



19 August 2021

Data Movement and Management Introduction

Luke Anderson

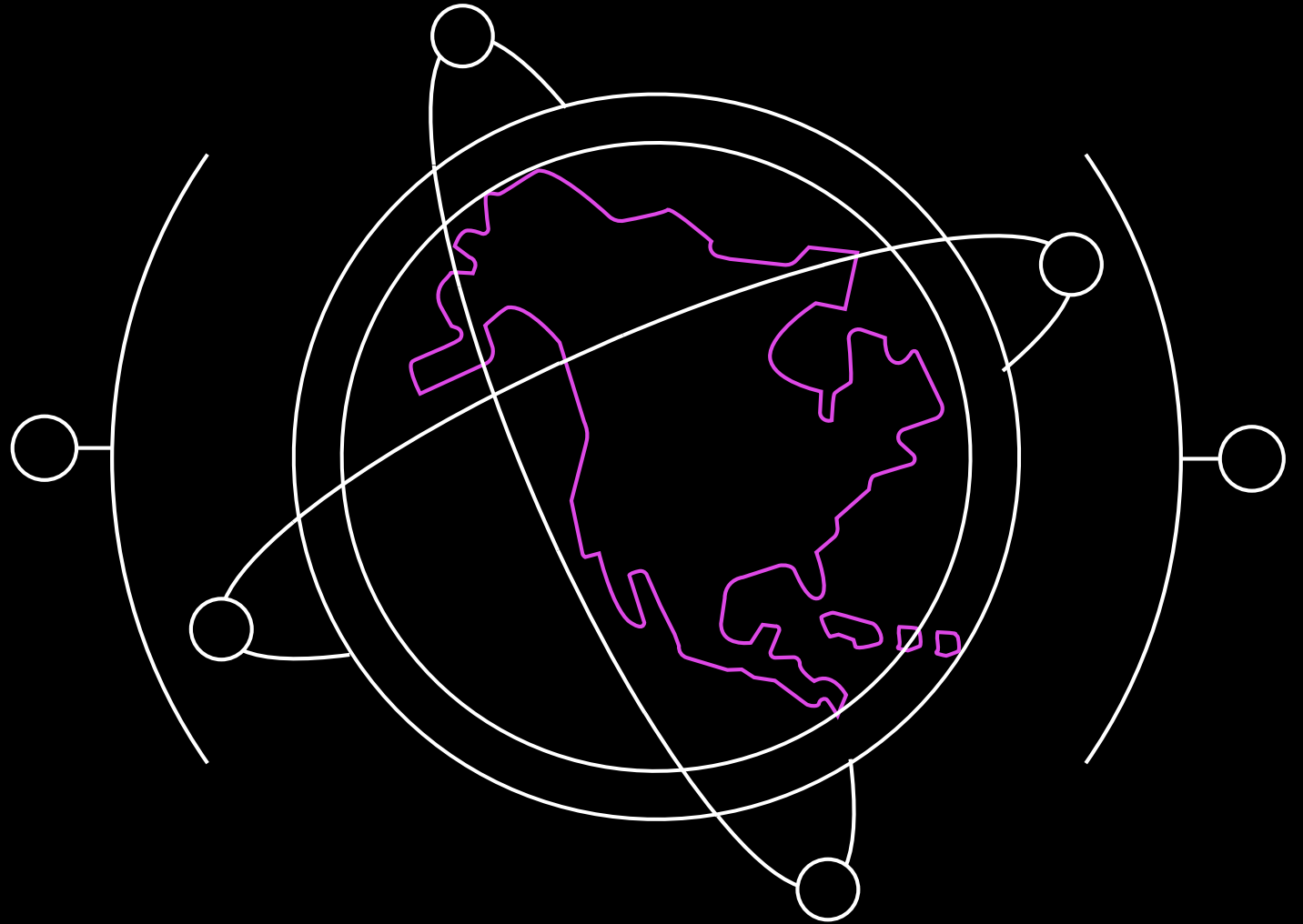
Head of Data Management and Storage
Amazon Web Services



