



# Journey to Telco-TechCo

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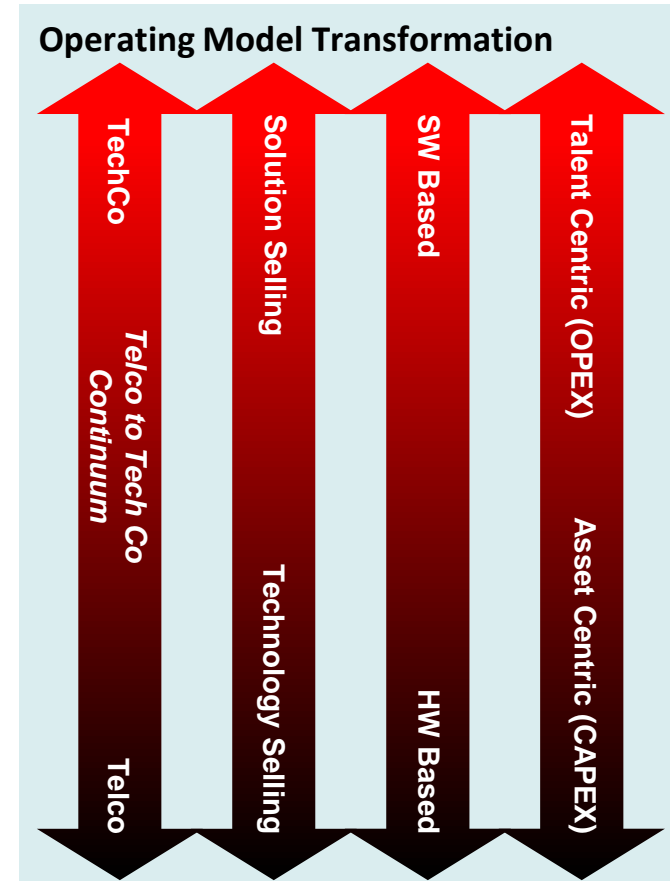
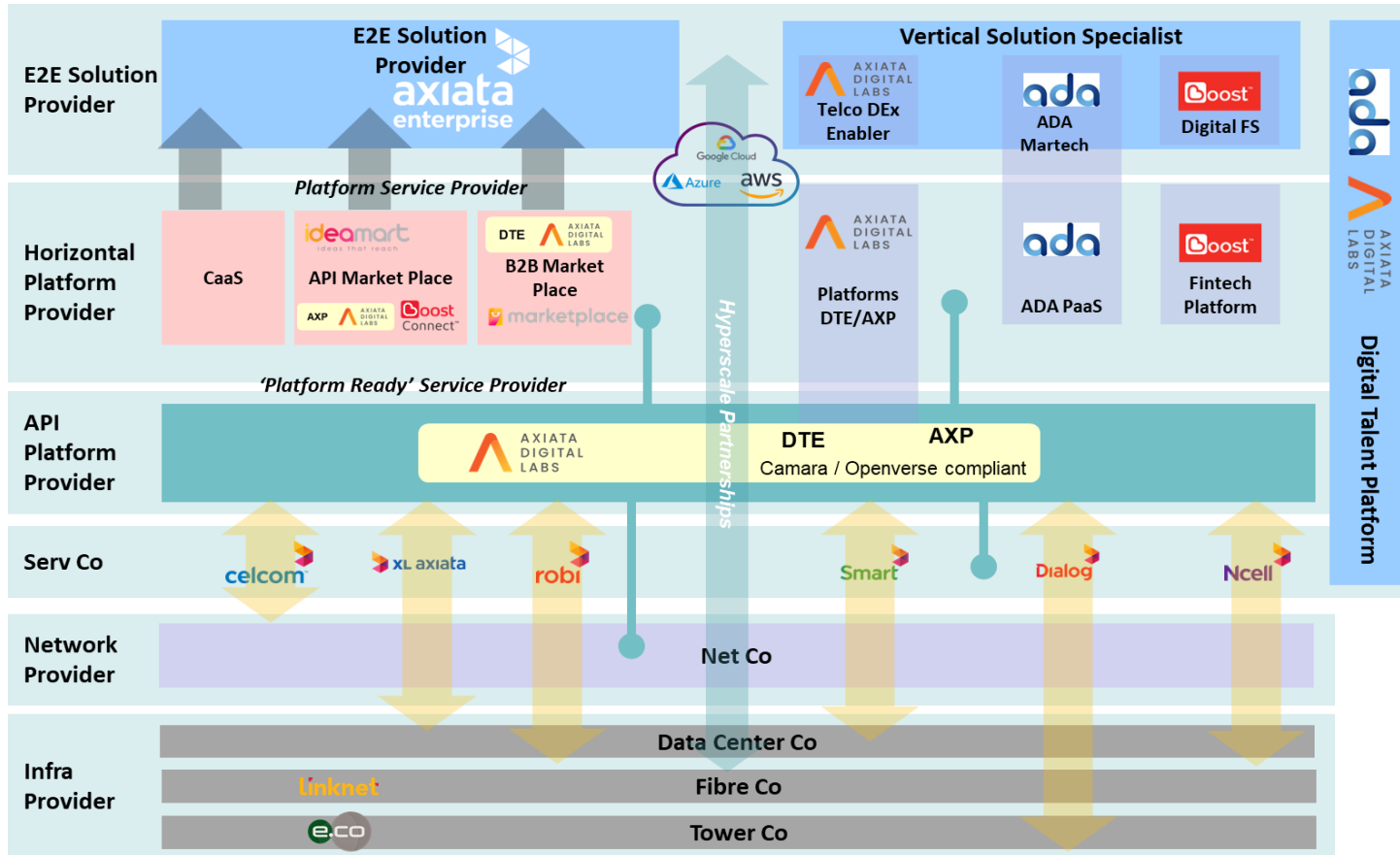


