



IOT, AI, ML A NEW WAVE OF RESHAPING ECONOMIES

GREECE

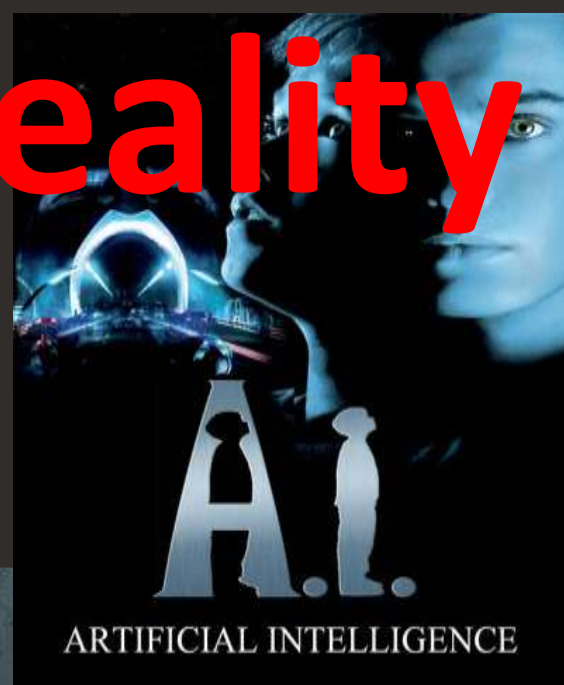
29-MAR-2022

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MACHHOUR JERYESS
BUSINESS DEVELOPMENT, STRATEGY LEADER
ECEMEA REGION

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When Science Fiction
Joins Reality

ROBOTS Do
BACKFLIPS
AND
BECOME CITIZENS

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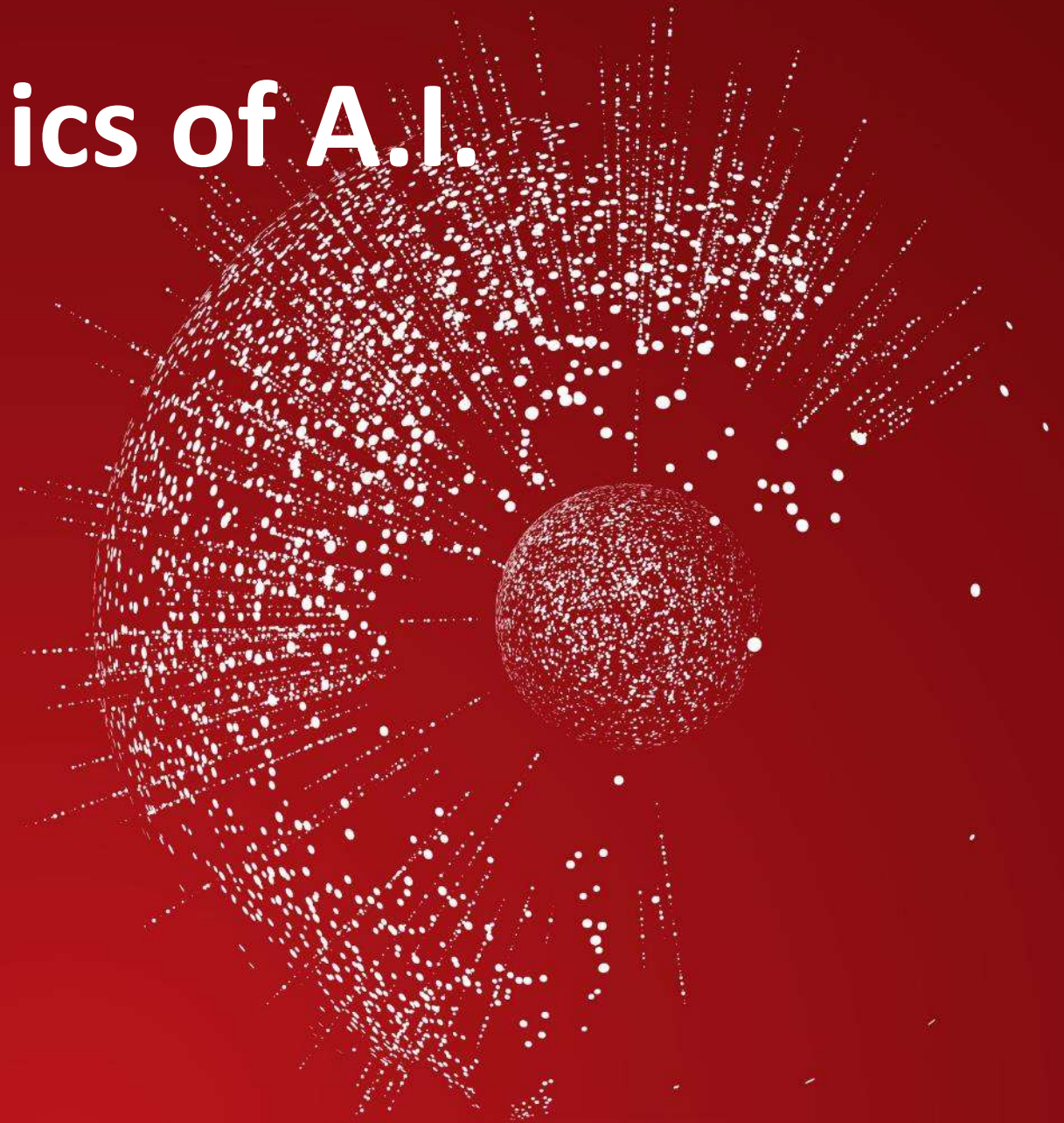
A.I. is now in our Life

- Google Maps & Google Search
- Auto-pilot on planes
- Spam Filters
- Detecting copyright content
- Credit Card Fraud Prevention
- Mobile check deposit

The Simple Economics of A.I.

AI could double annual economic growth rates in 2035 by changing the nature of work and creating a new relationship between man and machine

Source: Accenture research on the impact of AI January 2021





Change

Economics of Innovation

Applying Algorithms to Data

Emerging Tech to Automate

A close-up photograph of a person's wrist wearing a smartwatch. The watch has a blue metal mesh band and a rectangular screen. The screen displays a financial dashboard with various charts and data points. A finger is visible at the top right, interacting with the watch. The background is blurred, showing a person's arm and hand.

Changing how we interact
with technology and data



It's about new possibilities, redefining how
businesses run and people work and live

A photograph of a female doctor with blonde hair, wearing a white lab coat over a yellow polka-dot top. She is looking down at a smartphone held in her hands. A name tag on her lab coat reads "Angela Clarke, MD". In the background, another person is partially visible, and there are medical charts and a computer monitor. A large red banner with white text is overlaid on the middle of the image.

Remotely monitor medical devices to make early diagnosis from patient data and symptoms



Confidently make more secure transactions
anywhere in the world with blockchain

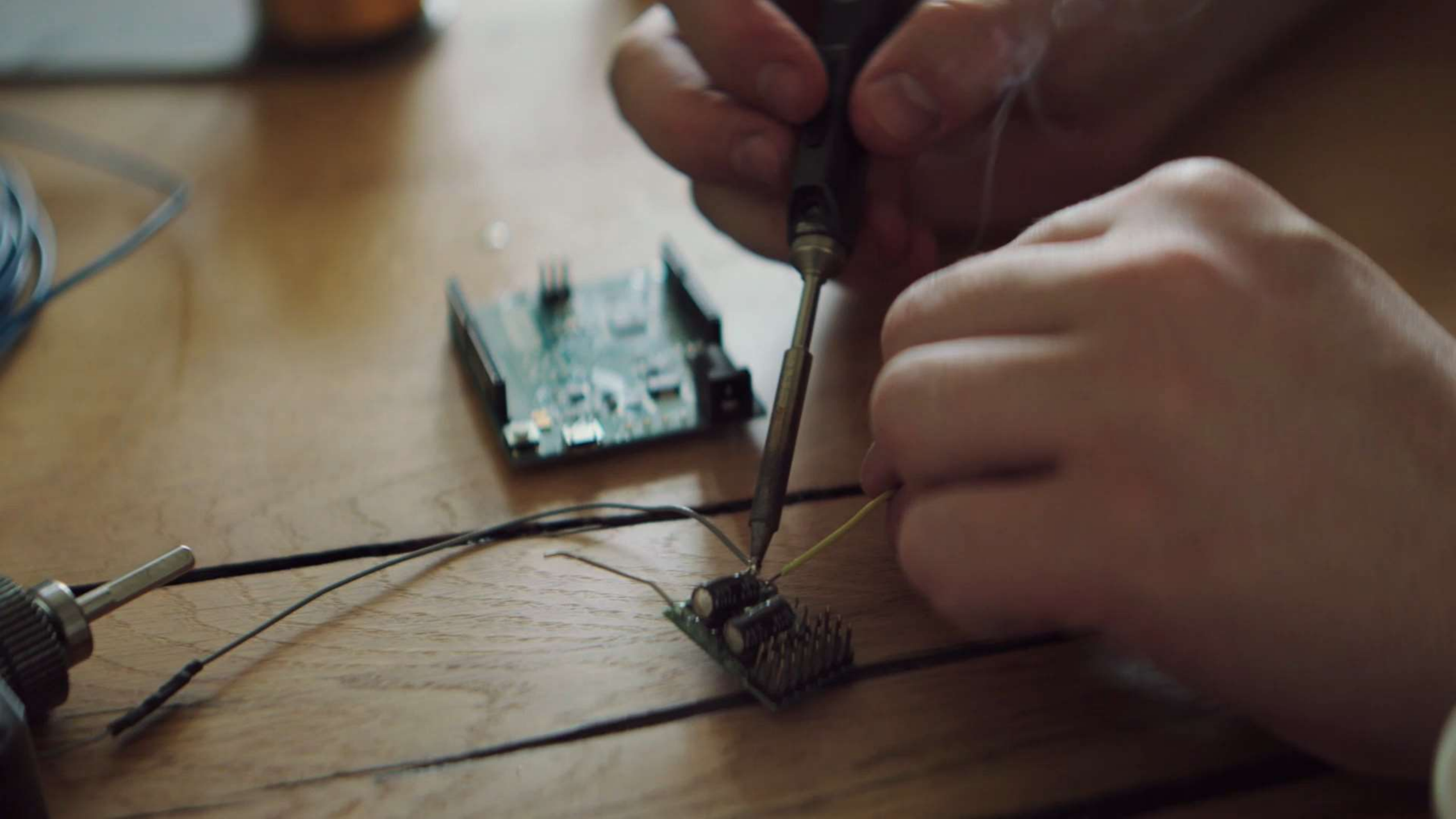
A person is holding a tablet in a factory setting. The tablet screen shows a dashboard with various charts and data points, including a line graph and a table. The background is a blurred view of a manufacturing facility with various equipment and structures.

