

Watson on Wheels



...Connected, Cognitive, Autonomous

“Let’s co-create a more intelligent future”

Sachin Lulla- TU Automotive West 10/13/2016

The idea of an AI-enabled car is not new...



“**Knight Rider** is an American television series created and produced by Glen A. Larson. The series was originally broadcast on NBC from **1982** to 1986.

“The Knight Rider is **an advanced artificially intelligent, self-aware and nearly indestructible car.**” Wikipedia

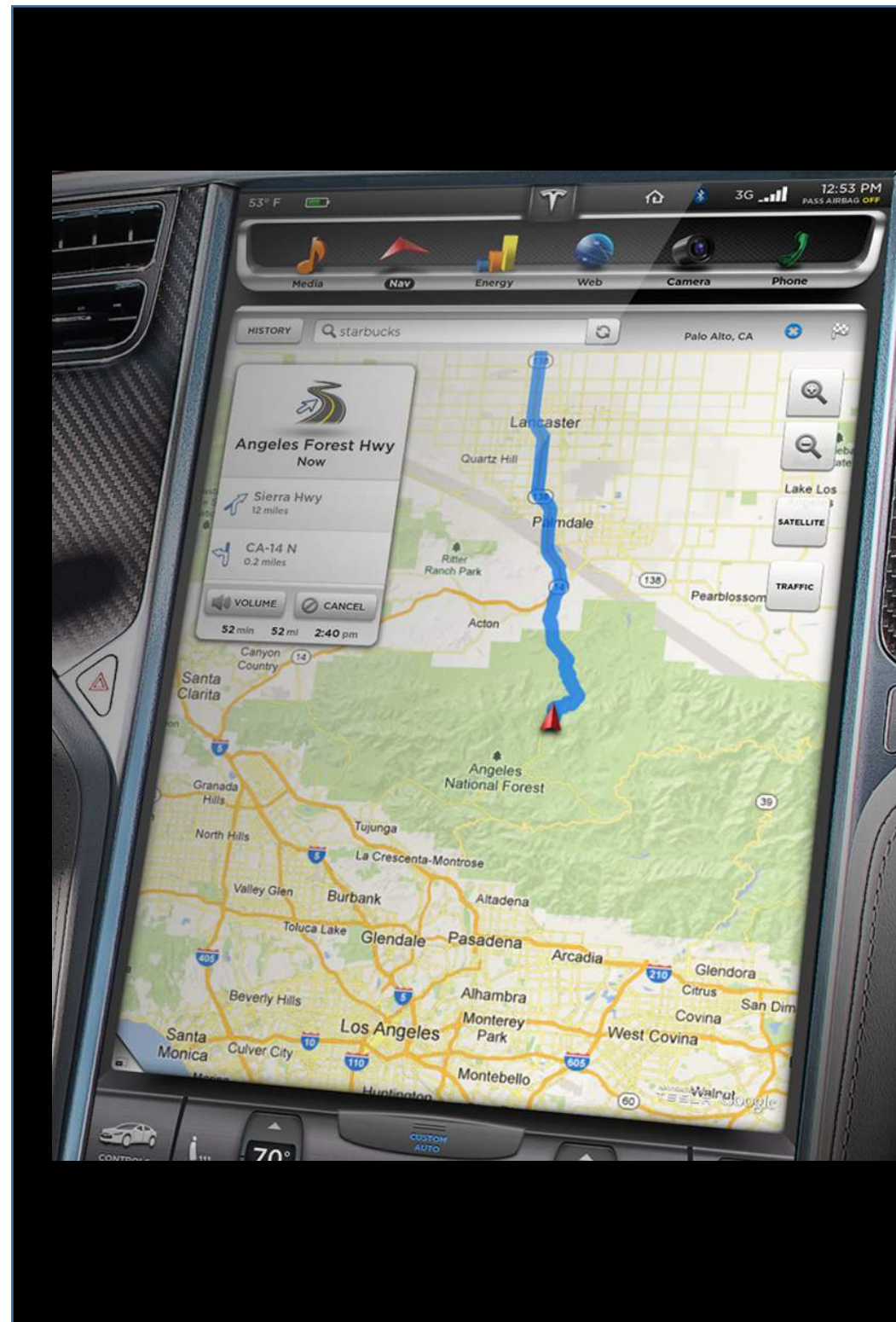


However, the customer experience today is anything but impressive or intelligent...