# Axiata's Journey From Telco to Telco-TechCo is designed to address Short Term and Long Term Shareholder Value Creation.



# Axiata's TechCo Canvas depicts a Journey from a Telco to Telco-TechCo - an Evolution rather than a Step Change. Axiata's evolution evidenced since 2013 - Pre-Dating "Buzz Words" of TechCo & Delayering.

Recap from AAID 2022: Telco-TechCo Strategy Canvas – Axiata level view

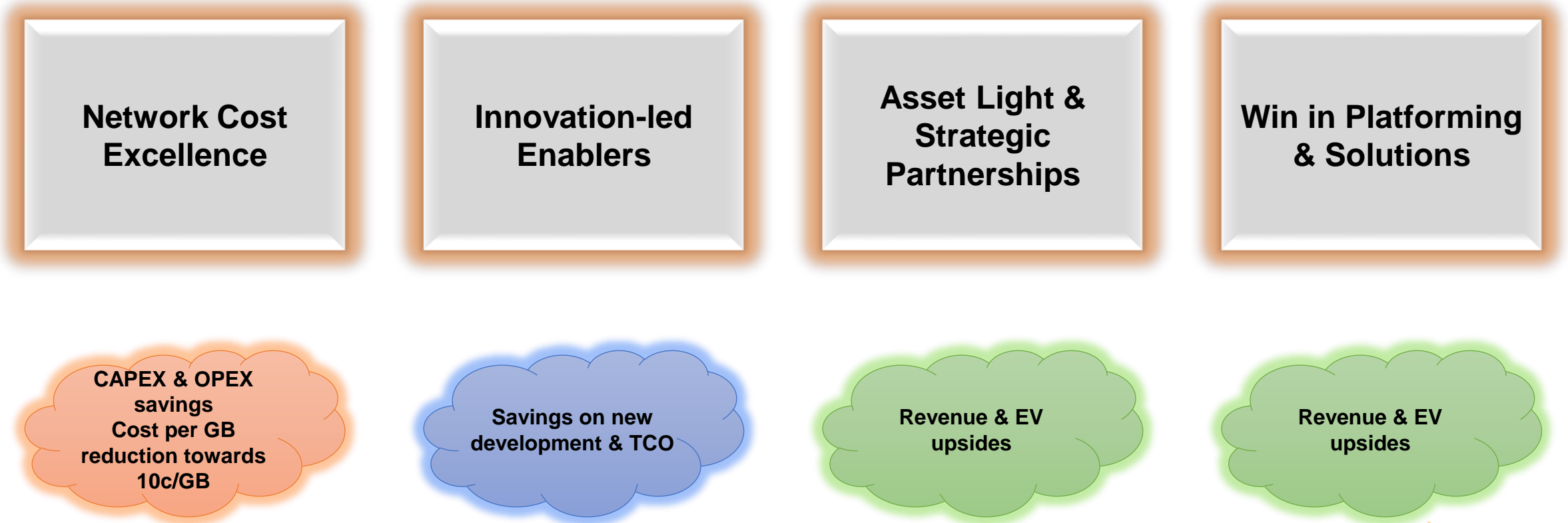


- Priority Drivers**
- TCO – CAPEX & OPEX
  - IT & SW Transformation @ Core
  - Partners & Ecosystems
  - Digital Talent
  - De-Layer X-Cos
  - Asset Light

**Telco-TechCo is an Evolution of a Pure (Legacy) Telco which Retains the Fundamental Core Strength of "Connectivity", embracing TechCo Principles to deliver Higher Returns on Capital and spawn New Growth Frontiers.**

# Axiata's "Journey to Telco-TechCo" will arrest CAPEX escalation, lead to lower cost to serve and create valuation upside to deliver its financial aspirations.

## Key Blocks of Axiata's Telco-TechCo Journey



# Key Network initiatives will lead to material cumulative CAPEX savings by 2026.

## 5G

- Network readiness for NSA
- Formulate spectrum strategy
- Develop use cases roadmap
- New services – Video, gaming, FWA etc.
- Material reduction of Cost per GB

## Architecture Simplification

- Fiberization
- DC consolidation
- Virtualization, legacy removal etc.
- Future CAPEX and OPEX reduction in transport and core domains