Remotely monitor manufacturing sensors for
machine defects and assembly inefficiencies

Emerging Technologies

- Intelligent AI- and IoT-based apps
- Personalized interactions—bots, speech, touch, text
- Trusted transactions via blockchain
- AI, ML-based analytics discover hidden patterns
- AI dev platform—libraries, frameworks
- Self-driving autonomous platform





A woman with blonde hair is shown in profile, looking upwards and to the right. The background is dark with out-of-focus yellow and green lights, suggesting a night scene. A large red diagonal shape covers the left side of the image, containing the text.

It's too much for
humans to compute

Autonomous

“A new computing era is coming with Autonomous, and the difference will be as big as going from driving a vehicle with an automatic transmission to using a self-driving car.”

Source: Forbes 2018

A photograph of a modern city skyline, likely Shanghai, featuring prominent skyscrapers like the Shanghai Tower. In the foreground, a curved, glass-enclosed walkway or bridge structure is visible, creating a sense of depth and modern architecture. The sky is a soft, hazy blue.

New category of Platform as a
Service. Automation based on
machine learning



Self-Driving

Automatically provision, secure, monitor, backup, recover, tune and upgrade.

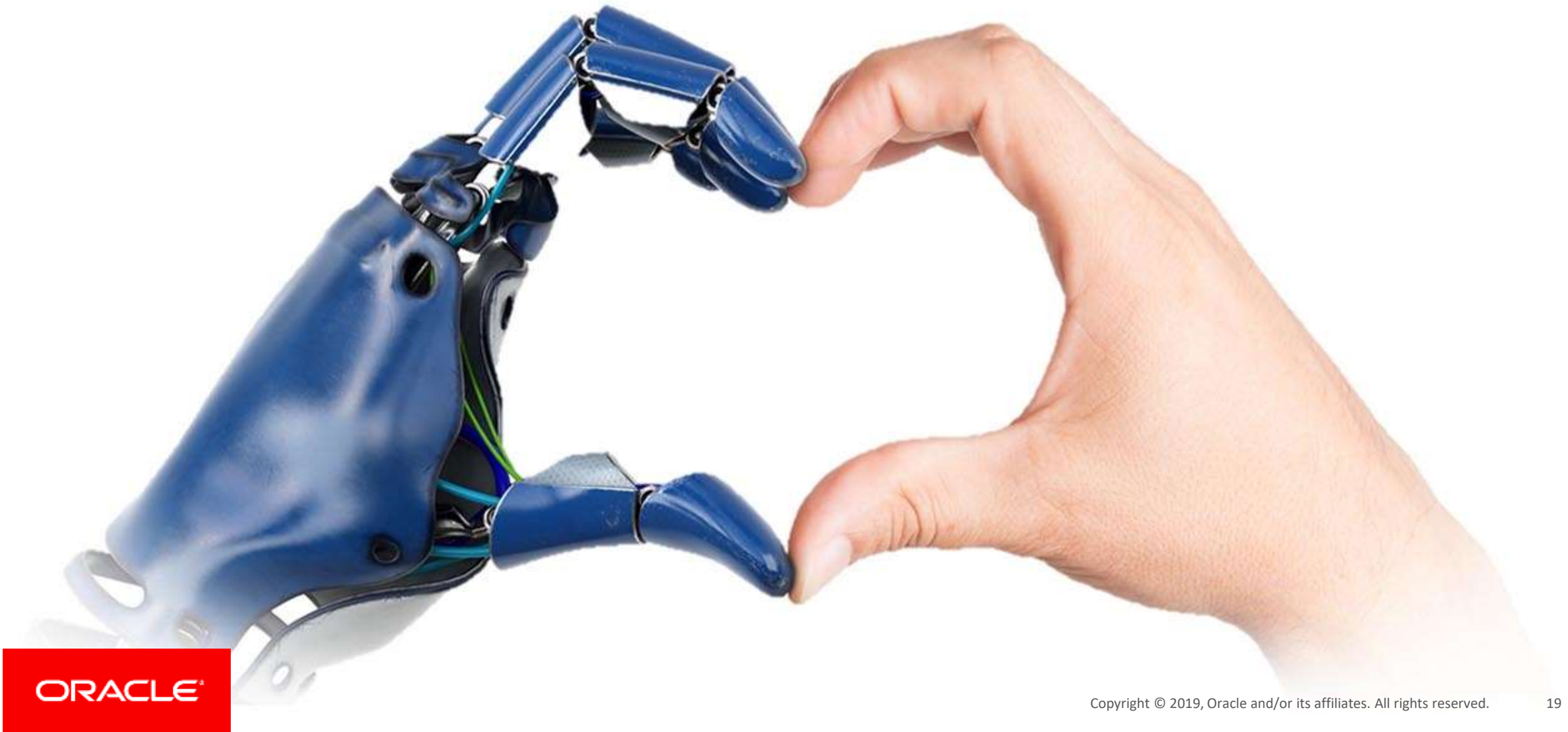
Self-Securing

Automatically apply security patches with no downtime.

Self-Repairing

Maximize availability; downtime < 2.5 min/mon for planned & unplanned.

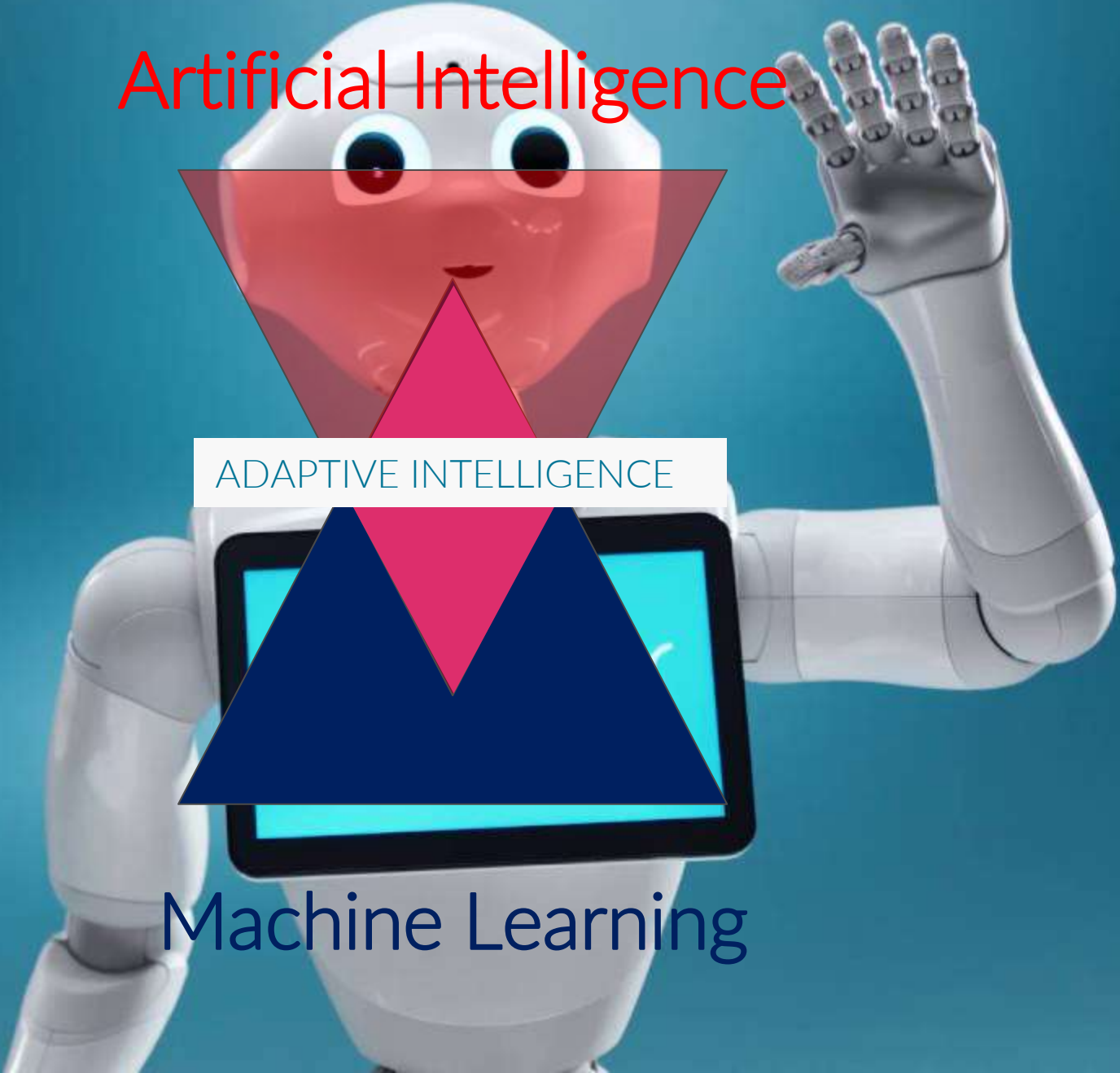
Humans Alone Cannot Provide Maximum Security



