

AWS INNOVATE
ONLINE CONFERENCE 2019
MACHINE LEARNING & AI EDITION

Building Business Outcomes with AI/Machine Learning (Level 200)

Barnam Bora, Head of AI & Machine Learning, AWS APAC

AI Is The New Normal

AI Is The New Normal – Why?

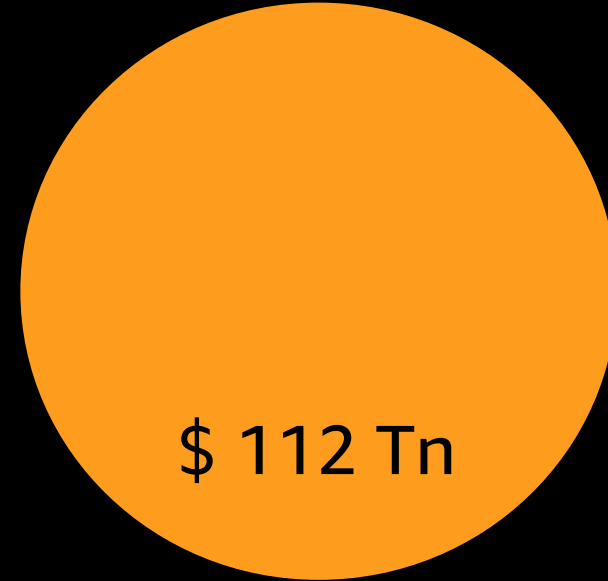


2017
WW GDP

AI Is The New Normal – Why?



2017
WW GDP



2030
WW GDP
**projected*

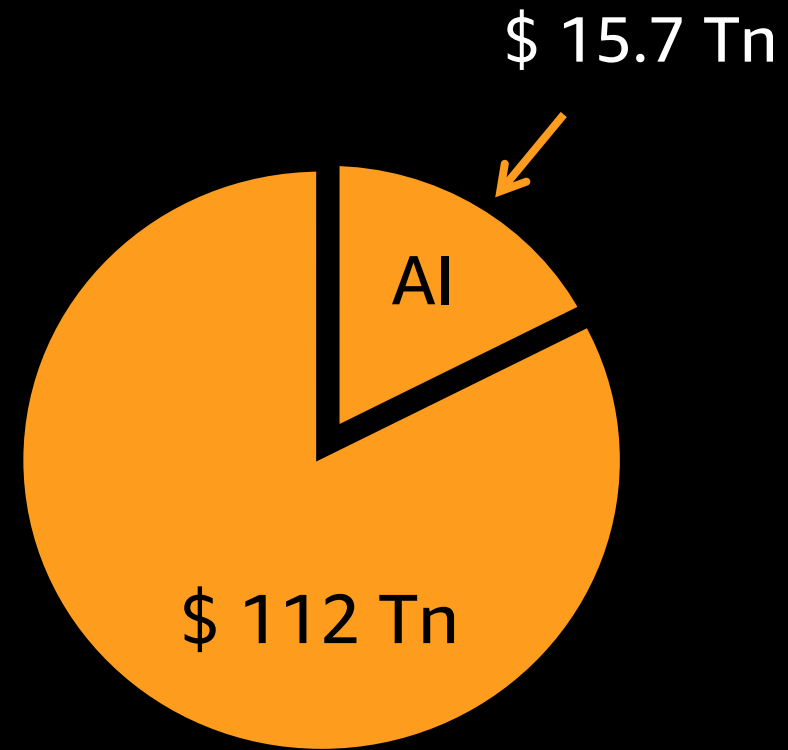
-Sizing the prize
PwC's Global Artificial
Intelligence Study:
Exploiting the AI
Revolution
27 June 2017

AI Is The New Normal – Why?



