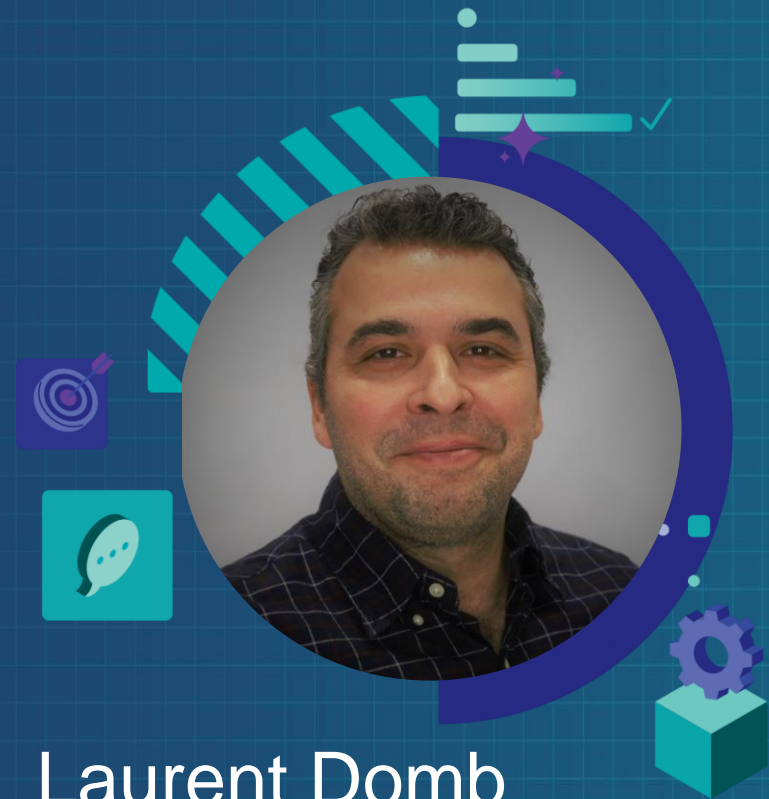


Data Driven Transformation:

Empowering Government
through Cloud, Workflow,
and AI



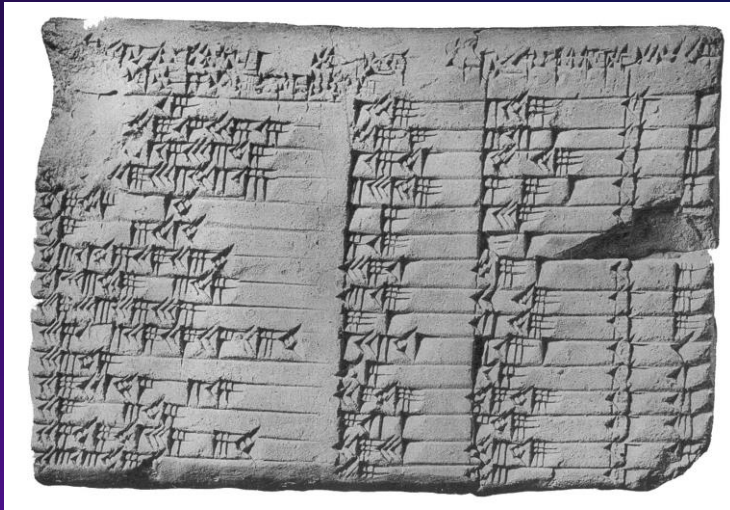
Laurent Domb

Chief Technologist for Worldwide
Federal Financial Services,
Amazon Web Services

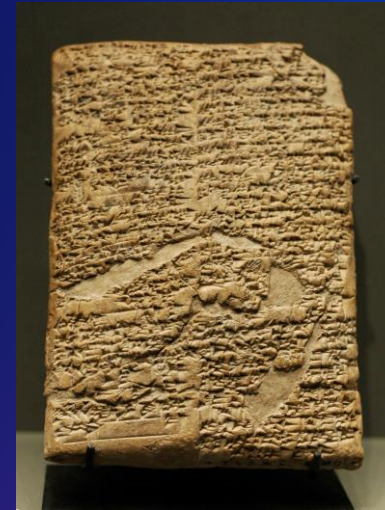


“Study the past if you would divine the future.”

