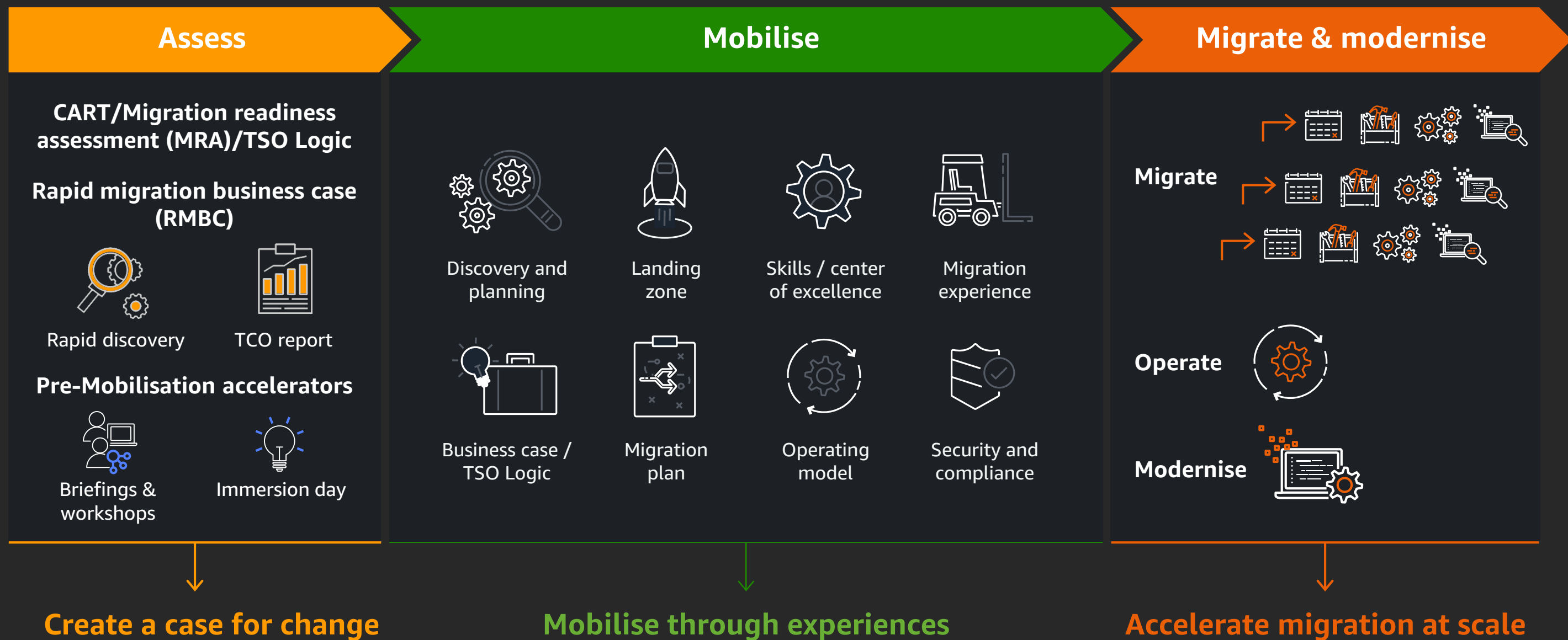TRA01

Accelerate towards innovation: Start right with AWS migration and modernisation best practices

Sean Hooper

Transformation Architect
Migrations Acceleration Team
Amazon Web Services

Migration customer journey

Assess	Mobilise	Migrate & modernise

Assess

CART/Migration readiness assessment (MRA)/TSO Logic

Rapid migration business case (RMBC)

Rapid discovery

TCO report

Pre-Mobilisation accelerators

Briefings & workshops

Immersion day

Mobilise

Discovery and planning

Landing zone

Skills / center of excellence

Migration experience

Business case / TSO Logic

Migration plan

Operating model

Security and compliance

Migrate & modernise

Migrate

Operate

Modernise

Create a case for change

Mobilise through experiences

Accelerate migration at scale

Common questions

How do I create a business case?

What do I have in my environment?

How do I get started?

What should I move to the cloud?

