



a· amdocs

**make it
amazing**

How to Solve the Cloud Puzzle and Unlock Business Value

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01

Understanding the Cloud Puzzle

- ✓ Yesterday and the today
- ✓ Cloud current movement
- ✓ Current situation
- ✓ Challenges

02

Unlocking the puzzle with a real case

- ✓ Understanding the challenges
- ✓ Transformation Journey
- ✓ Migration strategy
- ✓ Benefits and outcomes

03

Overcome the challenges and build the puzzle

- ✓ Elite cloud Performer
- ✓ Azure cloud adoption framework
- ✓ Overcome your challenges

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01

Understanding the Cloud Puzzle

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Unfolding the cloud Puzzle

Yesterday

Application silos, built for web

Static apps, serve up stored data

Servers and infrastructure to manage

Upfront capacity planning, fixed scale

Optimized for decade old security threats

Built for hardware + software refresh cycles

Today

Multi-channel applications, web, mobile, agents, IoT

Data-driven apps, personalize in real-time

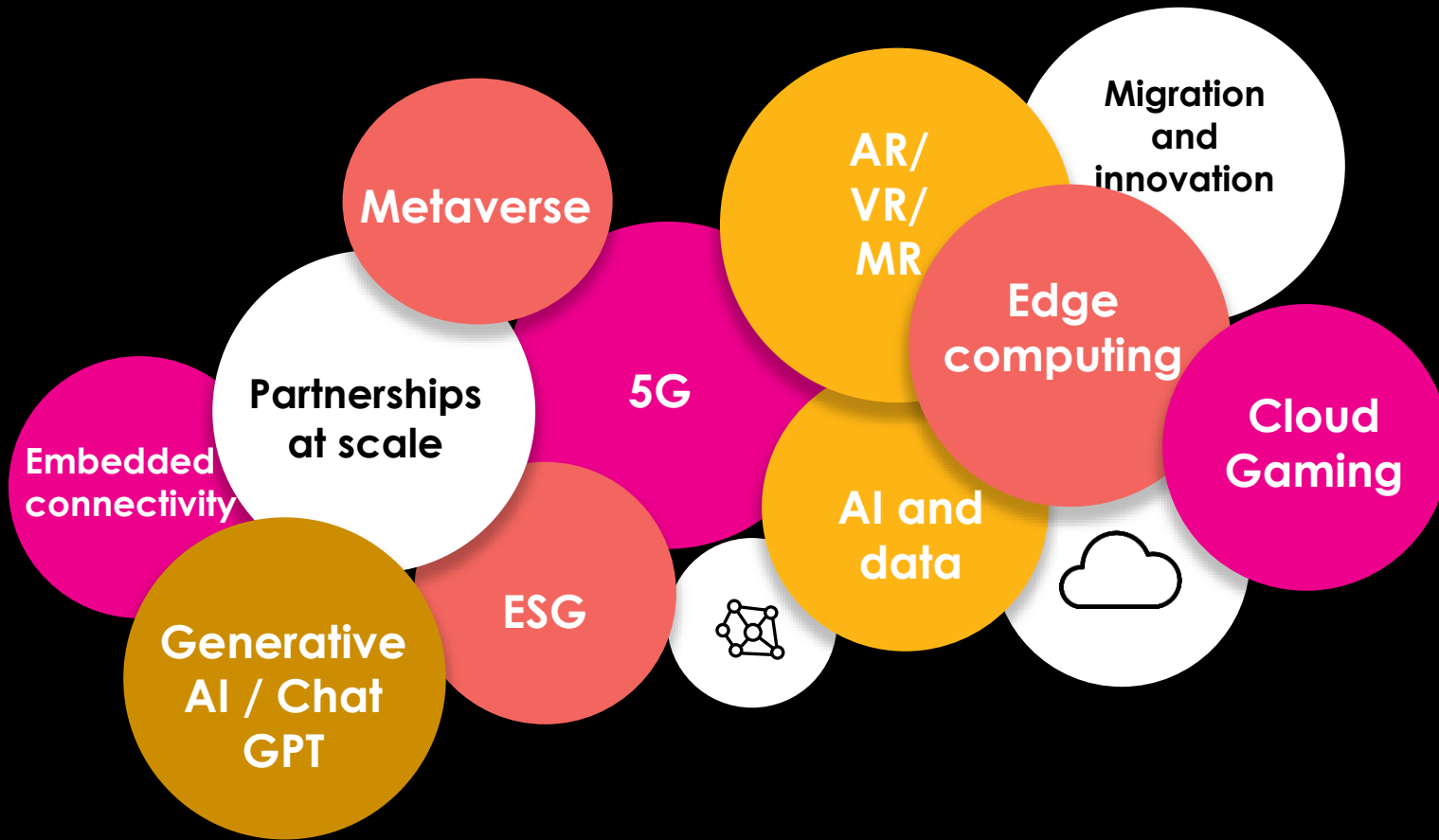
Remove maintenance efforts, redirect to innovation