— Confucius



Record-keeping: Sumerians harvest and taxes



**Code of Hammurabi:
282 rules for commerce**

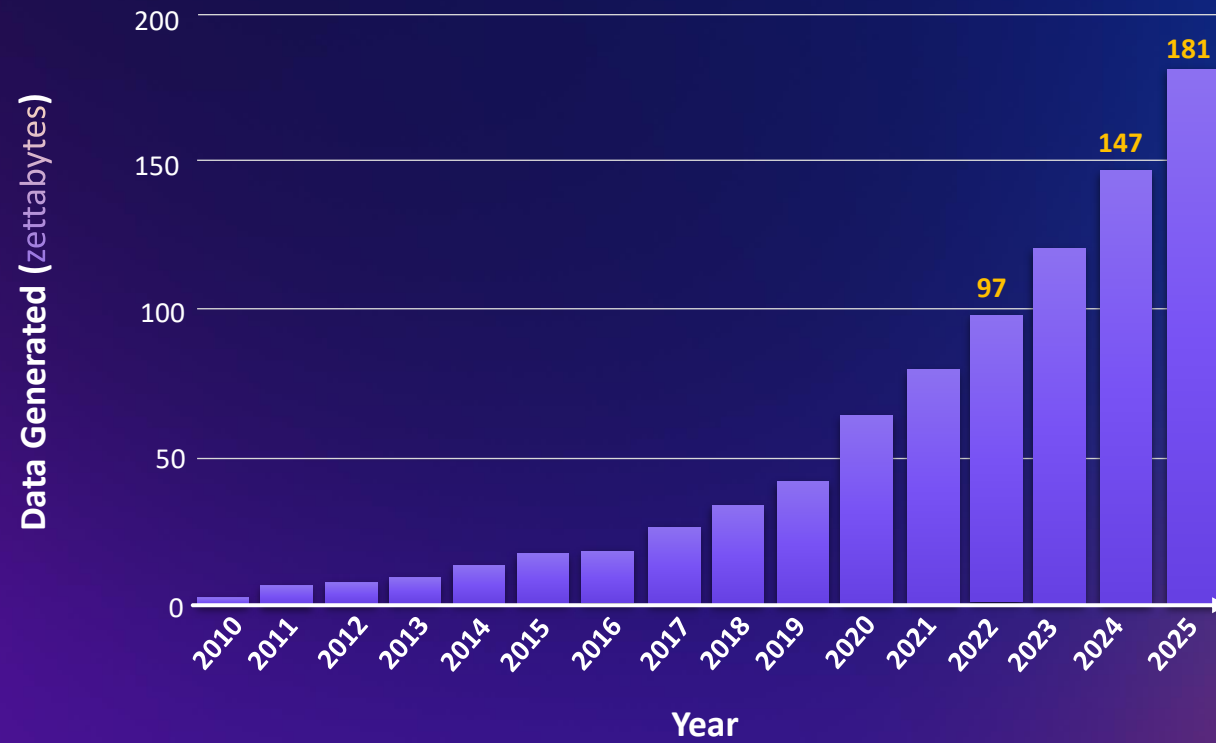


The Turing machine - 1936

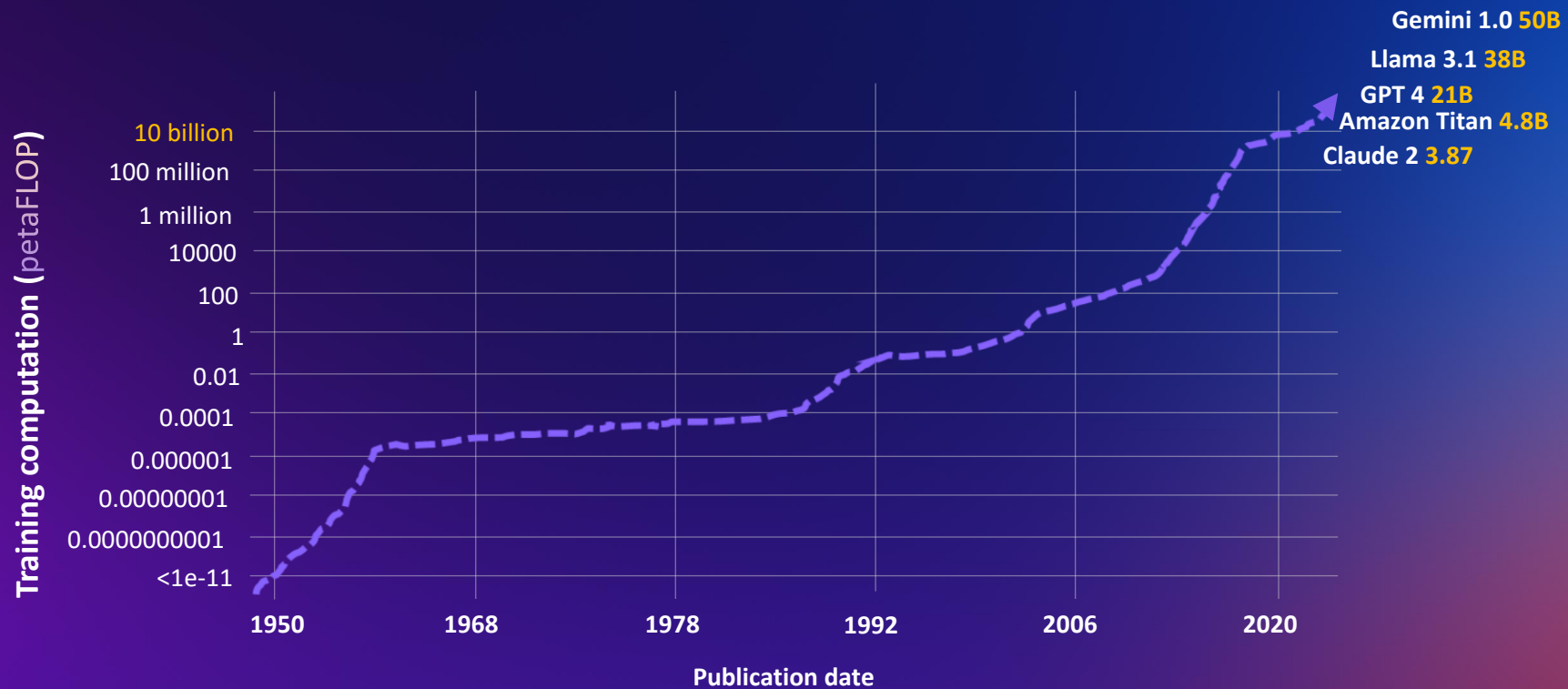