Which workloads do I move first?

How do I move these workloads?

What do we do after we migrate?

How do I get my team re-skilled?

The right conditions are everything…
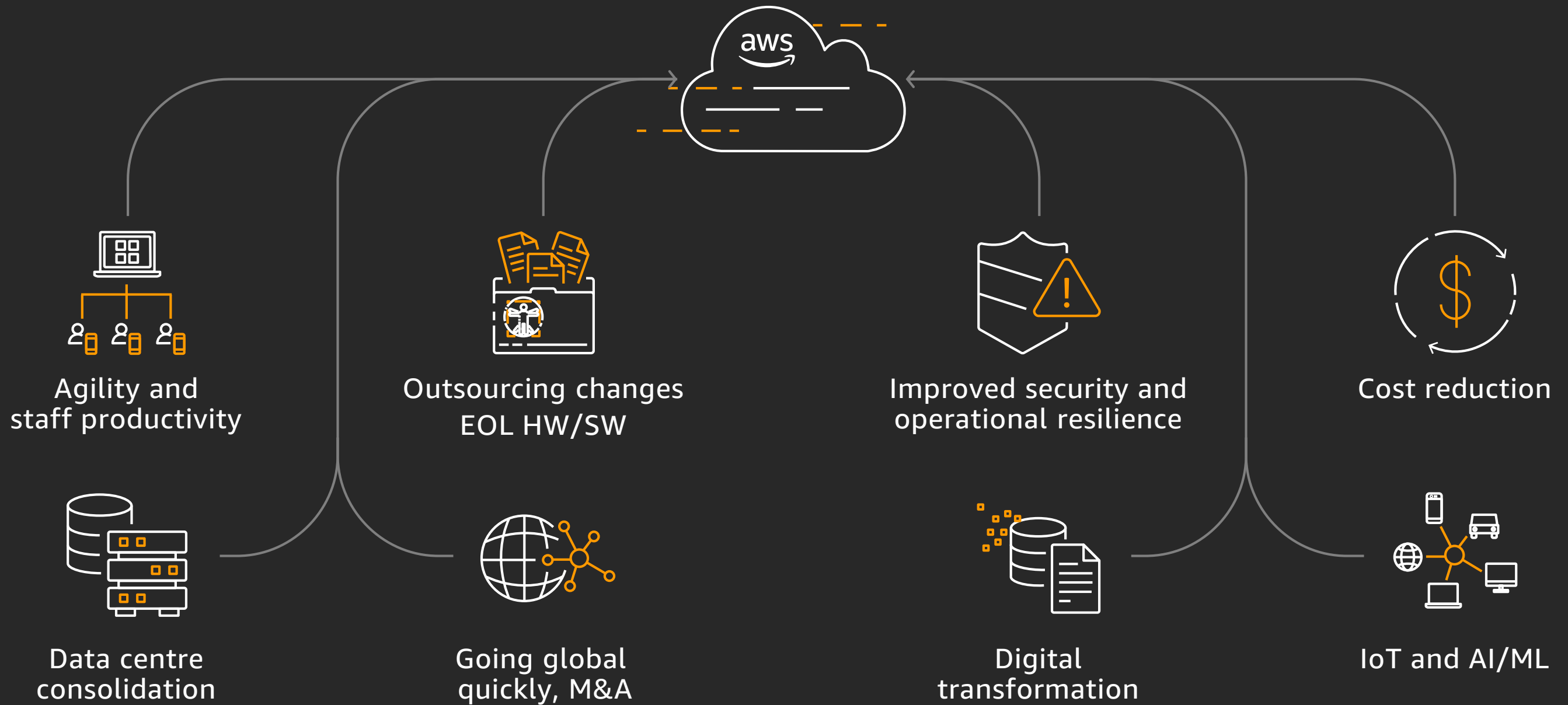
The laws of physics