Agenda at a Glance

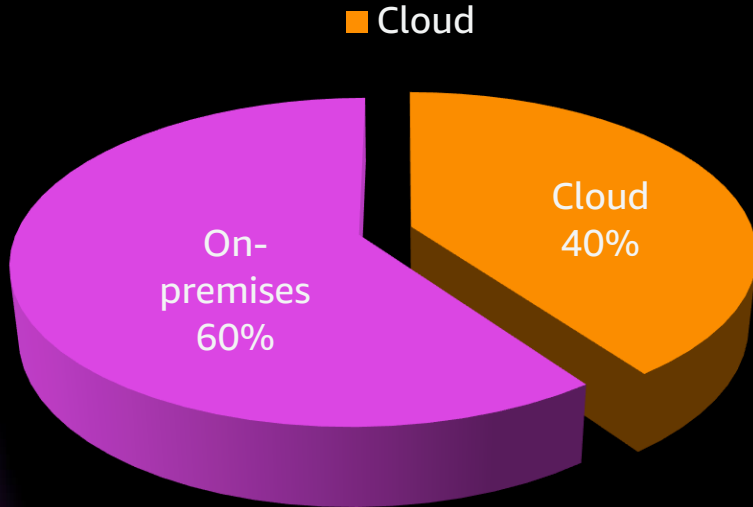
Track 2: Modernize Data Architecture - Data Movement & Management	
10 mins	Introduction to data movement and management.
Session 1	
30 mins	A journey of analytic data to a warm lake, hot insights and frozen glacier
Session 2	
30 mins	Migration myth busting on moving your data to AWS
Session 3	
30 mins	Securing your data and data governance on AWS
Break	
Session 4	
30 mins	Build a secured, mutable, high performance data lake in days with AWS Lake Formation
Session 5	
30 mins	Data preparation made easy with AWS Glue DataBrew
Session 6	
30 mins	Simplified data integration with AWS Glue

**Data must be
accessible *when*
and *where*
it's needed**

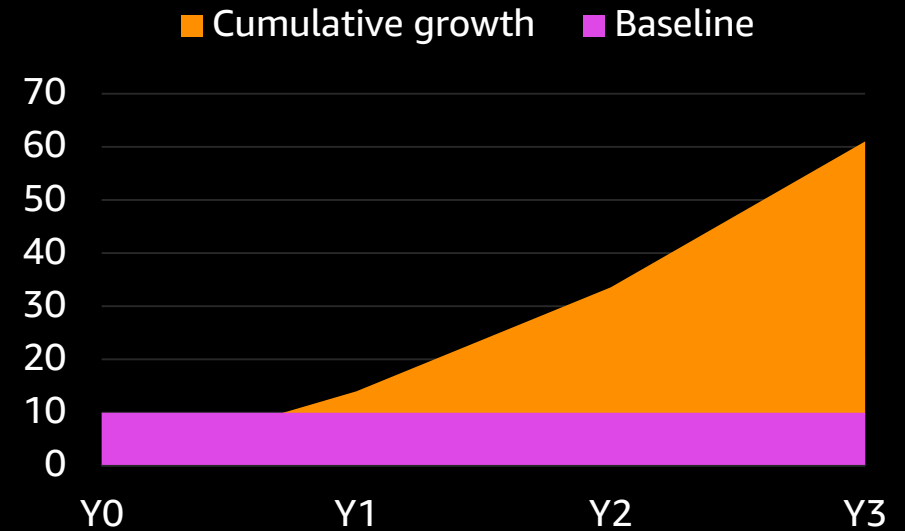


Inflection points for change

2023 data storage



Enterprise data growth



Worldwide IT spending will decline by 5.1% in 2020, primarily due to COVID-19

However, spending on cloud services will remain positive as buyers seek flexible, resilient, and cost-effective services

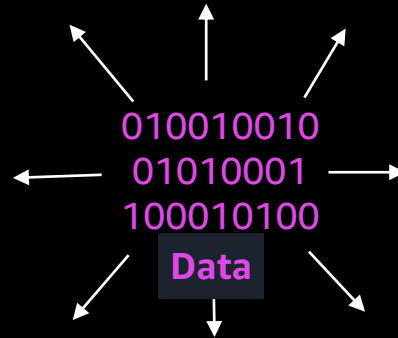
Source: IDC Market Spotlight, Sponsored by AWS, "Cloud Storage Adoption: From Cost Optimization to Agility and Innovation," Doc. #US46772420, September 2020