## Cloud Core

- Gradually implementing Cloud Native 5G SA Convergent Core
- New services – enterprise etc.
- Fixed mobile convergence
- Improved customer experience
- Reduce time to market
- Significant reduction of Core cost to serve anticipated

## Autonomous Network

- Develop a framework
- Implement AI/ML based control loop automation
- Use cases-based implementation – SON, Energy efficiency
- Reduced time to market
- Material TCO savings per use case

## Open Networks

- Open RAN
- Open Optical Networks
- Open Disaggregated Routers
- Adopt to open networking architecture
- 3-4 years maturity time still

## Network Sharing

- RAN network sharing for 4G and 5G
- Fiber and infra sharing
- Material CAPEX & OPEX reduction

## Arrest OPEX

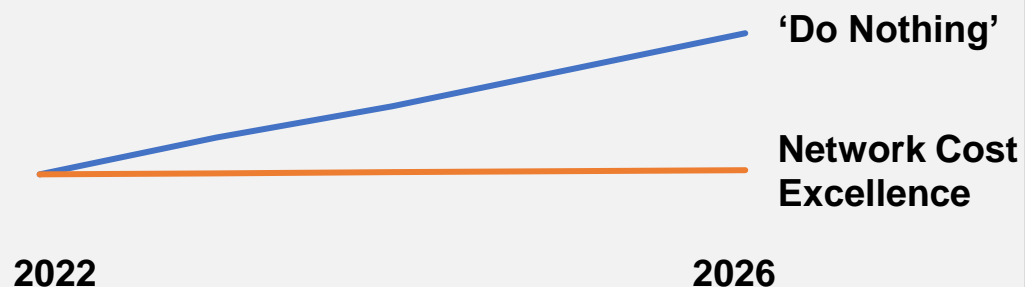
- Outdoorization
- Solar
- Network modernization
- OPEX escalation at max ½ of revenue growth

## Vendor Strategy

- Improve CAPEX efficiency through vendor footprint review and new Procurement approach

**Network Cost Excellence initiatives will enable Digital Telco OpCos to keep Network CAPEX flat, instead of growing rapidly in the coming years. Financial impact included in forecasted underlying performance.**

**Axiata Digital Telco' CAPEX Forecast**





- In a 'Do Nothing' scenario, Mobile Network CAPEX would increase by >20% by 2026.
- Transformation strategies will reduce CAPEX intensity to below 20%.

