

# AWS re:Invent

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DAT207-R

# Choosing the right database(s) for your application

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# Agenda

- AWS purpose-built databases
- Key points about the selection process
- How can we help you choose the right database(s)

# Myth – a single “*ideal*” database

THE IDEAL DATABASE SHOULD DO EVERYTHING WELL

## Innovation and agility

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Supports **all storage**  
(data types) and  
**all access patterns**

Implements **ACID**  
**transactions** and  
**strong consistency**

## Performance and scalability

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Provides **limitless**  
**scalability** and tolerates  
**load variability**

Is **highly performant**  
regardless of query  
complexity

## Cost-effective and easy to manage

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Is **continuously**  
**available** (no downtime)

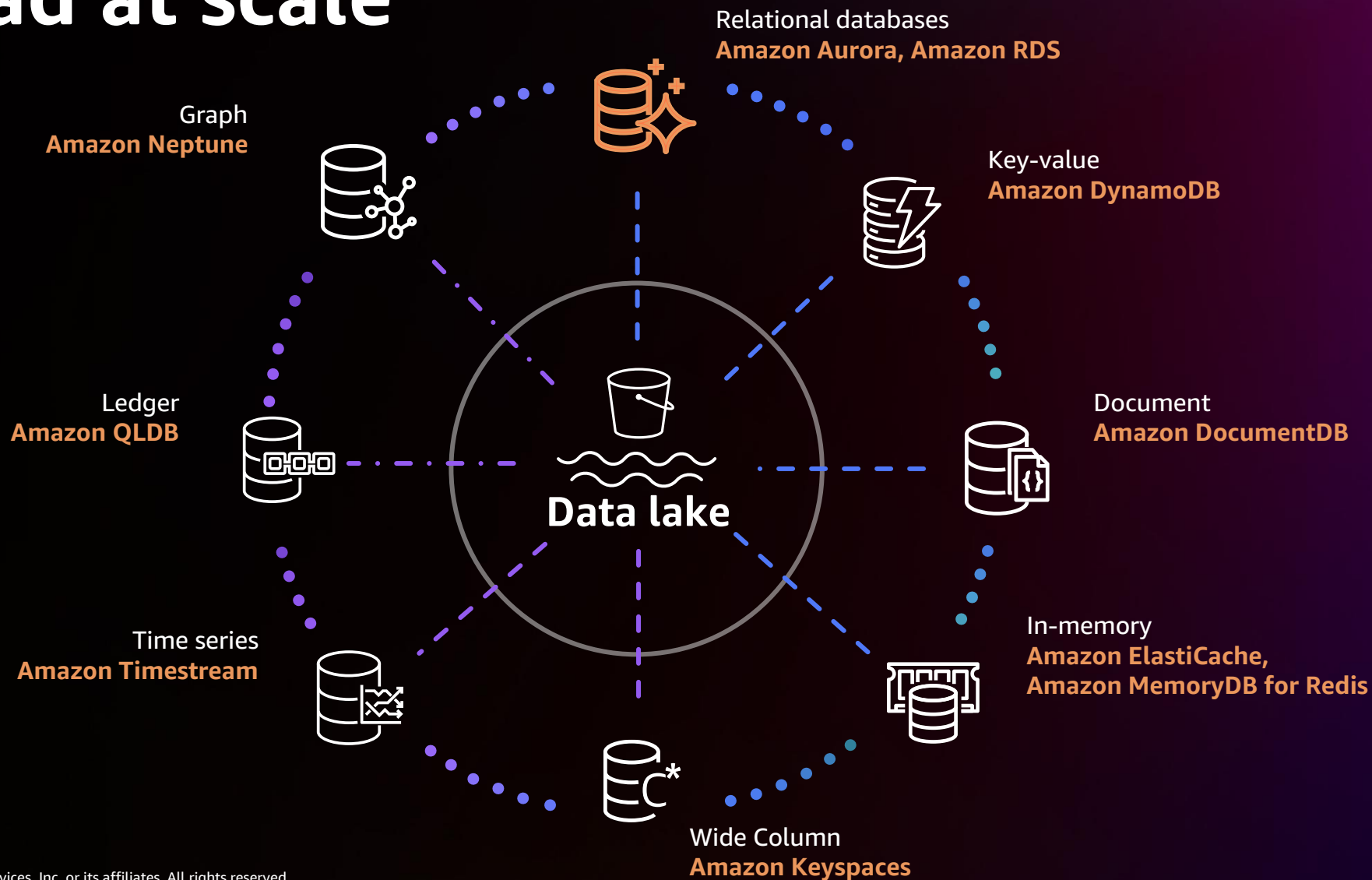
Is **simple and easy to**  
**use, tune, and maintain**

