

2.0

Riyadh, June 9, 2021

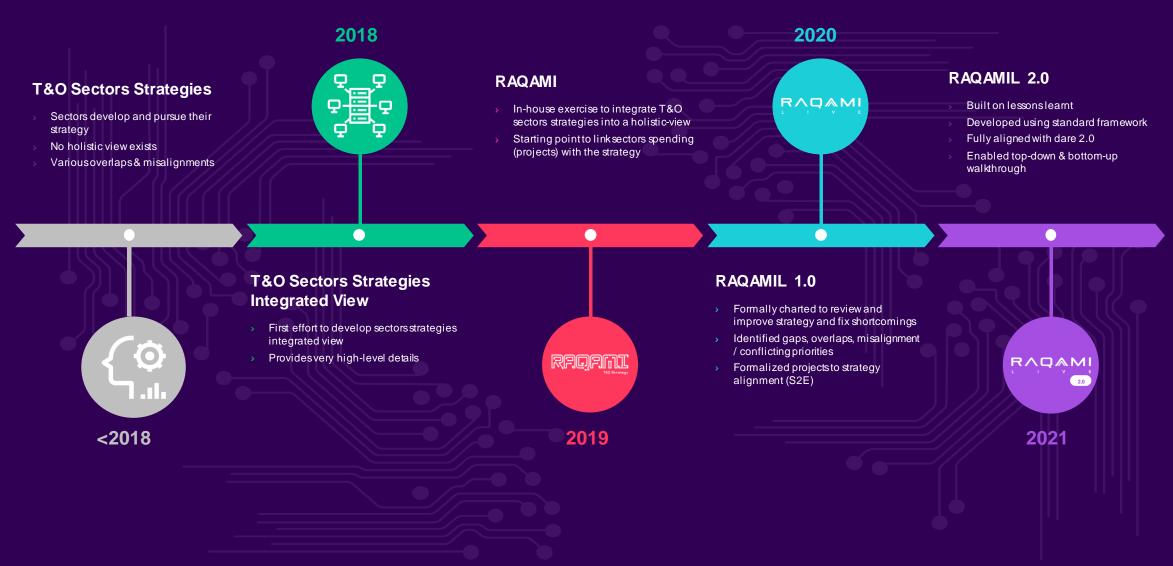




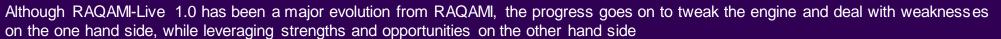
## **RAQAMI-Live Flashback**

T&O strategy development is an evolutionary process. It is **a journey** to develop an integrated technology strategy to provide a holistic view of technology priorities and spending plan.





## **RAQAMI-Live Flashback**





# STRENGTH

- Well established T&O technology strategy
- Solid alignment with dare, trends, internal and external drivers
- Clear view on strategic objectives & initiatives
- Clearly defined and agreed programs & KPI's
- Basis for a reporting dashboard on program level
- Baseline for sector scorecards

# EAKNESS

- Yet another view on T&O programs: RAQAMIL, S2E, PMB, SP, Key Focus Projects, etc.)
- Not serving as a real blanket to absorb all T&O activities
- No full segregation of programs on a domain level
- Absence of benefit realization

# PPORTUNITY

- Unification of all program views within T&O with RAQAMI-Live as the only baseline
- Blanket to cater for all T&O activities & related financials
- Multi-usage of RAQAMI-Live as a basis for S2E, PMB, SP & portfolio management
- Segregated & straight-forward programs and KPI's
- Introduction of benefit management

# HREAT

- Long cycle of alignment with multiple stakeholders
- Efforts related to the rearrangement & setup of on-the-ground programs within T&O
- Demarcation & categorization might not reach 100%, yet great is better than good
- Crafting & concretizing benefits and mappings to objectives and KPI's



## **RAQAMI-Live 2.0 Ambitions**





# The 6 C's Ambitions of RAQAMI 2.0

## Completeness



"Blanket for all T&O activities"

## Concreteness



"Entailing concrete T&O programs"

## Convergence



"One baseline instead of many (S2E, RAQAMI-L, PMB, etc.)"

## Comprehensiveness



"Clear starting point, analysis, recommendations & roadmaps"

## Coherence



"Technical & financial mapping of projects and programs"

## Convertibility



"Straight conversion of objectives into **benefits** & KPI's"



## **RAQAMI-Live 2.0 Purpose**

RAQAMI-Live 2.0 is aiming at being a strategic, budgeting and execution vehicle at the same time to ensure one baseline and one view throughout the value chain from strategy to execution



# **Strategy**

Covering the appropriate initiatives & actions, forming stc's technology strategy



**RAQAMI-Live 2.0 must** be the common **Denominator & Enabler** of all Gears!

## **RAQAMI-Live 2.0 Rationale?**

In order to live up to the promise of being ONE vehicle for multiple purposes, RAQAMI-Live 2.0 is crafted as a combination of a Top-Down and a Bottom-Up view connecting strategic and visionary ambitions with trends and realities on the ground...





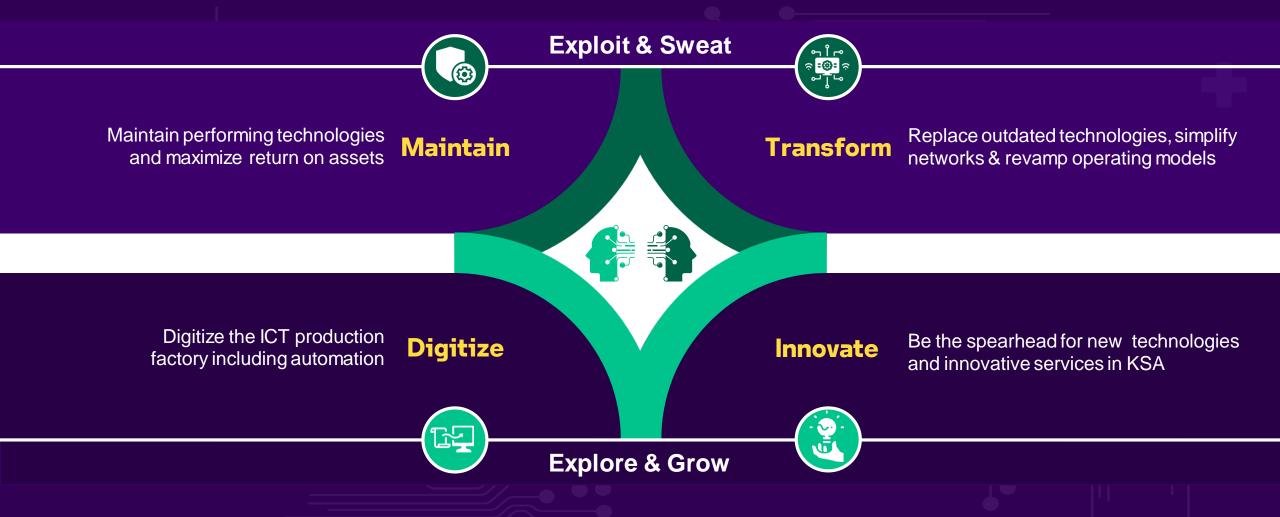




## **RAQAMI-Live 2.0 Mantra?**





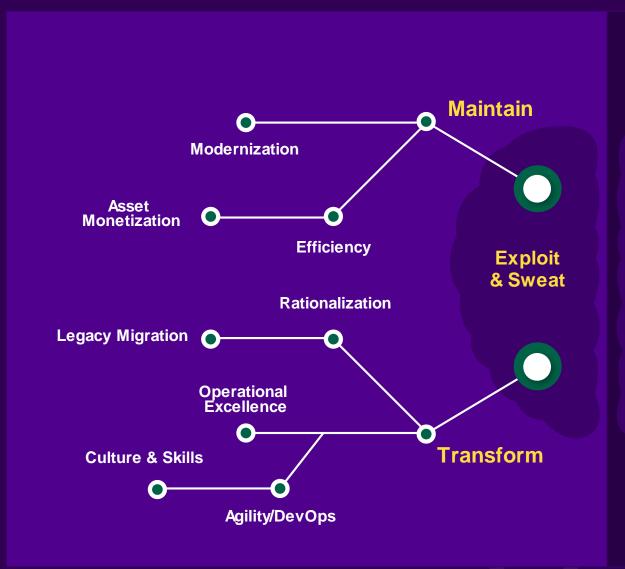


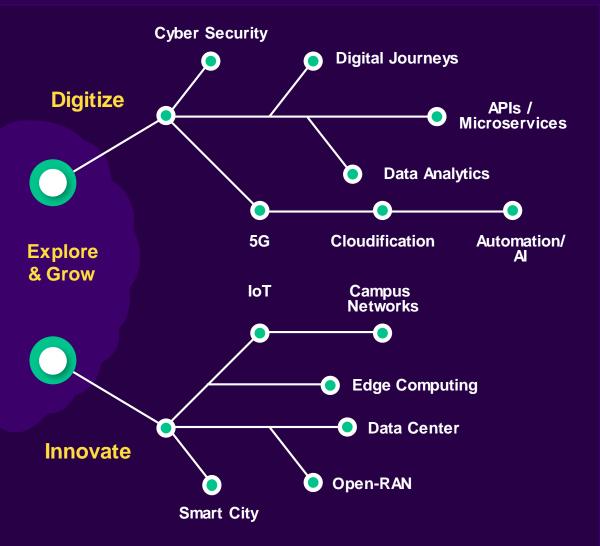


# Strategy "Sweet Spots"?

The exploitation and exploration spheres of the technology strategy entail several focus areas with high relevance to stc and that will be incubated in different RAQAMI-Live 2.0 programs







## Transition from 1.0 to 2.0

From a RAQAMI-Live structural perspective, one of the major adjustments in RAQAMI-Live 2.0 are the benefits related to every program to extend those from KPI's driven to benefit driven objects...



 $R \wedge Q \wedge MI$ 

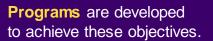
Each imperative describes strategic objectives to be achieved.



Strategic Imperatives



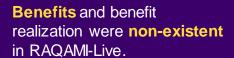
Strategic Objectives





**Programs** 





Each program has KPI's to track it progress & performance.



Program KPIs





Strategic Imperatives



Strategic Objectives

are derived from dare 2.0 and technology domain strategies.