…

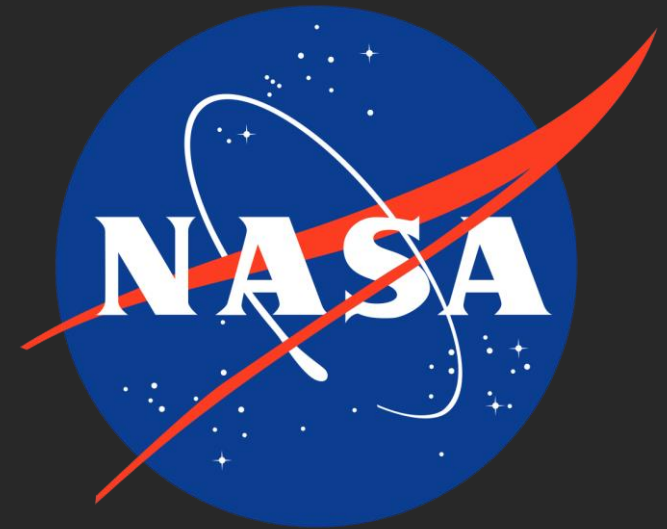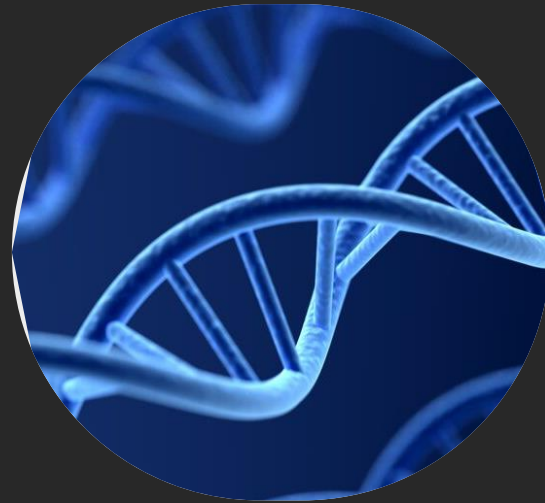Chemistry of the elements

…

Human language

…

Innovations:

the wheel, agriculture, steam engines, electricity, computing

Business drivers for migrating to the cloud

Agility and staff productivity

Outsourcing changes EOL HW/SW

Improved security and operational resilience

Cost reduction

Data centre consolidation

Going global quickly, M&A

Digital transformation

IoT and AI/ML

Why everyone else is migrating to the cloud

Migration success requires . . .

The right pre-conditions

The laws of physics = a compelling event

Chemistry of the elements = the right platform

Human language = the right operating model and process

Innovations: the wheel, agriculture, steam engines, electricity computing = accelerators partners, AWS ProServe, Managed Services

The right ingredients

Senior leadership conviction and alignment

Top-down quantifiable goals

Establishing accountable leads, training your teams

Building experience, not overanalysing

A compelling event

- Are you in growth mode?

