

AWS RE:INVENT

RE:CAP

AWS RE:INVENT
RE:CAP

AWS re:Invent re:Cap for **Business Decision Makers**

2022-01-25

Stephan Hadinger, Head of Technology

Sébastien Stormacq, Developer Relations

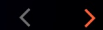


5 Keynotes

Keynotes

Join our live keynotes and be the first to hear the latest from AWS. All the keynotes from re:Invent 2021 are available live for our registered virtual attendees, with repeat and on-demand viewing options available also.

RE:INVENT 2021



Missed any of the sessions?

Watch keynotes, leadership sessions, and hundreds of breakout sessions on demand. Register now to get free virtual access.

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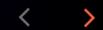


1200+ breakout sessions

Breakout content

Join us in Las Vegas for the full re:Invent experience—learn new ways of working and practice live with AWS experts. Join us online, after the event, to view all the breakout sessions, free and on demand.

RE:INVENT 2021



Missed any of the sessions?

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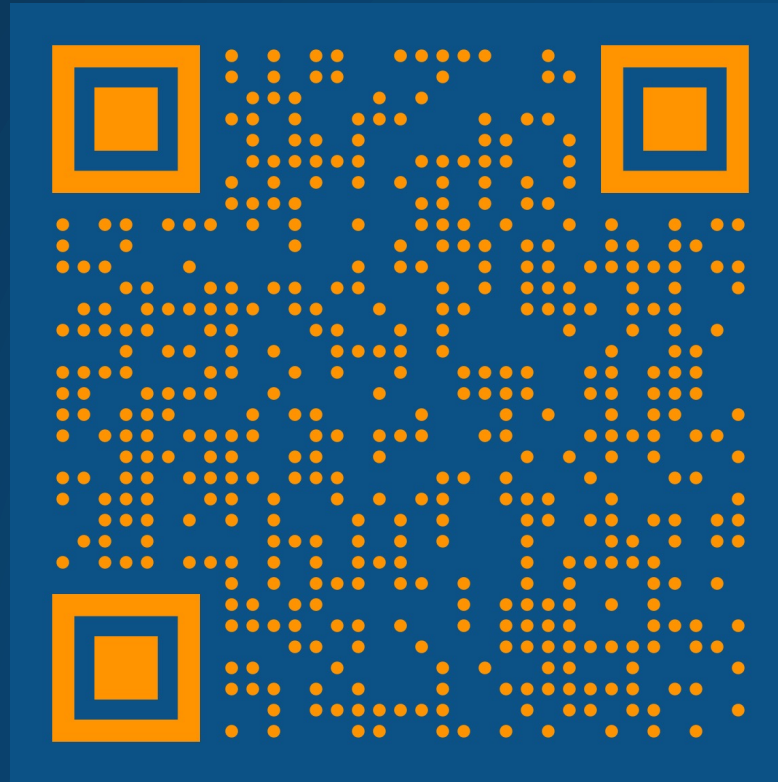
[Chalk talks](#)

[Builders' sessions](#)

[Content Hubs](#)



<https://www.youtube.com/AWSEventsChannel/playlists>



2021

10 years of re:Invent
15 years of cloud



2006

Innovation
was constrained



2006

Cloud made everything a programmable resource

NETWORKS DATA CENTERS LOAD BALANCERS
DATABASES STORAGE COMPUTE



We've come
a long way



The broadest and deepest
services and capabilities





Gartner Magic Quadrant 2021

Magic Quadrant for cloud infrastructure and platform services

Gartner, Magic Quadrant for Cloud Infrastructure & Platform Services, Raj Bala, Bob Gill, Dennis Smith, Kevin Ji, David Wright, 27 July 2021. Gartner and Magic Quadrant are registered trademarks of Gartner, Inc. and/or its affiliates in the U.S. and internationally and is used herein with permission. All rights reserved. Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research including any warranties of merchantability or fitness for a particular purpose. This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from AWS.