Imperatives & Objectives



**Programs** 

**Programs** are crafted to achieve strategic objectives.



**Benefits** 

**Benefits** are introduced to concretize value realization through programs



**Program KPIs** 

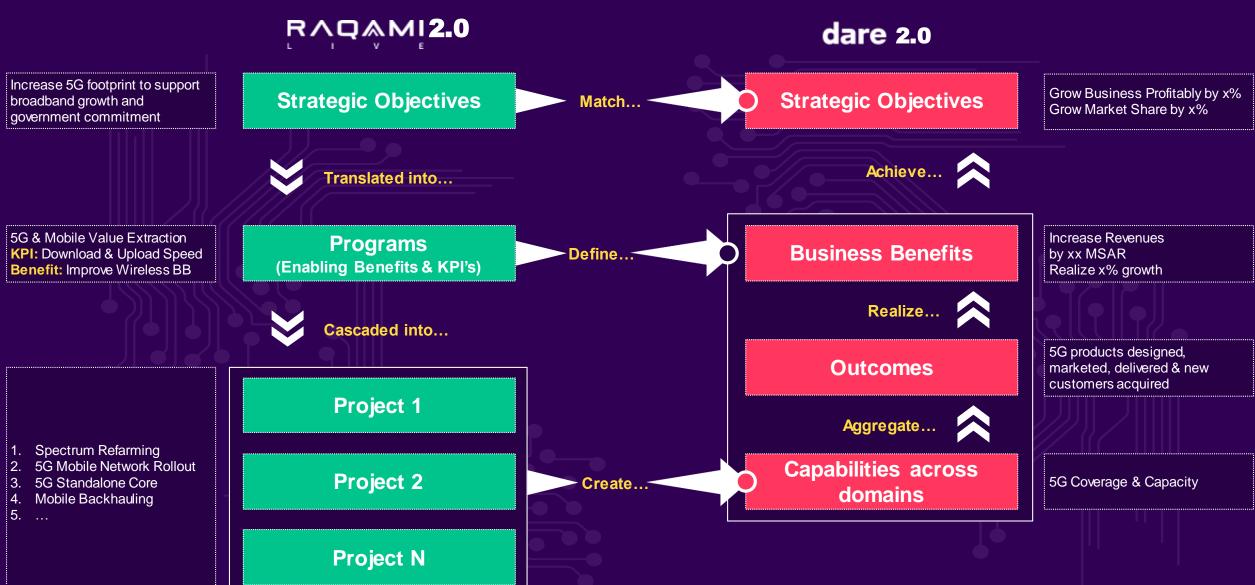
Program KPI's are to track program **progress** and operations **performance**.



## Benefits' Introduction

...while it is essential to have clear links between RAQAMI-Live 2.0 and dare2.0 layers connecting all dots and ensuring coherence

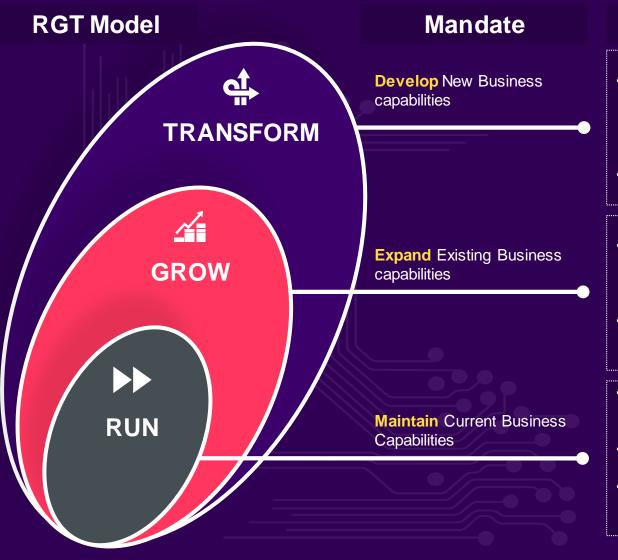




## **RAQAMI-Live 2.0 Activity Categorization**

In addition to benefits' introduction, RAQAMI-Live 2.0 program will be categorized along the RGT model in order to facilitate creating insights into where T&O efforts are spent and investments are made





## **Best Practices**

- How much resources are aimed at implementing capabilities that enable the enterprise to address new markets / new customer segments / new value propositions and revamp the status-quo
- This is a high-risk, high-reward category
- How much resources are focused on developing and enhancing capabilities in support of business growth (typically organic growth)
- It extends existing capabilities, deliver differentiation and provide competitiveness
- Often called Business-As-Usual (BAU), Keeping-the-Lights On (KLO) or "sustaining" spending.
- How much resources are focused on the everyday operation of the business.
- Does not directly increase revenue or achieve new company goals, but maintains running core business

## CTIO Focus

Align with business and best practices to support transformation activities.

Enable appropriate capabilities to captures opportunities for growth.

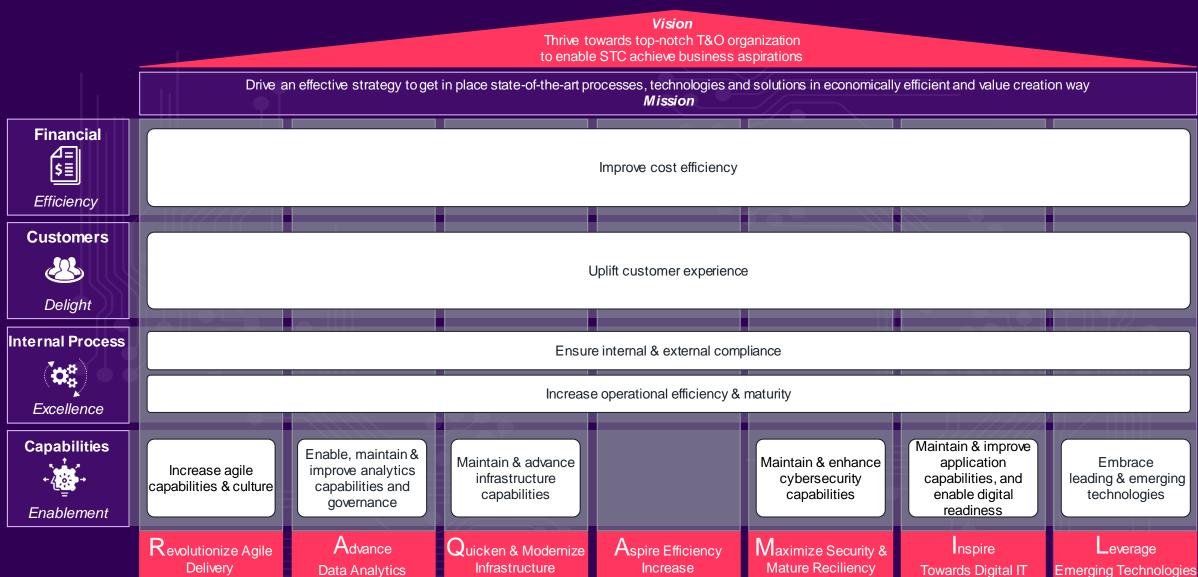
Continue operation of the business at nondiscretionary or fixed expenses.



## **RAQAMI-Live 2.0 Strategy House**

T&O strategy house describes strategic imperatives & objectives relationship across different perspectives