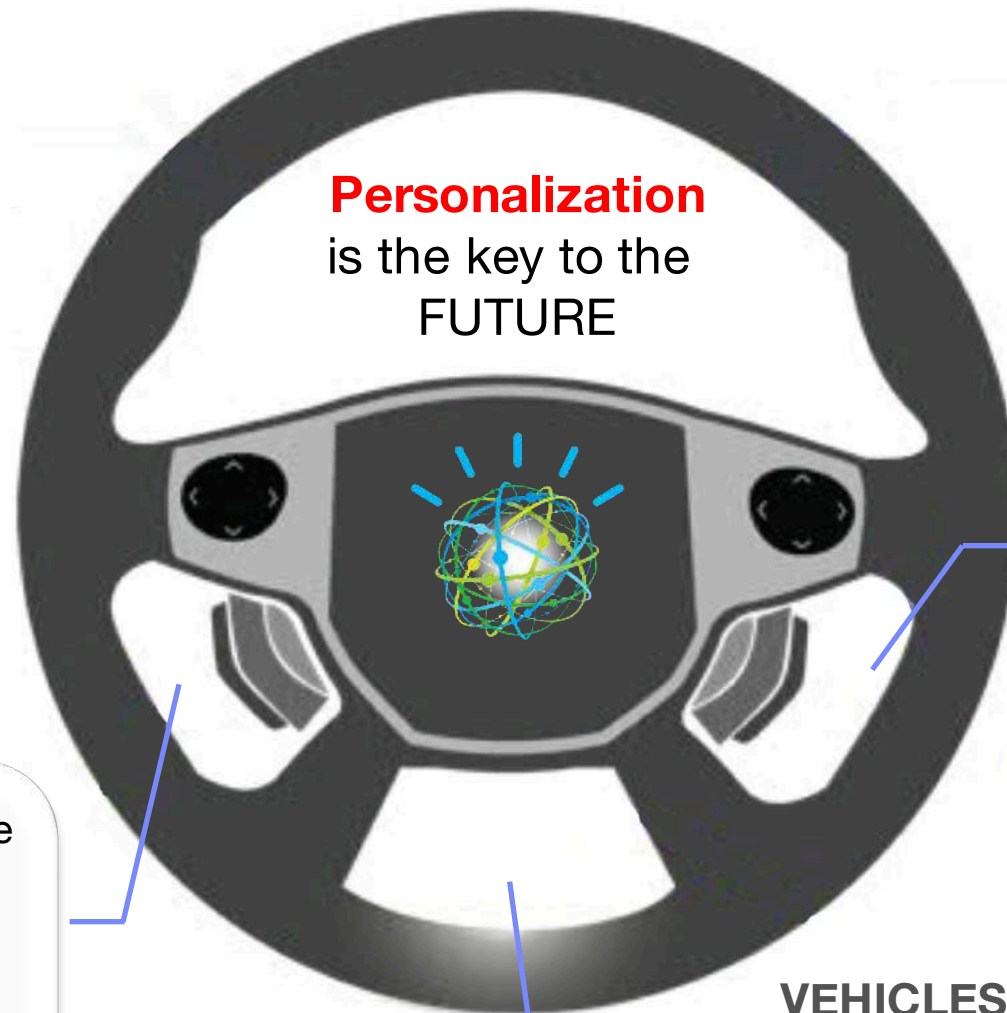
Btw- Is there room for more buttons?

We have made progress along the way, but...is this the answer?

Is this the best we can do?