**Agility is more
important than ever**

vyaire[™]
MEDICAL

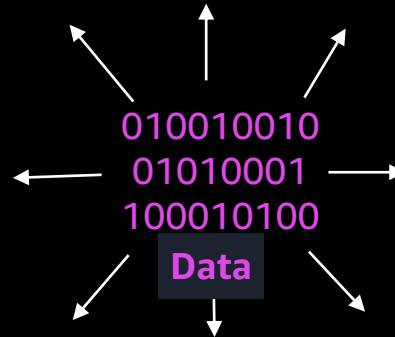


The Data Flywheel

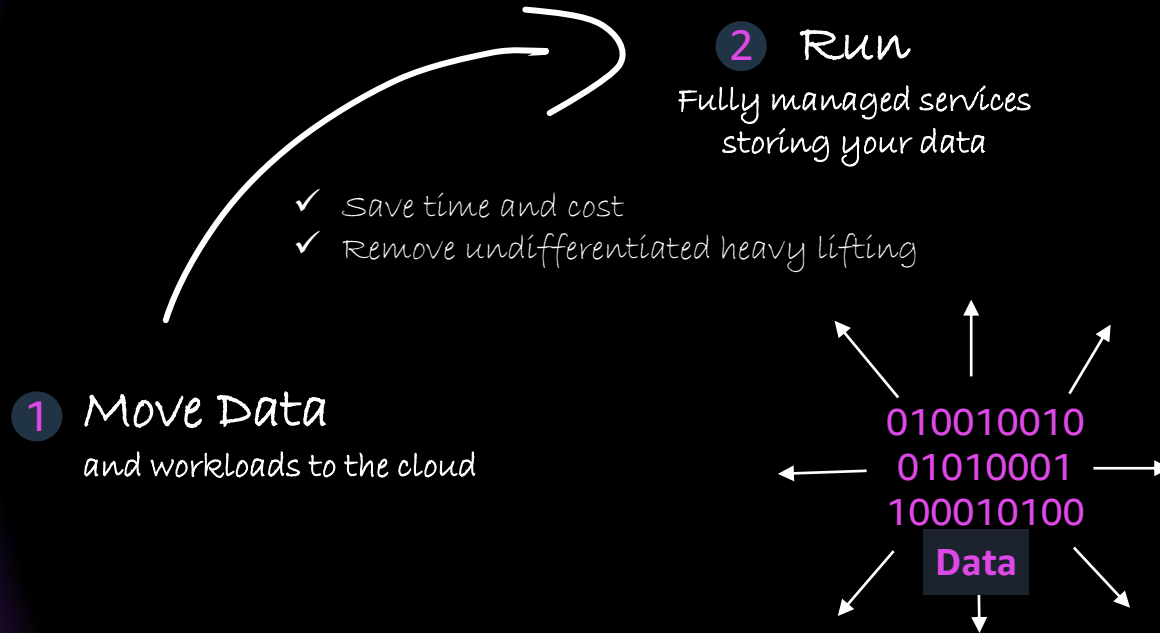


The Data Flywheel

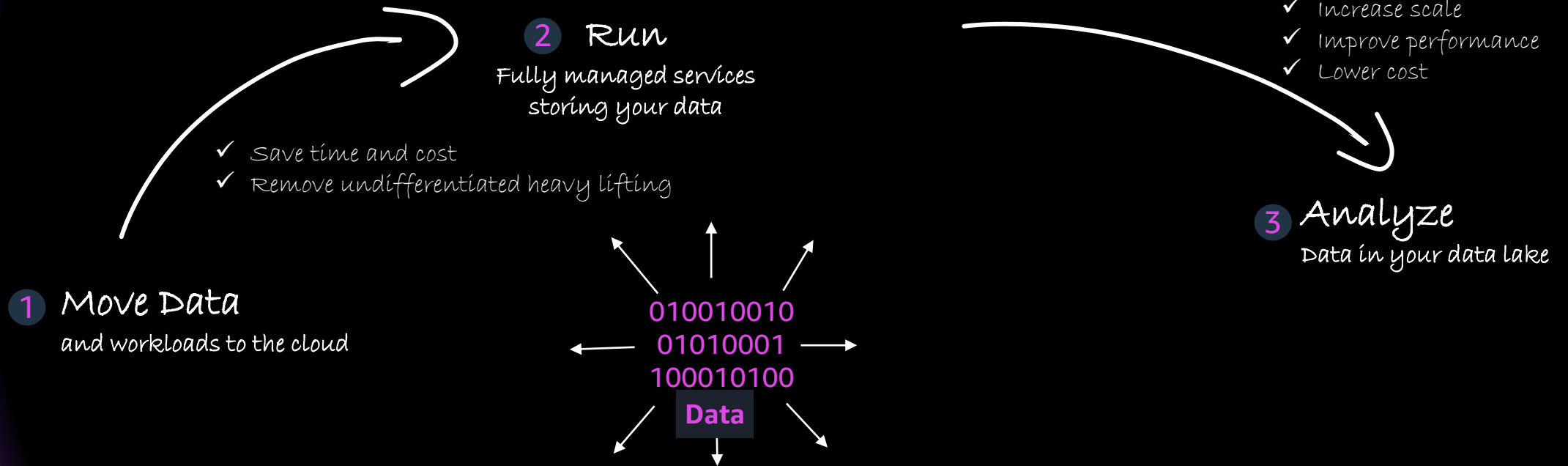
- 1 Move Data
and workloads to the cloud



