



Lebanon's Digital and AI Transformation

A Strategic Roadmap by the Minister of State for Technology and AI

Office of the Minister of State for Information Technology and AI (MITAI)

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AGENDA

01

**Lebanon's Vision and
MITAI's Mission**

02

**Lebanon's Leapfrog
Opportunity**

03

**MITAI's Collaborative
Approach and Suggested
Sector Governance**

04

**LEAP Strategy and Four
Key Tracks**

05

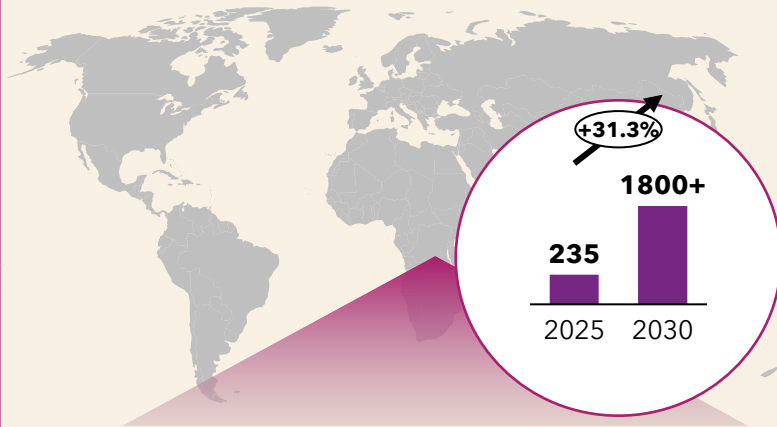
**Priorities, Foundational
Initiatives, and Quick Wins**

06

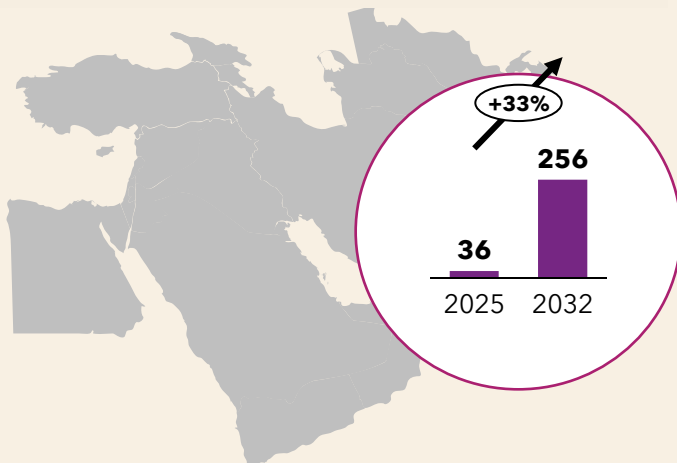
MITAI's Plan

AI is transforming the global economy, government operations, and the way people work

Estimated Global AI Market (in B USD)

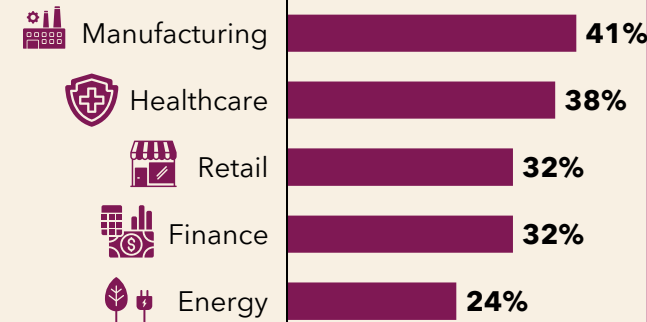


Middle East AI Market (in B USD)



Top AI Industry Disruption

(Global 2025 - 2032 CAGR, %)