Knock Knock? Who's there – An unprecedented opportunity



Personalization
is the key to the
FUTURE

THERE IS A MARKET TO BE MADE

- **\$78.6B** in revenue opportunity will be enabled by self learning vehicles by 2025
–*Frost & Sullivan*
- **\$1.5T** in additional revenue potential could be created by on-demand mobility services and data-driven services
–*McKinsey*

SOON EVERY VEHICLE WILL BE CONNECTED

- **250M** vehicles will be connected by 2020
–*GARTNER*
- **10M** Self-Driving Vehicles will be on the road by 2020
–*Business Insider*

VEHICLES WILL BE DATA CENTERS ON WHEELS

- Connected Vehicles will produce **350MB/sec**
–*IBM*
- Self Driving vehicles will produce **1GB/sec**
–*Computerworld*

“Only 1% of the world’s data is analyzed today” -
GIGAOM

What are Cognitive systems?

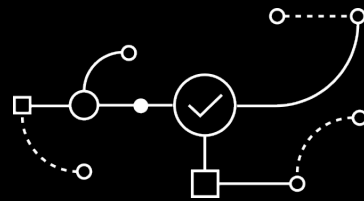
Cognitive systems understand, reason, and learn from structured and unstructured data sources, and have the ability to interact in natural language

1. UNDERSTAND



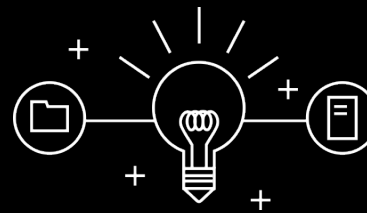
Cognitive systems understand imagery, language and other unstructured data like humans do.

2. REASON



They can reason, grasp underlying concepts, form hypotheses, and infer and extract ideas.

3. LEARN



With each data point, interaction and outcome, they develop and sharpen expertise, so they never stop learning.