COMPLETENESS OF VISION →

As of July 2021

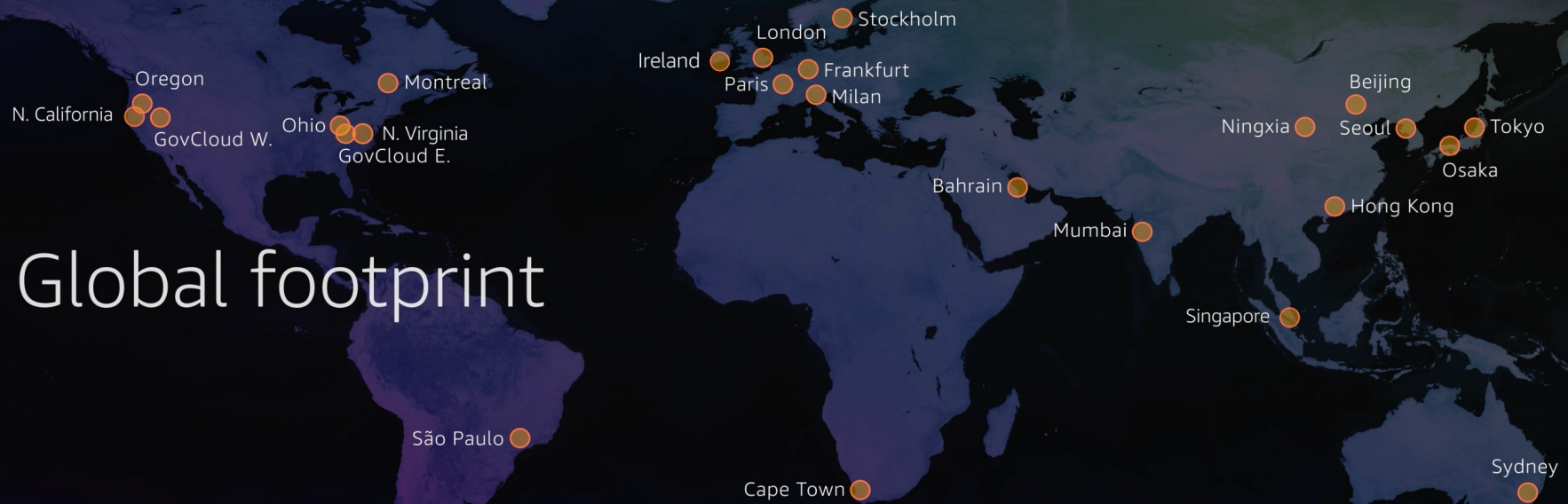
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It's still early days



Global footprint



Continuous expansion

Calgary

Switzerland
Spain

Israel

U.A.E.

Hyderabad

Jakarta

Melbourne

New Zealand



Points of presence



AWS Local Zones





30 new
AWS Local Zones
AVAILABLE STARTING 2022



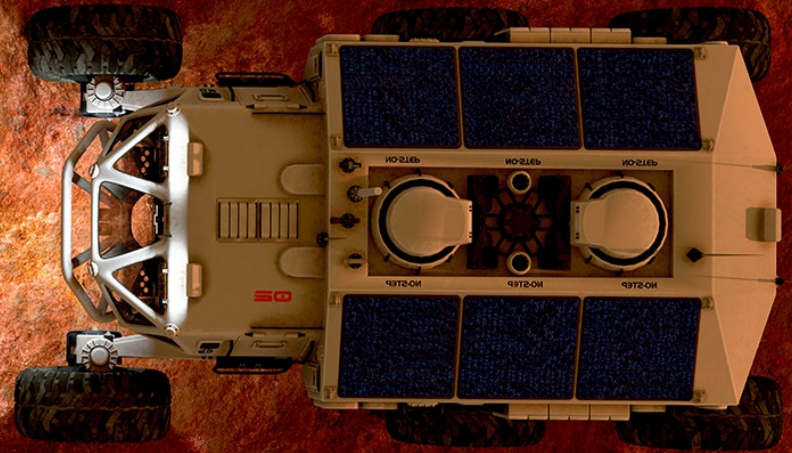


NETFLIX

AWS RE:INVENT
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NASA



AWS re:Invent



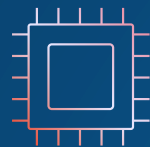
It's still early days



1. Constant pursuit of a better way
2. Ability to see what others don't
3. Enable others to forge their own paths

A better way forward





The Instance

Broadest and deepest platform choice

475

Instance types

FOR VIRTUALLY EVERY WORKLOAD

CATEGORIES

- General purpose
- Burstable
- Compute optimized
- Memory optimized
- Storage optimized
- Hardware accelerated

CAPABILITIES

- Choice of processor (AWS, Intel, AMD)
- Fast processors (up to 4.5 GHz)
- High memory footprint (up to 24TiB)
- Instance storage (HHD and SSD)
- Accelerated computing (GPU, FPGA, and ASIC)
- Networking (up to 400 Gbps)
- Bare metal
- Graphics intensive

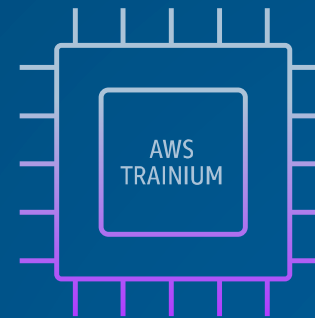
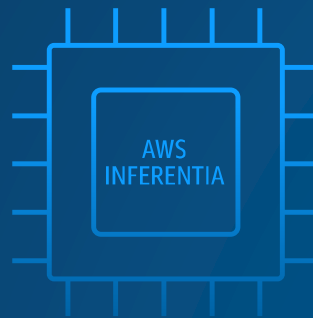
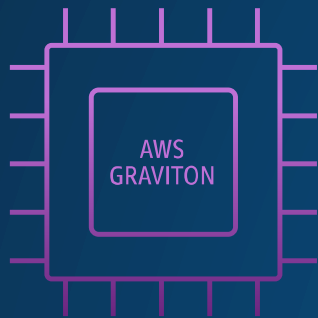
OPTIONS