- In stress / turnaround and on the backfoot

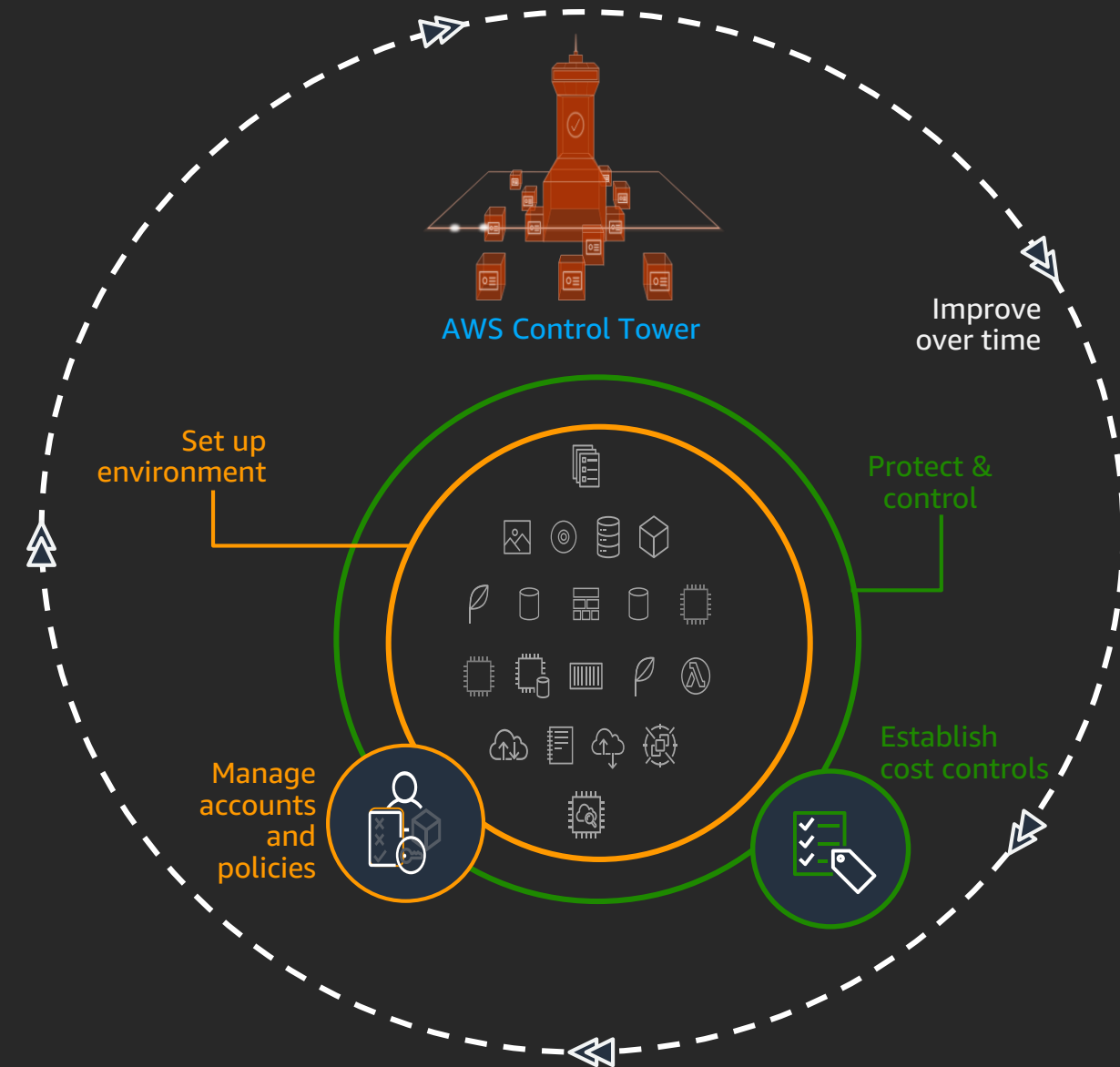- Disruption or aggregation in the industry?

A compelling event

- **Growth**

- Standardisation

- Re-purchase SAP

- Decommissioning

- Agility

The right platform

Goldilocks conditions' – right location, protected, perfect conditions for innovation and growth

Goldilocks Zone

AWS Control Tower

Improve over time

Set up environment

Protect & control

Manage accounts and policies

Establish cost controls

The right platform

- Some regulated, high-transaction workloads

- Over 350 applications migrated to AWS

- Broad and deep use of AWS – over 100 services

The right operating model and process

- Proven methodology

- Automate to innovate

Self-managed

AWS Managed Services (AMS)

Partner-managed

AWS Migration Hub

The right operating model and process

- Cloud Operating Model
- Cloud Business Office
- Augment to scale
  with AMS & Partners

Accelerators

- Migration Competency Partners – workload / case specific

- Executive Acceleration Workshop

- Experience Based Accelerators "Migration Party"

- AWS Managed Services – Landing Zones and Automation

Accelerators

JOHN HOLLAND

". . . we're going to do it with you, not to you!"