\$ 75 Tn

2017
WW GDP



\$ 112 Tn

2030
WW GDP
**projected*

\$ 15.7 Tn

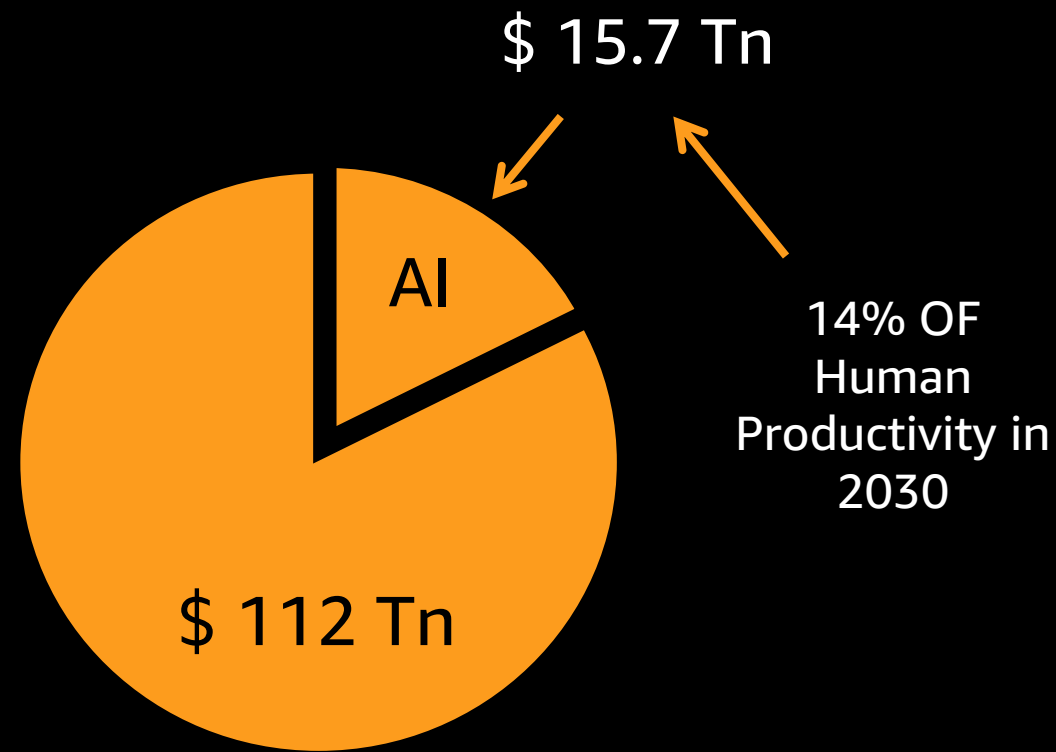
AI

-Sizing the prize
PwC's Global Artificial
Intelligence Study:
Exploiting the AI
Revolution
27 June 2017

AI Is The New Normal – Why?



2017
WW GDP



2030
WW GDP
**projected*

-Sizing the prize
PwC's Global Artificial
Intelligence Study:
Exploiting the AI
Revolution
27 June 2017

The **BUILDERS** who embrace **AI** will be the **engines** of human acceleration.

Our **Mission** In AWS Is To Put
Machine Learning In The Hands
Of Every **Developer**

Recommended from Our Brands



Recommendations for you in Beauty & Personal Care



20+ Years of
Machine Learning
Innovation
@
amazon



Every Day We Apply New
AI/ML Based Improvements To
The Amazon Business,
At a Global Scale Through AWS

Amazon Scout, a Machine Learning Powered Visual Shopping Tool For Personalized Recommendations.... www.amazon.com/scout

HOME DECOR

VASES

WALL CLOCKS

PICTURE FRAMES

DECORATIVE MIRRORS

CURTAINS

[SEE ALL HOME DECOR](#)



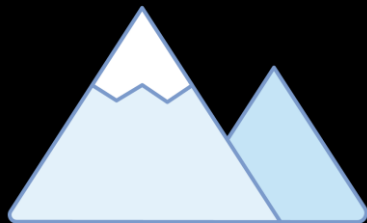
Explore more
Vases



Challenges That Have So-far Prevented Organization From Adopting Machine Learning Quickly?