- Linux, Unix, Windows, macOS
- Amazon EBS
- Amazon Elastic Inference
- Elastic Fabric Adapter





Efficiency from the chip up







Expensive



Complex



Legacy
programming

NEW

AWS Mainframe Modernization

Migrate, modernize, and run mainframe workloads on AWS

PREVIEW AVAILABLE TODAY



Pushing the edge of the cloud



ON PREMISES AT
ANY FACILITY



RUGGED EDGE



5G NETWORKS



Pushing the edge of the cloud



ON PREMISES AT ANY FACILITY



AWS Outposts



AWS IoT



RUGGED EDGE



AWS Snow Family



5G NETWORKS



AWS Wavelength

AWS RE:INVENT
RE:CAP

AWS Outposts

Run AWS infrastructure
and services on premises

Fully managed and supported by AWS

Same hardware that AWS runs
in its data centers

Same APIs, control plane,
hardware, and tools

1U SINGLE SERVER



1¾ inches tall

2U SINGLE SERVER



3½ inches tall

42U FULL RACK



80 inches tall

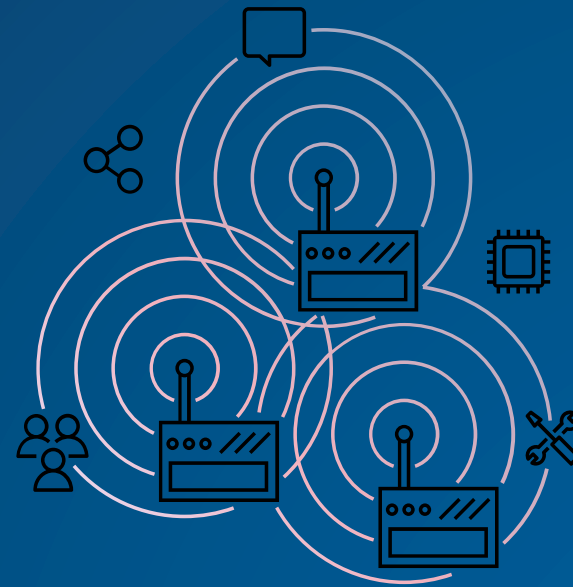


NEW

AWS Private 5G

Set up and scale a private mobile network in days

PREVIEW AVAILABLE TODAY



AWS IoT TwinMaker

EASILY CREATE DIGITAL TWINS OF REAL-WORLD SYSTEMS TO OPTIMIZE OPERATIONS



Easily access data no matter where it lives



Accurately model your built environment



Create immersive 3D views



PREVIEW AVAILABLE TODAY

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Helping builders
build a **sustainable future**



Improving efficiency in every aspect of our infrastructure



“The greenest energy is
the energy you **don't use**”

PETER DESANTIS, re:INVENT 2020



AWS Customer Carbon Footprint Tool

COMING SOON





AWS Well-Architected

SECURITY

RELIABILITY

PERFORMANCE
EFFICIENCY

COST
OPTIMIZATION

OPERATIONAL
EXCELLENCE





NEW

AWS Well-Architected Sustainability Pillar

Learn, measure, and improve your workloads using environmental best practices for cloud computing

Amazon's path to 100% renewable energy by 2025





“Don't forget to
turn off the lights”