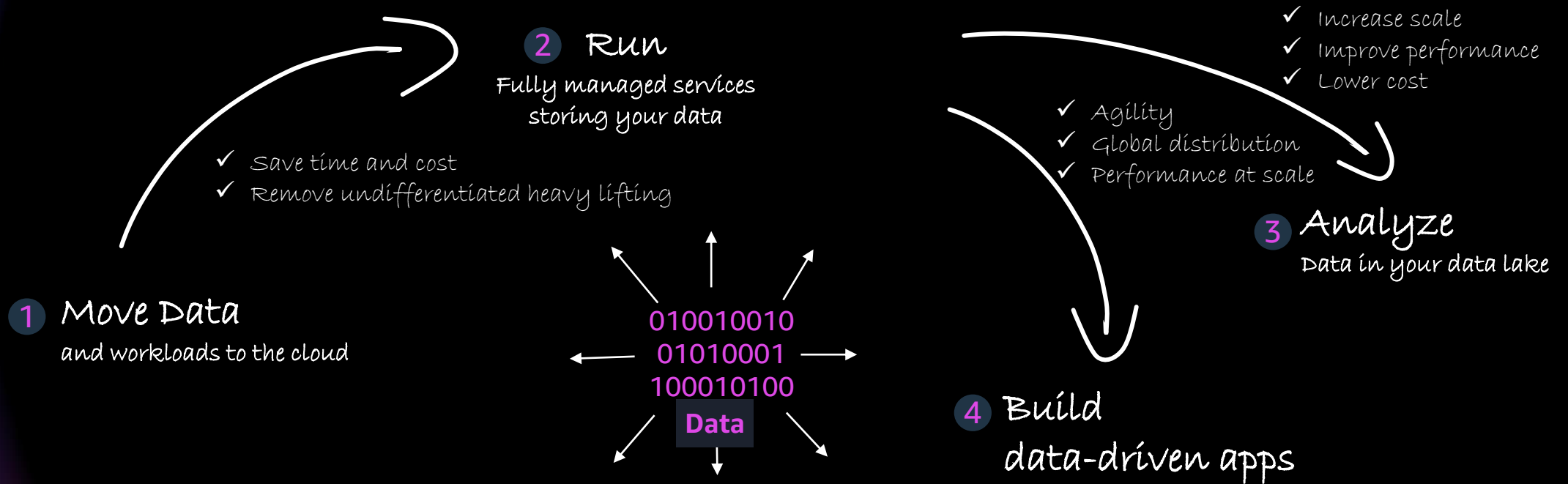
The Data Flywheel



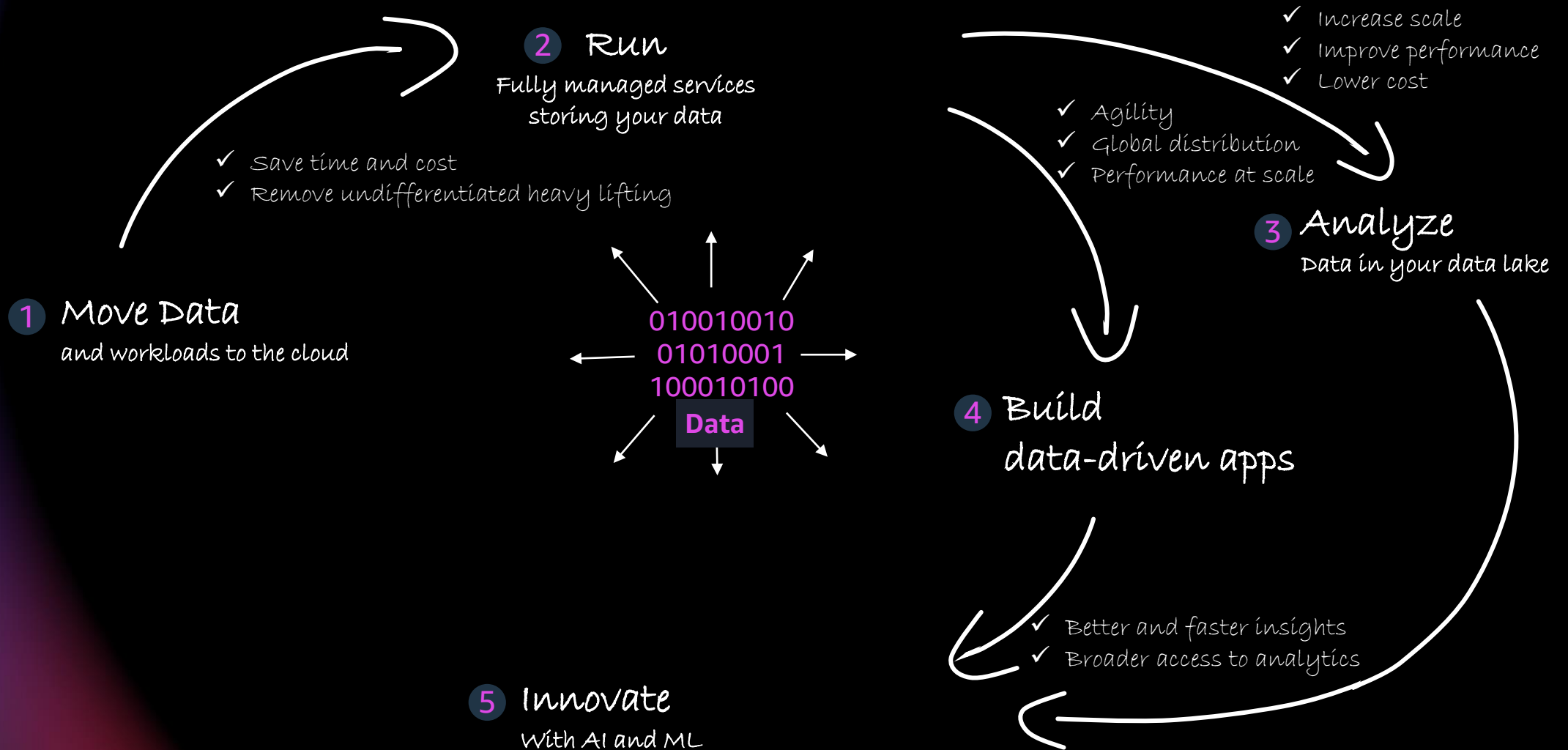
The Data Flywheel



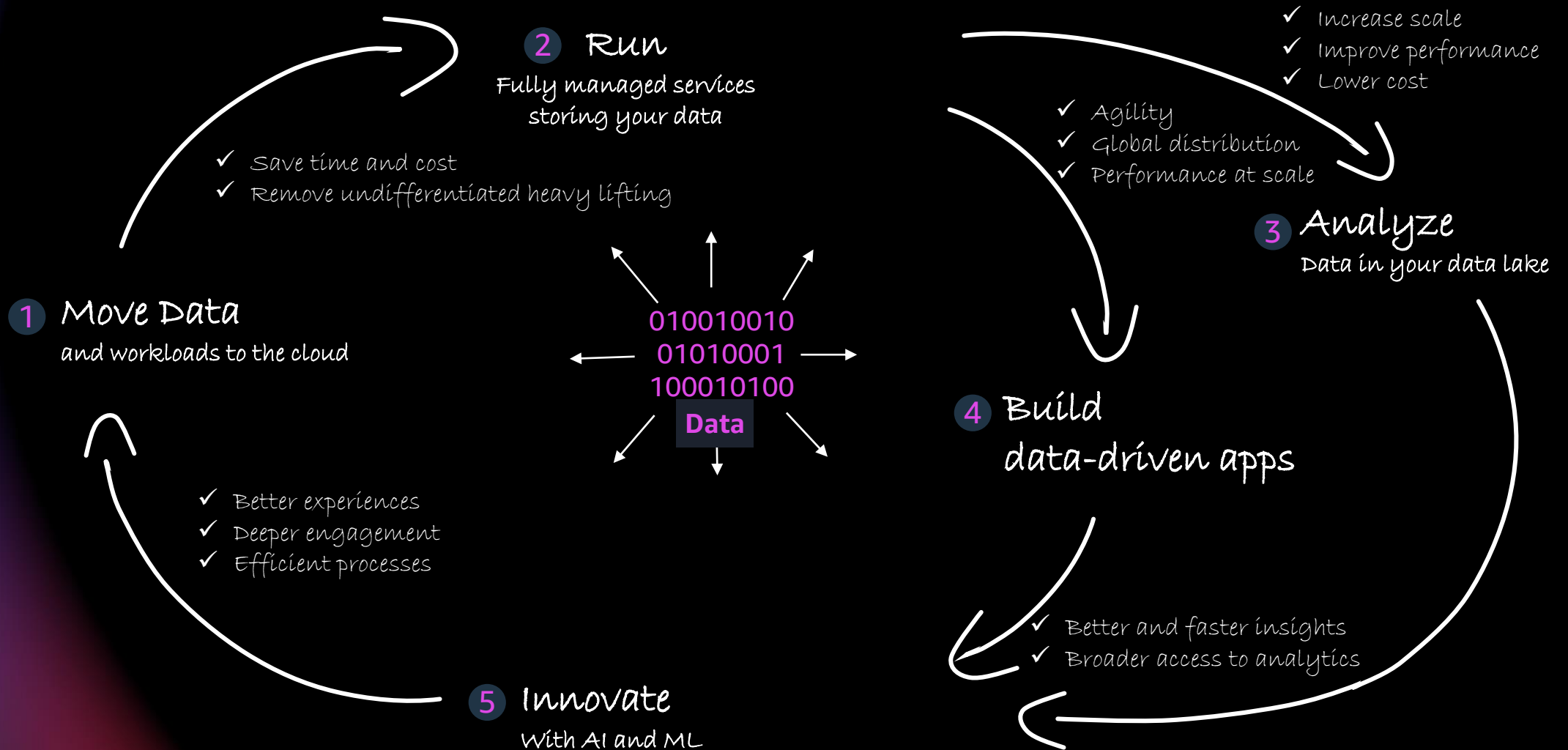
The Data Flywheel



The Data Flywheel



The Data Flywheel



The most complete cloud storage portfolio

Object



Amazon S3
and S3 Glacier

Block



Amazon
Elastic Block
Store (EBS)