Fritz Pfleumer first magnetic tape (12.8kb/s, 184kb) - 1928

Global Data Generated Annually



Computation used to train notable AI Systems



Source: ourworldindata.org

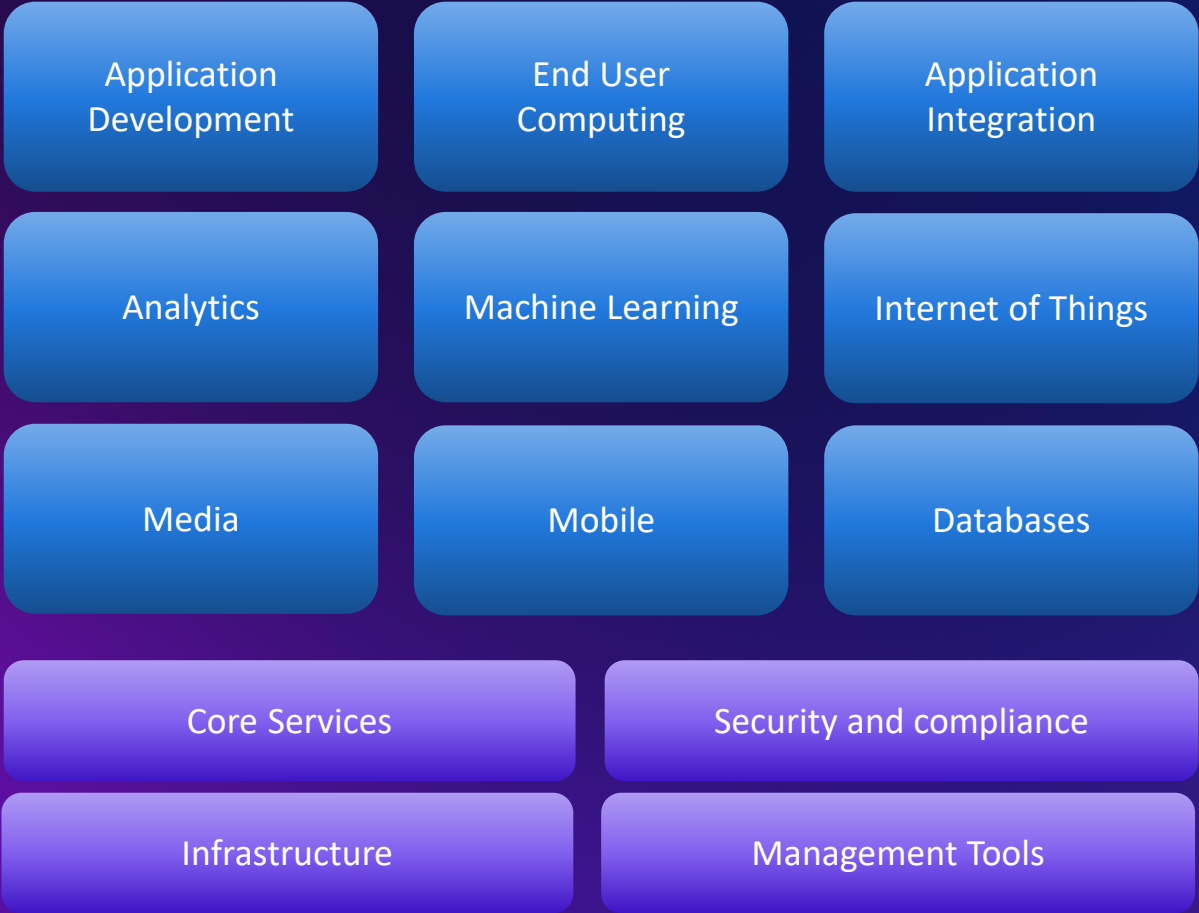