WERNER VOGELS, re:INVENT 2012

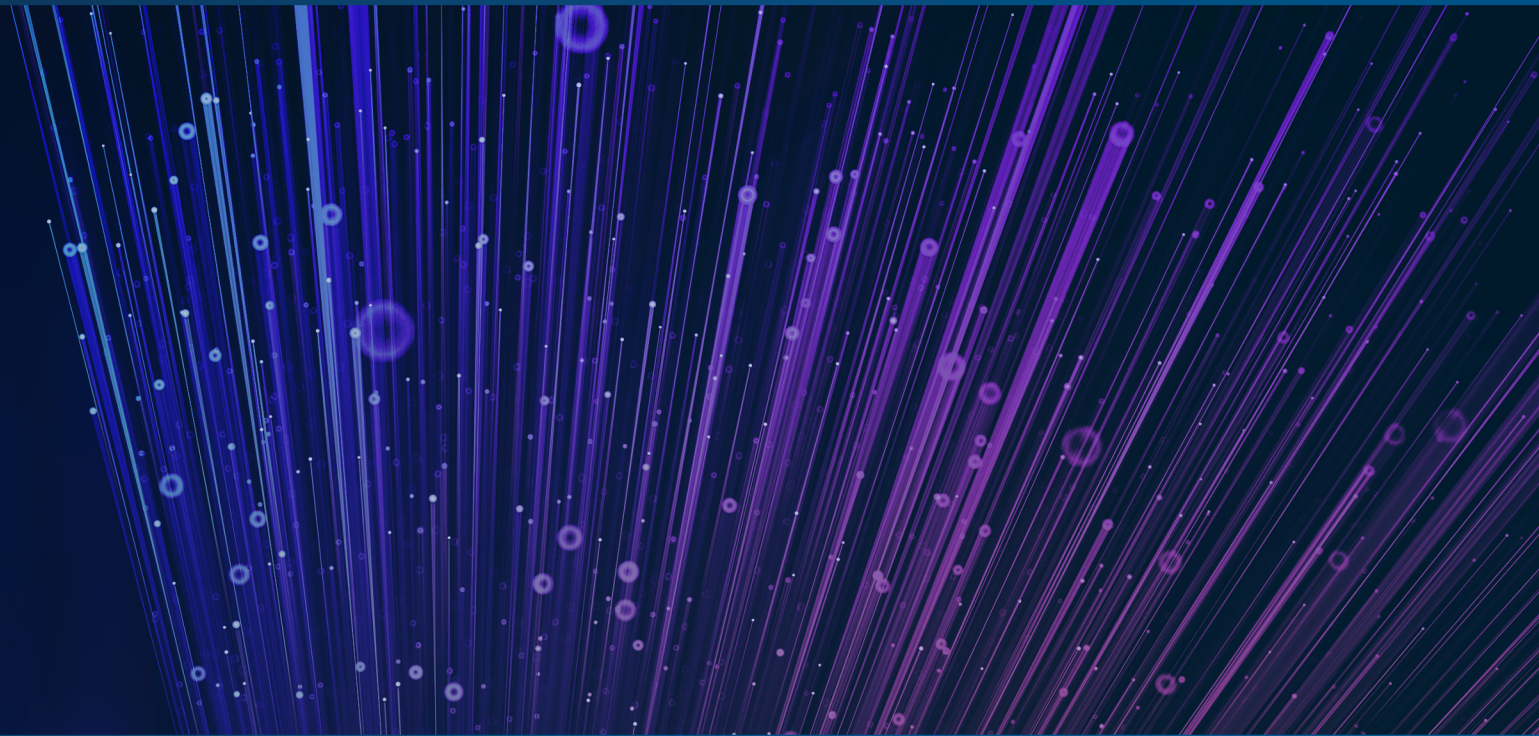
AWS re:Invent



Ability to see what
others don't



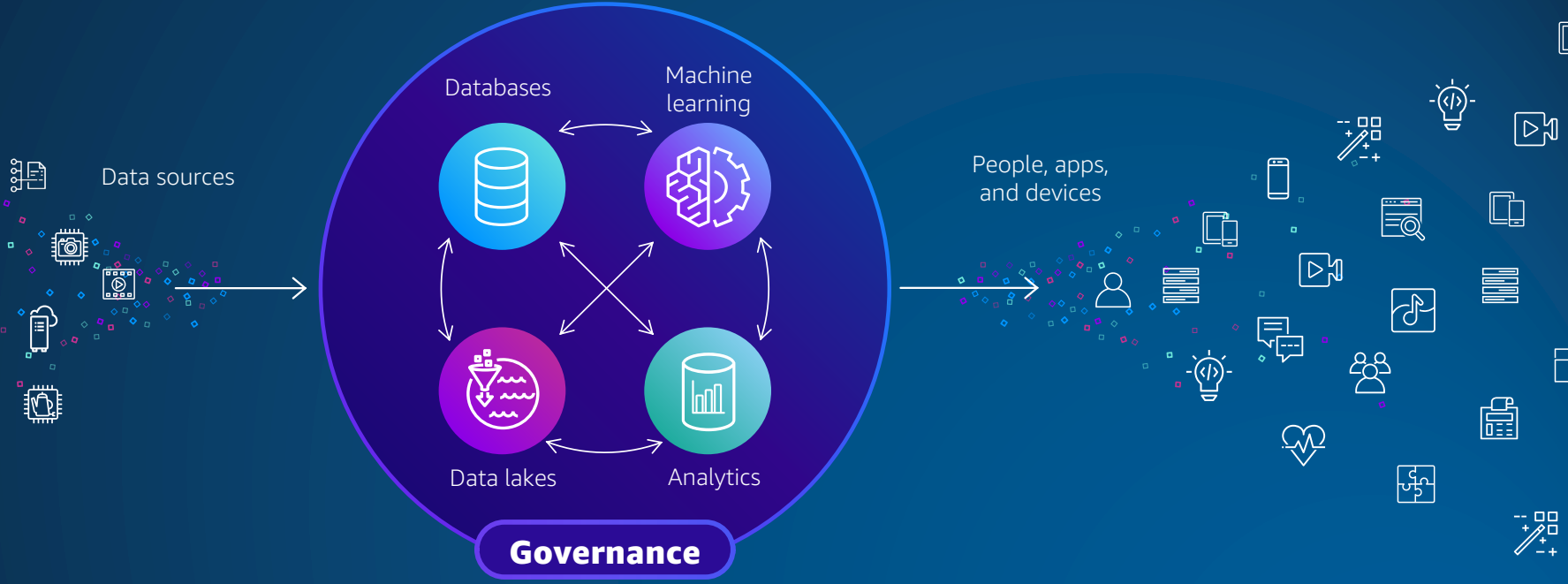
A data explosion

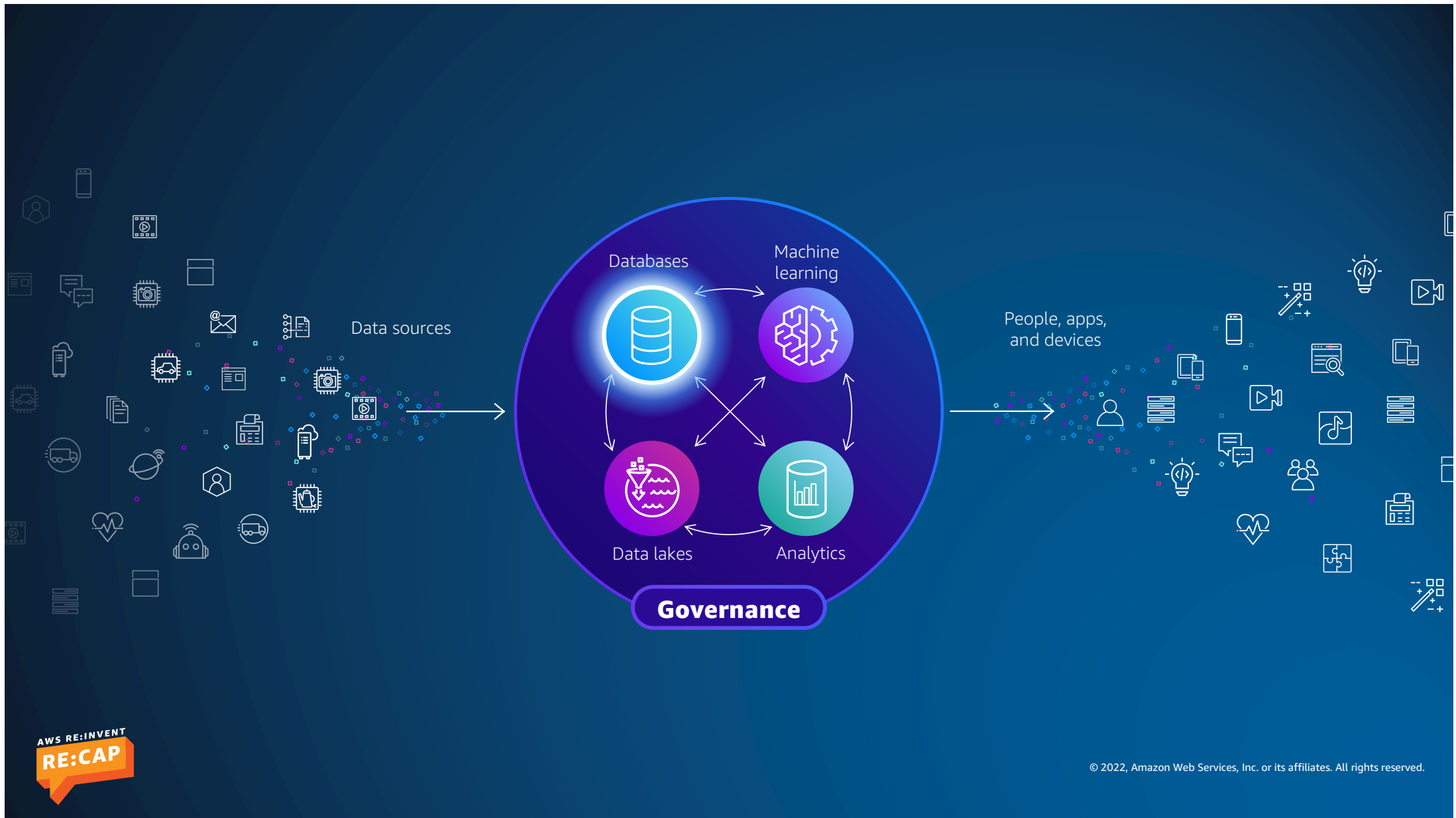


Finding patterns in data



The data journey





Relational



AMAZON RDS



AMAZON AURORA

Non-relational

Key-value



DYNAMODB

Document



DOCUMENTDB

Caching



ELASTICACHE

Graph



NEPTUNE

Time-series



TIMESTREAM

Ledger



QLDB

Wide column

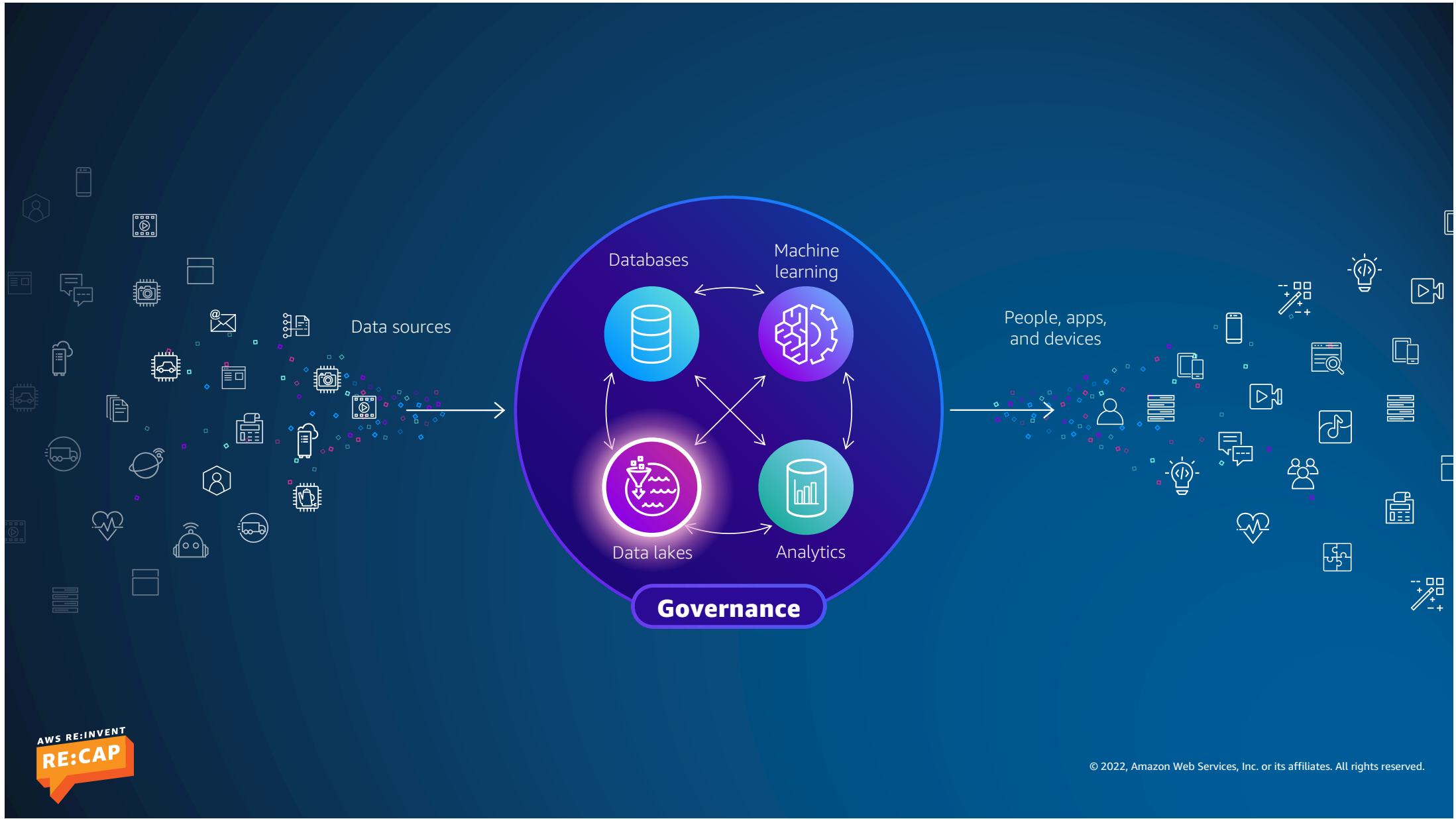


KEYSPACES

Memory



MEMORYDB



AWS Lake Formation

BUILD A SECURE DATA LAKE IN DAYS



Move, store, catalog, and clean your data faster with ML

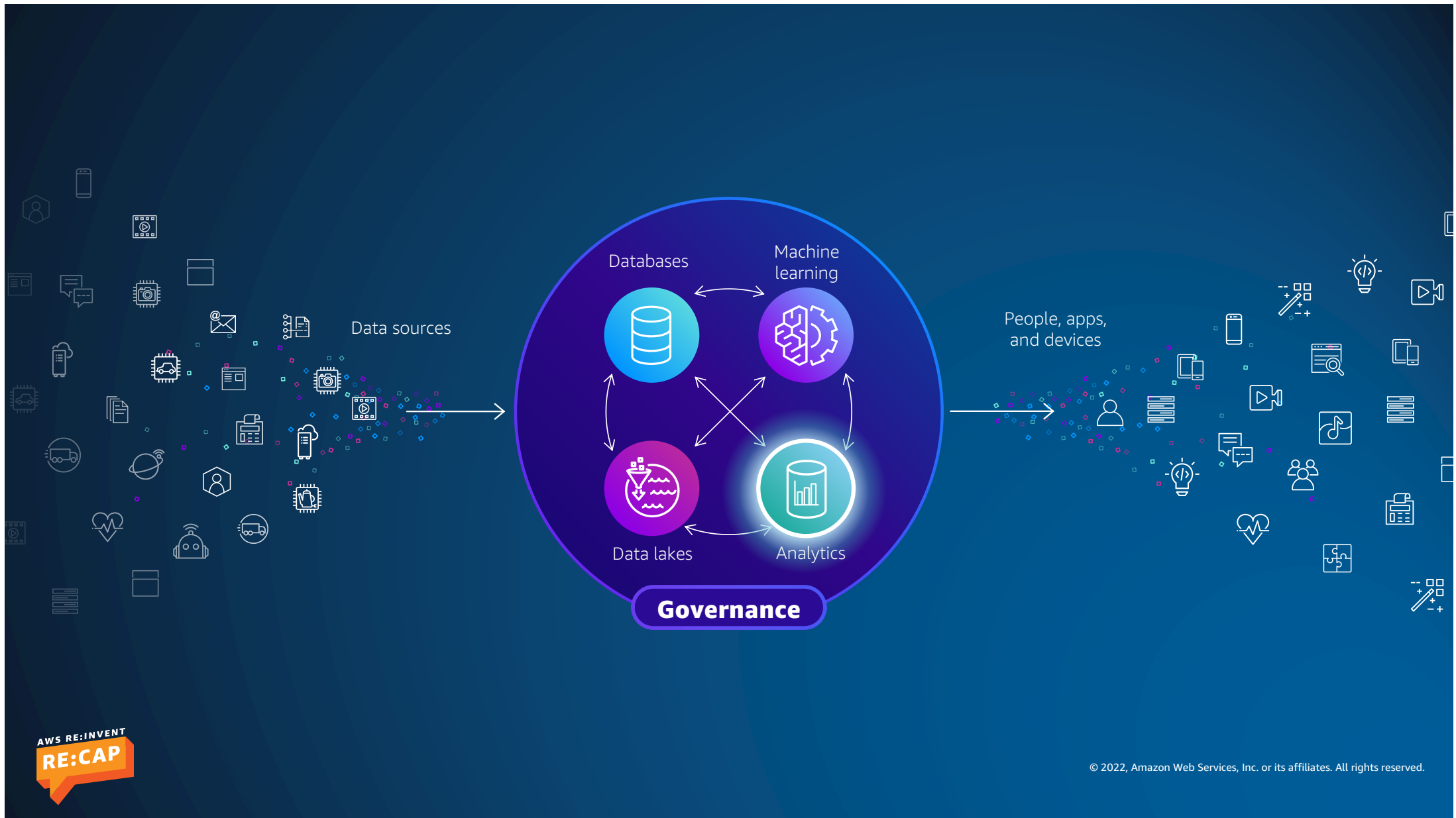


Manage access control from a single location



Enforce security policies across multiple services