Elastic, unlimited scale

Intelligent protection detects threats, notifies

Ongoing + seamless innovation built-in

New trends and technologies rely on the cloud



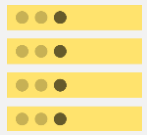
Trends are accelerating the need for capabilities that cloud delivers:

- Launch new services and business models to grow revenues faster
- Optimize operations and reduce costs
- Enhanced agility and shorten time to market
- Better service and an amazing customer experience



Triggers cloud Transformation

Migration Triggers



Datacenter contracts expiring



Mergers, acquisition or divestiture



Urgent capacity needs



Security & Compliance threats



Software and hardware refresh

Modernization Triggers



Rapidly scale web apps and infrastructure



Cost-optimizing applications



Application innovation



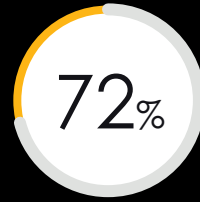
Application delivery speed



Enable Product Centric Organizations

The tech landscape has already evolved

Organizations are moving faster



of industry's pace of transformation has accelerated as a result of the pandemic ¹



... but existing IT platforms prevent the agility we need

Infrastructure has changed

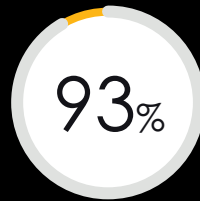


of new digital initiatives are projected to be on cloud platforms by 2025 ²



... but where do we start?

Security everywhere

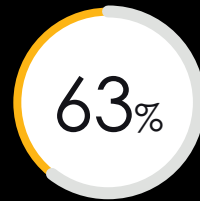


of company networks can be penetrated by a cybercriminal



... but security and compliance is resource intensive

Teams work more dynamically



of high-growth companies use hybrid work models ⁴



... but how can we scale to meet the growing demand

1. The transformation imperative: Digital drivers in the Covid-19 pandemic, *The Economist Intelligence Unit, sponsored by Microsoft, 2021*

2. Top strategic technology trends for 2022: 12 trends shaping the future of digital business, Gartner, 2022

3. Positive Technologies. "Positive Technologies: Cybercriminals Can Penetrate 93% of Local Company Networks, and Trigger 71% of Events Deemed 'Unacceptable' for Their Businesses." *Positive Technologies - Vulnerability Assessment, Compliance Management and Threat Analysis Solutions, Positive Technologies, 20th Dec. 2021*

4. "19 Important Hybrid Working Statistics to Know Now (2022)." Apollo Technical LLC, 17th Aug. 2022

Cloud transformational challenges

Data Security + Regulation compliance

- Ensuring data protection, a privacy.
- Managing access control an encryption

Downtime and Disruptions

- Minimizing disruptions during migration
- Avoid downtimes that impact operations

Integration Issues

- Seamless integration with on-prem
- Compatibility with legacy apps



Cost Management

- Cost optimization with cloud services
- Monitoring and controlling expenses.