**Axiata Data Margin Development – 10c/GB by 2025 still a key Target**

	Q1 21	Q2 23	
Revenue / GB (USD)	0.28	0.147	ARPU increase: ~8%
Cost / GB (USD)	0.27	0.135	Traffic increase: 50%
			Cost reduction: 19%

Data margin remains flat. Savings from network cost optimization mitigated by lower ARPU vs traffic growth.

			
ARPU (USD)	10.6	2.3	AGB's comparably high CAPEX intensity a function of low ARPU market structures.
GB / Subs	12	9	
CAPEX intensity (%)	18%	25%	



# IT Transformation to create foundation of Telco-TechCo.

## IT Transformation is at the heart of the TechCo Journey

- **API First Architecture** – Software at the Core
- **Asset Light**, Inhouse Control of Software
- **Radical IT OPEX and CAPEX Reduction**
- **Step Change in Agility and Speed to Market**
- **Ignite Platform Play, Cloud Solutions and Growth**

## Transformation Drivers & Axiata Proof Points

- **Architecture Innovation**: Axiata among top 3 Telcos running on TMForum ODA
- **Talent & Capacity**: 1400 Software engineers @ Axiata Digital Labs
- **Proven Platform Play**: 70,000 external developers using platform
- **Ways of Work**: Data Driven → AI/ML Drive → AI Factory
- **OPEX and CAPEX Reduction** of 40% → 2019-2022

## Accelerating forward, building on Tech Platform & Talent Pool

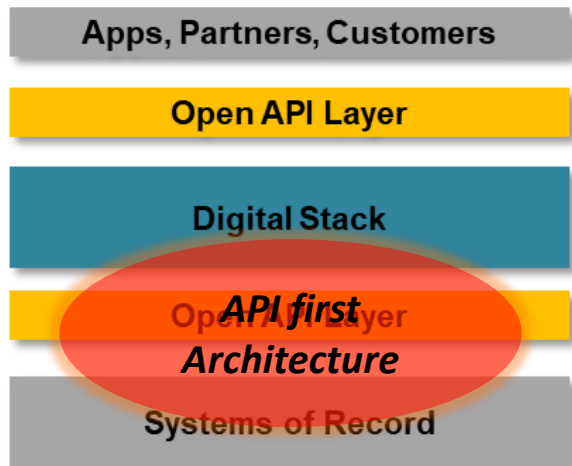
- **IT Cost/Rev < 3%**
- **Increased GTM velocity** via simplification and Platform use
- **Axonect DTE** as a globally accepted Digital Telco Middleware
- **AI Factory @ Scale** augmented by Generative AI
- **ADL the TechCo - Telco & Fintec Transformer & Cloud SI for Enterprise Solutions**



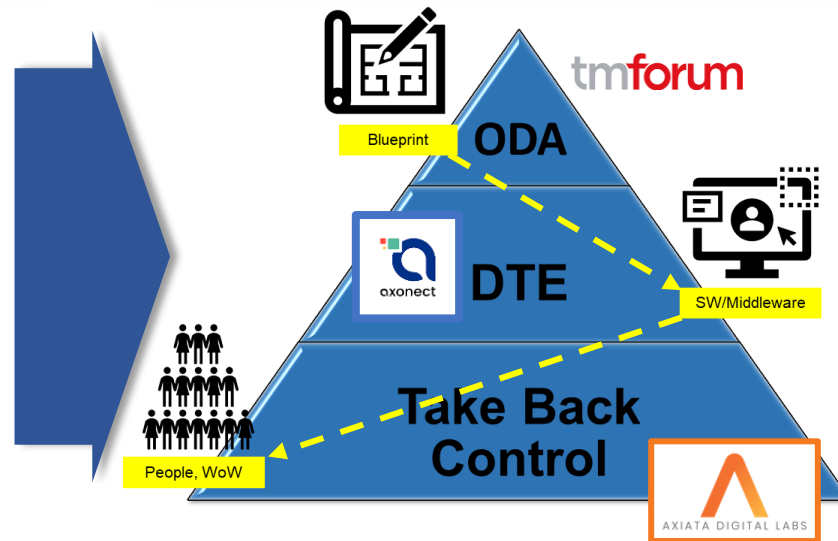
# IT Transformation to create foundation of Telco-TechCo.