\- CIO

aws partner network

AXA

"To get insights, you need to experiment"

\- Head of Cloudification

aws professional services

SAP Concur

"It unequivocally demonstrated the power of AWS to us"

\- Chief Architect

Experience Based Accelerator

SGN Your gas. Our network.
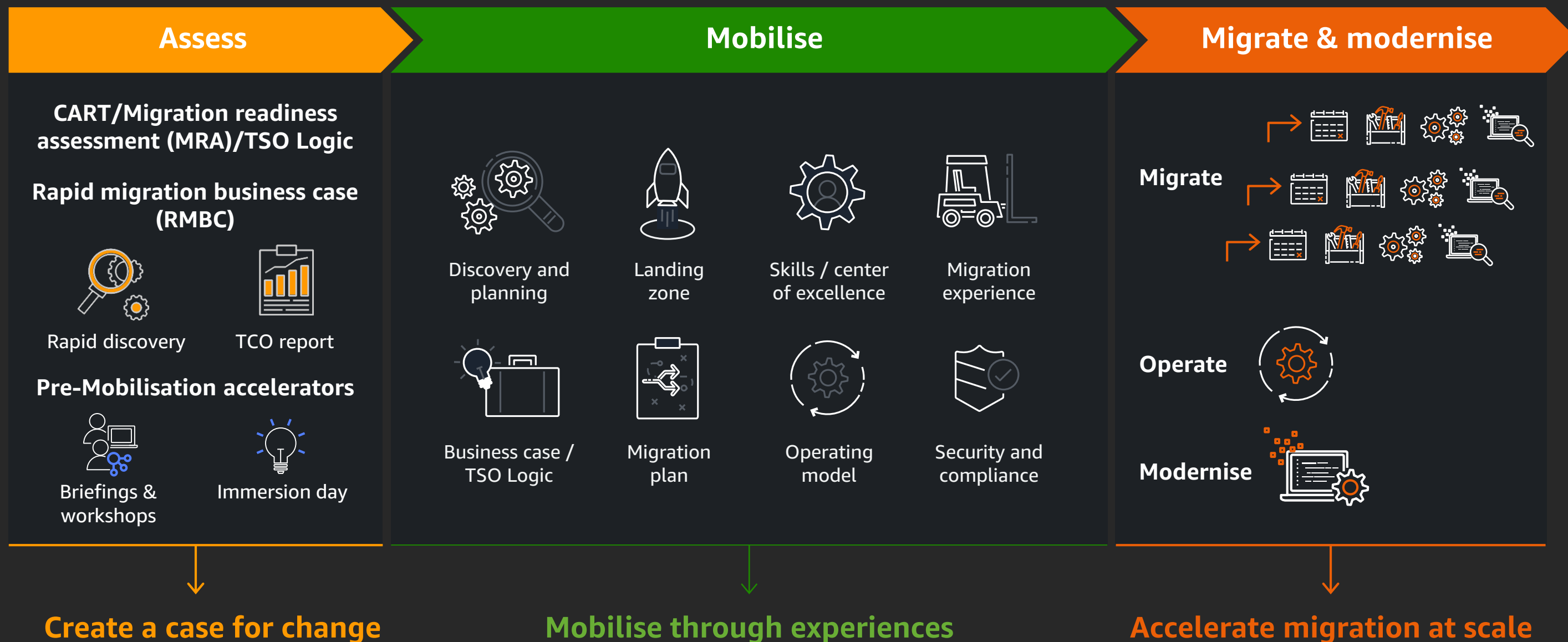
"We selected cloud to ensure an improvement . . . around security and durability"

\- CTO

AWS Managed Services
Infrastructure Operations Management for AWS

For all businesses - big and small, local and global

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Operate

Modernise

Create a case for change   **Mobilise through experiences**   **Accelerate migration at scale**

The right ingredients

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Ingredient #1

Senior leadership conviction and alignment

Top-down quantifiable goals

Establishing accountable leads, training your teams

Building experience, not overanalysing

- "Are we disrupting ourselves enough?"

- Can we help gather the right data to support you?

- Exec forums, migration assessment and mobilisation, mechanisms

- True sponsorship: continuous, active, visible

Ingredient #1

Senior leadership conviction & alignment

- CTO defined the value
- CEO has made a company-wide commitment
- All of Kmart Target IT 1,400 employees

Ingredient #2

Top-down quantifiable goals

Senior leadership conviction and alignment

Top-down quantifiable goals

Establishing accountable leads, training your teams

Building experience, not overanalysing

- The right objectives

- Stretch not break!