Project Ceiba

AWS-built AI Supercomputer
for NVIDIA internal R&D

414 EXAFLOPS | 20,736 GB200 | GEN 4 AWS EFA





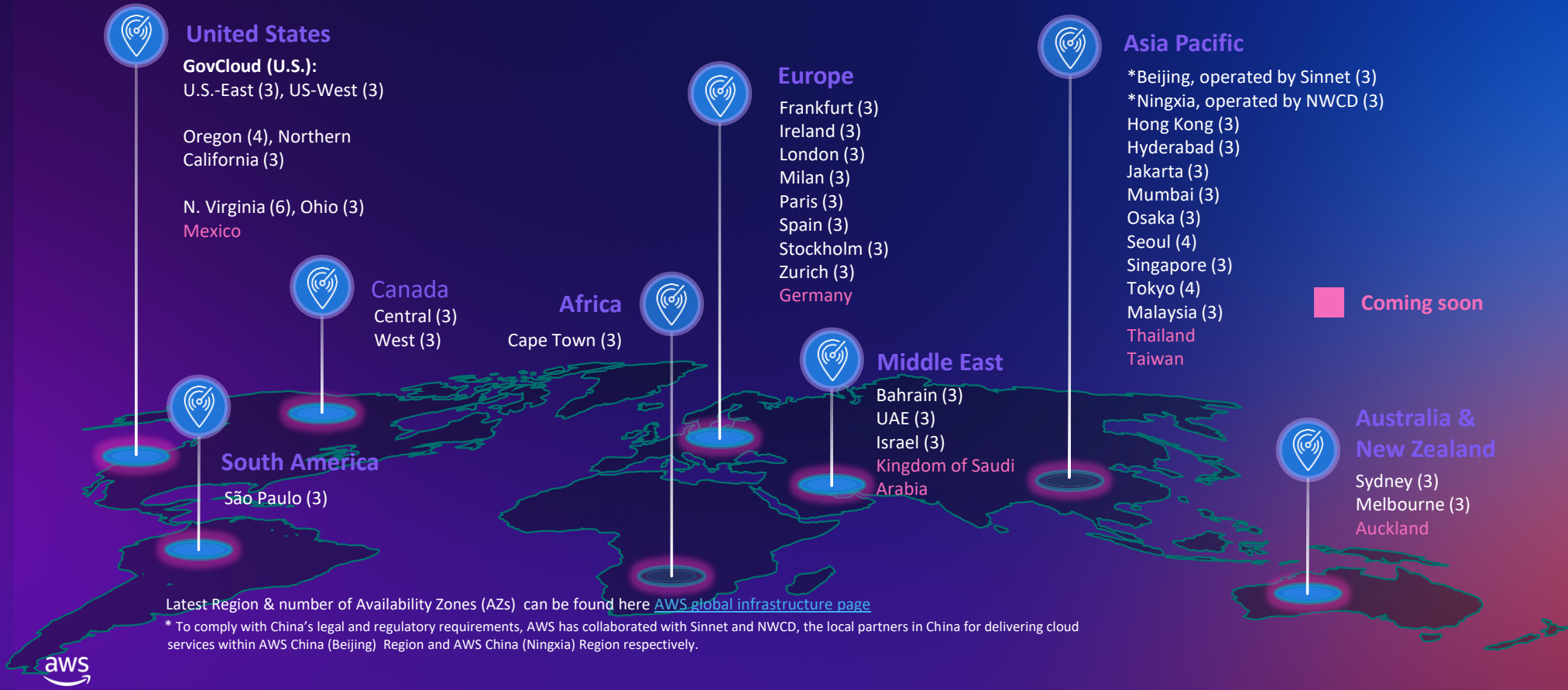
200 +
Fully features services

600 +