ADAPTIVE INTELLIGENCE



Artificial Intelligence

A white humanoid robot is centered in the image. It has a friendly face with large blue eyes and a small smile. A red semi-transparent triangle is overlaid on its face. The robot's right arm is raised, showing its fingers. It holds a tablet in its left arm, which displays a blue screen. A pink triangle points downwards from the robot's face towards the tablet. A white rectangular box with the text 'ADAPTIVE INTELLIGENCE' is positioned between the robot's face and the tablet. A large dark blue triangle is overlaid on the tablet screen. The background is a solid blue color.

ADAPTIVE INTELLIGENCE

Machine Learning

Conversational Interfaces Play a Major Role

Very simple Interface!

→ Conversation is the most natural form of communication for humans.

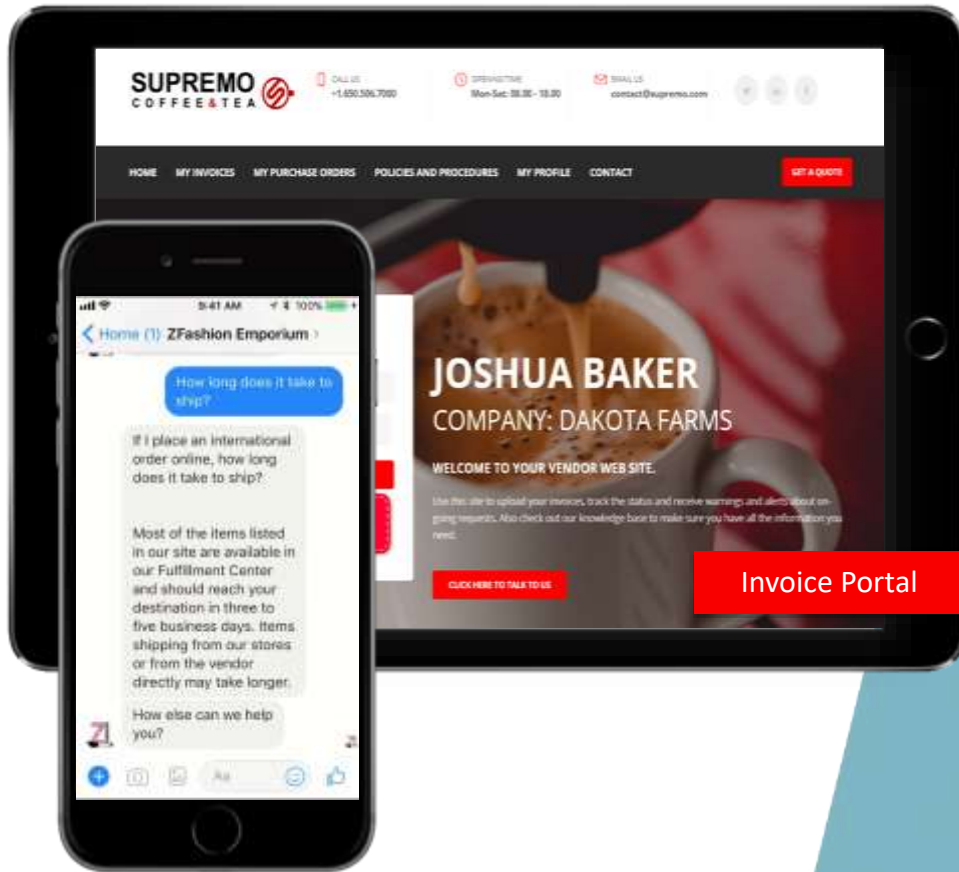
Give two people a cup of coffee or tea and they Immediately start chatting.

When was the last time you spoke to your ERP?



Oracle Chatbot Solution

- Extend SaaS with custom web & mobile apps, business logic
- Conversational AI / chatbot extensions for seamless bot-to-human hand-off
- Leverage Blockchain to extend enterprise boundaries
- Customer & employee experience analytics



IoT – Internet of Things



IoT

“It’s estimated that by 2020, there will be 20.4 billion IoT devices in circulation, generating in excess of 14 zettabytes of data every year.”

Source: Gartner & Forbes



Oracle IOT Cloud Apps

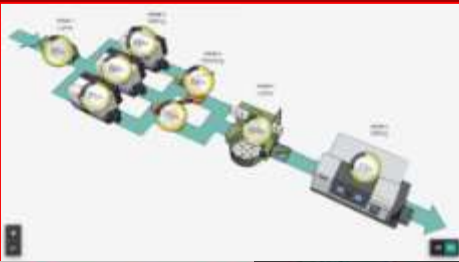
Asset Monitoring



95% Asset Availability
1 Open Incidents

Monitor assets, their health, utilization & availability

Production Monitoring



2% Down
78% In Use
On to 5h ago

Manufacturing equipment & production line monitoring & prognostics

Fleet Monitoring



68% On Track
5% Down
3 Driver Alerts

Monitor shipments, fleet vehicles, driver behavior and costs

Connected Worker



21 Over Time
3 Evaluation risks
0% Unsafe Zones

Enhance worker safety through monitoring of workers and environment

Service Monitoring for Connected Assets



38% Assets Connected
63% Asset Utilization

Automate asset monitoring and customer service to enhance customer experience

Internet of Things Cloud Enterprise (Platform)