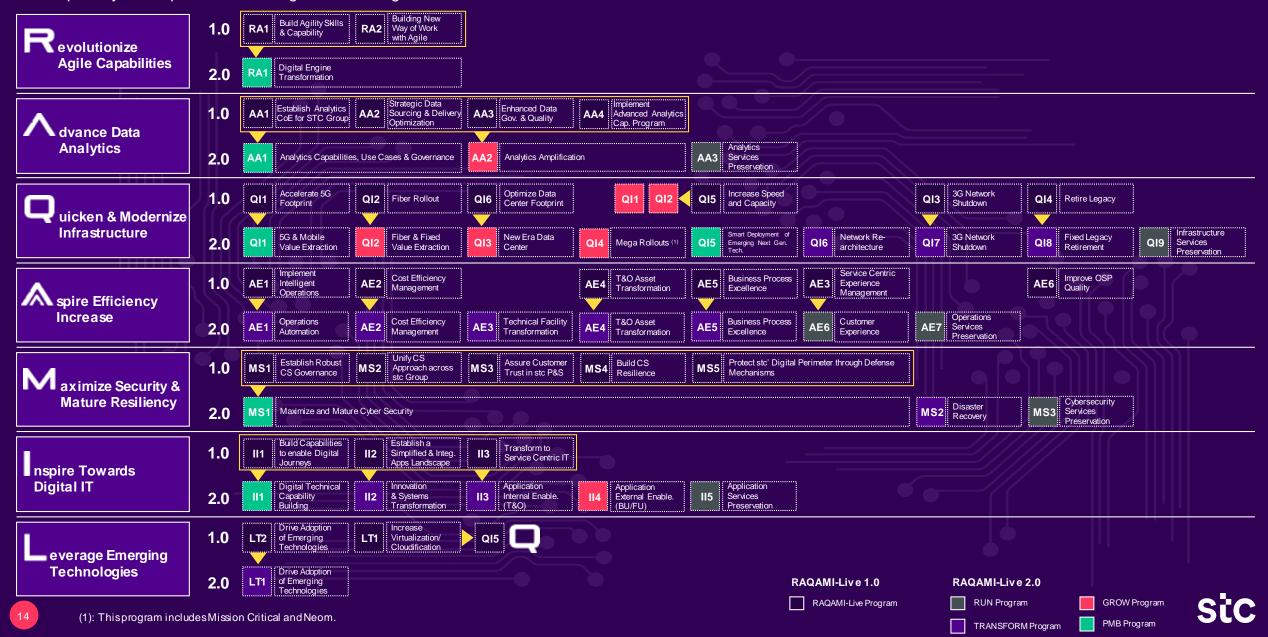




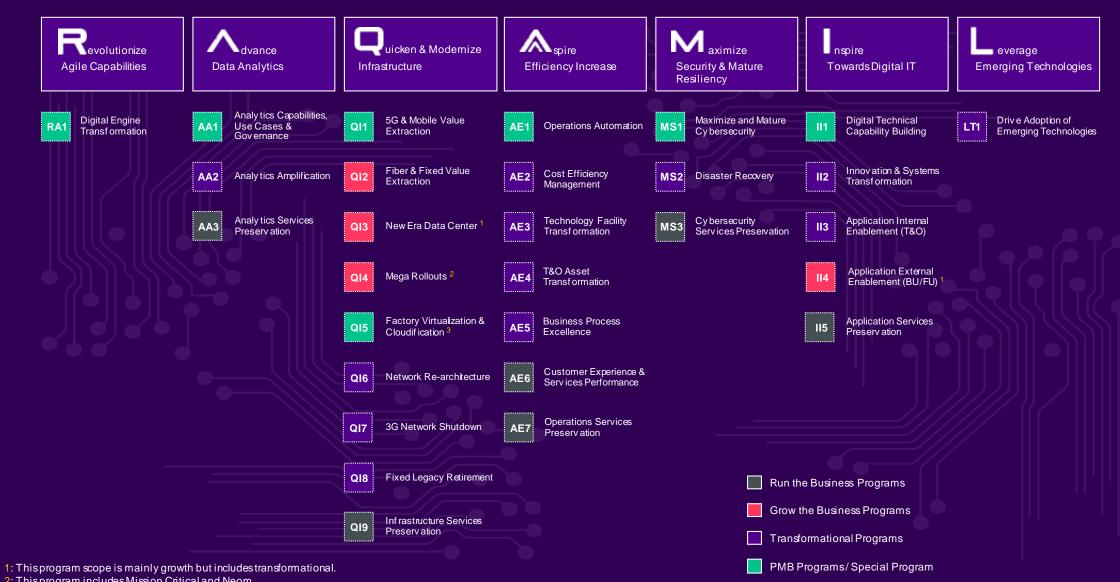
## **Programs' Evolution from 1.0 to 2.0?**

As a result of all the adjustments aiming at achieving the ambitions associated with RAQAMI-Live 2.0, the program landscape has been partially revamped while allowing a smooth migration from RAQAMI-Live 1.0





## **RAQAMI-Live 2.0 Program Landscape**



<sup>2:</sup> This program includes Mission Critical and Neom.

<sup>3:</sup> Equivalent of "Smart Deployment of Emerging Next Generation Technology" PMB program

## RAQAMI-Live 2.0 Program Highlights





#### **RA1: Digital Engine Transformation**

To introduce Agile softw are development lifecycle, DevOps practices, and supporting tools to increase T&O ability to deliver changes with higher velocity, automate testing, security checks and deployment, coach leadership and talent on new ways of working.

## AA1: Analytics Capabilities, Use Cases & Governance

To make stc a data-driven organization and enable the execution of the DARE strategy by building the required analytical, artificial intelligence, and data governance capabilities and enhance the end-to-end engagement model.

#### **AA2: Analytics Amplification**

To amplify analytics reach and impact by expanding its existing analytical & artificial intelligence capabilities, level of business integration and use cases.

#### **AA3: Analytics Services Preservation**

To standardize and optimize analytics demand ecosystems; and ensure faster service delivery from collection to preparation of data.

## uicken and Modernize Infrastructure

#### QI1: 5G & Mobile Value Extraction

To increase 5G footprint to support 5G grow th and government commitment. Infrastructure expansion to meet mobile services business grow th.

#### QI4: Mega Rollouts

To build a dedicated stand-alone infrastructure for mission critical services and provide mobile coverage and services to Neom to fulfill commitment to the government and enable business growth.

#### ollouts QI7: 3G Network Shutdown

To leverage better spectral efficiency with 4G/5G replacing 3G/2G for improved user experience and greater return on investment through network simplification

#### Ql2: Fiber & Fixed Value Extraction



#### QI5: Smart Deployment of Emerging Nex Generation Technology

To enable business automation and agility through Virtualization and Cloudification of network and Π stacks. Deliver any service anywhere in a fraction of the time required today in more cost-effective way.

### **QI8: Fixed Legacy Migration**

To migrate and retire copper circuits with overlapping fiber coverage for better customer experience and operating costs.

#### QI3: New Era Data Center

To host stc critical services and enterprise customer needs in Data center readiness.

### QI6: Network Re-architecture

To improve network services and achieve efficient operation though network re-architecture.

## QI9: Infrastructure Services Preservation

To replace end of support infrastructure assets and essential initiatives to preserve services.

## dvance Data Analytics

uicken and Modernize Infrastructure











## **RAQAMI-Live 2.0 Program Highlights**





## spire Efficiency Increase

#### **AE1: Operations Automation**

To enhance digital operating model and tools with the objective of optimizing operations. It includes automation, modernization and intelligent operations and innovation among others.

#### **AE2: Cost Efficiency Management**

To improve resource utilization by identifying OPEX and Capex savings.

#### **AE3: Technical Facility Transformation**

To improve and transform technological aspects and the overall efficiency of technical facilities, buildings and general technical infrastructure and equipment.

#### **AE4: T&O Asset Transformation**

Lifecycle from planning-to-disposal. Enhance visibility, reduce risks, identify gaps covering all Technology Assets deployed across KSA including Telecom, Hardware and Software

# AE6: Customer Experience

To improve customer experience and increase the consumption of digital services trough the implementation of capabilities, platforms, QoS, speed and capacity.

To effectively manage Technology Assets

#### **AE5: Business Process Excellence**

To improve operations in T&O trough processes reengineering, harmonization and digitalization.

**AE7: Operations Services Preservation** 

To run and support trough impacting projects,

such as renovations, repairs, network maintenance and operational tools

enhancement.

#### MS1: Maximize and Mature Cybersecurity

To make stc a leader in cybersecurity and the MENA center of excellence; by cybersecurity capability creation, improvements and capacity expansion.

aximize Security & Mature Resiliency

## **MS2: Disaster Recovery**

To strengthen the capabilities of stc's ecosystem; to drive effective recovery in case of a disaster.

#### MS3: Cybersecurity Maintain & Retire

To deliver effective cybersecurity through monitoring, visibility and security control advancements.

aximize Security & Mature Resiliency

spire Efficiency Increase









PMB & TRANSFORM





## RAQAMI-Live 2.0 Program Highlights



## nspire towards Digital IT

#### **II1: Digital Technical Capability**

To develop digital technical capabilities based on the To-Be architecture and Business initiatives to enable digital journeys & partnering ecosystems; transform applications landscape.

#### II2: Innovation & Systems Transformation

To Introduce strategic innovations to the Applications transformation, review existing capabilities and enhance in alignment with the Digital Architecture Roadmap, add capabilities that indirectly enable delivery of key strategic objectives e.g., Cloudification, proactive service assurance etc.

#### II3: Application Internal Enablement (T&O)

To enable technology capabilities demand requested by T&O sectors to develop (acquire, build, enhance, transform) technology capabilities.

## II4: Application External Enablement (BU/FU)

To enable business capabilities demand requested by BU's/FU's (that is not covered in "Digital Technical Capability Building" program) to support "Transform" and "Grow" agenda.

## **II5: Application Services Preservation**

To replace end of support IT assets, softw are and hardware new/upgrades, licenses renewal, and managed services, etc. to run & maintain the services

## LT1: Drive Adoption of Emerging Technologies

To perform PoC and trials of emerging technologies to determine effective adoption in stc technology landscape.

nspire towards Digital IT

everage Emerging Technologies









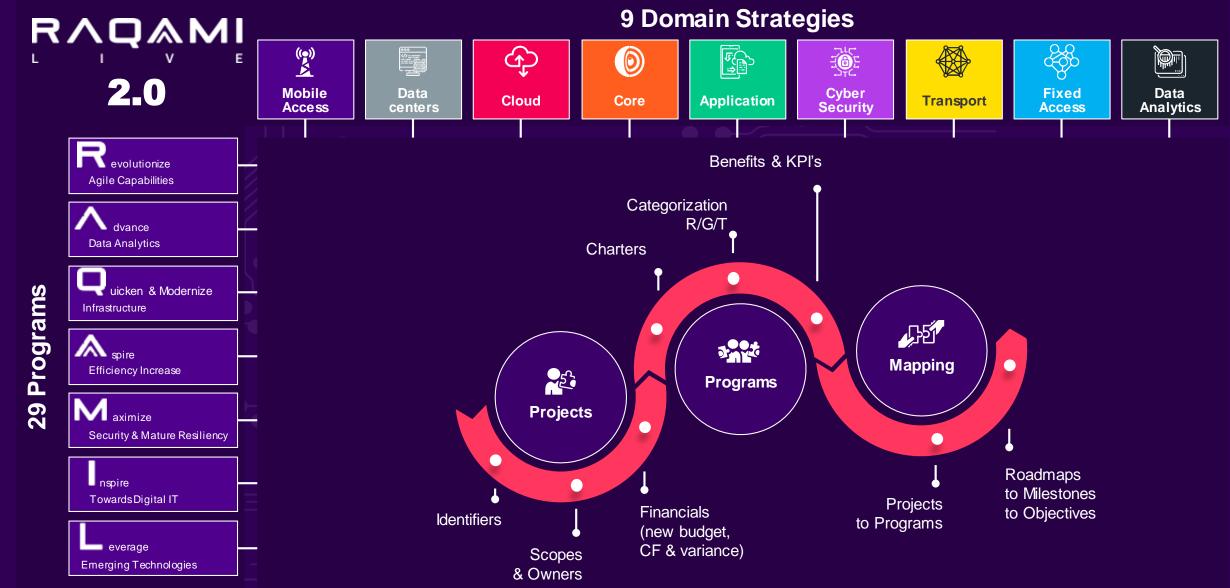
PMB & TRANSFORM



## **Domain and Program Linkage**

Domain strategies and RAQAMI-Live 2.0 imperatives are intertwined through several components from programs to projects...