Types of compute instances

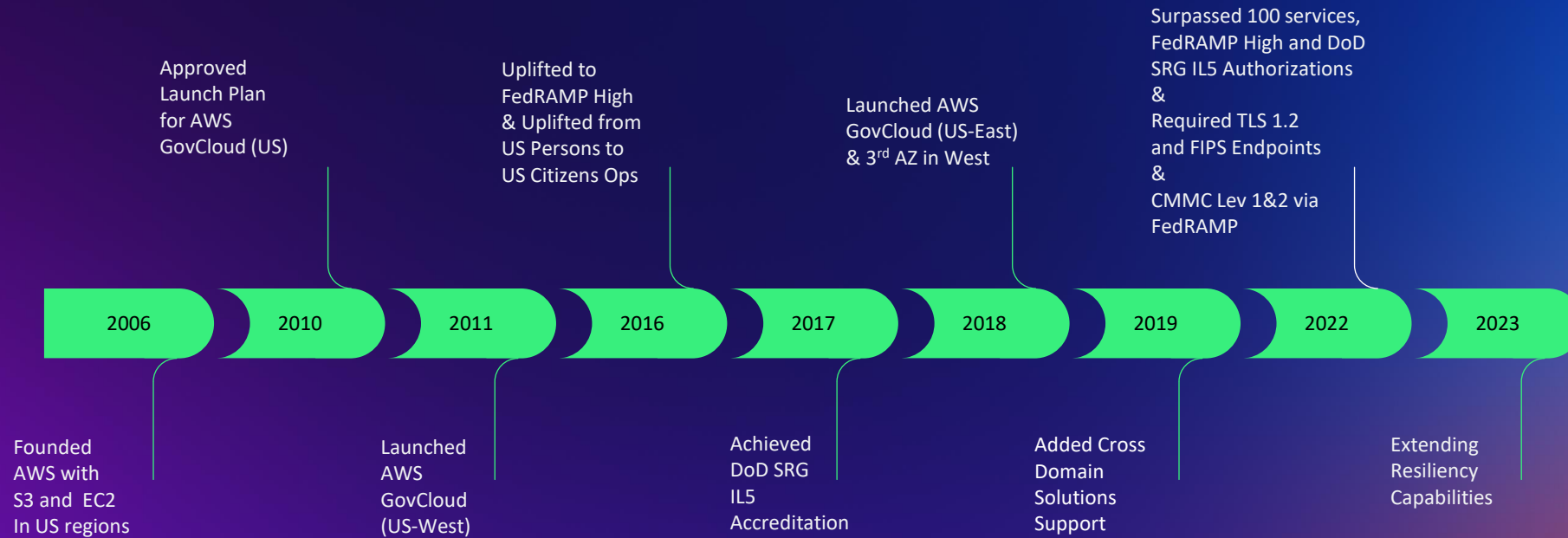


AWS Global Infrastructure

34 Launched Regions, with 6 coming soon 108 Availability Zones and 600+ Points of Presence



AWS GovCloud (US)