Skill GAP

- Acquiring the skill for cloud.
- Training existing or hiring staff

Reliability and redundancy

- Ensure the HA and reliability of cloud
- Implementing effective backup and DR strategies

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02

Unlocking the puzzle with a real case

- ✓ Understanding the challenges
- ✓ Transformation Journey
- ✓ Migration strategy
- ✓ Benefits and outcomes

The largest cloud migration ever, entrusted to Amdocs

The largest telecommunications company in the world, headquartered in North America, (provider of mobile, wireline, internet and TV with 120M+ subs) needed to exit its data centers by a hard deadline in order to close the sale of these data centers to Microsoft Azure , and become a public cloud-oriented company

Business Needs

- Focus IT on 5G growth and core telco business
- Consolidate data center infrastructure & operations
- Make business faster and more agile using public cloud capabilities
- Reduce costs and improve operations

Workload Classification

Amdocs assessed and scoped the appropriate cloud migration strategy for key applications in the telco's portfolio, following cloud-native principles. Our two key classifications for application transformation were Optimization and Modernization.



200+ non-Amdocs apps migrated



Rapid ramp-up of a 300+ strong team



Develop reusable best practices through DevOps Automation

Key Classifications

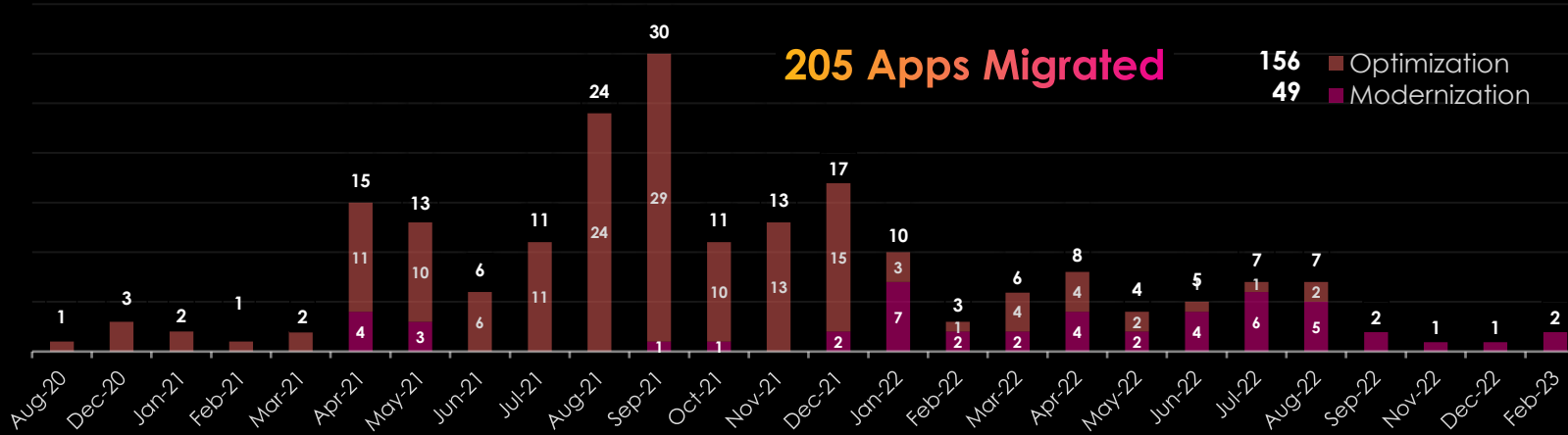
Optimization



Modernization

>200 Applications Transformed

NA Tier 1 - Journey & Roadmap



Q1 2020

Deal signed with for Cloud optimization project

Q2 2020

Team Ramp up initiated across delivery Units

Q3 2020

Quick Ramp up Delivery unit Expansion

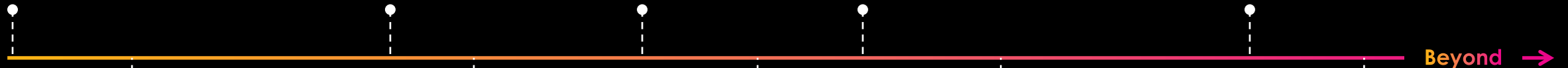
Q2 2021

GSI with **Most apps migrated in Jun 2021.**
Met or exceed commitment for last six months