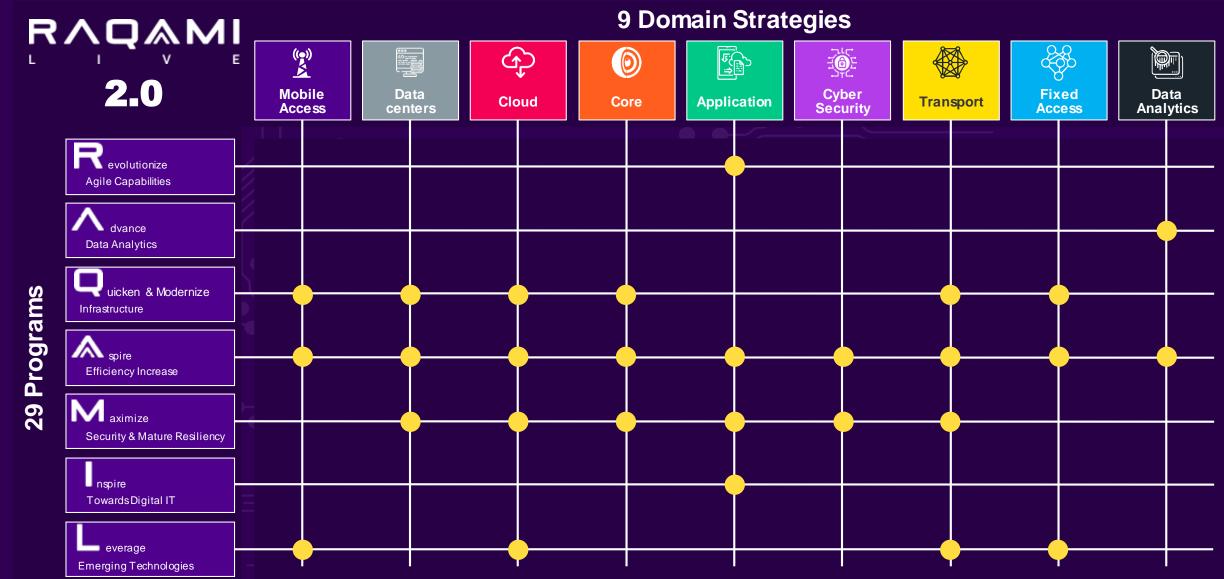




# **Domain and Program Linkage**

...allowing a one to one mapping between these two dimensions...

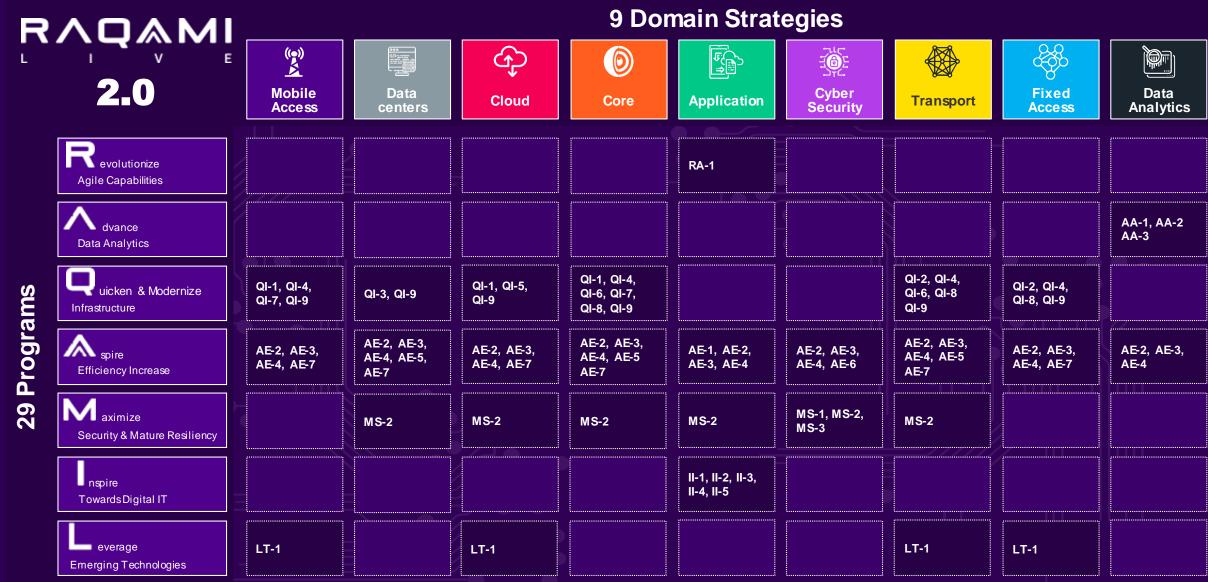




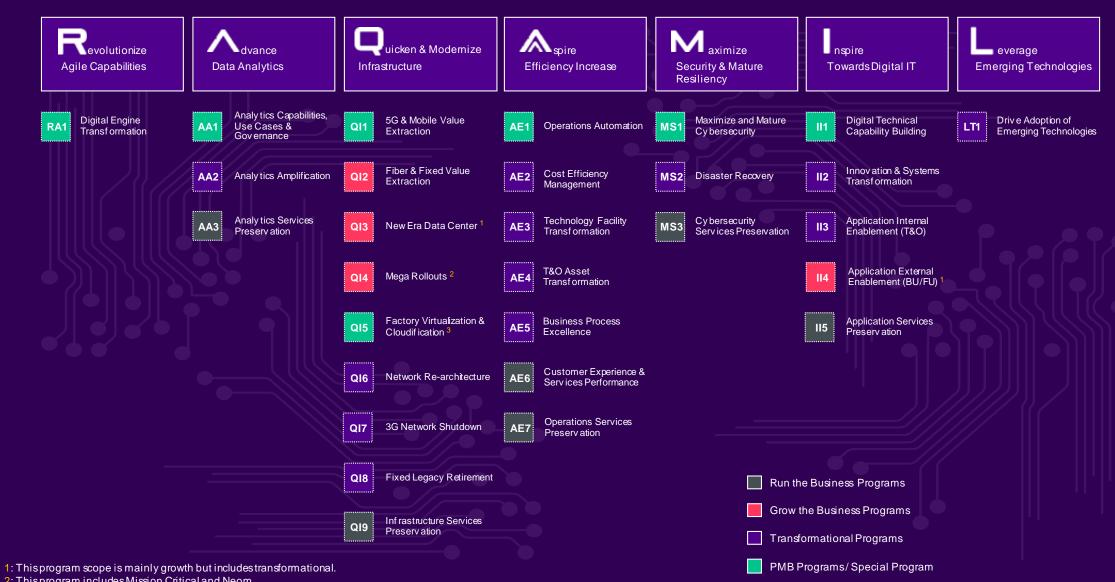
# **Domain and Program Linkage**

...down to programs underneath the imperatives





## **RAQAMI-Live 2.0 Program Landscape**



<sup>2:</sup> This program includes Mission Critical and Neom.

<sup>3:</sup> Equivalent of "Smart Deployment of Emerging Next Generation Technology" PMB program

# Description



Stakeholders

To introduce Agile software development lifecycle, DevOps practices, and supporting tools to increase T&O ability to deliver changes with higher velocity, automate testing, security checks and deployment, coach leadership and talent on new ways of working. Build cross-functional teams around selected value streams, and create

• Agile people development

Agile workenvironment and tools

Yazeed A. Alfaris **Applications VP** 

Owner

## **Cross-Functional Contributors**

- TSA VP, CAD VP, Infrastructure VP, Cybersecurity VP, Operations VP
- B2C (CBU) VP, B2B (EBU) VP
- Procurement VP, Business Finance VP, People
- Relevant vendors VP

# Key Performance Indicators (KPIs)

and assign agile delivery roles and responsibilities.

SN	Name	Туре	Weight	2020A	2021	2022	2023
RA1-1	# of agile coached resources	Cumulative YTD	15%	125	200	372	480
RA1-2	# of resources per relevant GD mapped to agile roles	Cumulative YTD	10%	36	60	112	145
RA1-3	# of scrum teams created to deliver business values through the new way of working	Cumulative YTD	25%	3	5	12	16
RA1-4	# of applications on boarded through DevOps framework	Cumulative YTD	25%	4	7	18	23
RA1-5	# of user stories per 90-day cycle, per relevant value stream, delivered through new ways of working	Absolute	25%	64	83	107	140





#### **Growth Enablement**

1. Increased productivity



#### **Speed and Agility**

- 1. Increased development's speed
- 2. Improved agile capability

# AA1: Analytics Capabilities, Use Cases & Governance

To make stc data-driven organization and enable the execution of the DARE strategy by building the required analytical, artificial intelligence, and data governance capabilities and enhance the end-to-end engagement model.



## Key Components

- Al & analytics capability building
- To-be-architecture and roadmap
- self-service
- analytical foundational capabilities
- Data protection
- Data quality
- Analytics training and knowledge sharing



## Jamal A. Alshahri

CAD VP

Owner

#### **Cross-Functional Contributors**

- CBU VP. EBU VPs.
- Business Development VP
- People VP, Procurement VP, Business Finance VP
- TSA VP, Infrastructure VP, Cybersecurity VP, Operations VP, Applications VP



## Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
AA1-1	# of completed capabilities implementation aligned with Northstar to-be architecture analytics roadmap	Cumulative YTD	30%	10	5	5	5
AA1-2	# of use cases unlocked by capability deployment / sourcing	Cumulative YTD	10%	20	20	25	25
AA1-3	# of developed advanced analytics use cases and Digital Transformation use cases	Cumulative YTD	20%	49	24	24	23
AA1-4	# self-service capability enabled for BU/FU	Cumulative YTD	10%	18	6	5	5
AA1-5	% of managed Data Protection Gaps	Cumulative YTD	10%	58%	27%	5%	5%
AA1-6	# of systems added in data quality index covering customer journeys	Cumulative YTD	10%	40	8	8	8
AA1-7	# of conducted training & knowledge sharing sessions for stc employees	Cumulative YTD	10%	6	8	7	7





#### **Efficiency**

1. Improved visibility for better decision making



## **Speed and Agility**

1. Improved analytics resources competencies



## **Quality and experience**

- 1. Improved self-service capabilities for faster insights generation
- 2. Improved data quality



#### **Growth Enablement**

1. Increased analytics use cases



## Risk Management

1. Improved data protection



# **AA2: Analytics Amplification**





# Key Components

Stakeholders

To amplify analytics reach and impact by expanding its existing analytical & artificial intelligence capabilities, level of business integration and use

- Established analytical capabilities capacity expansion
- Use cases expansion

Jamal A. Alshahri CAD VP

Owner

**Cross-Functional Contributors** 

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# Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
AA2-1	# of analytics streams (event types) increased (cumulative)	Cumulative	25%	30	45	60	75
AA2-2	mSAR potential value creation via analytics-based use cases	Cumulative	25%	834	940	1046 <sup>2</sup>	1152 <sup>2</sup>
AA2-3	# of analyticspartners/vendors managed & assessed for R&D	Cumulative	25%	5	10	15	20
AA2-4	% of technology enablement based on use cases implemented & subsidiaries served	Cumulative	25%	50%	66%	83%	100%
AA2-5	% of ACoE future operating model implementation – (on-hold until 2022)	Cumulative		10%	10%	60%	100%
AA2-6	# of fully governed ML Models deployed in MLOps (cumulative) – (On-hold until 2022)	Cumulative		0	0	10	16





#### Efficiency

1. Increased productivity



#### **Growth Enablement**

1. Increased analytics use cases



<sup>1:</sup> Indicated by TS team, subject to change during next refresh cycle.