**The foundation for innovation & AI
is the AWS cloud**



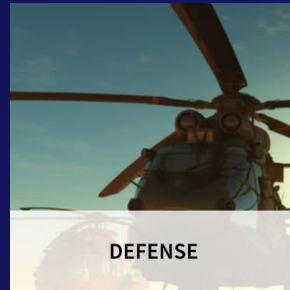
Unlocking innovation with AWS



AEROSPACE & SATELLITE



CENTRAL/CIV
GOVERNMENT



DEFENSE



EDUCATION



FINANCIALS



HEALTHCARE



NONPROFIT



STATE & LOCAL
GOVERNMENT

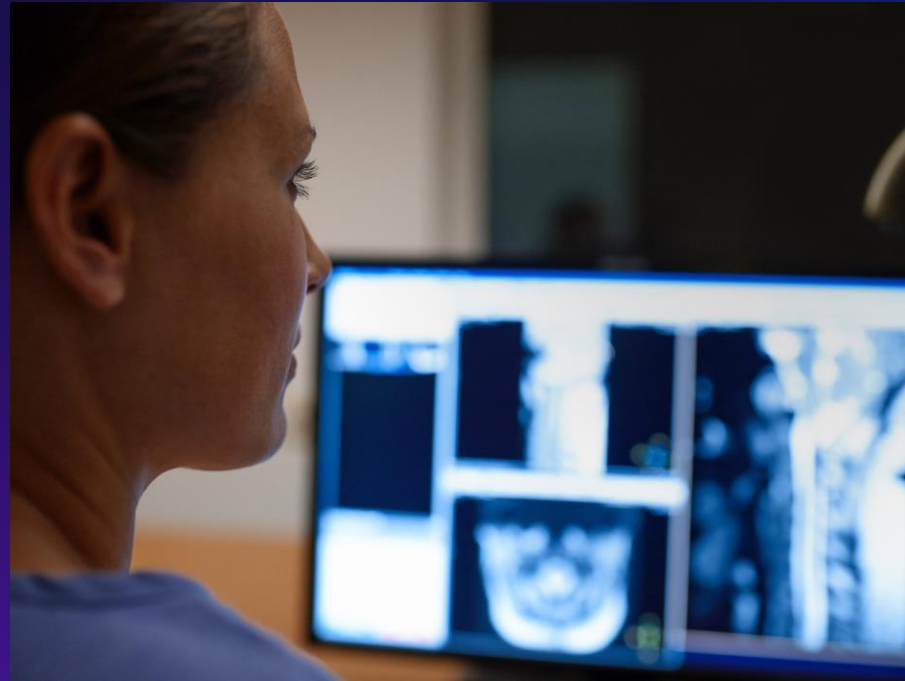
FedNow[®]

- Enables financial institutions of every size and in every community across the country to provide safe and efficient instant payment services to their customers, around the clock, every day of the year.



The financial services logo, "FedNow," "Fedwire," "FedLine" and "FRBservices.org" are service marks of the Federal Reserve Banks. A list of marks related to financial services products that are offered to financial institutions by the Federal Reserve Banks is available at [FRBservices.org](https://www.frb-services.org).

Phillips - Enable Cloud-Based Medical Imaging Solutions



U.S. Air Force improves aircraft readiness with data, analytics, AI and GenAI



U.S. Air Force improves aircraft readiness with data, analytics, AI and GenAI




AWS Generative AI Stack

APPLICATIONS THAT LEVERAGE FMs AND LLMs

-  Amazon Q Business
-  Amazon Q Developer
-  Amazon Q in Amazon QuickSight
-  Amazon Q in Amazon Connect
-  Amazon Q in AWS Supply Chain