AWS Analytics services

Interactive
query



AMAZON ATHENA

Big data
processing



AMAZON EMR

Operational
analytics



AMAZON OPENSEARCH
SERVICE

Real-time
analytics



AMAZON KINESIS
AMAZON MSK

Data
warehousing



AMAZON REDSHIFT

Data
integration



AWS GLUE



NEW

Serverless and on-demand analytics

PREVIEW AVAILABLE TODAY



AMAZON REDSHIFT
SERVERLESS



AMAZON EMR
SERVERLESS



AMAZON MSK
SERVERLESS



AMAZON KINESIS
ON-DEMAND





Broadest and most complete set of ML capabilities

ML FRAMEWORKS AND INFRASTRUCTURE

PyTorch, Apache MXNet, TensorFlow

AMIs and containers

Amazon EC2

CPUs

GPUs

AWS Inferentia

AWS Trainium

Habana Gaudi

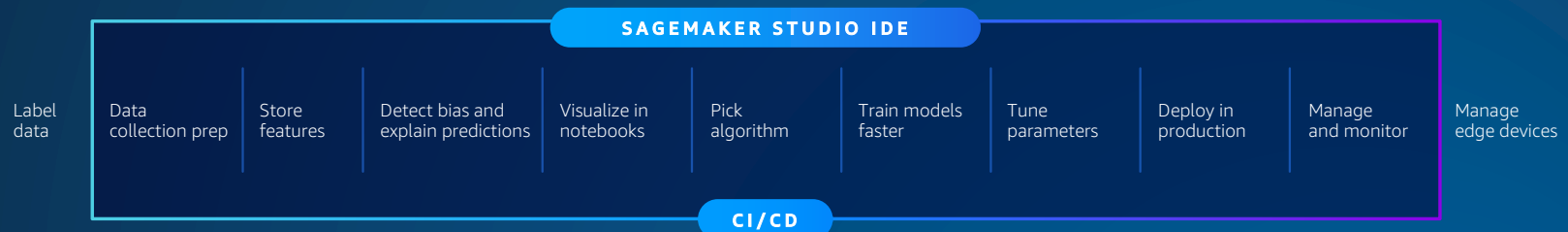
FPGA

Elastic inference



Broadest and most complete set of ML capabilities

ML SERVICE