File



Amazon
Elastic File
System (EFS)

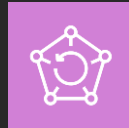


Amazon FSx for
Windows File Server



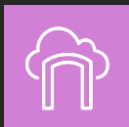
Amazon FSx
for Lustre

Backup

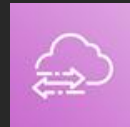


AWS
Backup

Broadest and deepest data transfer and edge processing



AWS Storage
Gateway



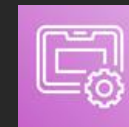
AWS
DataSync



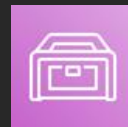
AWS Transfer
Family



AWS
Snowmobile

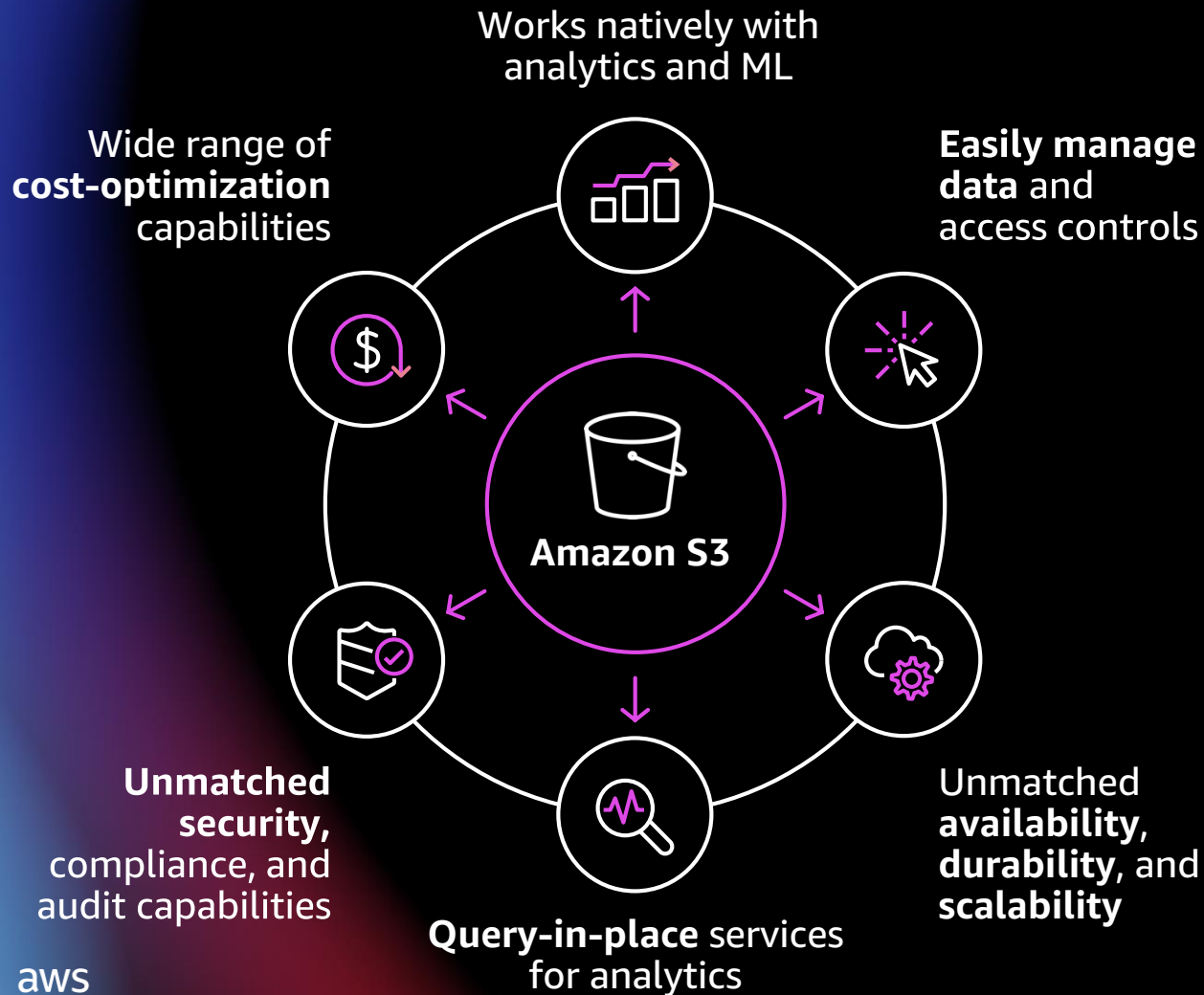


AWS
Snowball



AWS
Snowcone

Amazon Simple Storage Service (S3) is the best place to build a data lake



Exabytes of storage and trillions of objects

Tens of thousands of data lakes built on Amazon S3

S3 Intelligent-Tiering monitors and adjusts pricing automatically

S3 Glacier Deep Archive offers the lowest-cost object storage in cloud, at **a tenth of a cent** per GB-month