- Tied to executive goals

Ingredient #2

Top-down quantifiable goals

- Public cloud, cloud-first strategy

- 100 apps migrated in year 1 (2018)

- More than 500 apps hosted on public cloud so far

- 35% of all apps hosted on cloud by end of 2020

- More than 1000 people AWS certified – halo effect of upskilling

Ingredient #3

Accountable leads, train your teams

Senior leadership conviction and alignment

Top-down quantifiable goals

Establishing accountable leads, training your teams

Building experience, not overanalysing

- Delegated authority to migrate and modernise within guardrails

- Learning New skills; Dojo, Guild, Community, Hackathons, …

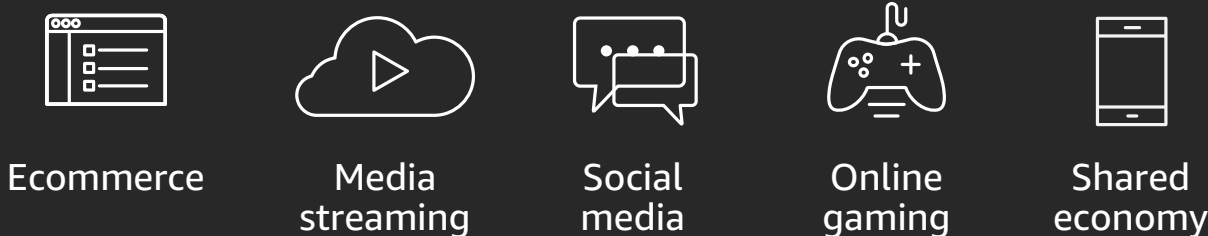- Make it fun

Ingredient #3

Accountable leads, train your teams

- Accountable leads, purpose

- Cloud Academy
    - Commitment to train 3,000
    - Technology
    - Innovation culture

- Hackathons, diversity, Game Days

Modern application requirements

Requires more performance, scale, and availability

Ecommerce Media streaming Social media Online gaming Shared economy

Users	1M+
Data volume	Terabytes to petabytes
Locality	Global
Performance	Microsecond latency
Request rate	Millions per second
Access	Mobile, IoT, devices
Scale	Virtually unlimited
Payment model	Pay as you go
Developer access	Instance API access
Development	Apps and storage are decoupled

Purpose-built databases

Relational	Key-Value	Document	In-Memory	Graph	Time-Series	Ledger	Wide Column

| Amazon Aurora | Amazon RDS | Amazon DynamoDB | Amazon DocumentDB | Amazon ElastiCache | Amazon Neptune | Amazon Timestream | Amazon QLDB | Amazon Managed Apache Cassandra |

Ingredient #4

Build experience – don't over analyse!

Senior leadership conviction and alignment

Top-down quantifiable goals

Establishing accountable leads, training your teams

Building experience, not overanalysing

- Start with something chunky and controversial

- Building experience
= building patterns
= building muscle

Ingredient #4

- Reimagine insurance

- Redefine employee experience

- Launched a software solutions company

- Improve quality healthcare

- Be bold, set limits, think big, test & learn

APN Partners to help you migrate

- **accenture**
- **blazeclan**
- **Capgemini** — CONSULTING.TECHNOLOGY.OUTSOURCING
- **Cognizant**
- **CONTINO**
- **DATACOM**
- **Deloitte.**
- **DXC.technology**
- **Hewlett Packard Enterprise**
- **HITACHI** Inspire the Next
- **Infosys**
- **lemongrass**
- **mantalus**
- **NEC**
- **Pythian** love your data
- **rackspace**
- **slalom**
- **sourced**
- **TATA** TATA CONSULTANCY SERVICES
- **VERSENT**
- **virtusa | POLARIS**
- **wipro**

→ AWS Migration Competency Partners (40+)	→ APN Consulting Partners (Expertise level: Advanced and higher)
→ Established AWS migration practice	→ AWS certifications and certified consultants
→ Current Managed Services or DevOps competency	→ Audited annually against competencies

Ask yourself:

1 What is our compelling event?

2 Who is our sponsor?

3 Are our people trained?

4 How much do we know about our IT?
Do we have the right approach?

https://aws.amazon.com/cloud-migration

Thank you!

aws SUMMIT ONLINE