ML FRAMEWORKS AND INFRASTRUCTURE



Broadest and most complete set of ML capabilities

AI SERVICES

VISION

SPEECH

NATURAL LANGUAGE
PROCESSING

PERSONALIZATION

CHATBOTS

ENTERPRISE SEARCH

ML SERVICE

SAGEMAKER STUDIO IDE

Label
data

Data
collection prep

Store
features

Detect bias and
explain predictions

Visualize in
notebooks

Pick
algorithm

Train models
faster

Tune
parameters

Deploy in
production

Manage
and monitor

Manage
edge devices

CI/CD

ML FRAMEWORKS AND INFRASTRUCTURE

PyTorch, Apache
MXNet, TensorFlow

AMIs and
containers

Amazon EC2

CPUs

GPUs

AWS Inferentia

AWS Trainium

Habana Gaudi

FPGA

Elastic inference



More than 1.5 million AWS customers use database, analytics, or machine learning AWS services



Democratizing machine learning

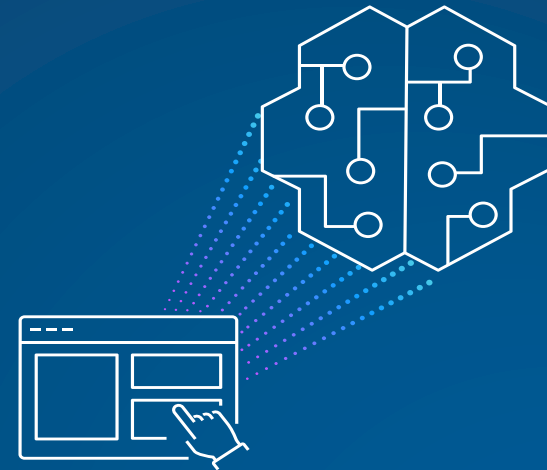