1 in 4

Startup was an AI company in 2025

+75%

Investment in AI and ML startups from 2025

Global Economic Impact

~3.7%

Estimated AI share of global GDP in 2030

Government AI Adoption

~80%

Estimated AI adoption in governments

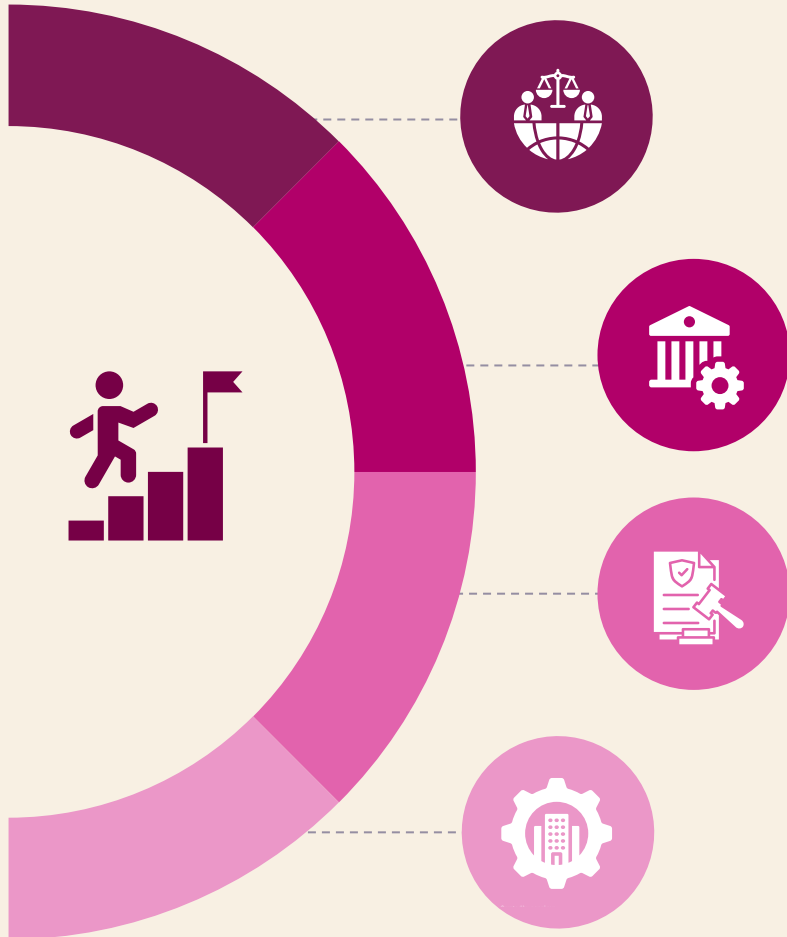
Global Multiplier Impact

\$ 22 T

Expected additional economic output to be delivered from AI and Data by 2030

Fragmented institutions, outdated regulations, and weak infrastructure constrain service delivery and digital growth

Process Opacity and Institutional Overlap



1

Public Service Delivery & Institutional Performance

Public services are fragmented, slow, and inconsistent across ministries and regions. Paper-based workflows require physical presence and repeated submissions, causing duplication, lost records, limited data reuse, and weak ability to scale or monitor performance

2

Governance, Process Integrity & Administrative Burden

Opaque processes and weak capacity drive reliance on intermediaries, raising compliance costs and reinforcing perceptions of corruption and inefficiency. Overlapping mandates and siloed decisions create redundant approval chains that delay delivery, discourage investment, and expand administrative discretion

3

Regulatory & Policy Constraints

Regulations have not kept pace with digital business models, fintech, data-driven services, and cross-border digital trade. This legal uncertainty increases compliance risk, deters foreign investment, and slows adoption of modern digital solutions

4

Enabling Infrastructure & Access to Capital

Access to capital is constrained by a paralyzed banking sector, weak public investment capacity, and limited risk appetite, restricting modernization and growth. Unreliable power and uneven broadband further raise operating costs, reduce reliability, and limit the ability to scale

The Lebanese Government has set a clear mandate to establish the Ministry of Technology and AI (MITAI*)

الجمهورية اللبنانية

*"The government is committed to establishing a Ministry of Technology and Artificial Intelligence, which will develop and implement an ambitious future strategy aimed at **attracting Lebanese talent, stimulating investment in advanced sectors, accelerating the adoption of modern technologies, encouraging startups, and fostering innovation.**"*

MITAI Mandate (as per MITAI Draft Law)