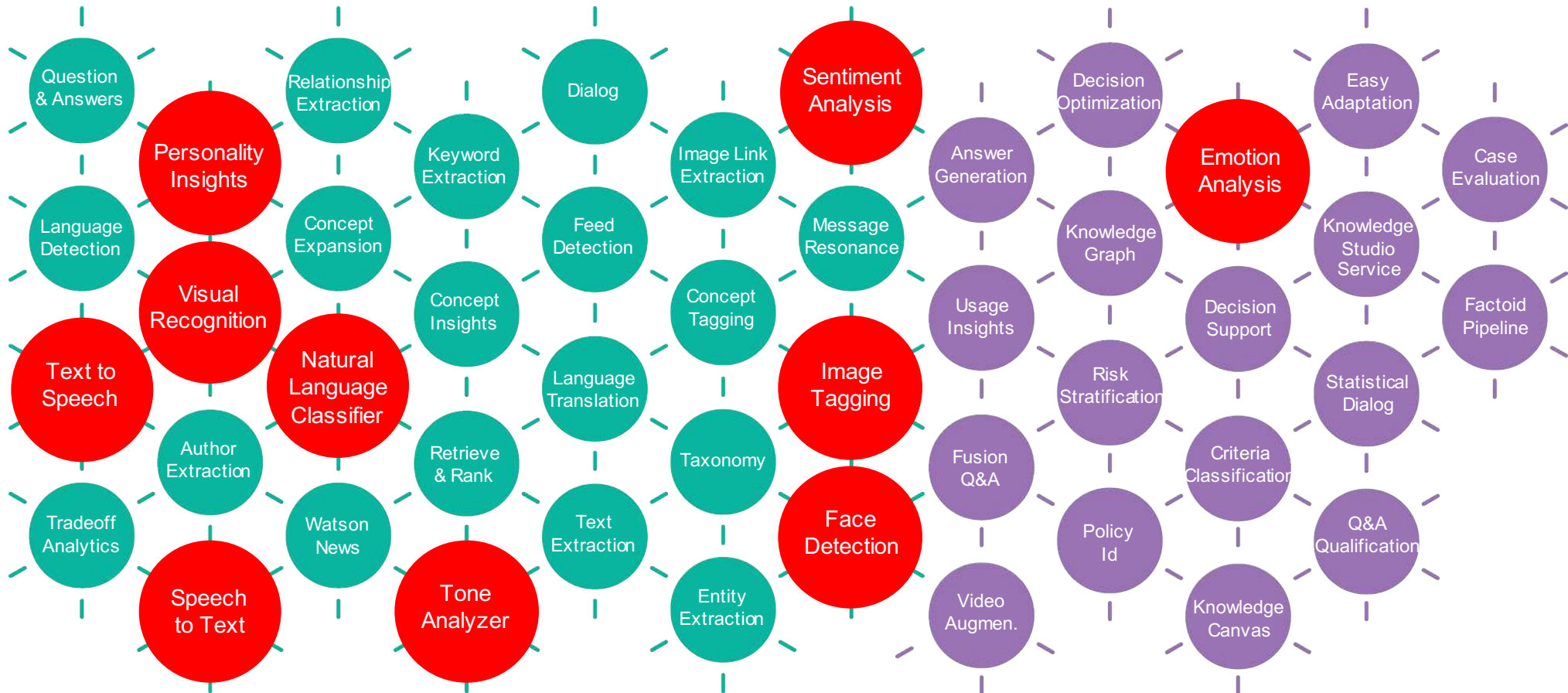
4. INTERACT



With abilities to see, talk and hear, cognitive systems interact with humans in a natural way.

We are creating the future TODAY, with the power of Watson...

Watson APIs are the foundation for understanding