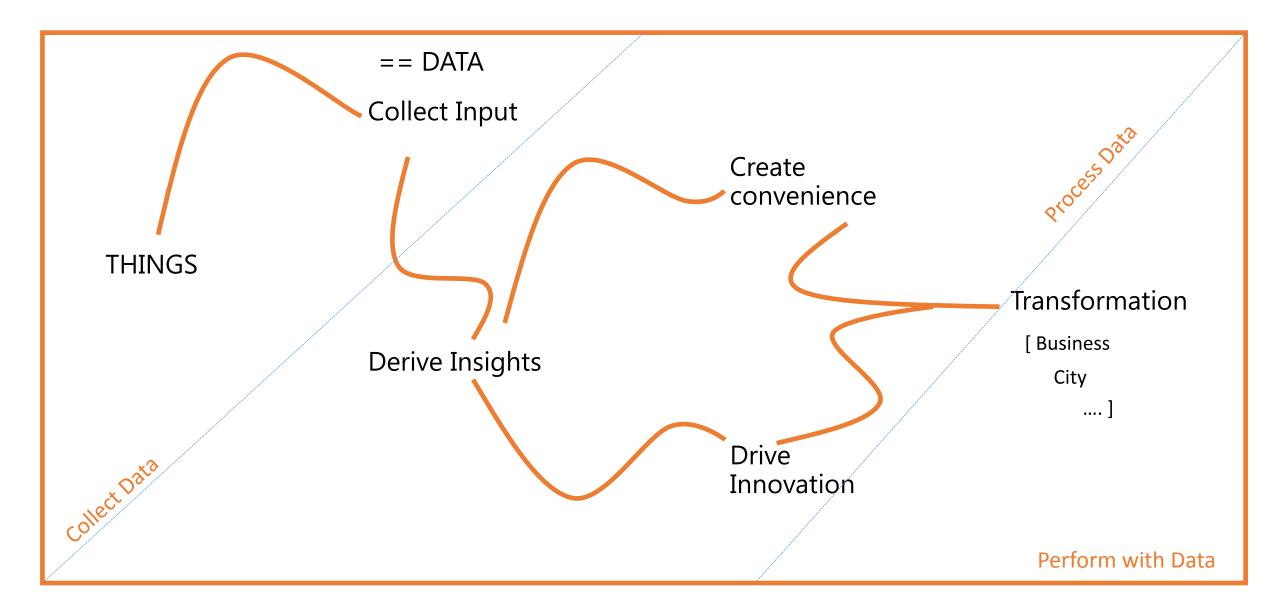
- Smart Home
- Smart Office
- Convenience everywhere.

YOUR CITY SHOULD BE SMART?