Target FY2022-23

Modernization Application Migration

Factory Maturity Model to Improve Maturity of Standardized Factory



- Leadership visit to Amdocs India
- Dallas and Hyderabad Bootcamp
- Engagement Model

Active engagement with Customer and Microsoft

- Modernization **assessments** started for 20 applications

Set-up Architecture Practice

Modernization

- First set of Modernization applications migrated

Q1-Q2 2021

- 40 Applications Migration Acceptance Testing completed
- 60 Cutover to Azure completed

70+ Modernization assessments completed

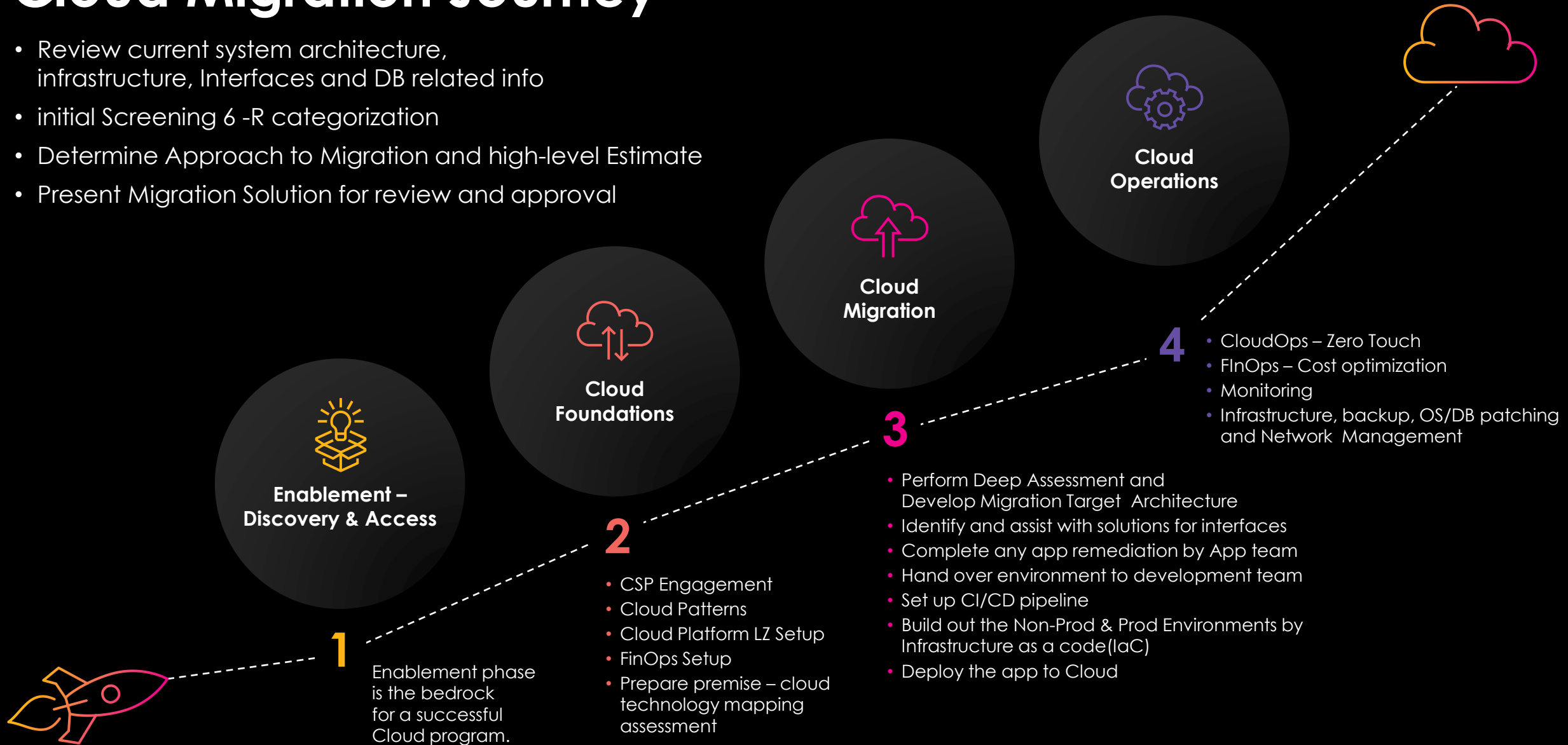
Q4 2021

- Modernization and in collaboration with External Vendors

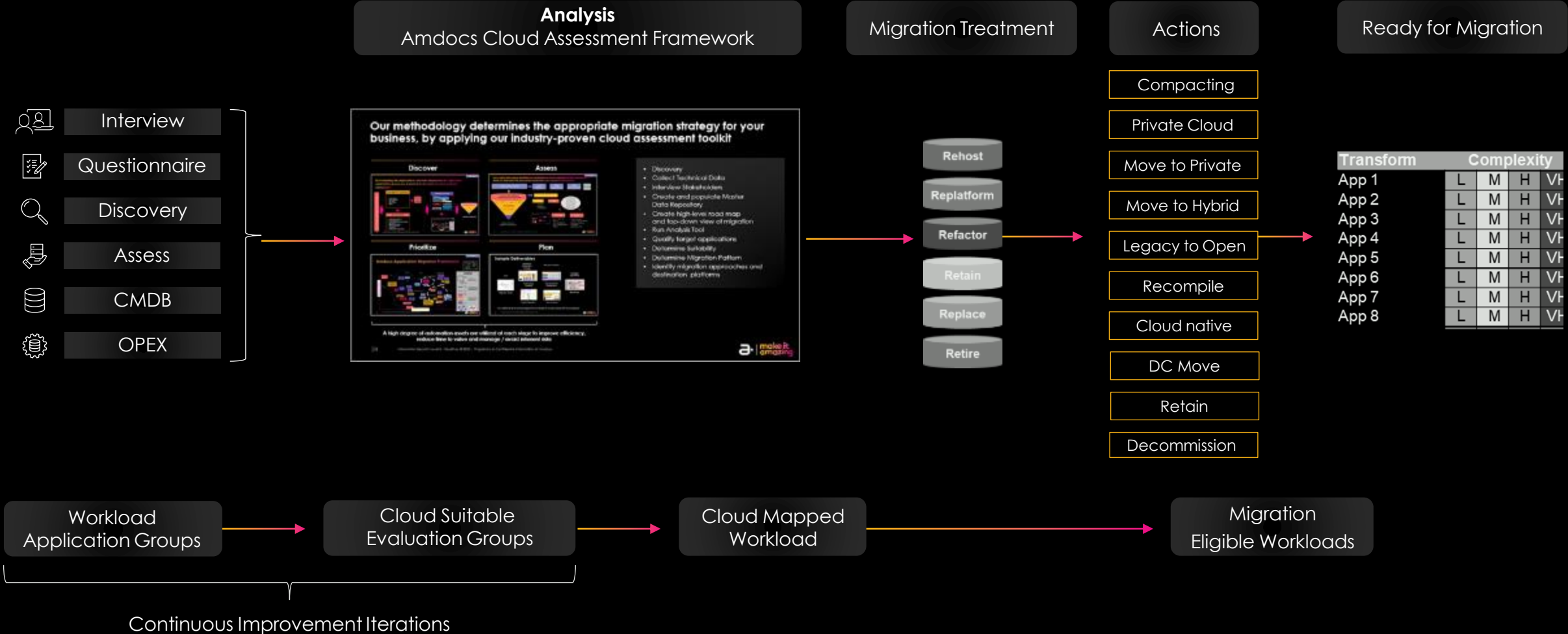
Mainframe Modernization

Cloud Migration Journey

- Review current system architecture, infrastructure, Interfaces and DB related info
- initial Screening & -R categorization
- Determine Approach to Migration and high-level Estimate
- Present Migration Solution for review and approval