TOOLS TO BUILD WITH FMs AND LLMs

 Amazon Bedrock

Guardrails | Agents | Studio | Customization Capabilities

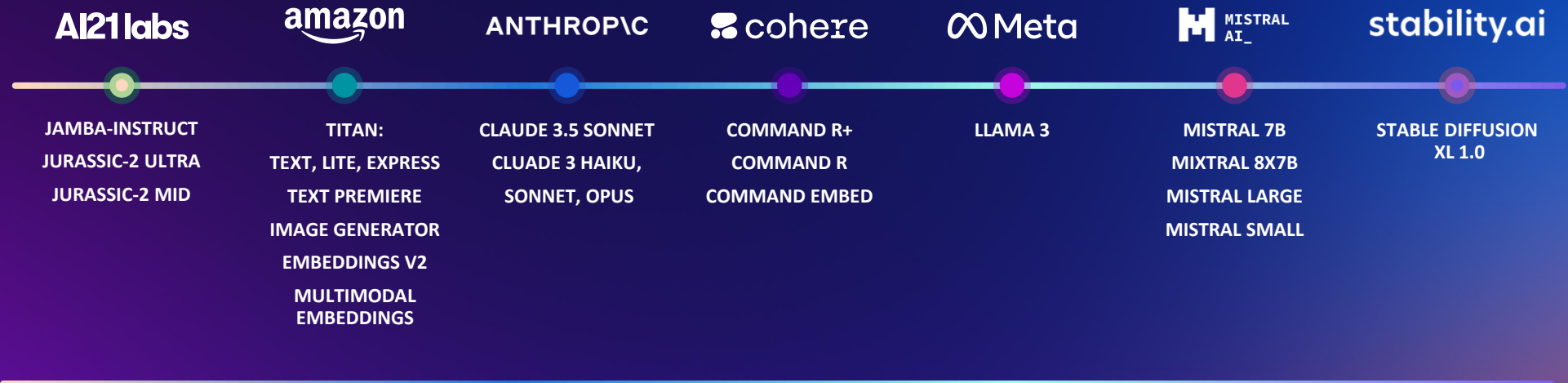
Broadest selection of models

INFRASTRUCTURE FOR FM TRAINING AND INFERENCE

-  GPUs
-  Trainium
-  Inferentia
-  SageMaker
-  UltraClusters
-  EFA
-  EC2 Capacity Blocks
-  Nitro
-  Neuron



Amazon Bedrock | Broadest selection of models



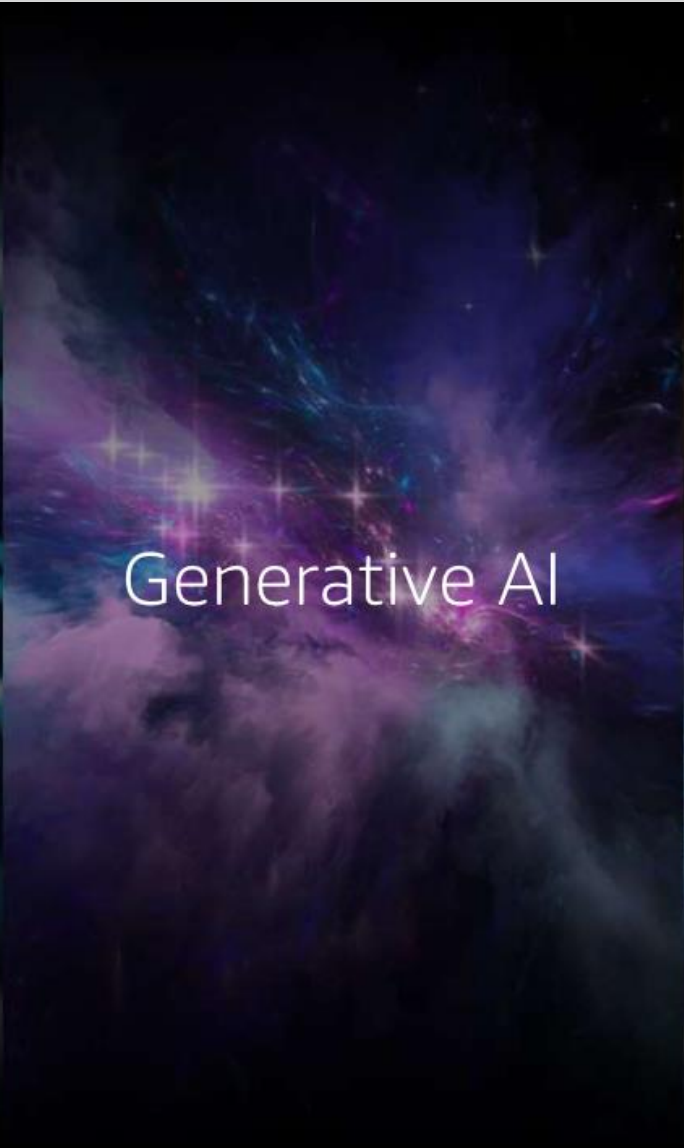
CUSTOM MODEL IMPORT

Leverage your customized models and Amazon Bedrock





Data



Generative AI



Humans

Pega Infinity



PEGA®



aws Amazon Bedrock



Connectors

Connectors

Salesforce

Confluence

SharePoint

Custom web source

CSV and PDF data



Pega Infinity



PEGA®



aws Amazon Bedrock

- More Data Sources (RAG)
- Greater accuracy
- Hallucinations detection + mitigations
- Apply guardrails anywhere
- Taking actions with agents



Connectors

Connectors

- Salesforce
- Confluence
- SharePoint
- Custom web source
- CSV and PDF data



Pega Infinity



PEGA®



aws

200 +

Fully features services

34

Regions



Build



Automate



Engage