<sup>2:</sup> Subject to change based on budget approvals, digital transformation plans and design thinking workshops outcomes.

# **AA3: Analytics Services Preservation**





# Key Components

Stakeholders

To standardize and optimize analytics demand ecosystems; and ensure faster service delivery from collection to preparation of data.

- Data governance and stewardship
- Data quality enablement
- Demand and delivery optimization
- BI tools & Analytics unification and rationalization

Jamal A. Alshahri CAD VP

Owner

**Cross-Functional Contributors** 

Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
AA3-1	% of Data Governance enforcement	Cumulative	15%	35%	58%	81%	100%
AA3-2	% of Data Stewardship enforcement	Cumulative	30%	81%	90%	92%	95%
AA3-3	% of Data & Analytics Quality enforcement	Cumulative	25%	0%	42%	60%	78%
AA3-4	% Unification of analytics demand channel based on defined milestones	Cumulative	10%	70%	100%	100%	100%
AA3-5	% of Data delivery optimization	Cumulative	10%	32%	56%	82%	100%
AA3-6	# of defined corporate-level KPIs with full e2e lineage	Cumulative	10%	400	550	700	800



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#### Efficiency

1. Improved efficiency



#### **Quality and Experience**

- 1. Improved data governance and stewardship
- 2. Improved data quality



#### **Speed and Agility**

1. Increased delivery speed of data



## QI1: 5G & Mobile Value Extraction



## Key Components

Stakeholders

Increase 5G and 4G footprint to support growth and government commitment. Mobile backhaul, transport and core Infrastructure expansion that enables mobile services business needs.

- 5G
- Aspiration
- 4G
- · External mobile growth demand

Bader A. Allhieb

Owner

Infrastructure VP

#### **Cross-Functional Contributors**

- Infrastructure Implementation GM
- Infrastructure Design GM
- Infrastructure Planning GM
- · Cloud Infrastructure GM

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SN	Name	Туре	Weight	2020A	2021	2022	2023
QI1-1	5G Population Coverage (KSA)	Cumulative	20%	20%	32.1%	36.9% 1	38% 1
QI1-2	Cumulative 5 G Sites	Cumulative	20%	3973	5973	6873	7873
QI1-3	5G Band Created from LTE 2300	Absolute		0	0	0	40Mhz
QI1-4	5G Band Created from LTE 700 with EXTRA 10mHZ	Absolute		0	0	0	10Mhz
QI1-5	Deployed EPC SW Capacity (Gbps)	Cumulative	20%	3120	3380	3780	3780
QI1-6	Deployed 5G SA Core SW capacity (Mbps)	Cumulative				200	700
QI1-7	Transport Capacity of Mobile Network (Tbps)	Cumulative	20%	3.6	5.05	6.1	7.2
QI1-8	# of 5G Sites connected by fiber mobile backhaul	Cumulative	20%	3,857	5,825	6,071	7,571





#### Efficiency

1. Improved efficiency of spectrum usage



#### **Quality and experience**

1. Increased mobile service coverage



#### **Growth Enablement**

1. Improved capacity of infrastructure to sufficiently meet business needs' of mobile services



#### Risk Management

1. Improve compliance to regulatory requirements



## QI2: Fiber & Fixed Value Extraction



## Key Components

Stakeholders

Increase fiber coverage on households and commercial streets to support business growth and government commitment. Transport and core Infrastructure expansion that enables fix services business needs.

- Fiber Rollout
- Transport Expansion
- Core Expansion
- External fixed growth demand

## Bader A. Allhieb

Infrastructure VP

Owner

#### **Cross-Functional Contributors**

- Infrastructure Implementation GM
- Infrastructure Design GM
- Infrastructure Planning GM
- · Cloud Infrastructure GM

# Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
QI2-1	# of CBU FTTH new Homes Passed (Millions)	Cumulative		2.328	2.328	2.41	2.56
Q12-2	# of Commercial Street New Passed Units	Cumulative	10%	610	615	630	637
QI2-3	# of new EBU & WBU Key Account Sites P2P connectivity	Absolute	15%	784	554	450	450
QI2-4	# of Extended C band LD DWDM links	Absolute	15%	0	2	2	2
QI2-5	# of New DWDM/OTN Sitesfor Datacenter	Absolute	15%	4	5	5	8
QI2-6	Total Capacity of FBB pBNG (Tbps)	Cumulative	15%	3.4	4.6	4.6	6.8
Q12-7	MBB CGNAT "GI-FW" capacity (Tbps)	Cumulative	15%	2.3	4.5	5	5.5
Q12-8	Transport capacity in the Fixed Network (Tbps)	Cumulative	15%	4.6	5.5	6.8	8





#### **Quality and experience**

1. Increased fixed broadband speed



#### **Growth Enablement**

- 1. Improved capacity of infrastructure to sufficiently meet business needs' of fixed services
- 2. Increased fiber service coverage



## QI3: New Era Data Center





## © Key Components

**Stakeholders** 

Data center construction including electromechanical works, racks and cabling to host network function, applications and data for T&O and Mena Hub requirements. Putting into practice the use of modular and high-density data centers using sustainable energy. Migrate the critical services running in technical facilities with structural issues to tier 3 data centers.

- DC construction
- Electromechanical
- Racks and Cabling

#### Bader A. Allhieb

Infrastructure VP

Owner

#### **Cross-Functional Contributors**

- Infrastructure Implementation GM
- Infrastructure Design GM
- Infrastructure Planning GM
- Cloud Infrastructure GM

## Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
QI3-1	White space with Electromechanical ready for Mena Hub yearly forecast EM (POD / overall Shell)	Cumulative	70%	9/16	13/24	28 <sup>1</sup> /72	30 <sup>2</sup> /72
QI3-2	# of Installed racks for T&O yearly demand (Racks)	Absolute		450	0	1200 <sup>3</sup>	900 <sup>4</sup>
QI3-3	# of Installed racks for BU yearly demand (Racks)	Absolute	20%	0	150	600 <sup>3</sup>	0 <sup>5</sup>
QI3-4	Solar PV system installation in new DC buildings (Kilowatt)	Absolute	10%	0	0	TBD <sup>6</sup>	TBD





#### **Growth Enablement**

1. Improved capacity and scalability of infrastructure to sufficiently meet hosting needs of internal and external critical systems



## Risk Management

- 1. Reduced risks related to hosting critical services in technical facilities with structural issues
- 2. Improved compliance to regulatory requirements

- 1: 1 additional POD for T&O subject to be added based on management approval
- 2: 2 additional POD for T&O subject to budget approval. Additional demand could be added
- 3: 600 Part of Mena Hub program and the rest subject to budget approval
- 4: Subject to budget approval
- 5: No demand received in 2023
- 6: stc has committed to contribute 4.1 MW to be supplied by solar PV, Validation and ownership assignment is still work in progress, hence, TBD.

#### Notes:

Mena hub program includes all internal and external demand related to DC. Mena hub, equivalent RAQAMIL program is New Era DC. Application demand is not included in any T&O demand



# QI4: Mega Rollouts





# Key Components

Stakeholders

A program that facilitates an effective execution of mega projects and special requirements set forth by the government which enables stc business growth.

- · Mission Critical services hosting
- Neom Project

#### Bader A. Allhieb

Infrastructure VP

Owner

#### **Cross-Functional Contributors**

- Infrastructure Implementation GM
- Infrastructure Design GM
- Infrastructure Planning GM
- Cloud Infrastructure GM

## Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
QI4-1	# of Sitesintegrated to NEOM network	Absolute	100%	0	65	TBD	TBD
QI4-2	# of Users supported by Mission Critical LTE Network	Cumulative		0	0	400K	500K
QI4-3	# of Mobile access sites integrated to Mission Critical LTE Networkusing L800 coverage	Cumulative		0	0	5000	5000
QI4-4	# of Core sites integrated to Mission Critical LTE Network	Cumulative		0	0	4	5
QI4-5	% Completion of integration of Mission Critical LTE network to shared network operation center	Cumulative		0	0	100%	





Quality and Experience
1. Increased mobile service coverage



#### **Growth Enablement**

- 1. Improved capacity of infrastructure to sufficiently meet business needs' of mobile services
- 2. Improved capacity of infrastructure to sufficiently meet business needs' of fixed services



# QI5: Factory Virtualization & Cloudification

(Smart Deployment of Emerging Next Generation Technology PMB Program)



Key Components

**Stakeholders** 

Virtualization and Cloudification of network and IT stacks to enable business automation and agility to adapt to market and technology changes. Cloud unification with operating model that deliver services anywhere in a fraction of the time required today in more cost-effective way.

- Telco Virtualization and Cloudification
- Cloud Unification
- Cloud Operating Model
- Edge computing
- SD-WAN

#### Bader A. Allhieb

Infrastructure VP

**Owner** 

#### **Cross-Functional Contributors**

- Cloud Infrastructure GM
- Infrastructure Implementation GM
- Infrastructure Design GM
- Infrastructure Planning GM

## Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
QI5-1	# of Virtualized NetworkFunctionscarrying live traffic 3	Cumulative	20%	13	15	25 <sup>1</sup>	34
QI5-2	Virtualized commercial User Plane (UP) carried on Telco Cloud (Gbps)	Cumulative	20%	451	600	750	1250
QI5-3	Virtualized commercial Control Plane (CP) carried on Telco Cloud (Million Subs)	Cumulative	20%	1.3	3.6	8.0 <sup>2</sup>	11.0 <sup>1</sup>
QI5-4	Number of DC with IT container orchestration platforms capability	Cumulative		0	0	0	2
Q15-5	MEC use case PoCs	Cumulative	20%	3	4		
QI5-6	SD-WAN Platform	Cumulative	20%	0	1000	2000	





#### **Speed and Agility**

- 1. Improved agile capability
- 2. Improved scalability thru virtualization and cloudification



#### **Growth Enablement**

1. Improved capacity of infrastructure to sufficiently meet hosting needs of virtualized functions



2: Subject to virtual MME project implementation & projects.