Broadest file portfolio



Amazon
EFS

**Serverless
file storage**



Amazon FSx for
Windows File Server

**Windows-based
workloads**



Amazon FSx
for Lustre

**Compute-intensive
workloads**

Seamless data movement



AWS
Direct Connect



Amazon
Kinesis
Firehose



Amazon Kinesis
Data Streams



Amazon Kinesis
Video Streams



Amazon S3
Transfer
Acceleration



AWS
Storage
Gateway



AWS
Database
Migration
Service



AWS
Snowcone



AWS
Snowball Edge



AWS
Snowmobile

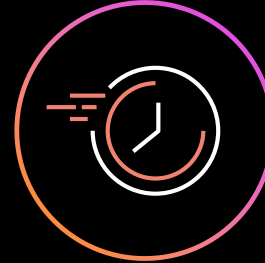
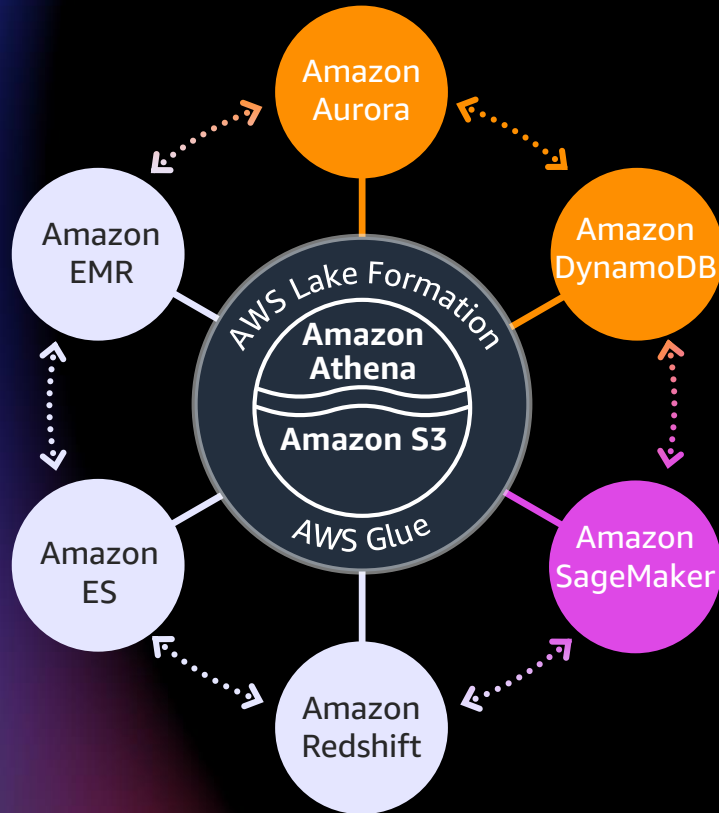