ML expertise
is rare



Building and scaling
ML technology is
hard

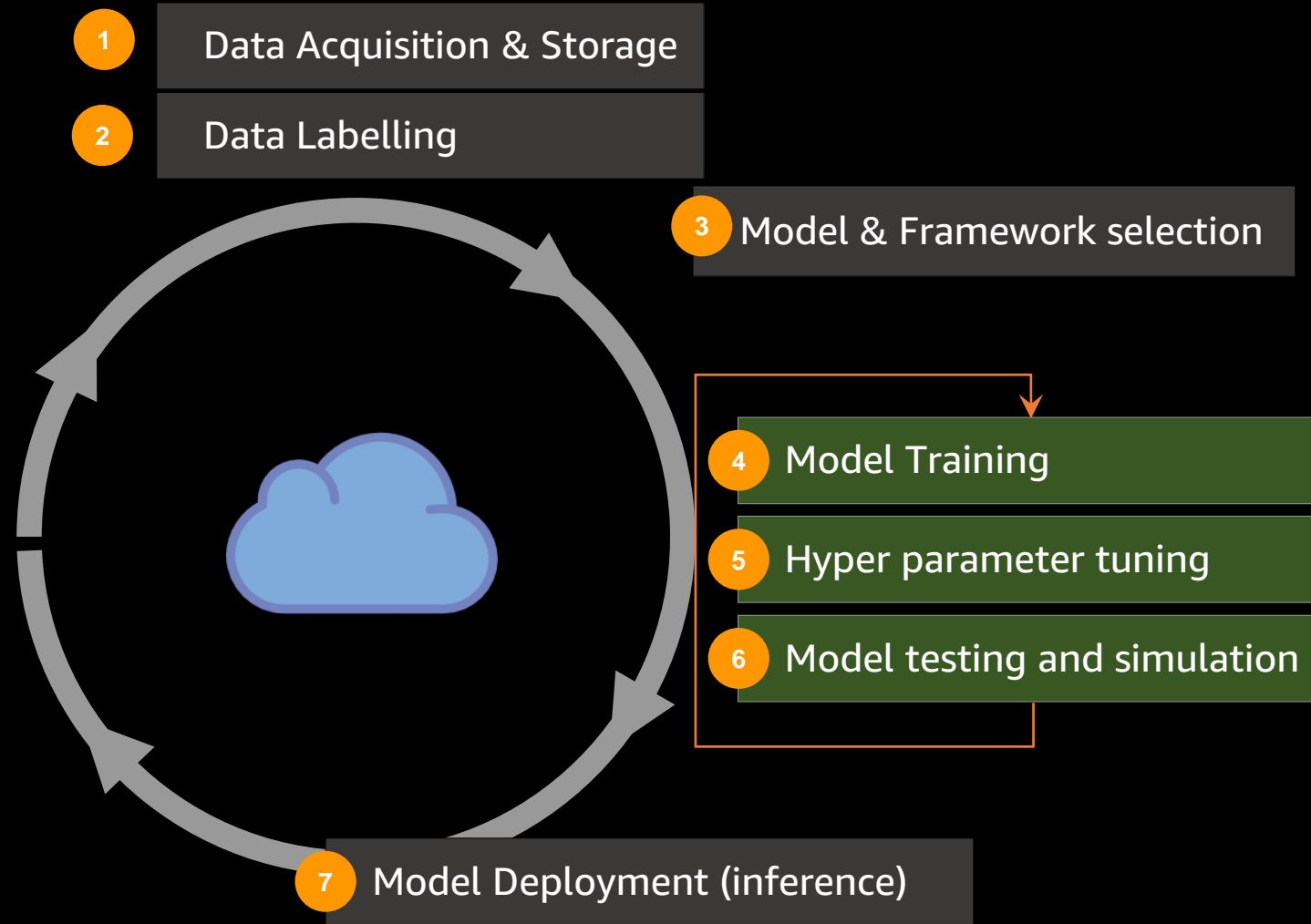


Deploying and
operating models in
production is time-
consuming and
expensive



A lack of cost-effective,
easy-to-use, and
scalable ML services

Typical ML Workflow – Customer Pain Points



Training

- Iterative and time consuming.
- Image recognition/ object detection require training with over a million images with each image containing over 65,000 pixels.
- Speech recognition and synthesis require training with 100s of hours of human speech.

Customers Want To **Train & Run**
Models In The **Cloud** At Scale



Tesla V100
120 TFLOPS



Amazon
SageMaker



AWS
Greengrass



Amazon
EC2



AWS IoT Platform

Customers Want To **Run** Models
At The **Edge**

We Set Out To Build a
Machine Learning Platform That
Is Accessible To Every **Developer**