Connect



Analyze



Integrate



Learn

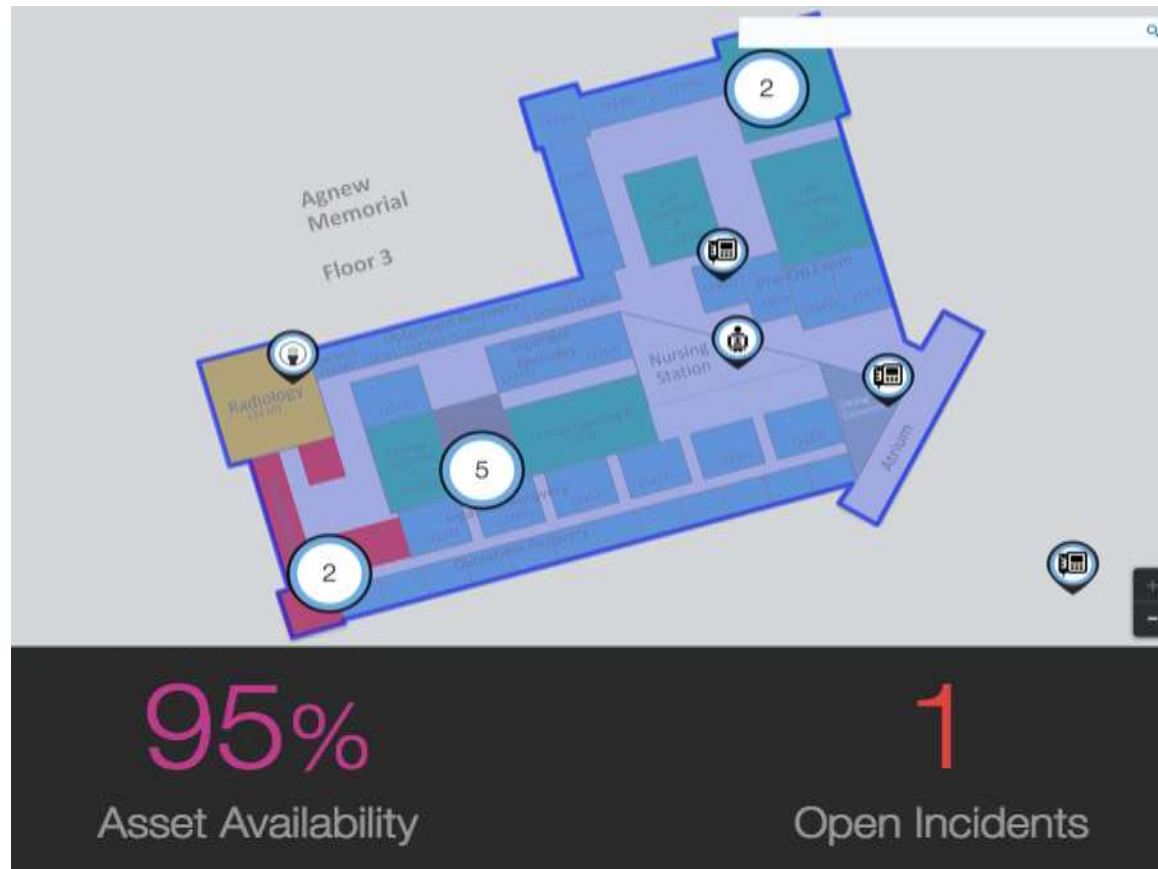


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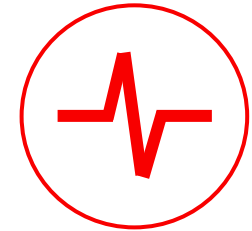


IoT Asset Monitoring Cloud

For monitoring assets, their utilization, availability, and data from connected sensors



Location Tracking



Asset Health



Asset Performance

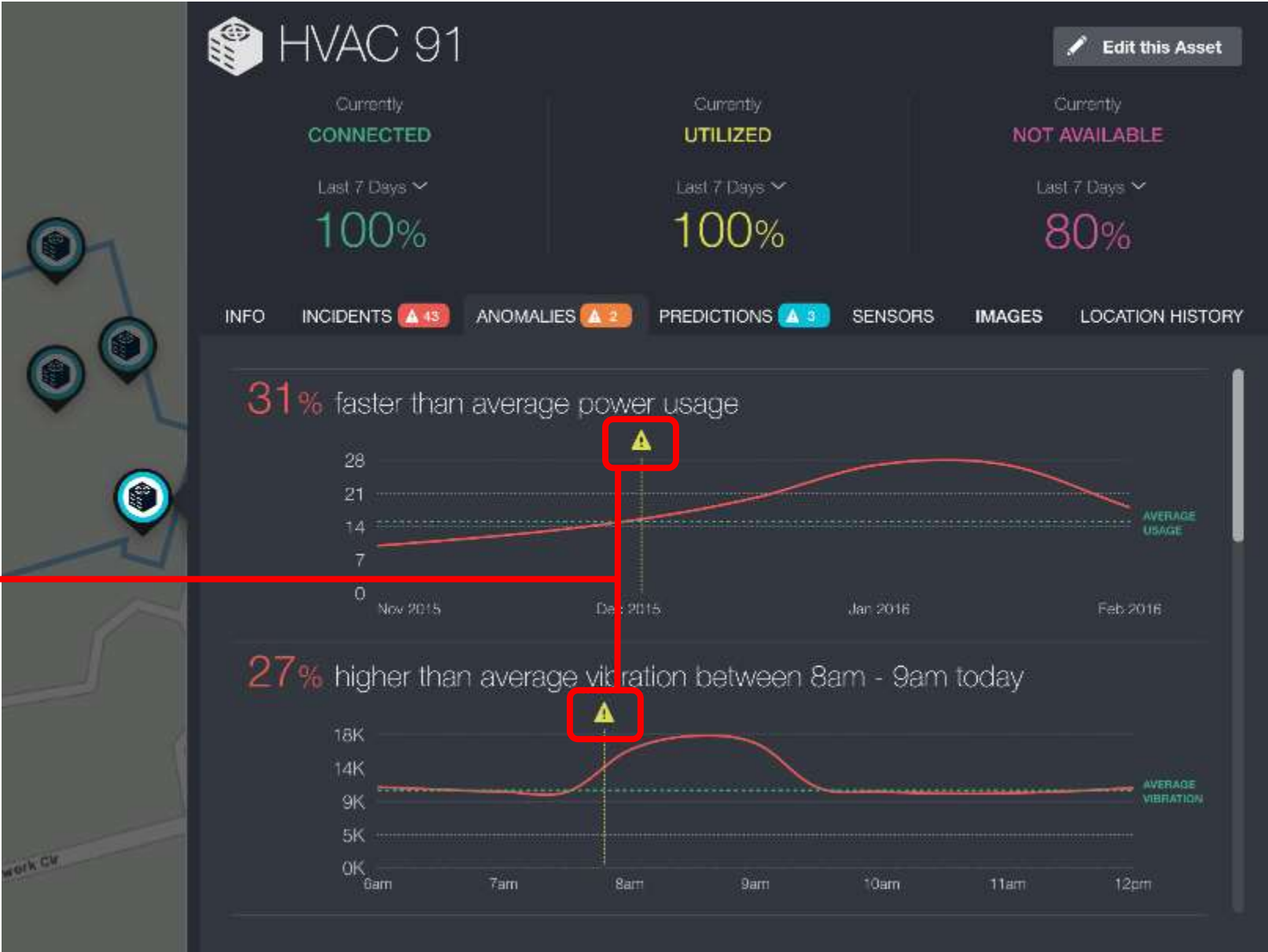


Utilization

View and Compare Asset Performance



Operational data displayed in near real-time

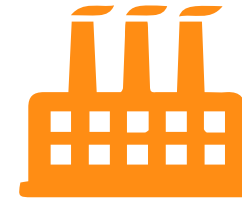
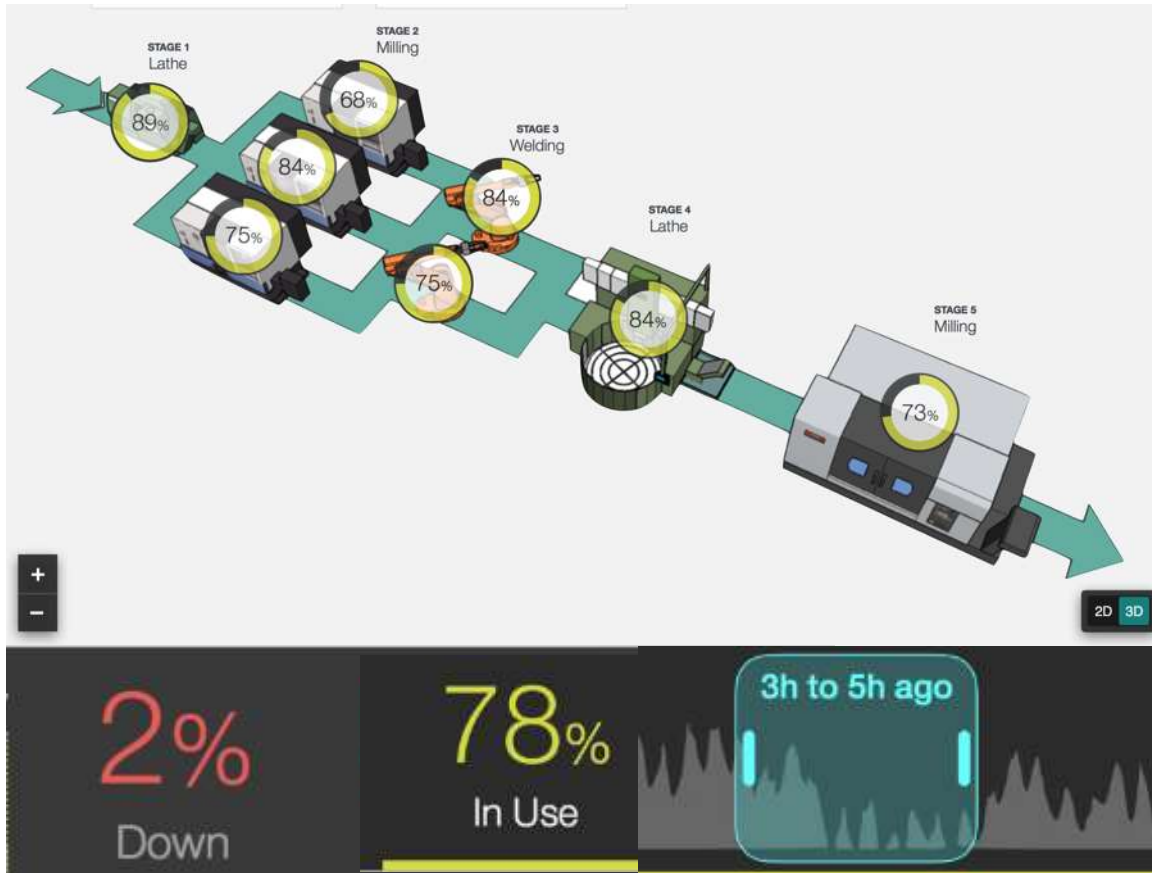