Internet of THINGS



Internet of DATA



{Getting – Data into Action}

Sensor Digitize the Things Sensorize Connect Movement Send Data Receive Data

Collect & Collate <u>Store</u> <u>Rules</u> **Logics Insights**

Act on Data **Actions** <u>Insights</u> <u>Value</u> **Convenience**

Occupancy Sensor –

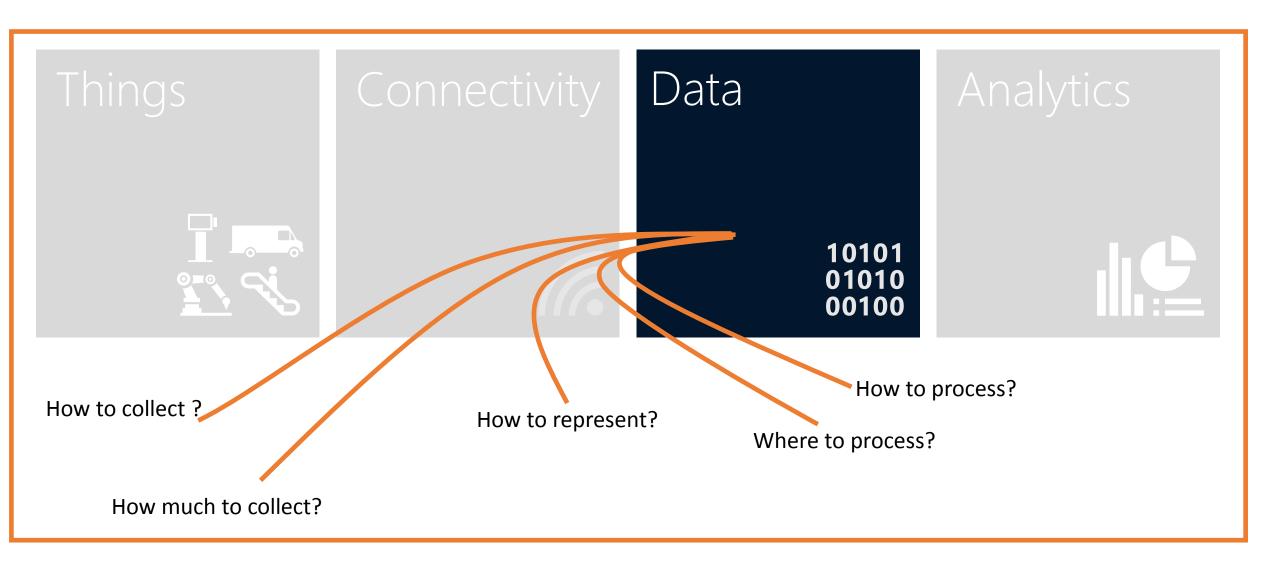


Receive data

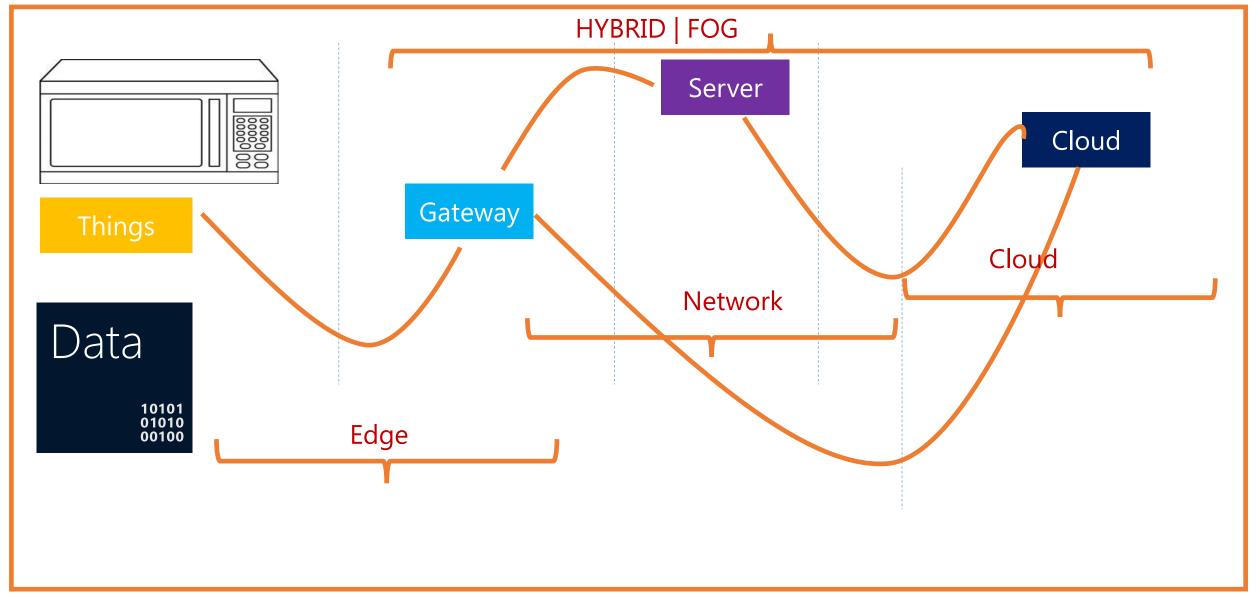
Process Data

Action / View / Solution

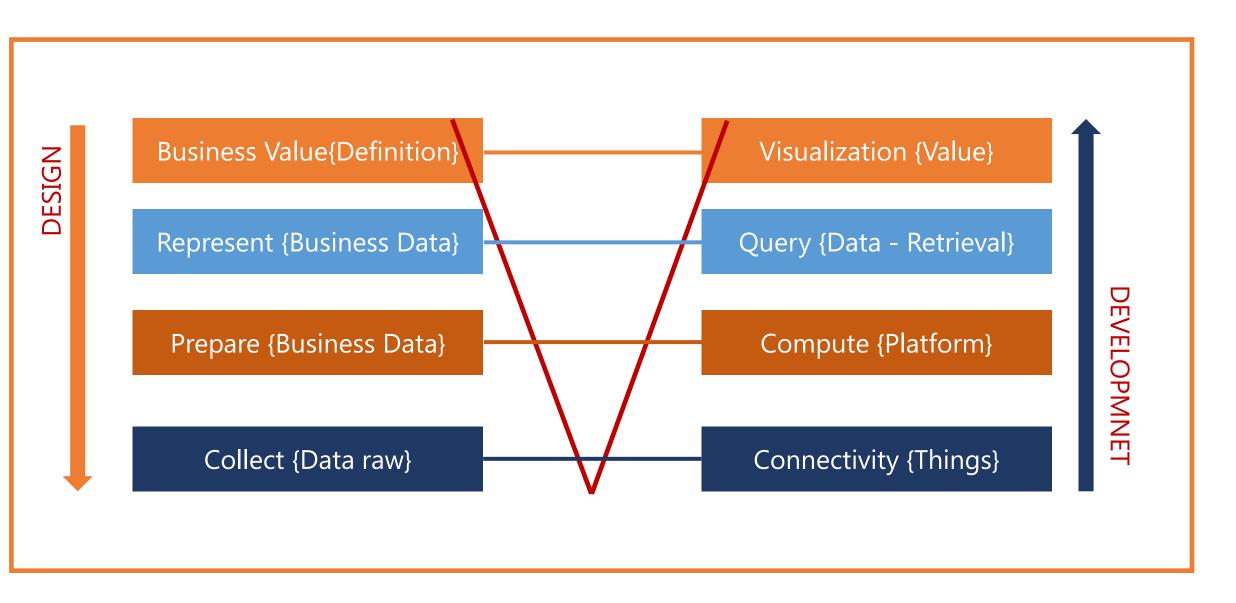
Building Blocks of IOT – A Glance



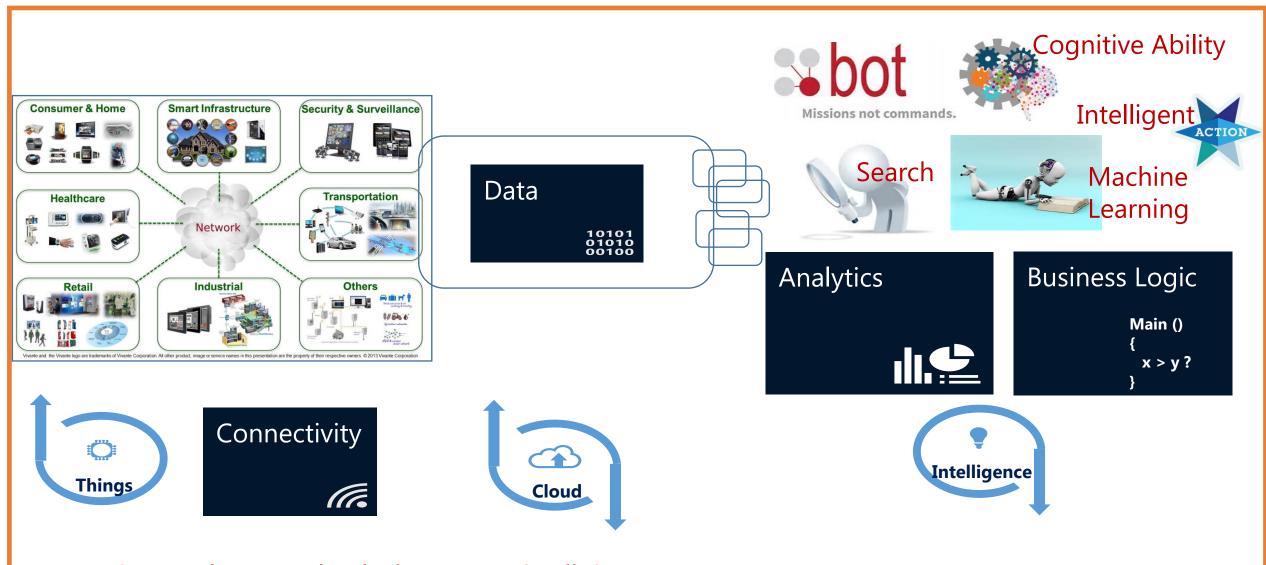
Compute on Internet of THINGS [== DATA]