Customers Need a Complete End-to-end Machine Learning Stack

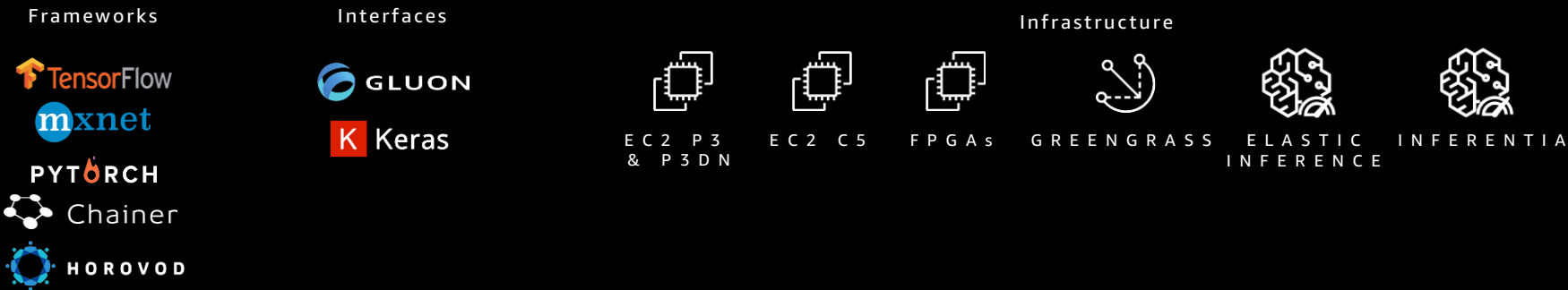
AI SERVICES



ML SERVICES



ML FRAMEWORKS & INFRASTRUCTURE



Customers Need a Complete End-to-end Machine Learning Stack

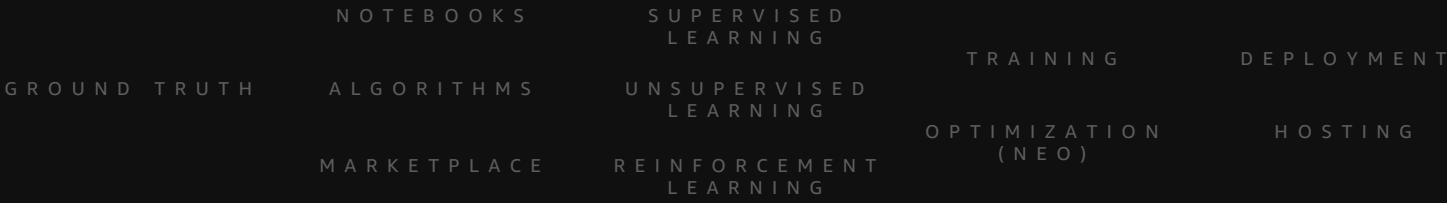
AI SERVICES