Quickly identify abnormalities in data streams

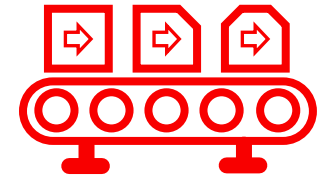


IoT Production Monitoring Cloud

Manufacturing factory floor equipment monitoring and prognostics



Factory Monitoring



Production Line View



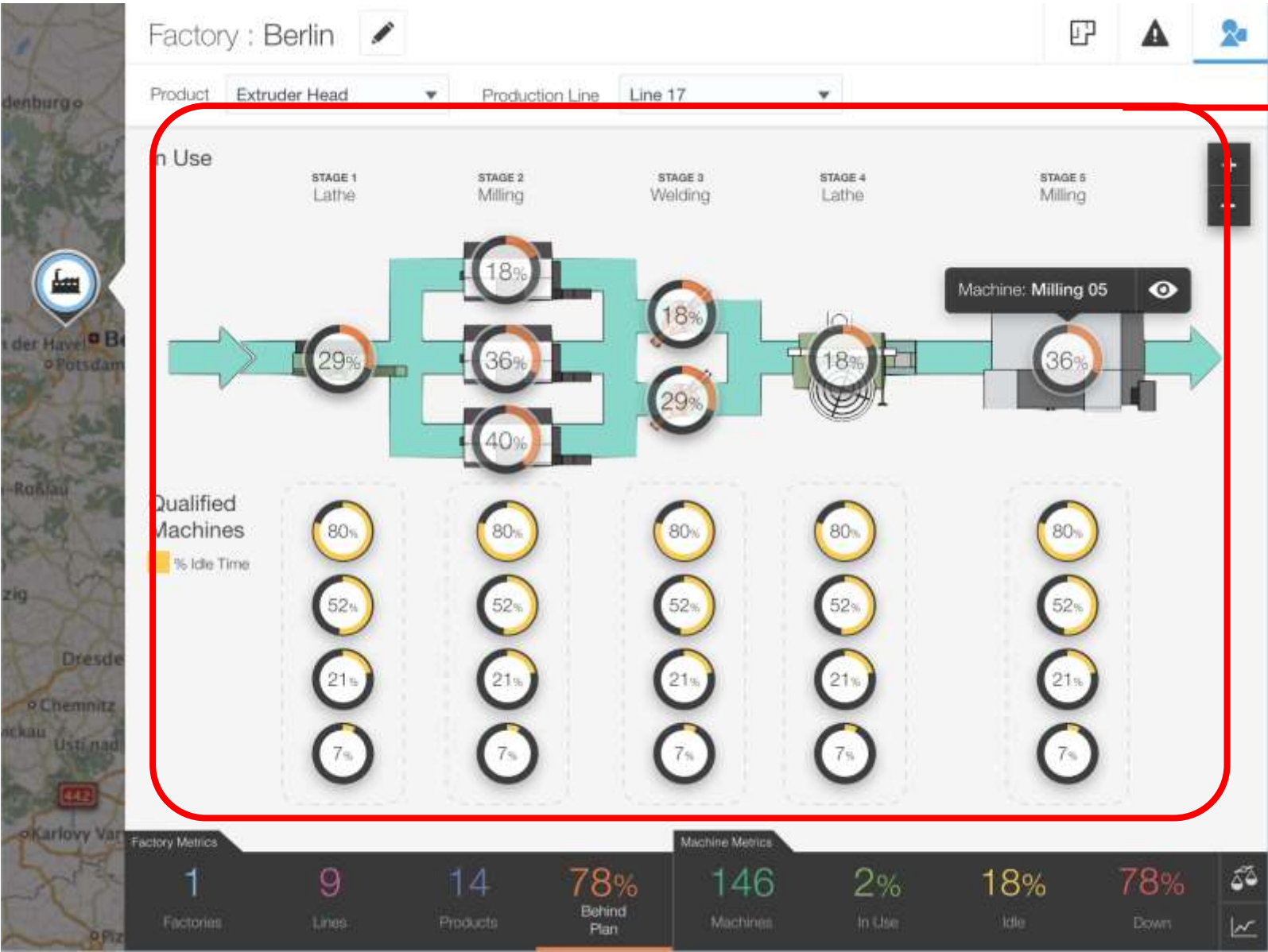
Predictive Algorithms



Maintenance

Gain Real Time Operational Visibility

Designed for factory manager and business user with responsive UI and multi dimensional search



Deep dive into production lines, and machines to gain operational insights

Identify Factory, Product, Machine for Improvement



Designed for factory manager and business user with responsive UI and multi dimensional search



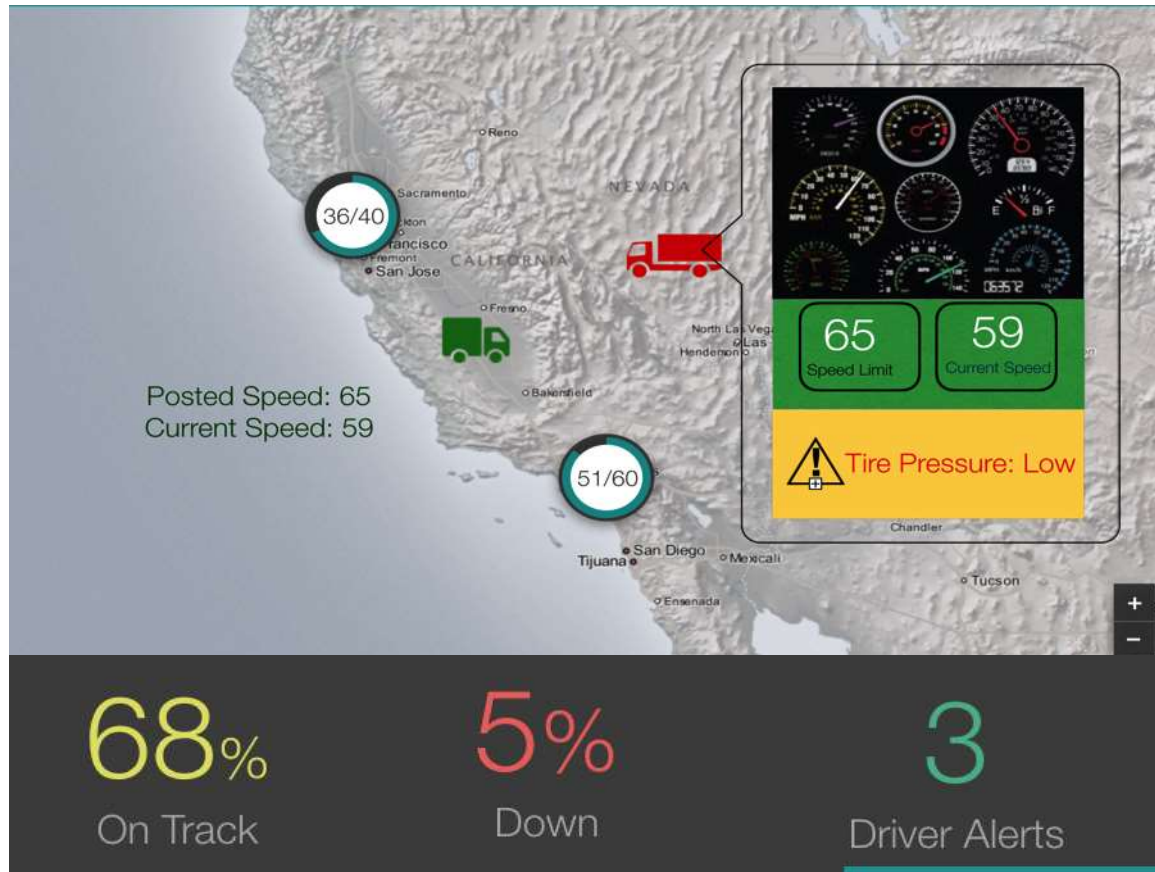
Identify root cause of sub-par performance using deep dive on specific KPIs and sensor data.