Is **cost-effective**  
and **predictable**

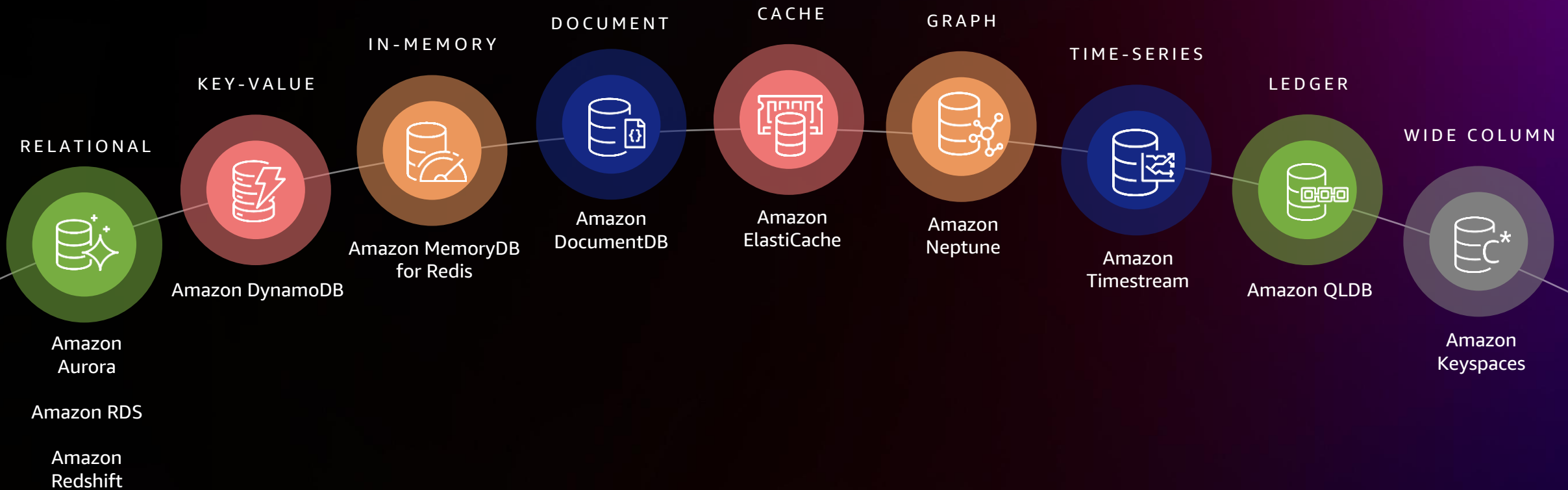
... and more!



# Reality – Right datastore for the right workload at scale



# AWS purpose-built databases



# Define a 360° view of workload



# Solution affinity



High affinity:

Solution is **broadly adopted** in the market for a particular use case and is a **good enough fit** for that use case (tried and tested, with lots of expertise available in the market)

High affinity:

Solution is a **very good fit** for the use case, but awareness may hamper adoption



Low affinity:

Solution is **not a good fit** but is nevertheless **extensively used** (like using an RDBMS as a queue)

Low affinity:

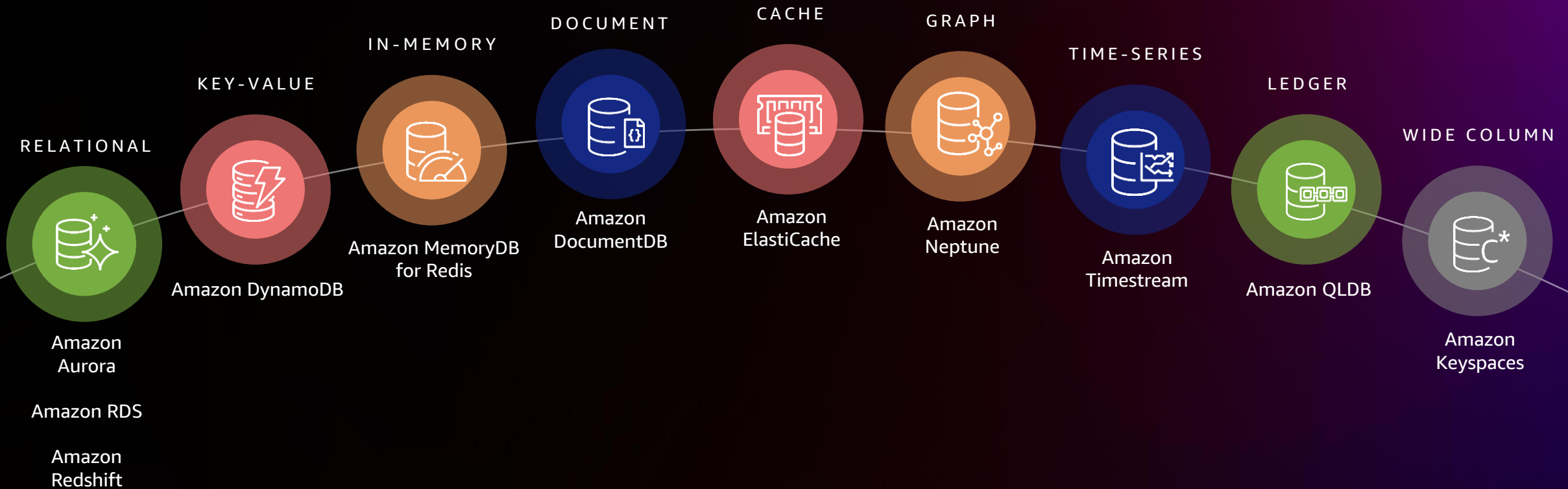
This solution can be made to work but **requires extensive workarounds**



**Your turn 😊 ...**



# AWS purpose-built databases



# Thank you!

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