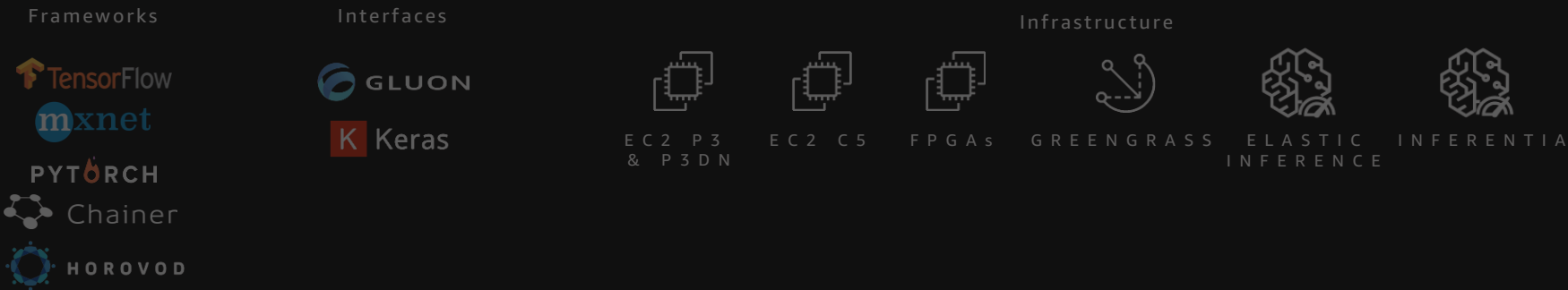
ML SERVICES



AMAZON SAGEMAKER



ML FRAMEWORKS & INFRASTRUCTURE



Customers Need a Complete End-to-end Machine Learning Stack

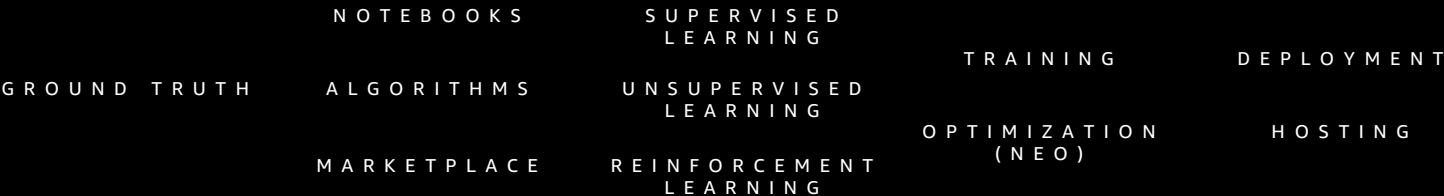
AI SERVICES



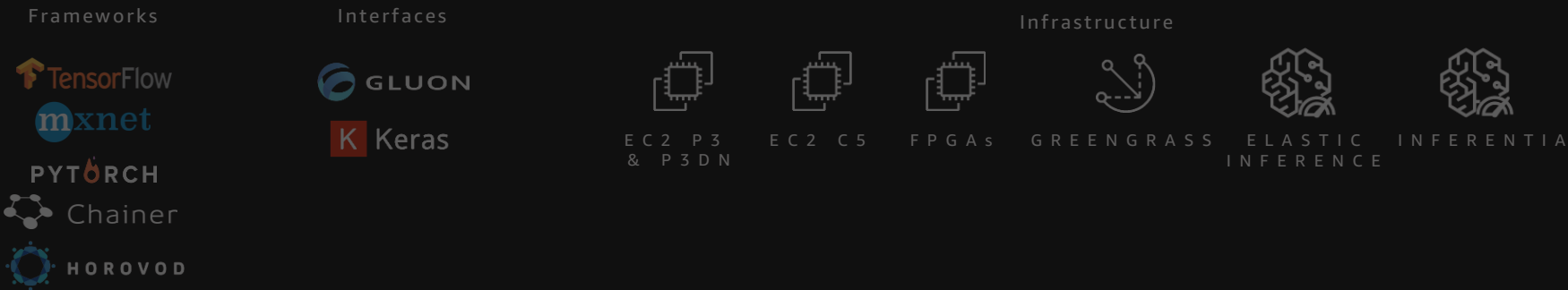