AWS
DataSync



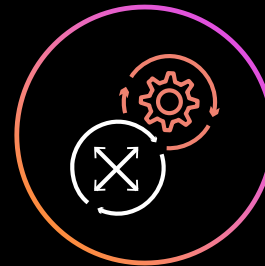
AWS
Transfer
Family

AWS Glue



Integrate data faster

Prepare and put your data to use from months to minutes



Automate at scale

Easily run and manage thousands of ETL jobs



No servers to manage

Pay only for the resources your jobs use while running

Lake house architecture

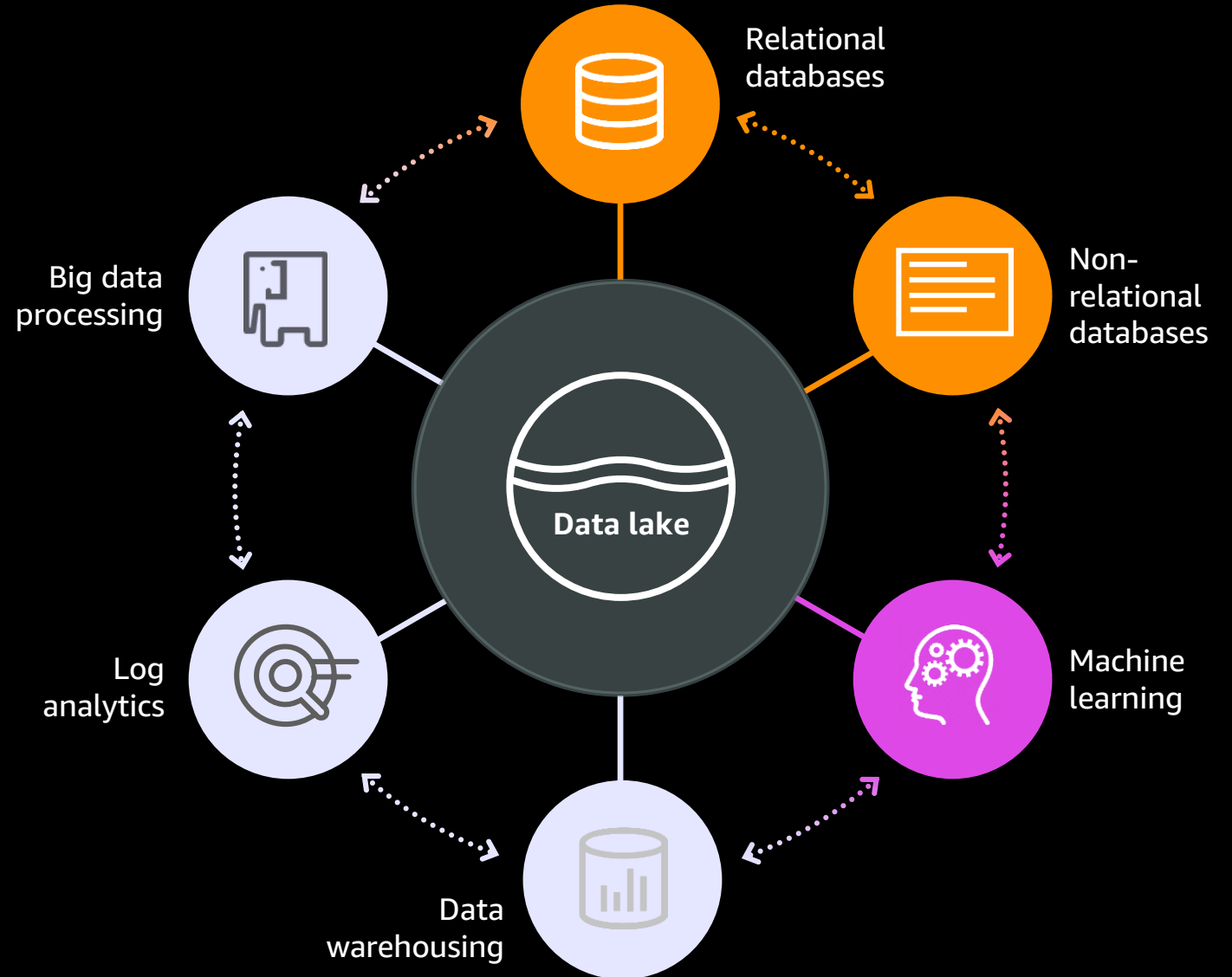
Scalable data lakes

Purpose-built
data services

Seamless data
movement

Unified governance

Performant and
cost effective



Bringing it all together

Sony DADC

EPIC
GAMES



Visit the AWS Data Resource Hub

Dive deeper with these resources, get inspired and learn how you can use data to make better decisions and innovate faster.

- Building a winning data strategy
- The new leadership mindset for data & analytics
- Harness data to reinvent your organization
- Put your data to work with a modern analytics approach
- Breaking free from on-premises database constraints
- Cloud storage adoption: From cost optimization to agility & innovation
- A strategic playbook for data, analytics, and machine learning
- ... and more!



<https://tinyurl.com/aws-data-resource>


Visit resource hub



AWS Training and Certification

Empower your teams with comprehensive training

By building skills with AWS Training and Certification, businesses and individuals can see the bigger picture understanding the reasoning behind every data point. As training progresses and teams become data-fluent, previously hidden insights come into view.



Build data skills to
unlock any insight

Leverage free digital training

Learn how to harness the world's most valuable resource: data. Access digital and virtual instructor-led courses on data analytics and databases built by the experts at AWS and start your learning journey to become data-driven.

[Take a digital course »](#)



Get certified

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[Learn more »](#)



Ramp-up your skills

Deep dive into new topics and focus on knowledge gaps at your own pace with the *AWS Ramp-Up Guide: Database* and *AWS Ramp-Up Guide: Data Analytics*. With a wide range of whitepapers, blog posts, videos, webinars and peer resources available for data professionals to leverage for independent learning.

[Download ramp-up guides »](#)

Thank you for attending AWS Innovate – Data Edition

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Thank you!