Enablement – Discovery Phase



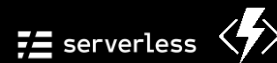
Application Migration Key Considerations



**Container based
deployments
PaaS over IaaS**



**Recode applications
by utilizing cloud
native services**



**Application
Re-Design
Serverless**



**Technology
Replacements**



**CI/CD Automation
Inventory Updates**



**Operational
Considerations
Training Considerations**

Key accomplishments

Early

exit from data centres,
ahead of deadline

200+

applications migrated

20%

operational cost reduction

Standardized upgrades to
an **agreed target
application stack**

Everything as code:

Infra as Code,
CI/CD Pipeline,
Operation as Code

3rd party apps and tech,
**eliminating licensing with
open-source tools**



Holistic Cloud Perspective



Value of Cloud



Business agility

Deploying new software faster and reducing errors

47%

50%

IDC

Amdocs



Operational resilience

Improving SLAs and reducing unplanned outage

- Decrease in incidents
- Decrease in MTR

32%

12%



Productivity

Efficiency improvement by function on a task-by-task basis, server configuration time

13%

16%



Cost Savings

Infrastructure cost savings

8%

22%



Amdocs delivers a variety of cloud engagements very successfully

Charter COMMUNICATIONS



astro PLDT

Tier 1 NAM
Telco

Singtel

altice



NTT



Cloud Native dev

25% increase in new feature development
80% decrease in non-development labor
20 minute code to live
Microservices factory

Lift & Shift to public cloud

10% cost optimization YoY
45% of total applications on cloud
50% Less test environment costs
65% Improvement in defect management
25PB of Content routed on cloud

DC Consolidation & rehost

Data center consolidation & closure
622/4000 workloads move to public cloud
Refactoring of monolith to revise

Data transformation of cloud

Deployment of Amdocs data hub on Google Cloud,
• Google Big Query
• Leverage aLDM data model