ML SERVICES



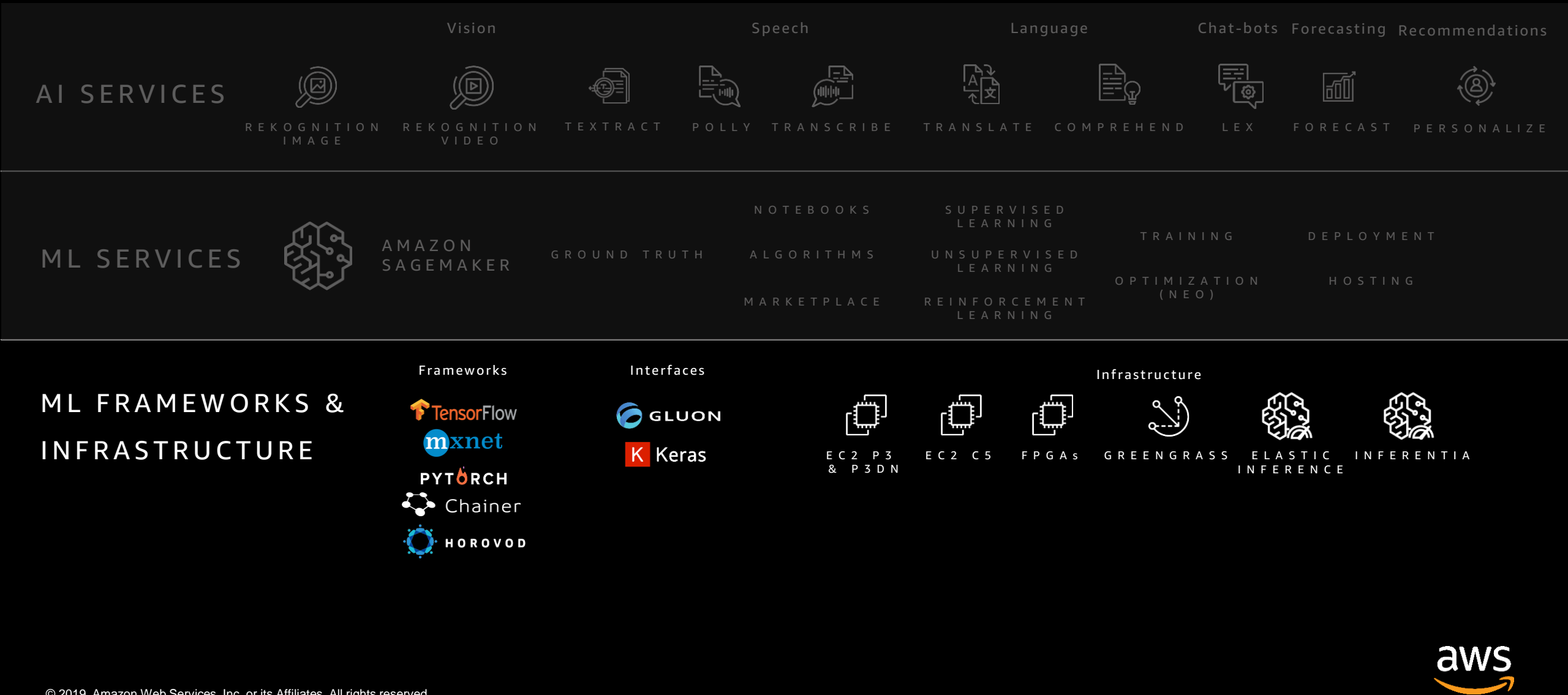
AMAZON
SAGEMAKER



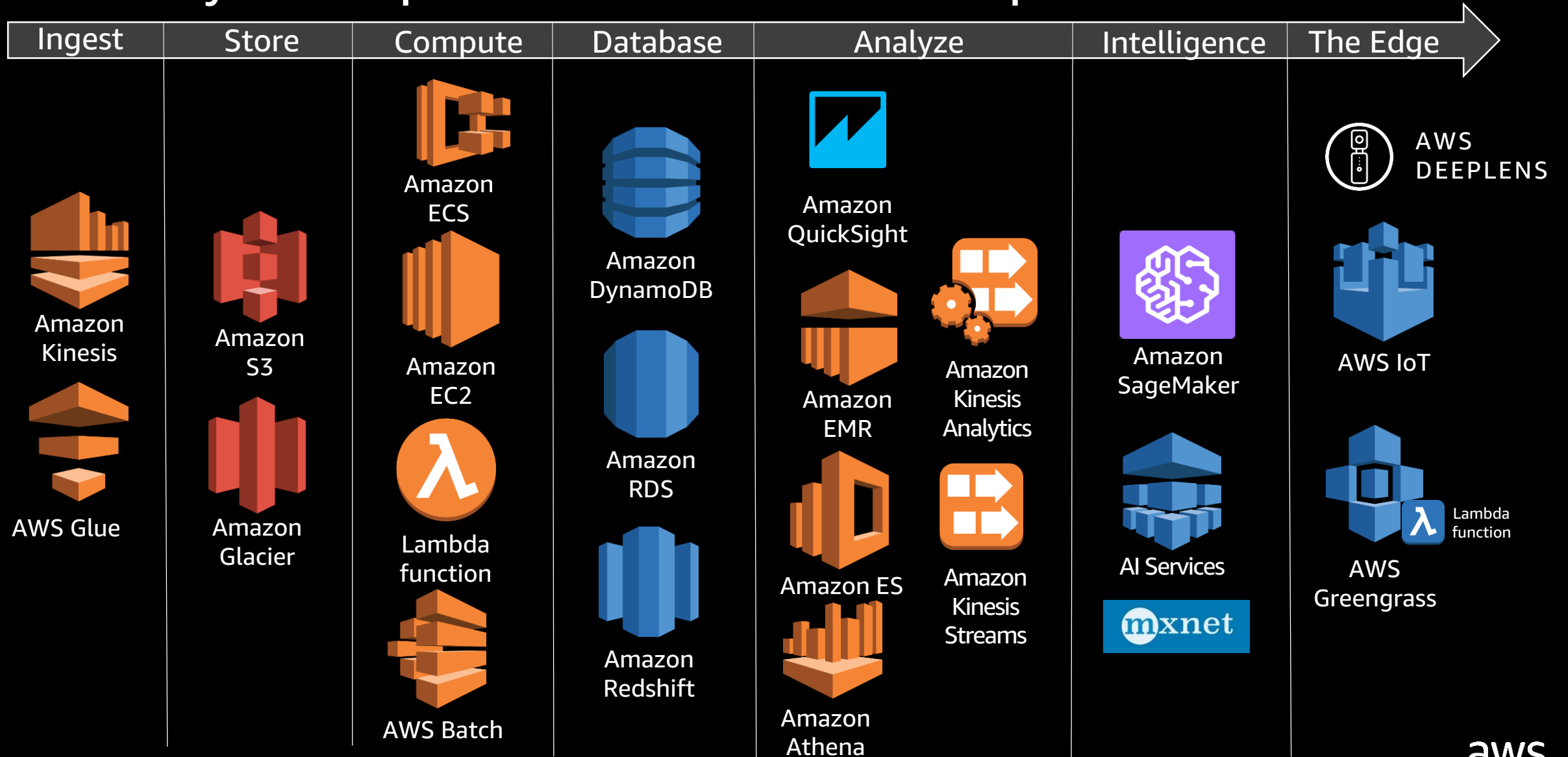
ML FRAMEWORKS & INFRASTRUCTURE



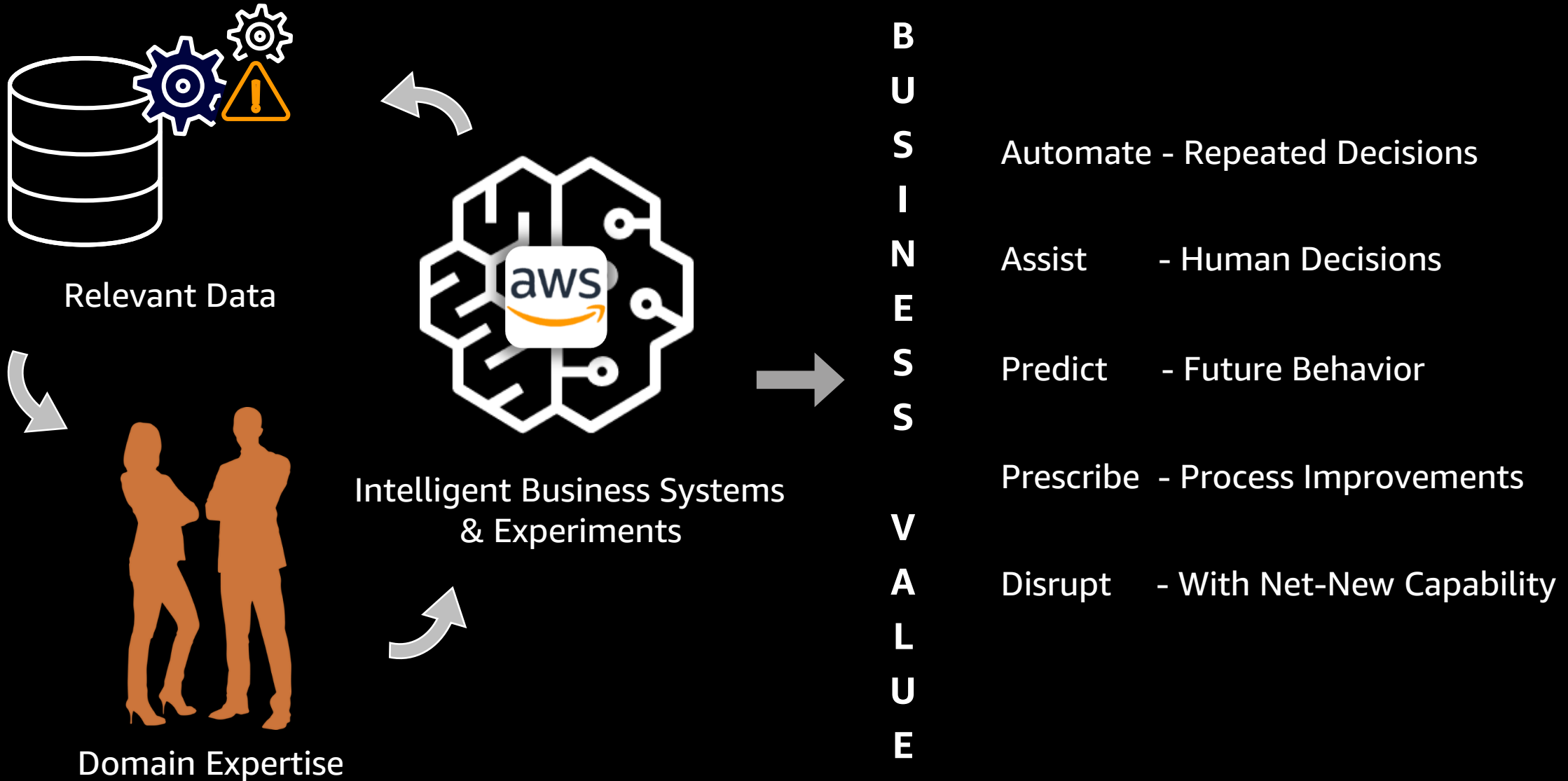
Customers Need a Complete End-to-end Machine Learning Stack



ML Is Only a Component Of a Overall Complete Solution.



Defining Machine Learning For Business Outcomes

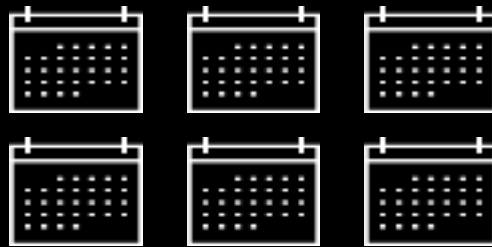


Our **Customers** Are Actively
Building Innovative **ML** Based
Intelligent **Systems** To Empower
Their Businesses, At a **Global**
Scale Through **AWS**