the driver in new ways and continuing to learn and personalize



#Monetization follows personalization
(e.g. I always pick up Starbucks on my way to work)

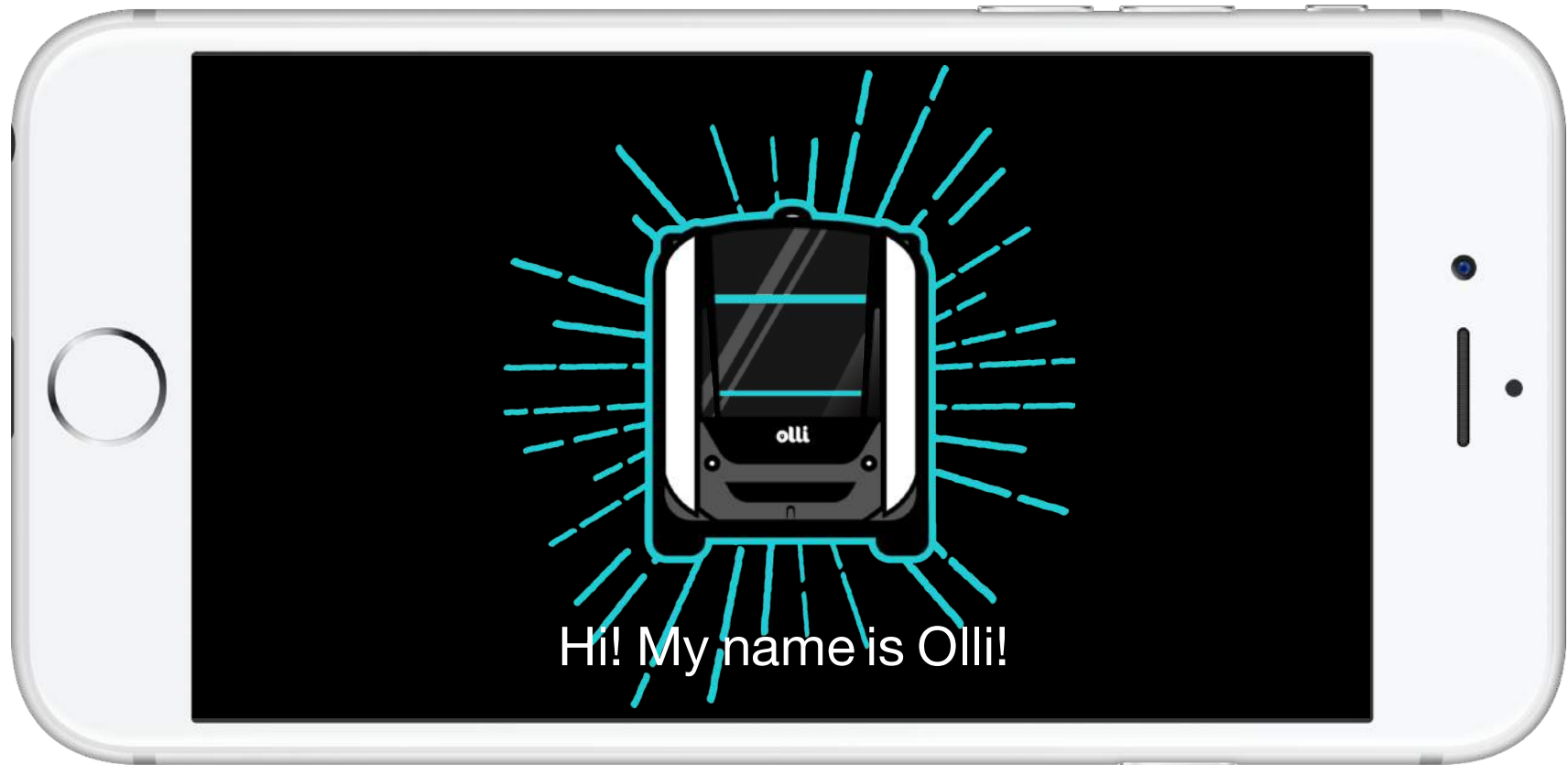
However, a holistic approach to personalization is needed...