DATA Centric Solution Approach

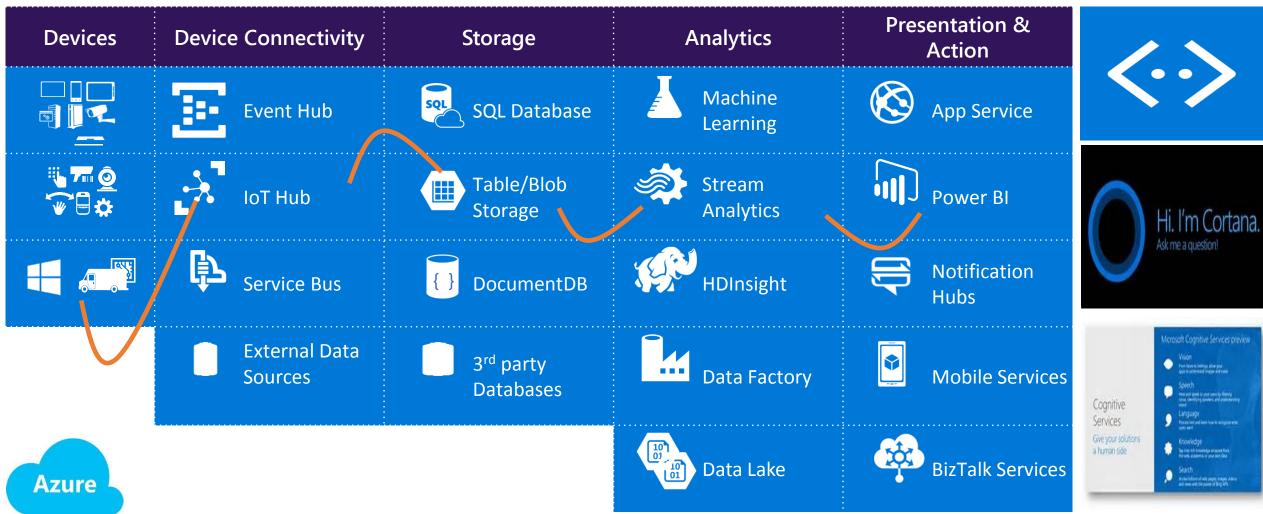


DATA Centric – Next Possibilities



Do you know of any single platform provide all these?

DATA Centric Implementation Approach for IOT



A platform offering to realize your IOT aspiration with ease, scale and agility

Possible – Data/Things of City can Talk to

Monitor River, cloud, rain

Collect Data

Analyze data

Communicate & Act

DATA OF CITY [Ex. Water Level]
THINGS OF [Ex. River]

MINOKAMO – SPEAKS & ACTS - Keep people rest easier

Are you ready?

Thank you for your Time