Reducing IT cost by 40%, enabling agility and higher go to market velocity.

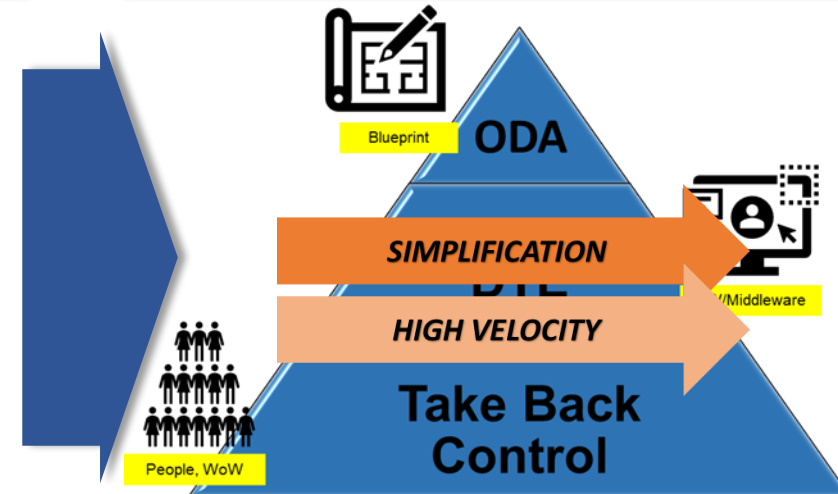
## 2019-2021 Design and Buildout



## 2022-2023 Operationalization at scale & ROI



## 2024-2025 Capturing Value from Platform



Embraced TMForum Open Digital Architecture (ODA)  
Take Back Control of SW Development

Developed own Telco Digital stack (DTE)  
ADL's 1400 strong SW Engineering Team  
AI Factory strategy execution

Velocity via DTE Platform and Cloud  
Impact from AI Factory  
Simplification and speed of GTM