1 Comprehensive National Strategy



7 International Tech Standards Alignment



2 Legislative & Regulatory Framework



8 Responsible-Use Guidelines



3 Private-Sector and Academia Partnerships



9 International Representation



4 Unified Government Platform



10 Agreements & Partnerships



5 Cybersecurity & Privacy



11 Responsible AI Initiatives



6 Vibrant Digital Economy



12 Investment Attraction & Positioning



*The Office of the Minister of State for Information Technology and Artificial Intelligence (OMSITAI) will become the Ministry of Technology and Artificial Intelligence (MITAI) once the MITAI law is approved by Parliament

Lebanon has differentiating qualifications in Digi-Tech and AI based on five key attributes



People: Lebanon's human capital is globally competitive, and its universities produce top tier tech talent

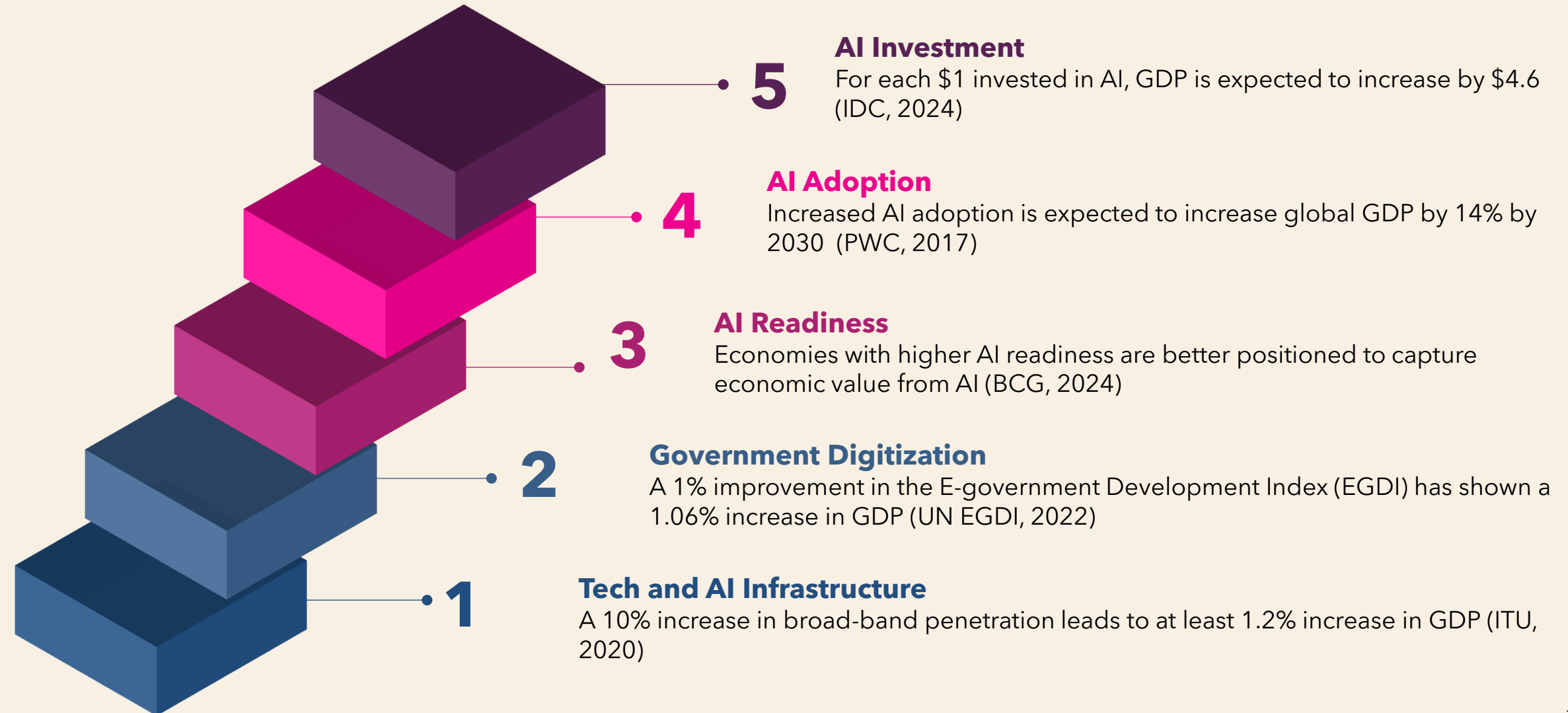
Innovation: Lebanese people and businesses have an established track record in innovation and entrepreneurship