3. As per internal agreement QI5-1 will be kept in RAQAMIL 2.0 but exclude in PMB



Note: Added here edge computing and SD-WAN to achieve close match with PMB Smart Deployment of Emerging Next Generation Technology (SND). 5G Standalone core that was previously under SND has been moved to 5G program.



## QI6: Network Re-architecture





Stakeholders

To improve network services and achieve efficient operation though network re-architecture.

- Fixed Network Re-architecture
- · Mobile Network Re-architecture
- Transport Network Re-architecture
- · Core Network Re-architecture

## Bader A. Allhieb

Infrastructure VP

Owner

#### **Cross-Functional Contributors**

- Infrastructure Implementation GM
- Infrastructure Design GM
- Infrastructure Planning GM
- Cloud Infrastructure GM

## Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
QI6-1	% of IBS areas with small cell	Cumulative	34%	0	5%	6% <sup>1</sup>	7% <sup>1</sup>
Q16-2	Sites with Cloud RAN Configuration	Cumulative		0	0	0	10
Q16-3	# of New IP MPLS Core Sites	Absolute	33%	0	2	2	6
Q16-4	# of New IGW Datacenter Gateway	Cumulative	33%	0	2	3	6





#### Efficiency

1. Increased efficiency



#### **Quality and experience**

- 1. Improved network coverage
- 2. Increased capacity



## Risk Management

1. Improved resiliency

<sup>1:</sup> Forecast from TS subject to change depending on the approved budget.

## QI6: Network Re-architecture



# ്രൂ് Key Components

Stakeholders

To improve network services and achieve efficient operation though network re-architecture.

- Fixed Network Re-architecture
- · Mobile Network Re-architecture
- Transport Network Re-architecture
- · Core Network Re-architecture

## Bader A. Allhieb

Infrastructure VP

Owner

#### **Cross-Functional Contributors**

- Infrastructure Implementation GM
- Infrastructure Design GM
- Infrastructure Planning GM
- Cloud Infrastructure GM

## Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
QI6-1	% of IBS areas with small cell	Cumulative	25%	0	5%	6% <sup>1</sup>	7%1
Q16-2	Small/Macro Ratio	Cumulative	25%	0	4%	5%	5%
Q16-3	Sites with Cloud RAN Configuration	Cumulative		0	0	0	10
Q16-4	# of New IP MPLS Core Sites	Absolute	25%	0	2	2	6
Q16-5	# of New IGW Datacenter Gateway	Cumulative	25%	0	2	3	6





#### Efficiency

1. Increased efficiency



#### **Quality and experience**

- 1. Improved network coverage
- 2. Increased capacity



## Risk Management

1. Improved resiliency



## QI7: 3G Network Shutdown



# Key Components

Stakeholders

To leverage better spectral efficiency with 4G/5G replacing 3G for improved user experience and greater return on investment through network simplification.

- LTE coverage expansion matching 3G
- 3G U900 sites migration

Bader A. Allhieb

Infrastructure VP

Owner

#### **Cross-Functional Contributors**

- Infrastructure Implementation GM
- Infrastructure Design GM
- Infrastructure Planning GM

## Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
Q17-1	% of LTE Coverage Ratio Matching 3G <sup>1</sup>	Cumulative	80%	95.8%	95.9%	100%1	100%
Q17-2	# of 3G U900 sites migration <sup>1</sup>	Absolute	0%	0	0	2775	0
Q17-3	HSS-FE IMS license capacity (m users) <sup>2</sup>	Cumulative	20%	18	18.2	18.9	19.6





#### Efficiency

- 1. Improved efficiency of spectrum usage
- 2. Simplified network architecture



## **Quality and experience**

1. Improved customer experience



## QI8: Fixed Legacy Retirement



## Key Components

**Stakeholders** 

To migrate and retire copper circuits with overlapping fiber coverage for better customer experience and operating costs. Retirement of legacy PSTN equipment to recover precious floor spaces and electromechanical facilities into a more efficient and higher density assets.

- Copper Sunset
- IP Core Consolidation for Fixed and Mobile
- Migration of the services from the STC EoL (End-of-Life) legacy network infrastructure to the modernized network infrastructure

Bader A. Allhieb

Infrastructure VP

Owner

#### **Cross-Functional Contributors**

- Infrastructure Implementation GM
- Infrastructure Design GM
- Infrastructure Planning GM
- Advanced Analytics GM
- Customer Service Operations GM
- Customer Service Design & Delivery GM

## Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
Q18-1	Floor space recovered by legacy nodes retirement	Absolute	10%	N/A	119	1580	3522
Q18-2	Power saved by legacy nodes retirement (MWH)	Absolute	20%	N/A	4,169	26,576	40,347
Q18-3	# of Legacy nodes switched off and dismantled	Absolute	30%	N/A	149	3,416	3,410
Q18-4	# of Copper Cabinet Reduction	Absolute	15%	340	330		
Q18-5	# of Network Terminal Boxes Surveyed	Absolute	10%	365,846	470,000		
Q18-6	# of Lines Migration	Absolute	10%	45,659	20,000		
Q18-7	# of Circuits Migration	Absolute	5%	1,372	1,000		





#### **Efficiency**

- 1. Reduced OPEX 1
- 2. Improved efficiency
- 3. Simplified network architecture



## Quality and experience

1. Improved customer experience



## **QI9: Infrastructure Services Preservation**







Key Components

Stakeholders

To replace end of support infrastructure assets and essential initiatives to preserve services.

- QoS Maintenance
- EoS Replacement
- Licenses to run current capabilities

## Bader A. Allhieb

Infrastructure VP

Owner

## **Cross-Functional Contributors**

- Infrastructure Implementation GM
- Infrastructure Design GM
- Infrastructure Planning GM
- Cloud Infrastructure GM

# Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
QI9-1	# of EoS Assets Replaced – Fixed (OLT)	Absolute	TBD	36	34	30	30 <sup>(1)</sup>
Q19-2	# of Mobile Access Assets Modernized	Absolute	TBD	0	46,076	53,219 (1)	53,219 (1)
Q19-3	# of EoS IT MPLS Core & Distribution Sites Modernized	Cumulative	TBD	0	6	26	47
Q19-4	# of EoS Assets Replaced - Core						
Q19-5	# of Mobile Sites Relocated	Absolute	TBD	0	17	<b>54</b> <sup>(1)</sup>	17 <sup>(1)</sup>





## Keep the Lights On

1. Maintained quality of service







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Stakeholders

To enhance digital operating model and tools with the objective of optimizing operations. It includes automation, modernization and intelligent operations and innovation among others.

Khaled I. Aldharrab
Operations VP

Owner

**Cross-Functional Contributors** 

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### Key Performance Indicators (KPIs) 1

SN	Name	Туре	Weight	2020A	2021	2022	2023
AE1-1	% of Completion of IFS FSM project	Cumulative	10%	60%	100%		
AE1-2	% Completion of Operation Automation Investment Framework	Cumulative	10%	0%	100%		
AE1-3	# Operation Automation Use Cases Implemented	Cumulative	20%	0	1	4	TBD
AE1-4	OPEX Savings Realized thru Automation	Absolute	20%	0	0	1	8
AE1-5	Average Time to deliver BAU CRs related to Field Operation	Absolute	10%	156	NA <sup>2</sup>	133	109
AE1-6	Delivered BAU CRs Capacity related to Field Operation	Absolute	10%	50	NA <sup>2</sup>	66	80
AE1-7	Average resolution time for technical ticket	Absolute	10%	14	14	10	10
AE1-8	Average time for customer service delivery involving field technician	Absolute	10%	48	48	36	36





### **Efficiency**

1. Reduced OPEX

2. Improved visibility for better decision making



**Speed and Agility** 



<sup>1:</sup> These are the KPI as proposed in Operation Automation Special Project charter; ownership alignment and onboarding approval is still work in progress

## **AE2: Cost Efficiency Management**



# Key Components

Stakeholders

To improve resource utilization by identifying OPEX and Capex savings.

- BEP
- CEP
- Financial variance report & controlling
- Cost modeling
- HR FTEs

Abdullah M. Alowini

TSA VP

Owner

### **Cross-Functional Contributors**

Infrastructure VP, Cybersecurity VP, Operations VP, Applications VP, CAD VP

### Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
AE2-1	Opex reduction (mSAR)	Absolute	30%	157	TBC*	TBD**	TBD**
AE2-2	CapEx reductions (mSAR)	Absolute	30%	389.60	219	TBD**	TBD**
AE2-3	% of CapEx execution vs. forecast (run-rate deviation)	Fixed	10%	<10%	<5%	<5%	<5%
AE2-4	% of CapEx carry forward vs. new CAPEX (accrual split)	Fixed	10%	<90%	<75%	<50%	<50%
AE2-5	# of Cost Modelsbuilt and/or enhanced (Yearly)	Absolute	10%	12	6	6	6
AE2-6	% Achieved of HR FTEstarget (Yearly)	Absolute	10%	100%	100%	100%	100%





#### **Efficiency**

- 1. Reduced CAPEX
- 2. Reduced OPEX
- 3. Improved visibility for better decision making



<sup>\*:</sup> Will update after higher management confirmation.

<sup>\*\*:</sup> Will depend on the 2021 and 2022 accrual.