IT stacks re-wired for ODA

Axiata among top Telcos for ODA

IT Cost/Rev <3%

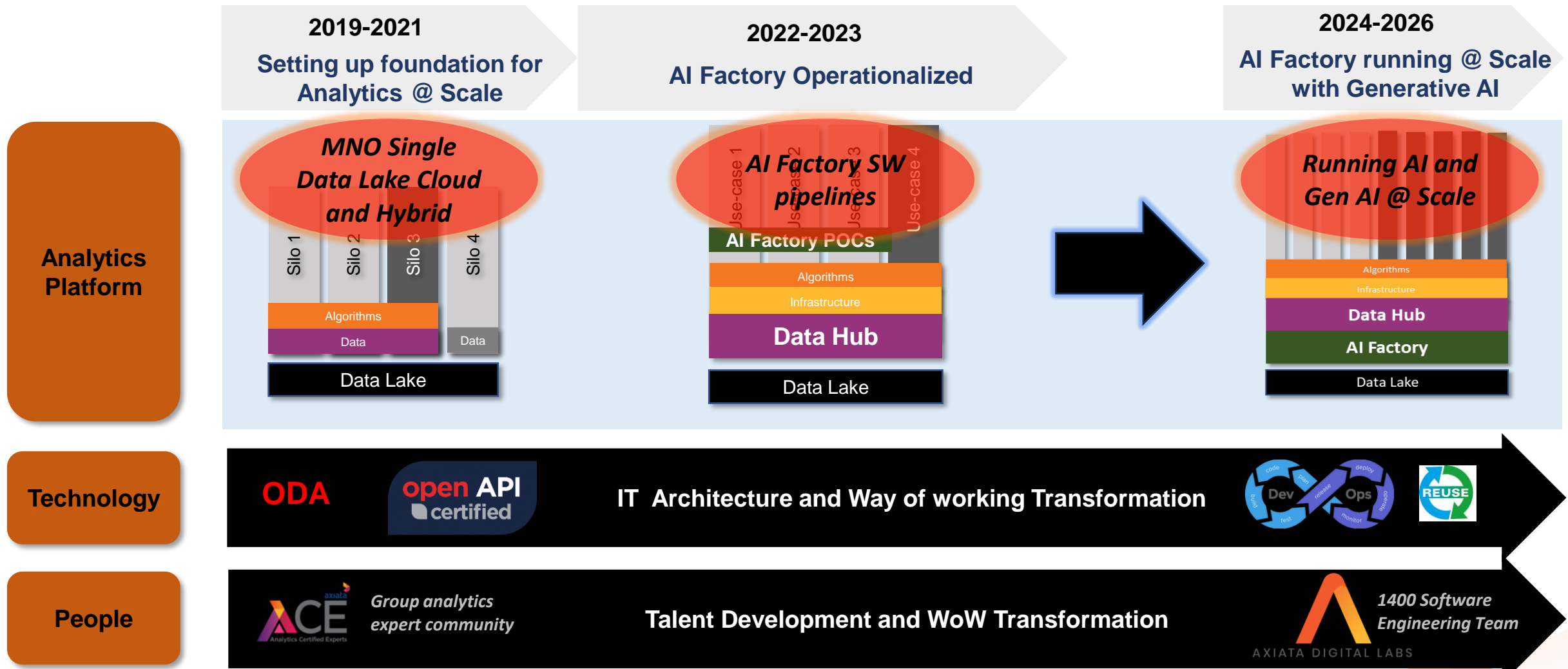
Building the Software Factory

40% IT cost reduction, 2X GTM speed

Increased Velocity in GTM/Agility

# Evolution of Axiata analytics to an AI Factory.

Transformation of analytics platform, IT stack and people to support the journey.



# ADL's 1400 strong software engineering team and DTE the digital telco platform powering the TechCo journey of Axiata.

ADL's strong SW engineering team taking back control of Software @ Axiata



ADL's Axonect DTE - The Digital Telco Platform powering Telco's ServCo and API business

**Axonect Digital Transformation Enabler**

- API Management Suite
- Marketplace Application
- Test Automation Framework
- Connectors, Adaptors and Brokers
- AI Enablers Framework
- Microservice Platform
- Dev-Ops CI/CD Automation
- Add-On Manager
- Low Code IDE (Templates with Polyglot Support)
- DevSecOps Extensions
- N-to-N Security, Governance and Compliance

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Friday 3 November, 2023

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**CSG and Axiata Digital Labs Announce Co-Collaboration to Deliver Enterprise Digital Marketplace**

May 3, 2021 at 4:27 AM GMT+8

Single platform marketplace introduces new monetisation opportunities and optimises new service delivery for CSPs

Brisbane, Australia -- (News Direct via Newsfile Corp. - May 2, 2021)--(Newsfile Corp. - May 2, 2021) - CSG\* (NASDAQ: CSGS) today announced it is working with Axiata Digital Labs (ADL), to create a joint innovation initiative for an open API digital marketplace that will enable rapid time to market for enterprise offerings. The co-collaboration integrates CSG's

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**Axiata Group Among First Three Telcos Globally to Achieve TM Forum's 'Running on ODA' Status**

**Kuala Lumpur, 14 October 2022** - Axiata Group Berhad ("Axiata" or "the Group"), one of Asia's leading telco groups serving over 163 million subscribers, announced today that that it had been named by the TM Forum as one of the first three telcos globally to earn 'Running on ODA' status. This award recognises Axiata's architectural shift to the status of an agile Digital Telco driven by its success in building a Telco Operations framework based on TM Forum's Open Digital Architecture ("ODA") standards across operating entities in multiple Asian markets.

Thank you