Excellence: Lebanese have excelled in several sectors including healthcare, education, and creative industries

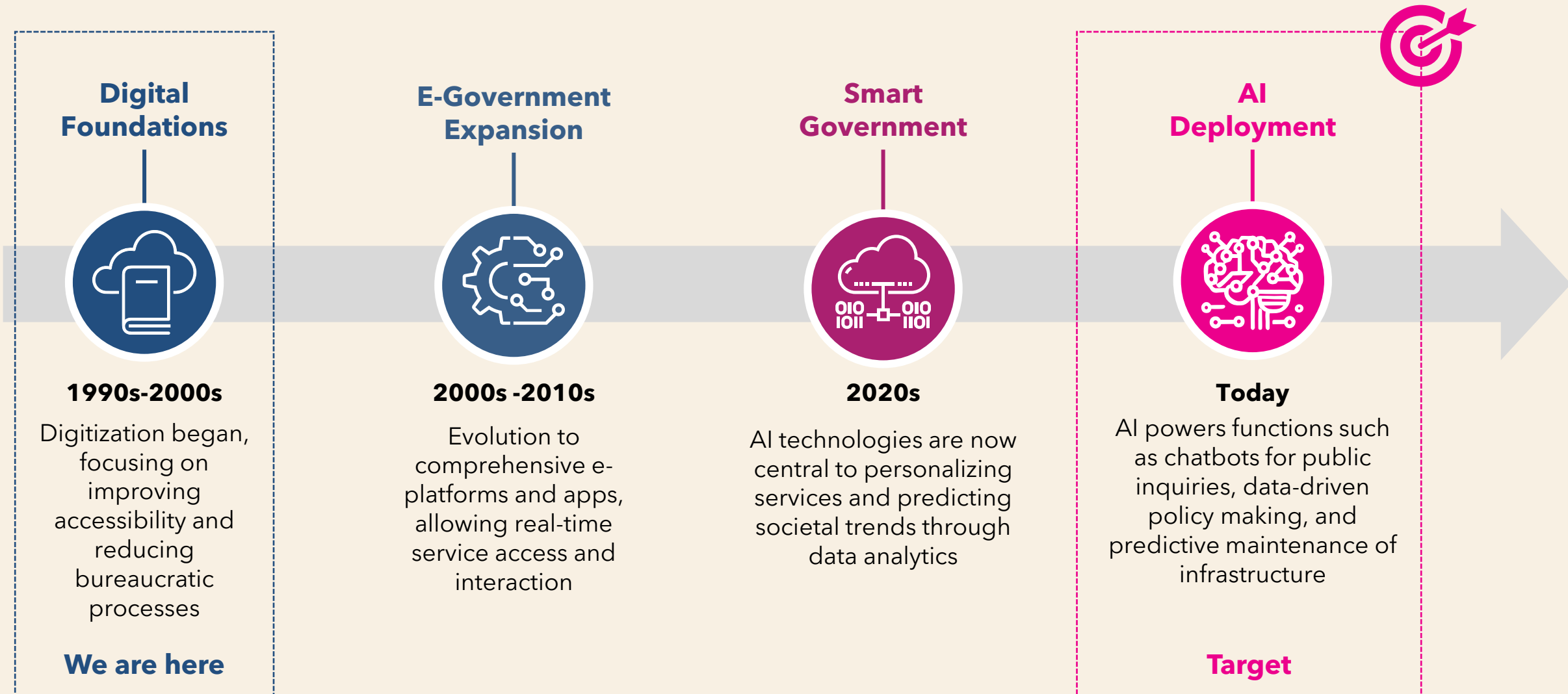
Regional Opportunity: Lebanon has an opportunity to lead in AI services in the Levant

Leapfrog: Lebanon's challenges can be overcome by leapfrogging to the most advanced AI powered technology

Advancing the national Digi-Tech & AI agenda will have a direct positive impact on Lebanon's economy



Today, Lebanon has the opportunity to leapfrog directly into deep-tech and AI powered government