NEW

Amazon SageMaker Canvas

Generate highly accurate ML predictions using a visual point-and-click interface—no coding required

GENERALLY AVAILABLE TODAY



NEW

Amazon SageMaker Canvas

Create ML predictions without any ML experience or writing any code

GENERALLY AVAILABLE TODAY

Run an entire ML workflow with a simple point-and-click user interface

Generate accurate predictions

Publish results and collaborate with others



AWS re:Invent



Helping more people
use the cloud





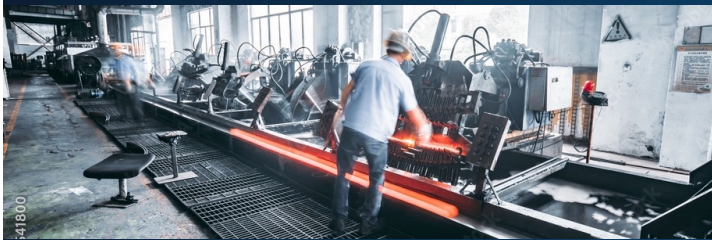
Amazon Connect

Contact center in the cloud

Set up and configure a contact center in minutes

Scale to support millions of customers





Transforming industries



AWS for Industrial



Engineering and design



Production and asset optimization



Supply chain management



Worker safety and productivity



Quality management



Smart products and machines



Purpose-built services for industrial



Amazon Monitron



Amazon Lookout
for Vision



AWS Panorama
Appliance



AWS Panorama
SDK



Amazon Lookout
for Equipment



New paths for financial services





Amazon FinSpace

Reduce time to find, prepare,
and analyze financial data
from months to minutes



**85% need
more tech
skills**



Train 29 million by 2025



AWS training programs



AWS Skill
Builder



AWS training
courses available
on Amazon.com



AWS re/Start
program



AWS re:Invent



1. Constant pursuit of a better way
2. Ability to see what others don't
3. Enable others to forge their own paths

Thank you!

Stephan Hadinger, Head of Technology

Sébastien Stormacq, Developer Relation