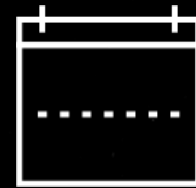
Intuit®

Deployment time down
by 90% with Amazon
SageMaker

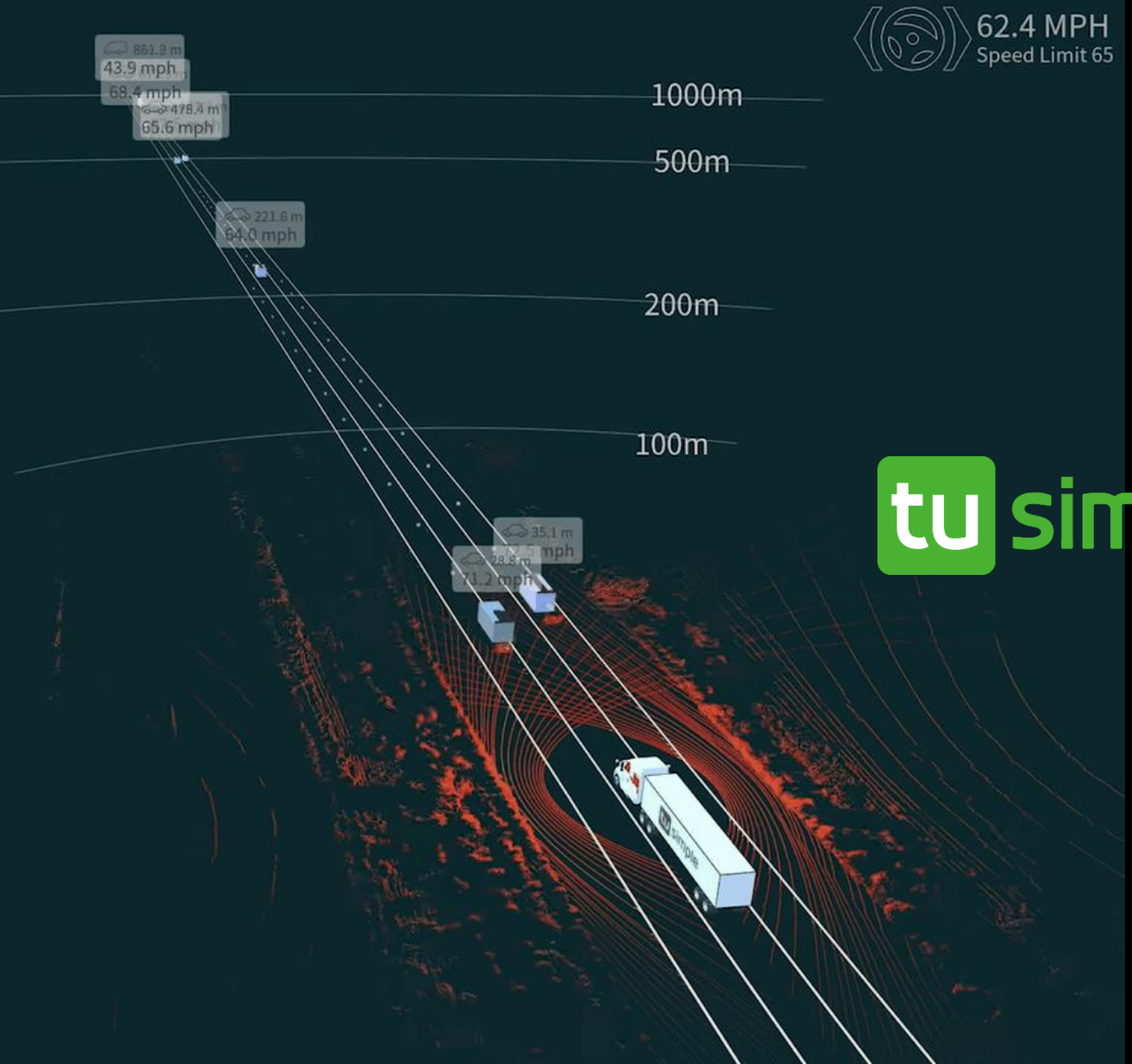
6 MONTHS



< 1 WEEK



BUILDERS Can Build Intelligent Systems Much Faster With AWS....





BGL's

AI ASSISTANT

The first Deep Learning transaction review assistant for the SMSF Software industry.



sunday


Smart Insurance. Born Simple

Better value through intelligence

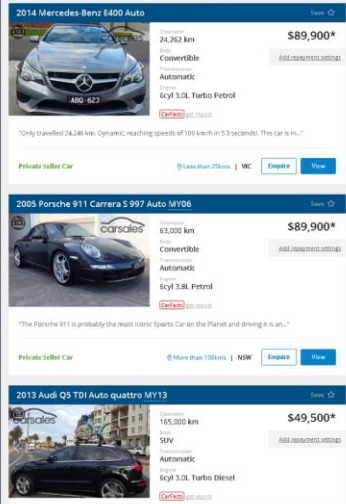
[Get Car Insurance Price](#)

carsales

"Why do we display car images in random angle order?"




Front Driver 3/4 Side Driver




More ML Happens On AWS Than Anywhere Else




Lets Hear From Carsales...




"Why do we display car images in random angle order?"



Front Driver 3/4



Side Driver



2014 Mercedes-Benz E400 Auto


24,352 km

Convertible

Automatic

6cyl 3.0L Turbo Petrol

\$89,900*



2005 Porsche 911 Carrera S 997 Auto MY06


63,000 km

Convertible

Automatic

6cyl 3.8L Petrol

\$89,900*



2013 Audi Q5 TDI Auto quattro MY13

165,000 km

SUV

Automatic

6cyl 3.0L Turbo Diesel

\$49,500*

Learn why customers choose AWS for machine learning



Demo Arena

Watch how machine learning is used in real life applications



Ask the Experts

Get your questions answered by AWS Experts



Machine Learning on AWS

<https://aws.amazon.com/machine-learning/>

Learn from AWS experts. Advance your skills and knowledge. Build your future in the AWS Cloud.



Digital Training

Free, self-paced online courses built by AWS experts



Classroom Training

Classes taught by accredited AWS instructors



AWS Certification

Exams to validate expertise with an industry-recognized credential

Ready to begin building your cloud skills?
Get started at: <https://www.aws.training/>

Thank You for Attending AWS Innovate

We hope you found it interesting! A kind reminder to **complete the survey**.
Let us know what you thought of today's event and how we can improve the event experience for you in the future.



aws-apac-marketing@amazon.com



twitter.com/AWSCloud



facebook.com/AmazonWebServices



youtube.com/user/AmazonWebServices



slideshare.net/AmazonWebServices



twitch.tv/aws