Countries are creating unified digital, AI, and cyber bodies to lead infrastructure, data, and AI governance

UAE - Unified Digital & AI Ecosystem



The UAE's digital governance includes the **Minister of State for Artificial Intelligence** (responsible for national **AI** and **digital economy** strategy), the **Telecommunications and Digital Government Regulatory Authority (TDRA)** (federal **telecom** and **digital government** regulator), the **Digital Dubai Authority (DDA)** (emirate-level body for **smart infrastructure**, **data**, and **cybersecurity**), and the **Cybersecurity Council** (coordinating national **cyber strategy** and **incident response**)



01

Saudi Arabia - Integrated Data, Telecom & Cyber Architecture



Saudi Arabia's framework includes the **Saudi Data and Artificial Intelligence Authority (SDAIA)** (national **AI** and **data policymaker**), the **Communications, Space and Technology Commission (CST)** (telecom, spectrum, and **digital services** regulator), and the **National Cybersecurity Authority (NCA)** (cybersecurity standards setter and **incident response** coordinator), all advancing **Vision 2030**



02

UK - Coordinated Digital, AI & Cyber Governance

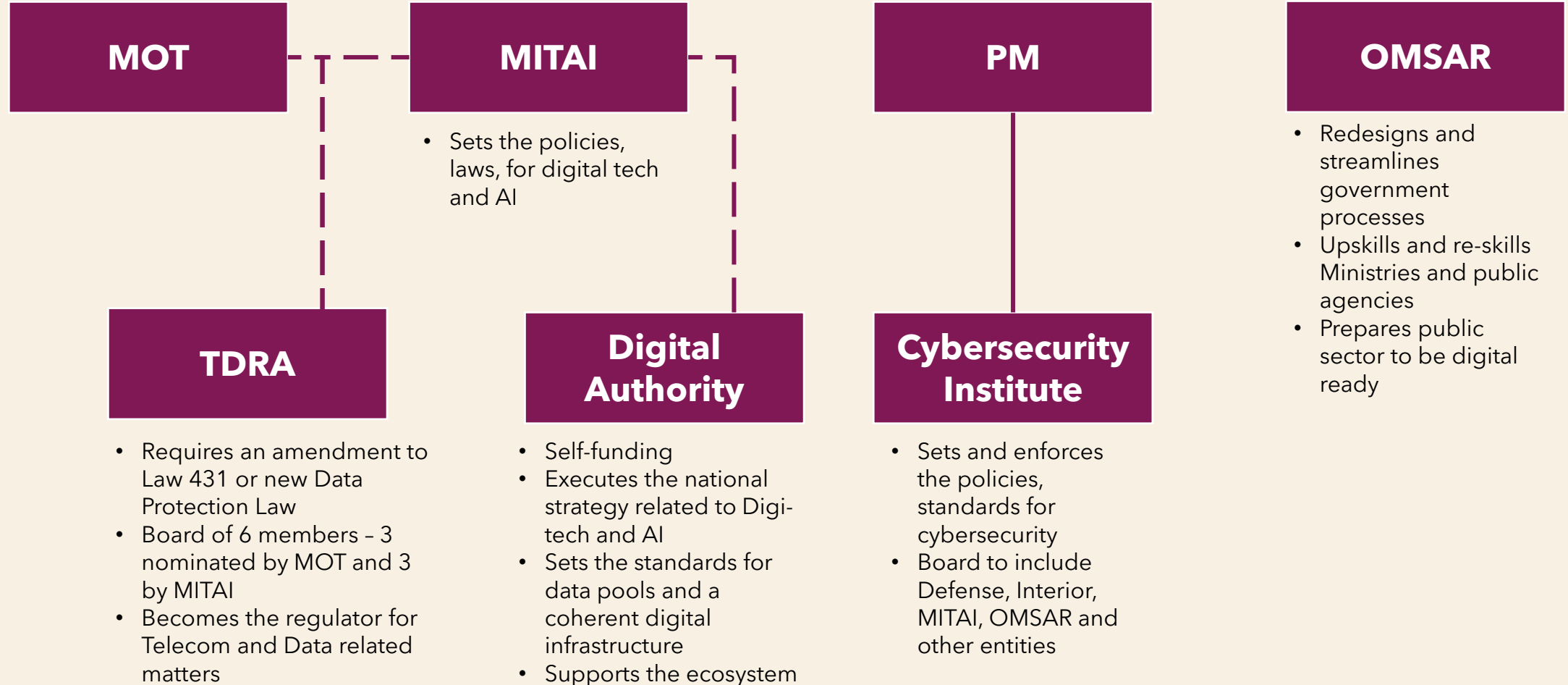


The UK's approach is led by the **Department for Science, Innovation and Technology (DSIT)** (digital and **AI strategy**, public sector modernization), **Ofcom (Office of Communications)** (telecom, spectrum, and **digital content** regulator), and the **National Cyber Security Centre (NCSC)** (cyber threat response unit under **GCHQ**, supporting **government** and **industry**)



03

By end of 2026, the Digi-Tech and AI industry should have a new institutional structure



MITAI is drafting and amending legislation, building digital infrastructure, and empowering the ecosystem

Overview of MITAI

Overview

MITAI is **developing and implementing Lebanon's national digital and AI strategy**, setting clear goals for economic growth, public sector digitization, and innovation

MITAI is leading the creation of a **unified National Digital Infrastructure (NDI)**, including cloud, data, digital ID, and cybersecurity layers

MITAI is partnering with all the to drive a **unified, secure, impactful AI & digital transformation** via **shared platforms, interministerial committees, and joint planning**

The Ministry is acting as a **catalyst for investment and talent**, positioning Lebanon as a regional hub for AI and digital innovation

Key Roles and Responsibilities

1

Establish the Foundation of Digi-Tech & AI



2

Develop Digi-Tech & AI Infrastructure



3

Harness Digi-Tech & AI Talent



4

Empower Ecosystem and Scale Investment



2030 Targets¹

Vibrant Tech Industry