...IBM sees a future where cars will enable themselves

#ShowMe

Video: Local Motors reinvents the vehicle in three months



Co-creation is the key to Olli's rapid innovation

From Design to Development to Manufacturing

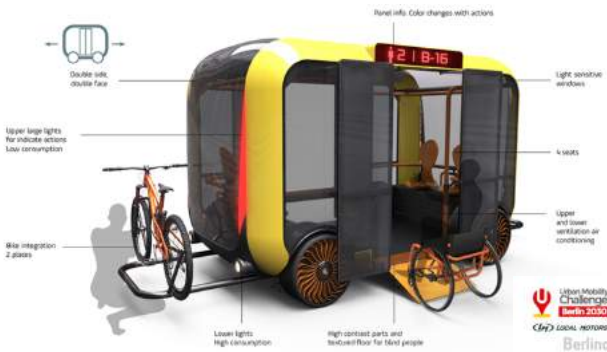
Berlin 2020 Challenge
held in 2015



3 Months



8 Weeks



Watson IoT AutoLAB



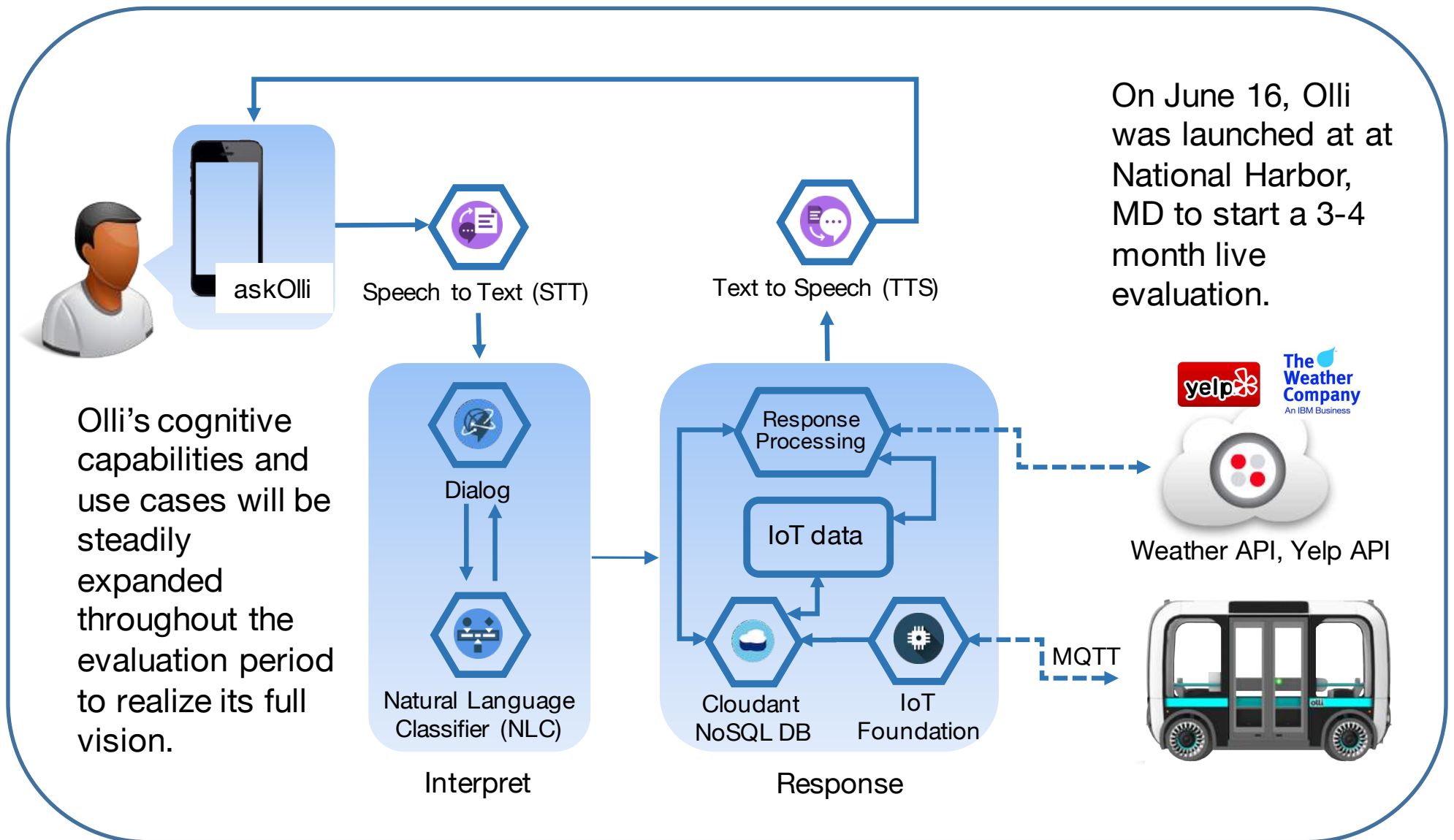
24- yr old Italian design student, Edgar Sarmiento won the competition

Sourcing and manufacturing with partners began in 2016

Watson IoT is at the heart of Olli's development

“Olli has a personality, will welcome you by name, learn your preferences, and be your local guide”

IBM Watson APIs are core to Olli's cognitive rider experience



Come ride the Olli at the World of Watson, Las Vegas Oct 24-27



Meet #Allison



Allison

Soccer Mom, Part time Physical Therapist

- Age 36
- Lives in Washington DC, married with two children – Ethen and Sarah
- Picks up children periodically at Elementary school from her work location
- Can be extremely impatient with delays and inefficiency
- Allison loves Starbucks, and kids love McDonalds
- Not tech savvy, but does use social media to keep up with news and her interests.