Identify anomalies in machine performance and its effect on production



IoT Fleet Monitoring Cloud

For medium sized business who have fleets of vehicles (trucks, buses, maintenance vehicles, delivery vehicles)



Connected Fleet



Location Tracking



Utilization



Fleet Performance

Gain Real Time Operational Visibility

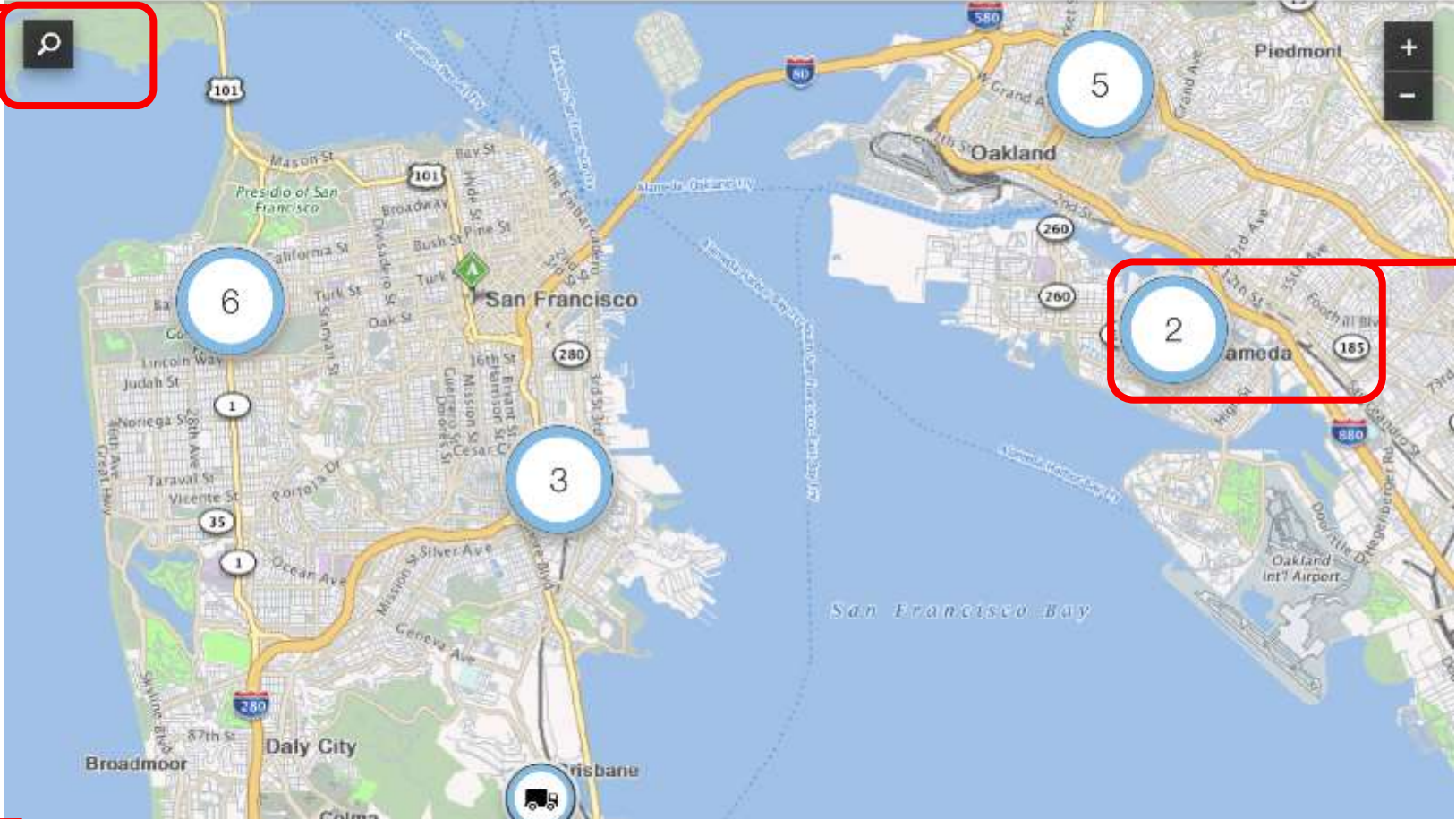
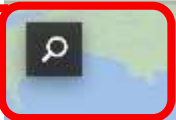
Designed for fleet manager and business user with responsive UI and multi dimensional search



ORACLE Fleet Monitoring

Joe Smith
LOGOUT

Search for a fleet directly based on vehicle and/or driver information



Navigate using the map view, and drill into a specific location, fleet

Monitor real time performance and derive KPIs for Fleet and Trips

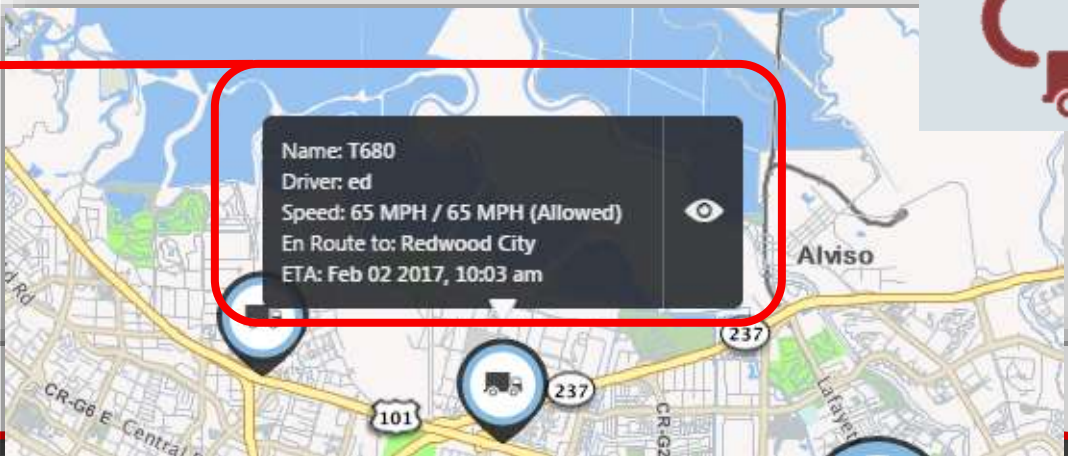


Gain Real Time Operational Visibility



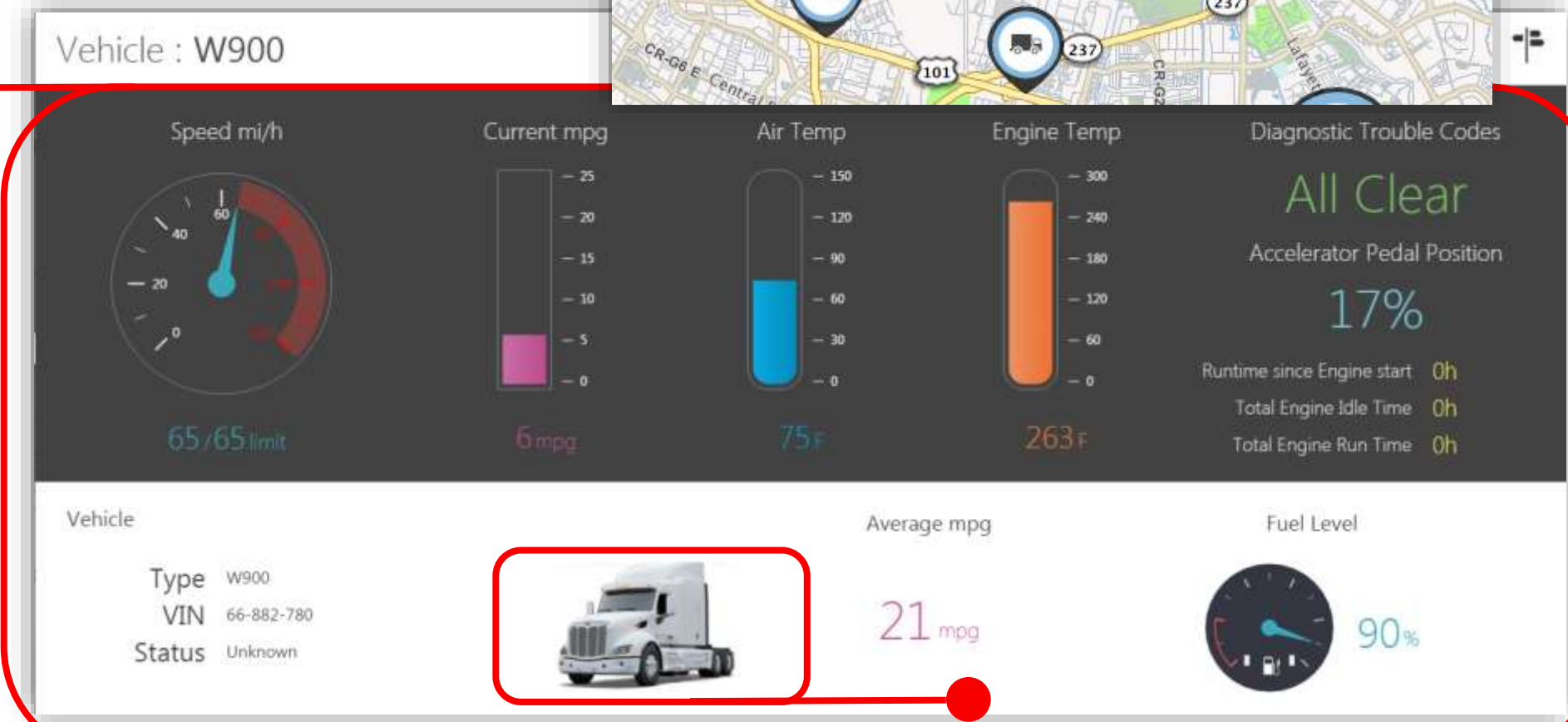
Designed for fleet manager and business user with responsive UI and multi dimensional search.