Cloud Strategy & journey plans

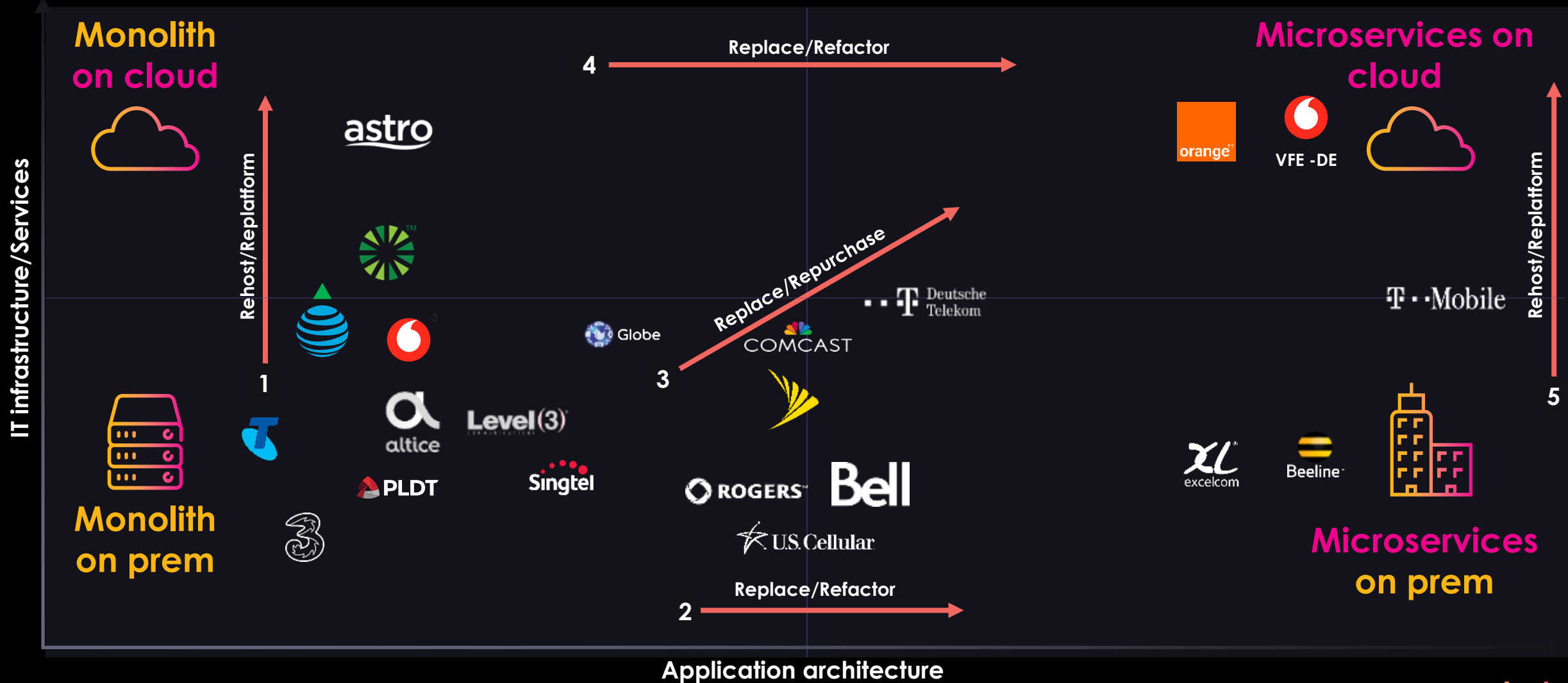
Establish a center of excellence CCoE and communities of practice for Enterprise

Analysis of a mission-critical application architecture
Formulated prioritized cloud migration strategy



Quadrant model with operators with varying Cloud strategies

Mode 1 - Legacy
Mode 2 - NextGen



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03

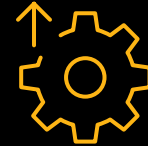
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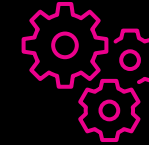
Elite Cloud Performance **looks like..**



You are delivering a constant stream of value to your customers.



Your return on investment is continually increasing.



Your employees have a consistent workload and are high levels of satisfaction.

All improvements can be associated to a measurable outcome:

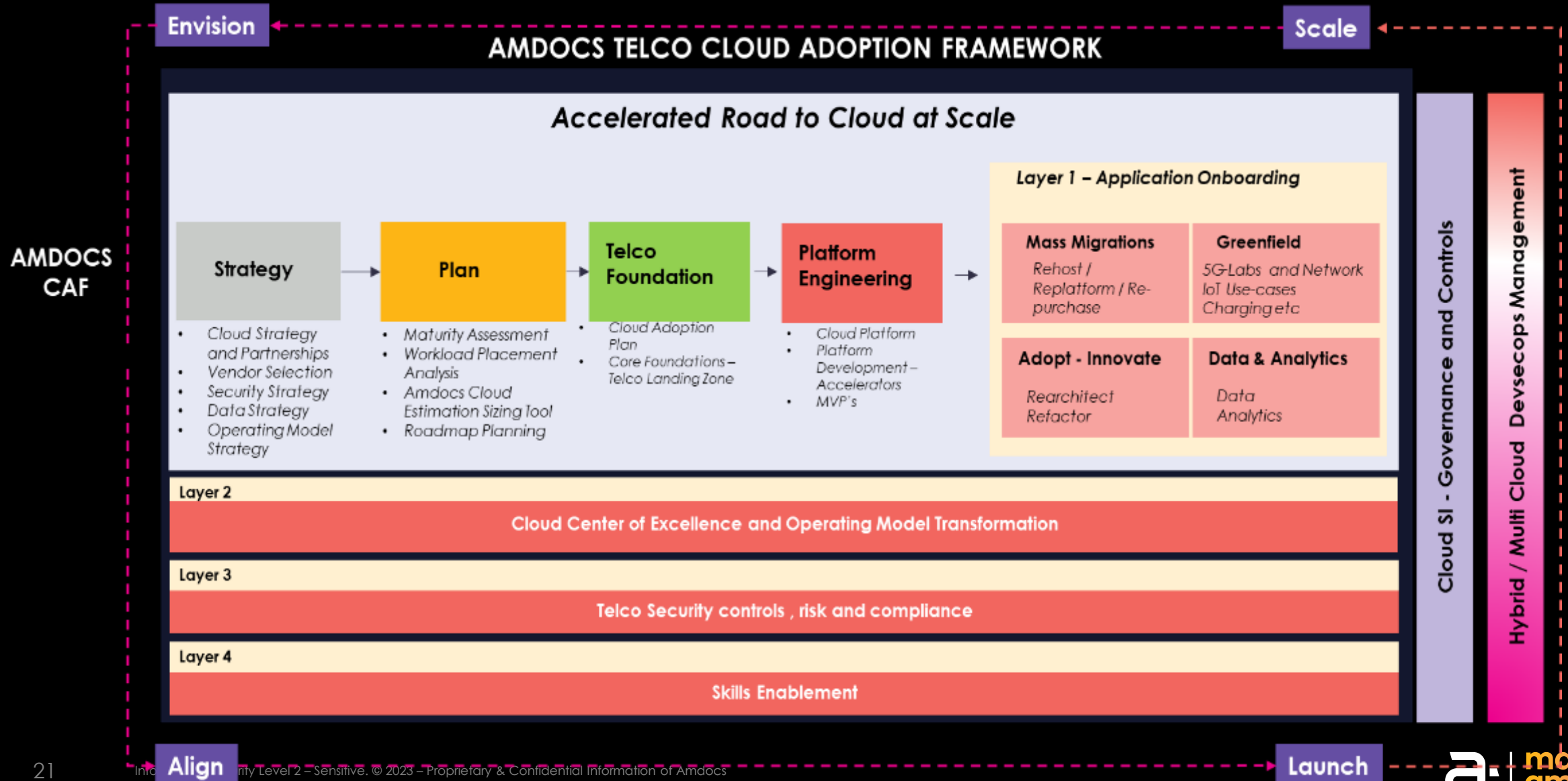
Deployment Frequency

Lead Time for Changes

Change Failure Rate

Mean Time to Recovery

Amdocs Telco Cloud Adoption Framework



Unlocking the puzzle

Amdocs has services and solution to support with your challenges

Cost optimization areas 

Long Term Savings 

Challenges

Solutions

Data Security +
Regulation compliance



Risk of data leaving the company and security challenges and regulation

Use cloud-native features to improve security and select a cloud provider that adheres to your local and regional regulations.



Downtime and
Disruptions



Minimize downtime during go live of the applications and migrations

During deployment, it is important to conduct thorough testing and staging in different environments and implement a rollback procedure.



Integration



Seamless integrations and complexity of interconnecting cloud applications with the on-premise legacy.

Conduct an integration analysis before migration and on develop a scale migration plan identifying dependencies.



Cost Management



Controlling expenses and focus on the current utilization of services.

Use cloud monitoring solutions to track consumption and develop a FinOps methodology by detecting unused resources.



Skill GAP



Acquire new cloud skill by develop this new skill in house or hire new talent.

Build your skill plan for the cloud. Use the first project with the support of Amdocs to acquire this new knowledge



Reliability and
redundancy



Meet the SLA, DR and high availability that the company requires. On the correct time

Create architectures leveraging the hyperscaler region to achieve redundancy and meet the business SLAs



Thank You