Scope of MVP-

Cognitive Route Guidance

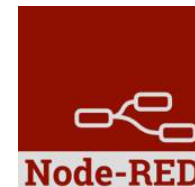
In-Vehicle Personalization

POI Integration – YELP

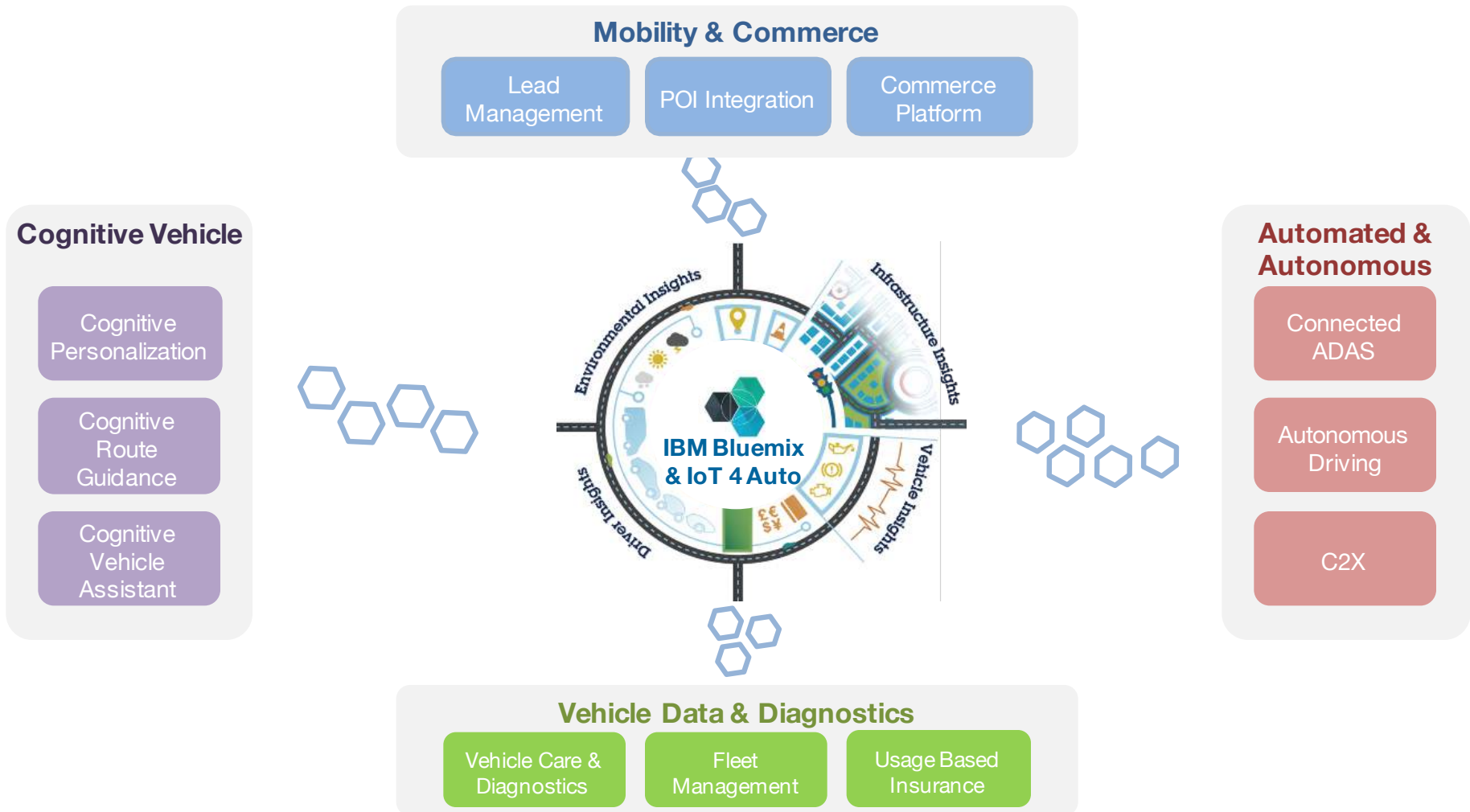
Weather Integration

Social Media Integration –
Twitter

Cognitive Commerce



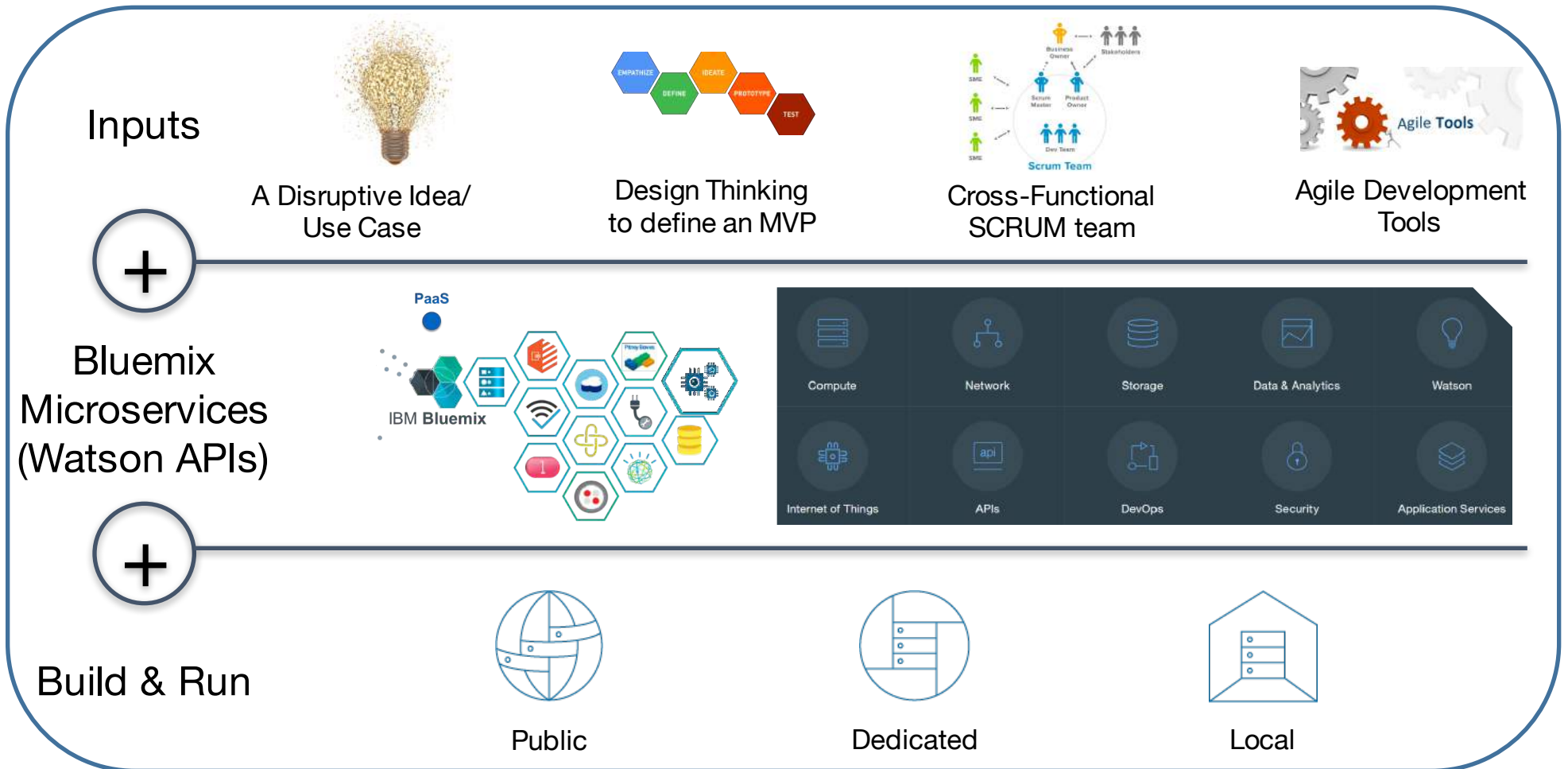
The AutoLAB has a use case library of 240+ use cases that are grouped into four major categories



#ingredients

So what do you need to get started?

You can start developing for free and pay based on actual consumption (pay as you go)



<https://console.ng.bluemix.net/>

<https://www.ibm.com/watson/developercloud>

Come visit the Watson IoT AutoLAB...



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...lets co-create a more intelligent future together!!!