In Transit
Visualization of
Fleet



Rich Vehicle Data Reporting

- Speed & Mileage Driven
- Fuel Level & Efficiency
- Vehicle Fault Conditions
- Stop and Idle time
- Air and Engine Temp
- Accelerator Pedal Position
- Destination Arrival Time



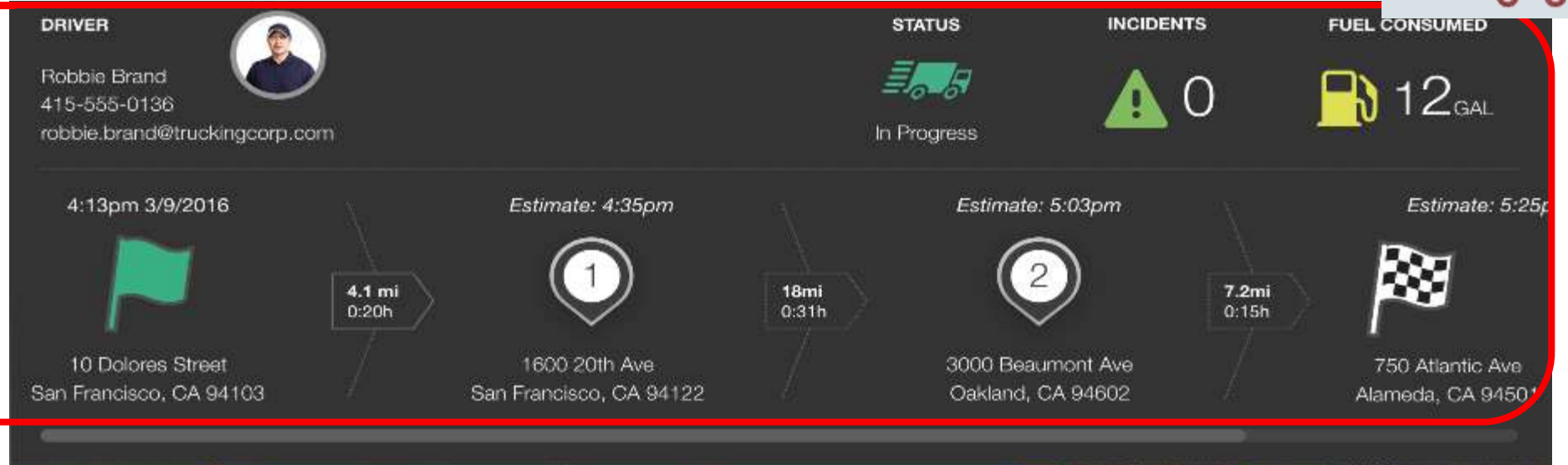
Import Vehicle Details from
Oracle Transportation Cloud

Gain Real Time Operational Visibility



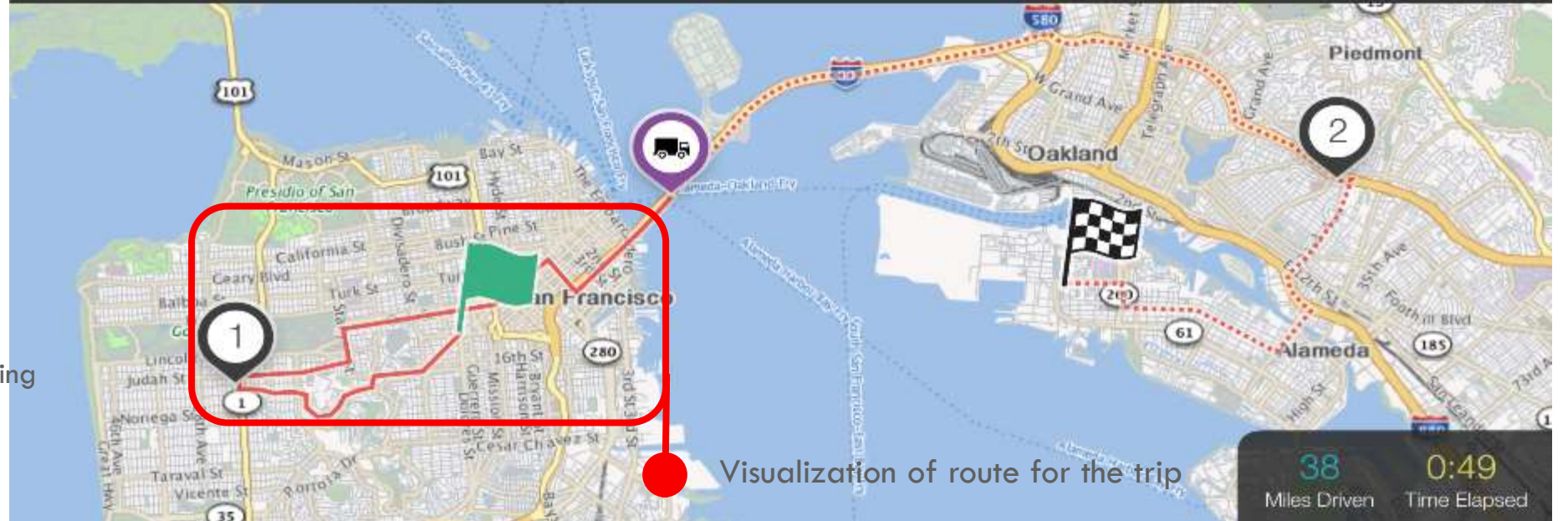
Real-Time Trip details

- Start Time
- Destination ETA
- Status
- Time Elapsed
- Stops
- Incidents (breakdown etc.)
- Distance Travelled
- Driver Identification
- Fuel Consumption



Driver Behavior Anomaly

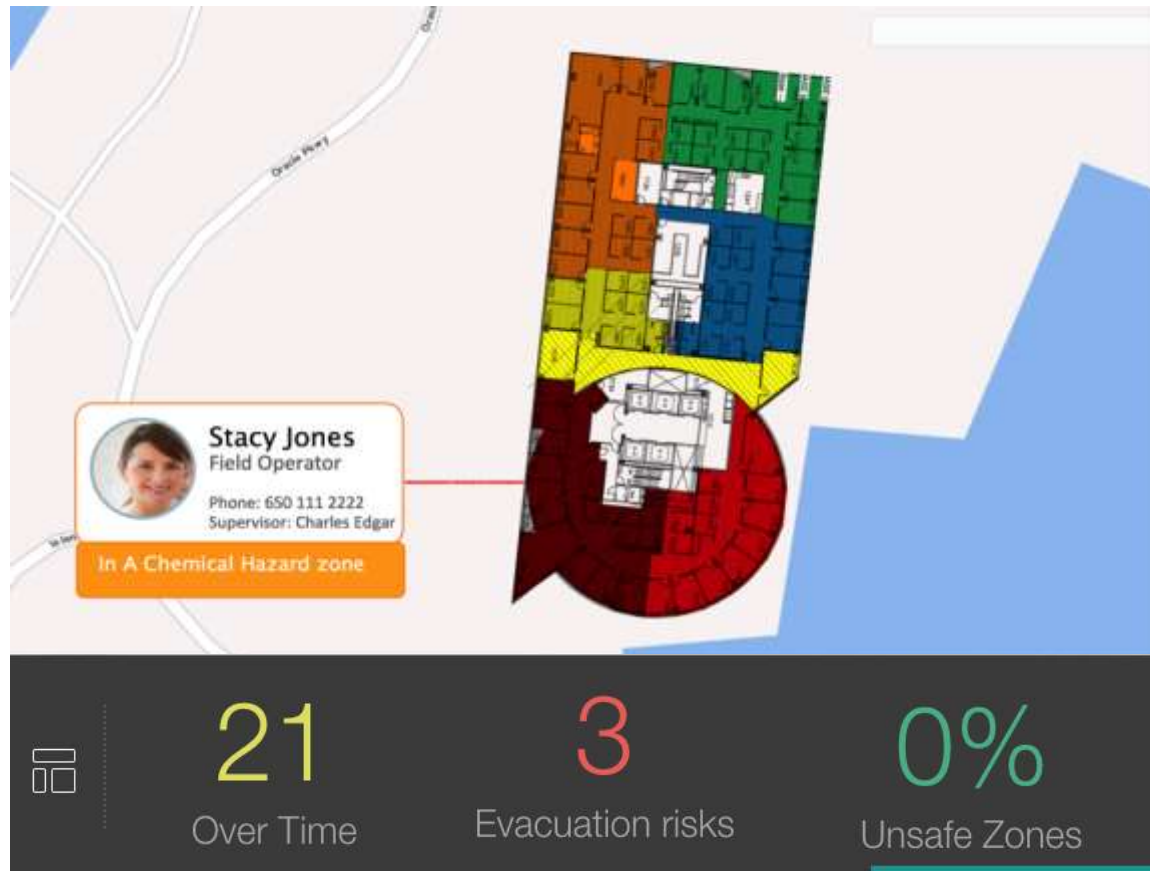
- Fuel Consumption
- Violations (Speeding, Harsh Braking etc.)