A **dynamic startup scene** will attract **at least US \$500 million in AI investment**, establishing Lebanon as the **region's hub for innovation**

Productivity Gains



Digital transformation will **raise labor productivity** by **≥ 15 %** and **Total Factor Productivity** by **≥ 10 %**, powered by **AI in key sectors**

AI-First Government



By 2030, Lebanon will run an **AI-first government** with **80 % of services digitized** and **every agency migrated to cloud**

1) Sources: PwC, McKinsey, and Reuters

The Digital & AI Authority will drive standard-setting, implement the national strategy, and be self sustaining

Overview of Digital Authority

Overview

The Digital & AI Authority will be established as an **independent public entity**, reporting to the **Prime Minister**, with **legal personality and administrative and financial autonomy**

It will oversee digital **tech and AI**, ensuring compliance with international **standards in data privacy, cybersecurity, digital sovereignty**, and governance frameworks

It will lead the development of **Lebanon's digital infrastructure**, including **data platforms, cloud computing, national registries**, and **AI-based services**

The Authority, being self-funded, will act as a **strategic interface between government, private sector, and international partners**, promoting **innovation**, supporting **local startups**, and attracting **foreign investment**

Key Roles and Responsibilities

- 1 **Standards & Governance** 
- 2 **Strategy Execution** 
- 3 **Public-Private Collaboration** 
- 4 **Data & AI Management** 

Strategic Impact

Standard-setting and institutional backing will unlock **foreign direct investment**, support **Lebanese startups**, and **enhance trust** in digital public services

AI and digitization will transform service delivery across ministries—improving **access, efficiency**, and **data-driven policy design**

The Authority will position Lebanon as a **regional benchmark** in **tech governance, AI readiness**, and **digital service innovation**

Collaboration with Other Ministries



The **Digital & AI Authority** will **work closely**, through MITAI, with **OMSAR and other key stakeholders** in ensuring the **successful implementation of Lebanon's digital and AI strategy**. **Regular coordination** will ensure that policies are executed effectively, with **clear roles and accountability** across all relevant entities

The Cybersecurity Institute / CERT will safeguard national digital infrastructure and build resilience

Overview of Cybersecurity Institute

Overview

The **Cybersecurity Institute** will be established as an **independent public entity**, reporting to the **Prime Minister**, with **legal personality** and full **administrative and financial autonomy**