### **AE3: Technology Facility Transformation**





### Key Components

**Stakeholders** 

To improve and transform technological aspects and the overall efficiency of technical facilities, buildings and general technical infrastructure and equipment and includes technology quality assurance

- · Technical Facility Improvement
- Technology Quality Assurance
- Cognitive Capacity and Demand Management (TFM)
- Digitize Technical Facilities Infrastructure Monitoring (Migrate from Analogue to Automated Monitoring) (TFM)
- Enabling "Predictive" Maintenance (TFM)
- Improve Facilities Security and Surveillance (CCTV/ Access Systems) (S&S/Apps-Dependency)
- Rehabilitate the strategic older facilities to stabilize them further and upgrade capacity where applicable. (TFM)
- Unified DCIM Deployment and Hyperscaler Automation Needs (Infra-Dependency)

### Khaled I. Aldharrab

**Operations VP** 

Owner

#### **Cross-Functional Contributors**

TBD

### Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
AE3-1	OSP Operation quality index	Cumulative	15%	75%	80%	90%	TBD
AE3-2	OSP Infrastructure quality index <sup>1</sup>	Cumulative	15%	87%	90%	95%	TBD
AE3-3	% of Closed Infrastructure QA Violations	Cumulative	10%	40%	60%	TBD	TBD
AE3-4	% of Closed Operation QA Violations	Cumulative	10%	40%	60%	TBD	TBD
AE3-5	Automate Capacity Management for Top 60 Sites	Cumulative	10%	10	0	50	0
AE3-6	Deploy Monitoring and Predictive Maintenance (Top 60)	Cumulative	10%	10	0	50	0
AE3-7	Enhance Security for Whitespace (Dual Factor)	Cumulative	10%	0	TBD*	TBD	TBD
AE3-8	Rehabilitate the Top 60 Technical/strategic Buildings	Cumulative	15%	60%	80%	100%	100%
AE3-9	Unified DCIM + Hyperscaler Automation Readiness	Cumulative	5%	0%	TBD*	TBD	TBD





#### Efficiency

1. Improved efficiency



#### Risk Management

- 1. Reduced downtime
- 2. Reduced risks related to hosting critical services in technical facilities



### **Quality and experience**

1. Improved customer experience



### **AE4: T&O Assets Transformation**



Key Components

Stakeholders

To effectively manage Technology Assets Lifecycle from planning-to-disposal. Enhance visibility, reduce risks, identify gaps covering all Technology Assets deployed across KSA including Telecom, Hardware and Software.

- Asset life cycle management
- Hardware asset management
- Asset governance

Abdullah M. Alowini TSA VP

Owner

**Cross-Functional Contributors** 

 Infrastructure VP, Cybersecurity VP, Operations VP, Applications VP, CAD VP

### Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
AE4-1	% in Telecom Asset Visibility	Cumulative	20%	95%	100%		
AE4-2	% in Telecom Asset Registration	Cumulative	20%	40%	60%	80%	90%
AE4-3	% Maintained Software Compliance	Cumulative	20%	98%	98%	98%	98.5%
AE4-4	% Maintain IT platform Hardware & Software Asset Visibility	Cumulative	20%	98%	98%	98%	98.5%
AE4-5	% Maintained IT platform Hardware & Software Asset Technical Registration	Cumulative	20%	90%	98%	98%	98.5%





**Efficiency** 

1. Improved visibility for better decision making



Risk Management

1. Improved software compliance



### **AE5: Business Process Excellence**



### Key Components

**Stakeholders** 

To improve operations in T&O trough organizational capabilities and culture. Its initiatives and projects include internal skills development, decision making processes, relationship with partners, asset management and deployment and overall sustainability.

- · Decision making capabilities
- Cultural transformation
- Future workforce
- Portfolio management optimization
- Organization sustainability
- · Pipeline management

#### Abdullah M. Alowini TSA VP

Owner

#### **Cross-Functional Contributors**

All Sectors & GDs in T&O

### Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
AE5-1	% of GD Functions with documented processes and assigned owners *	Cumulative	25%	70%	100%	100%	100%
AE5-2	% Harmonized and digitized Business Processes Modeling and Enhancement in ARIS tools	Cumulative	25%	30%	90%	95%	98%
AE5-3	% of Improved Process Development Lead Time	Cumulative	25%	45 Day	20% (36 Day)	50% (23 Day)	70% 12 Days
AE5-4	Operation Excellence Maturity Level**	Cumulative	25%	81%	85%**	86%	87%





### **Efficiency**

1. Improved efficiency



### **Quality and Experience**

1. Improved process governance, accountability and quality



### **Speed and Agility**

1. Improved process development lead time



<sup>\*:</sup> For any structure or mandate change will be reflect & updated in the process by the next year.

<sup>\*\*:</sup> For maturity level new model will be apply this year so the target will be change in 2021, 2022 & 2023.

## AE6: Customer Experience and Services Performance



To improve customer experience and increase the consumption of digital services trough the implementation of capabilities, platforms, QoS, speed and capacity.



### Key Components

- Evolve network (technology) operations to service centric experience management (SCEM).
- Enable end-to-end customer experience accountability
- Prepare for digitization and introduce automation
- Combine technical and commercial Key Quality Indicator to Customer Experience Indicators
- Service and network perception and monetization



Khalid A. Alfihaid

Technology Performance GM

Owner

#### **Cross-Functional Contributors**

- Applications
- Infrastructure
- CAD

### Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
AE6-1	# of customer perception use cases	Cumulative	50%	3	6	12	18 *
AE6-2	# of network services use cases	Cumulative	50%	2	4	8	12*



### Benefits



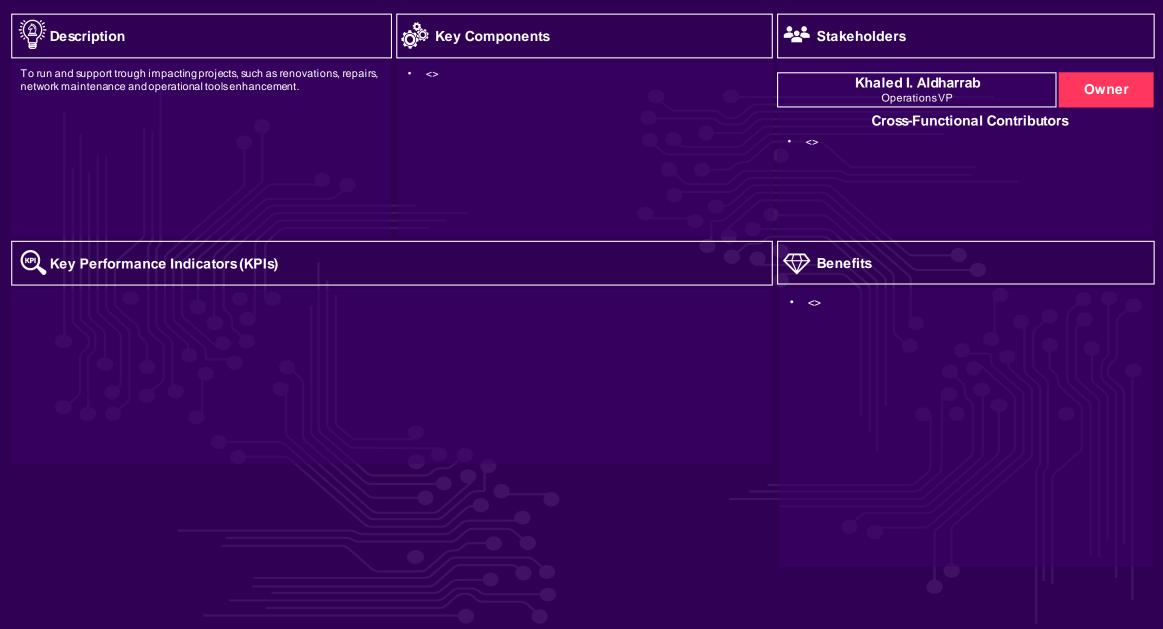
### **Quality and experience**

- 1. Improved QoS
- 2. Increased & Improved services offering through Innovation and Emerging Technologies



# **AE7: Operations Services Preservation**

WIP





## MS1: Maximize and Mature Cybersecurity

# Description



**Stakeholders** 

To make stc a leader in cybersecurity and the MENA center of excellence, inspiring trust in stc and keeping the Kingdom safe by delivering effective cybersecurity to make stc strong and resilient.

- CS governance & compliance
- Infrastructure, Data, and Endpoints protection
- Identity & Access Management
- · Risk Management

### Yasser N. Alswailem

Cybersecurity VP

Owner

#### **Cross-Functional Contributors**

- Business Finance VP
- Procurement and Support Services VP, People VP
- TSA VP, Infrastructure VP, Cybersecurity VP, Operations VP, Applications VP

### Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
MS1-1	Maturity level of STC derived from the capability house	Cumulative	45%	3.69	4.0	N/A	N/A
MS1-2	% of compliance with NCA Essential Cybersecurity Controls (ECC)	Cumulative	10%	93%	100%	N/A	N/A
MS1-3	% of compliance with amendment cybersecurity requirements for Critical systems (CSCC)	Cumulative	10%	21%	45%	N/A	N/A
MS1-4	Cyber Security Resilience Index	Cumulative	10%	2.5	3.2	N/A	N/A
MS1-5	Average time to respond security critical/high incidents	Cumulative	10%	0.81 H	4 H	N/A	N/A
MS1-6	% of frameworks, policies and standards fully aligned with legal & regulatory requirements	Cumulative	5%	100%	100%	N/A	N/A
MS1-7	% of Identity and Access Management Control Implementation for critical systems	Cumulative	10%	50%	86%	N/A	N/A





#### **Quality and experience**

1. Improved customer trust in the security of all stc products and services



#### Risk Management

- 1. Faster cyber attack mitigation time
- 2. Improved compliance to regulatory requirements
- 3. Improved resiliency



### **MS2**: Disaster Recovery



## Key Components

Stakeholders

To strengthen the capabilities of stc's ecosystem; to drive effective recovery in case of a disaster.

- SDF DR
- IIN PCRF DR
- RTTS DR
- ECE DR
- RMS DR
- PP DR
- IT BCDR DR CONTAINER
- EM CONTAINER
- OPERATIONS BCDR
- EA/BCDR PROFESSIONAL SERVICES

### Abdullah M. Alowini

TSA VP

Owner

### **Cross-Functional Contributors**

• App VP, Infrastructure VP, Cybersecurity VP, Operations VP

# Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
MS2-1	# Telecom Containers Ready for DR	N/A		9	N/A	N/A	N/A
MS2-2	# EM Container Ready for DR	N/A		42	N/A	N/A	N/A
MS2-3	# of Validated DR Plans	Absolute	40%	63	63	63	63
MS2-4	# Applications DR Planstesting	Absolute	40%	63	63	63	63
MS2-5	% Unified DR Strategy complete	Cumulative	20%	50%	90%	100%	100%



#### Risk Management

- 1. Reduced downtime
- 2. Improved resiliency
- 3. Improved compliance to regulatory requirements



# MS3: Cybersecurity Services Preservation



Key Components

Stakeholders

To deliver effective cybersecurity through monitoring, visibility and security control advancements.