IoT Connected Worker Cloud

For tracking employees in Mining industry, Engineering and Construction industry



Connected Workers



Employee Safety

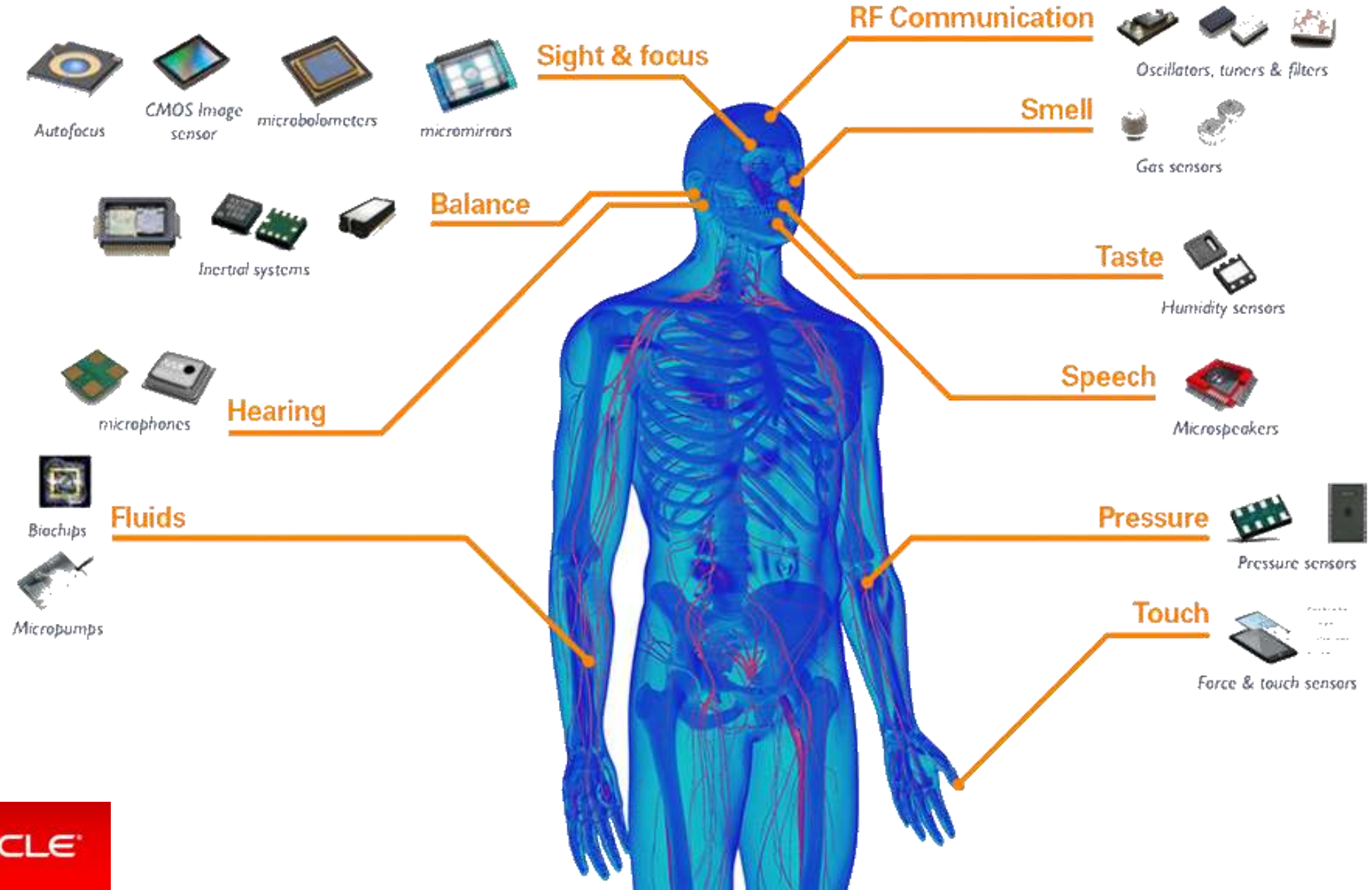


Location Tracking

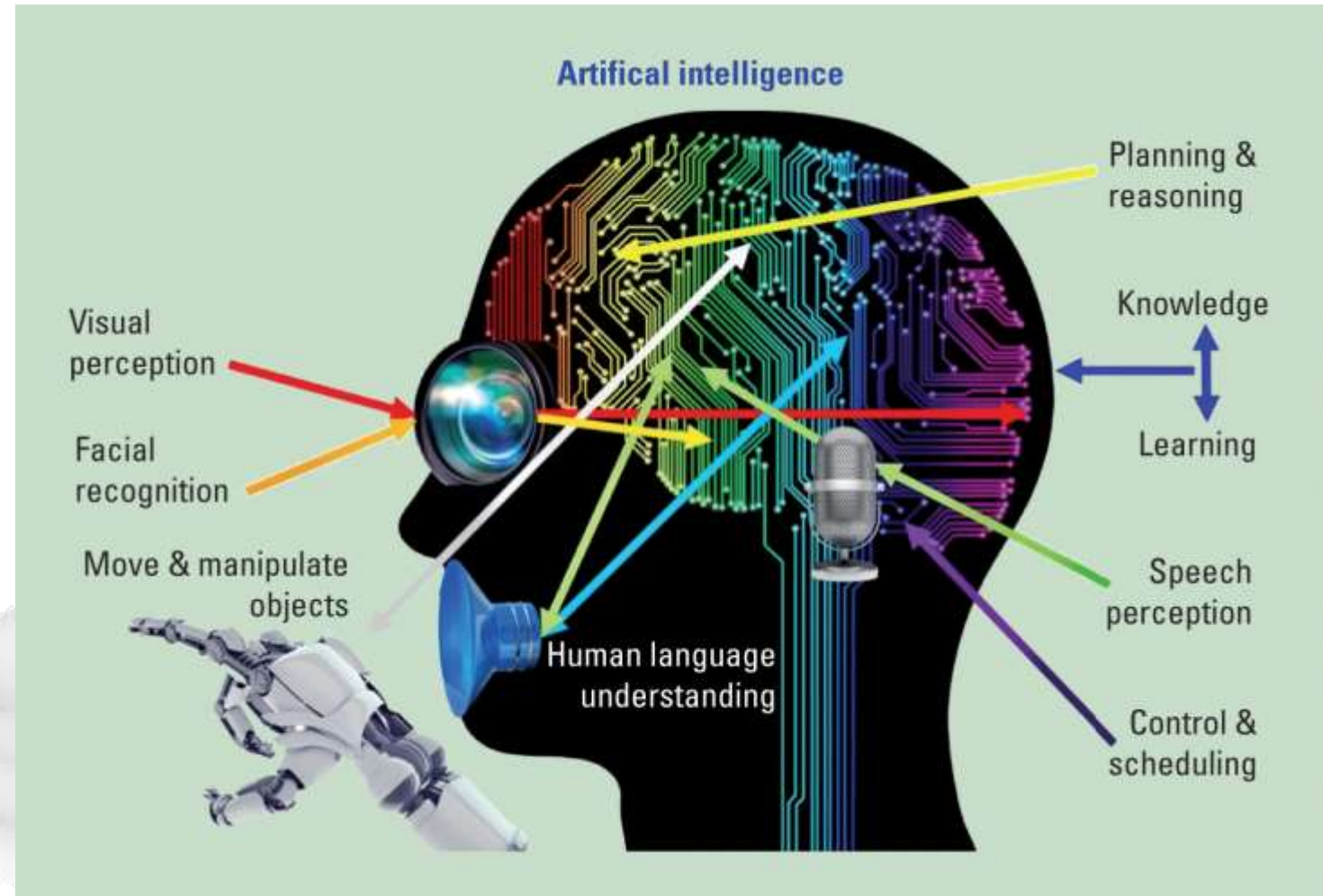


Performance

IoT Senses the World



If IoT are the senses....
Then AI is the brain



A New Wave Reshaping Economies



Artificial
Intelligence

Develop & refine predictive models



Machine
Learning

Detect & extract patterns from big data



Big
Data

Capture, process & store data at any scale



Internet of
Things

Communicate with anyone anywhere



Cloud
Computing

Deploy software globally for any purpose

Systems of
Intelligence

Digitalization

Systems of
Engagement

KEY INPUTS FOR A MODERN CLOUD



The rules of the games are changing



Flexibility and innovation are non-negotiable



You can't manage what you can't measure



Customer expectations will exponentially increase

Oracle SCM Cloud Adoption is Well Underway ...



A photograph of a train station platform. The platform is covered by a dark, arched roof structure. Tracks run parallel to the platform, receding into the distance towards a bright horizon. The sky is a pale blue, suggesting dawn or dusk. The overall scene is clean and modern.

RIDE THE TRAIN, DON'T JUMP IN FRONT OF IT



THANK YOU