- QoS Maintenance
- EoS Replacement

Yasser N. Alswailem Cybersecurity VP

Owner

**Cross-Functional Contributors** 

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SN	Name	Туре	Weight	2020A	2021	2022	2023
MS3-1	# of EOL/EOS Cybersecurity Equipment Replaced in alignment with domain strategy	Absolute	TBD	TBD	TBD	TBD	TBD
MS3-2	# of Extended EOS Cybersecurity Equipment	Absolute	TBD	TBD	TBD	TBD	TBD
MS3-3	% of Projects delivered with S2E approved scope.	Absolute	TBD	100%	100%	100%	100%





**Keep the Lights On**1. Maintained quality of service

## **II1: Digital Technical Capability Building**



## ്രൂ് Key Components

**Stakeholders** 

To develop digital technical capabilities based on the To-Be architecture and Business initiatives to enable digital journeys & partnering ecosystems; transform applications landscape.

- Internal Customer Engagement
- External Customer Engagement
- Customer Relationship Management
- Product Lifecycle Management

### Yazeed A. Alfaris

**Applications VP** 

Owner

### **Cross-Functional Contributors**

- TSA VP, CAD VP, Infrastructure VP, Cybersecurity VP, Operations VP
- B2C (CBU) VP, B2B (EBU) VP
- Procurement VP, Business Finance GM
- People Relevant vendors VP

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SN	Name	Туре	Weight	2020A	2021	2022	2023
II1-1	# of capabilities built according to digital architecture roadmap and aligned with business capability roadmap	Cumulative YTD	25%	16(70%)	2(78%)	5(100%)	N/A
II1-2	% of Deployed functionalities of B2C/B2B Telco Business to the new technology stack (2021 new channel: Prepaid mobile web portal)	Cumulative YTD	25%	0	25	27	N/A
II1-3	% of applications or technical capabilities consolidated or rationalized	Cumulative	20%	33%	60%	100%	N/A
II1-4	Impact of DT in the % of Emergency and High incident tickets	Absolute	15%	N/A	0%	0%	0%
II1-5	% of conformance of the delivered artefacts to the digital reference architecture principles and standards (API First, Microservices, decoupling. etc) 1	Cumulative	15%	80%	100%	100%	N/A





#### **Efficiency**

- 1. Improve efficiency
- 2. Simplified application landscape



#### **Growth Enablement**

1. Increased digital capabilities



## II2: Innovation & Systems Transformation





Stakeholders

To Introduce strategic innovations to the Applications transformation, review existing capabilities and enhance in alignment with the Digital Architecture Roadmap, add capabilities that indirectly enable delivery of key strategic objectives e.g., Cloudification, proactive service assurance etc.

- Applicationstransformation
- Cloudification
- Proactive service assurance

Yazeed A. Alfaris
Applications VP

Owner

**Cross-Functional Contributors** 

# Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
II2-1	% adoption of service introduction measures for Customer Engagement layer 1	Cumulative YTD	8%	N/A	33%	65%	100%
112-2	# of Customer Engagement capabilities built consuming information from Data Analytics (or other integrated) capabilities	Cumulative YTD	9%	N/A	2	4	6
112-3	# of contextual campaigns management capabilities built consuming information from Data Analytics	Cumulative YTD	8%	N/A	1	2	3
112-4	% of adoption of PLM capabilities <sup>1</sup>	Cumulative YTD	9%	N/A	0% *	70%	100%
112-5	% adaption of real-time rating and charging capabilities for postpaid subscribers 1	Cumulative YTD	7%	N/A	0% *	100%	100%
112-6	% of proactive identification and correction of issues before customerraises a complaint	Cumulative YTD	8%	N/A	0% *	20%	90%
112-7	% reduction in time-to-resolve emergency and high incidents (through proactive operations & maintenance)	Cumulative YTD	9%	N/A	8%	10%	12%
112-8	# of services capable of troubleshooting and resolution through self care	Cumulative YTD	8%	N/A	0 *	2	5
112-9	% improvement in service orders fulfillment 1	Cumulative YTD	7%	N/A	40%	70%	100%
II2-10	% of implemented services via service catalogue	Cumulative YTD	6%	N/A	25%	60%	100%
II2-11	% of new application introduced/upgraded deployed in IT common Cloud 1	Cumulative YTD	8%	N/A	70%	80%	90%
II2-12	% adoption of the solution lifecycle management tool 1	Cumulative YTD	7%	N/A	0%*	30%	100%
II2-13	mSAR value realization through consolidation & rationalization initiatives	Cumulative YTD	6%	25m	45m	70.5m	93m



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**Efficiency** 

1. Improved efficiency



Growth Enablement

1. Increased digital capabilities



**Quality and Experience** 

1. Improved customer experience



**Speed and Agility** 

1. Reduced time to market



## **II3: Application Internal Enablement**



Key Components

Stakeholders

To enable technology capabilities demand requested by T&O sectors to develop (acquire, build, enhance, transform) technology capabilities.

- New capabilities building
- Existing capabilities enhancements
- Integrations between various systems
- Automations

Yazeed A. Alfaris **Applications VP** 

Owner

**Cross-Functional Contributors** 

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# Key Performance Indicators (KPIs)



**∰** Benefits



Speed and Agility
1. Improved project completion success rate

	SN	Name	Туре	Weight	2020A	2021	2022	2023
)	II3-1	% of projects delivered within S2E approved budget	Cumulative YTD	50%	N/A	85%	90%	95%
)	II3-2	% of projects delivered within S2E approved timelines	Cumulative YTD	50%	N/A	85%	90%	95%



## **II4: Application External Enablement**





**Stakeholders** 

To enable business capabilities demand requested by BU's/FU's (that is not covered in "Digital Technical Capability Building" program) to support "Transform" and "Grow" agenda.

- New/growth products/services and capabilities enablement
- Current products/services, and capabilities enhancements
- Future workforce enablement frameworks, tools and technologies

Yazeed A. Alfaris **Applications VP** 

Owner

**Cross-Functional Contributors** 

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### Key Performance Indicators (KPIs)

)	Name	Туре	Weight	2020A	2021	2022	2023
114-1	% of projects delivered within S2E approved budget	Cumulative YTD	25%	N/A	85%	90%	95%
114-2	% of projects delivered within S2E approved timelines	Cumulative YTD	25%	N/A	85%	90%	95%
114-3	% reduction in time-to-deploy for new services	Cumulative YTD	20%	N/A	30%	50%	70%
114-4	% of CRs delivered through reusable services/capabilities*	Cumulative YTD	15%	N/A	35%	60%	75%
114-5	% of configuration changes (Non-CRs) as compared to all types of changes for BaU	Cumulative YTD	15%	N/A	87%	90%	92%





Efficiency

1. Improved efficiency



**Speed and Agility** 

1. Improved project completion success rate

## **II5: Application Services Preservation**





Stakeholders

To enable business capabilities demand requested by BU's/FU's (that is not covered in "Digital Technical Capability Building" program) to support "Transform" and "Grow" agenda.

- Internal & external applications/systems/platformsupgrades and replace EoS requirements, smart offices renovation, automation & migration
- Internal & external laptops/desktop upgrades, Licenses new/renewal

Yazeed A. Alfaris **Applications VP** 

Owner

**Cross-Functional Contributors** 

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# Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
II5-1	% of Applications BaU demands delivered with agreed scope	Cumulative YTD	30%	N/A	100%	100%	100%
115-2	% of end-of-life applications retired and replaced in alignment with digital reference architecture	Cumulative YTD	30%	N/A	80%	85%	90%
115-3	% reduction in MDTs (Maintenance Down Time) related to customer-facing applications (BaU deployments)	Cumulative YTD	20%	N/A	40%	60%	80%
115-4	% of recommendations from cyber security implemented across Applications	Cumulative YTD	20%	N/A	80%	90%	95%





#### Keep the Lights On

- 1. Maintained quality of service
- 2. Maintain the capabilities required to sustain the business needs



# LT1: Drive Adoption of Emerging Technologies



Key Components

Stakeholders

To perform PoC and trials of emerging technologies to determine effective adoption in stc technology landscape.

- MEC
- Open RAN
- Disaggregation
- Open SDAN

Abdullah M. Alowini TSA VP

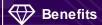
Owner

**Cross-Functional Contributors** 

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### Key Performance Indicators (KPIs)

SN	Name	Туре	Weight	2020A	2021	2022	2023
LT1-1	# emerging technologies market survey & study to STC applicability	Absolute	40%	2	3	3	3
LT1-2	% completion of the development of protypes & PoCs	Absolute	30%	100%	100%	100%	100%
LT1-3	% of emerging technologies adherence to technology architecture	Cumulative	30%	25%	60%	100%	





Speed and Agility
1. Faster and effective adoption of emerging technologies



# **Release Notes**

Date @Time Traceability (yyyy-mm-dd@hh-mm) (Program or KPI #)		Release Notes  (Short description of the changes)		Author
20210505@1250	N/A	Updated the benefits based on TOP latest recommendation, and added them to KPIs Dictionary sheet.	N/A	Sarah Alluhaidan
20210505@1355	QI3	Updated the KPI definition after latest alignment changes with Datacenter Program team	N/A	Santi Sia
20210524@0830	QI9, AE1	<ul> <li>QI9-2 updated the KPI name after alignment with Mobile access strategy planning team</li> <li>Onboarded Operation Automation KPI as per the latest charter</li> </ul>	N/A	Santi Sia
20210526@0900	QI6	Deleted "Small/Macro Ratio" previously QI6-2 and shifted up QI6 KPI traceability number. Decision was shared by Mubasher; Mobile Access SME as no alignment reached with Infra	N/A	Santi Sia
20210606@1506	QI5	<ul> <li>QI5-1 reduced 2021 target from 16 to 15</li> <li>QI5-3 changed the baseline from 1.4 to 1.3</li> <li>QI5-4 removed the target in 2022 and move to 2023.</li> <li>QI5-5 replaced the target in 2022 as – as we will stop from this year</li> <li>Fix the sequence error in QI5 KPI series</li> </ul>	N/A	Santi Sia
20210607@1240	AE2, MS3	<ul><li>Added MS3 KPIs</li><li>Added AE2-2 2021 target</li></ul>	N/A	Sarah Alluhaidan
20210609@1000	Q19, AA2	<ul> <li>Added the target for QI9-2</li> <li>Onboarded KPI QI9-5 with its target</li> <li>Program AA2 category has been changed from grow to transform. Reference discussion with Abdeljalil</li> </ul>	N/A	Santi Sia