It will **oversee national cybersecurity**, enforcing standards in **threat detection**, **data protection**, **incident response**, and **resilience planning** across critical infrastructure and digital platforms

It will lead the protection of **Lebanon's digital infrastructure**, including telecom networks, government systems, and cloud environments, and serve as the technical lead on national cybersecurity strategy and response

The Institute, acting as a **strategic coordination hub**, will partner with global and regional cybersecurity bodies to promote **best practices**, build trust in Lebanese digital services, and support secure digital transformation

Key Roles and Responsibilities

1

Policy, Standards & Compliance



2

Threat Intelligence & Response



3

Cyber Talent & Awareness



4

Ecosystem Coordination



Collaboration with Other Ministries



The **Cybersecurity Institute** will work closely, through **MITAI**, with **OGERO**, line ministries, and national agencies to implement Lebanon's cybersecurity strategy. It will also collaborate with international partners such as **ITU**, **ENISA**, and **regional CERTs**, ensuring alignment with global standards and reinforcing **clear roles and accountability** across all entities

Strategic Impact

Cybersecurity leadership and institutional backing will protect critical systems, enable national response to cyberattacks, and enhance digital trust

Cyber resilience will safeguard digital infrastructure and improve incident preparedness across sectors and services

The Institute will position Lebanon as a **regional leader in cybersecurity**, strengthening the national digital economy and fostering secure digital innovation

Lebanon must update Law 431 to create an independent TDRA for telecom and digital regulation

Mandate Enhancements

	 Independence & Regulatory Scope	 Governance & Digital Fairness	 Infrastructure, Security & Inclusion Oversight	Key Strategic Reform Insights 
Areas Covered	- Legal & Institutional Independence - Scope of Authority	- Market Competition & Access - Interoperability & Fair Access - Digital Rights & Consumer Protection	- Data & Cybersecurity Oversight - Inclusion & Access	 Modernize Law 431 to expand the TRA's remit beyond telecom and legally separate the roles of operator, policymaker, and regulator
Relevant Models	Ofcom (UK): Independent, media & telecom regulator ICASA (South Africa): Institutional independence from government operators	EU (DG CONNECT): Supranational platform regulation under DMA/DSA Ofcom (UK): Enforces platform accountability and transparency	SDAIA (KSA): Unified AI and data regulation IMDA (Singapore): Inclusive digital development tied to regulation	 Establish a converged digital regulator that integrates oversight of telecom, data, platforms, AI, and cybersecurity to eliminate fragmentation and improve responsiveness
Summary	- Amend Law 431 to enshrine full regulator independence from MoT - Clearly separate roles of operator, policymaker, and regulator - Expand scope beyond telecom to include AI, IoT, OTTs, cloud, and digital platforms	- Empower TRA to monitor and block anti-competitive digital mergers - Enforce service transparency, digital rights, and fair access rules - Ensure dominant digital players provide interoperable services	- Mandate TRA to regulate cybersecurity, data flows, breach response, and infrastructure resilience - Incentivize affordable and equitable digital access nationwide	 Empower the TDRA to enforce digital rights, ensure fair competition, and build investor and user trust through transparent, future-ready regulation

Accelerating adoption of AI across various intervention areas will play a key role in unlocking value

Unlocking the National Potential of AI

Job Creation Target

Double the AI workforce and embed AI in **health, energy, agriculture, education**, and other key sectors. By 2030, contribute to **≥15% labor-productivity** gains and **≥10% TFP** gains through AI adoption in priority sectors

Investment Increase Target

Attract ≥ US \$500M in AI investment by 2030, establishing Lebanon as a **regional hub for innovation** and crowding-in private R&D

ICT Talent Potential Impact

Train and retain **10,000+ AI engineers** working in Lebanon per year

Increase **ICT employment share** from **1-2% to ~5% by 2030**, supporting the national productivity targets (**≥15% labor, ≥10% TFP**)

Potential Impact on Economy

~Unlock **~10% GDP contribution by 2035** via expanded broadband, digital infrastructure, and AI adoption, yielding **US \$3-4B GDP uplift**

Near-term (to 2030): deliver **≥15% labor-productivity** and **≥10% TFP** gains through sectoral AI deployment

Global Rankings Target

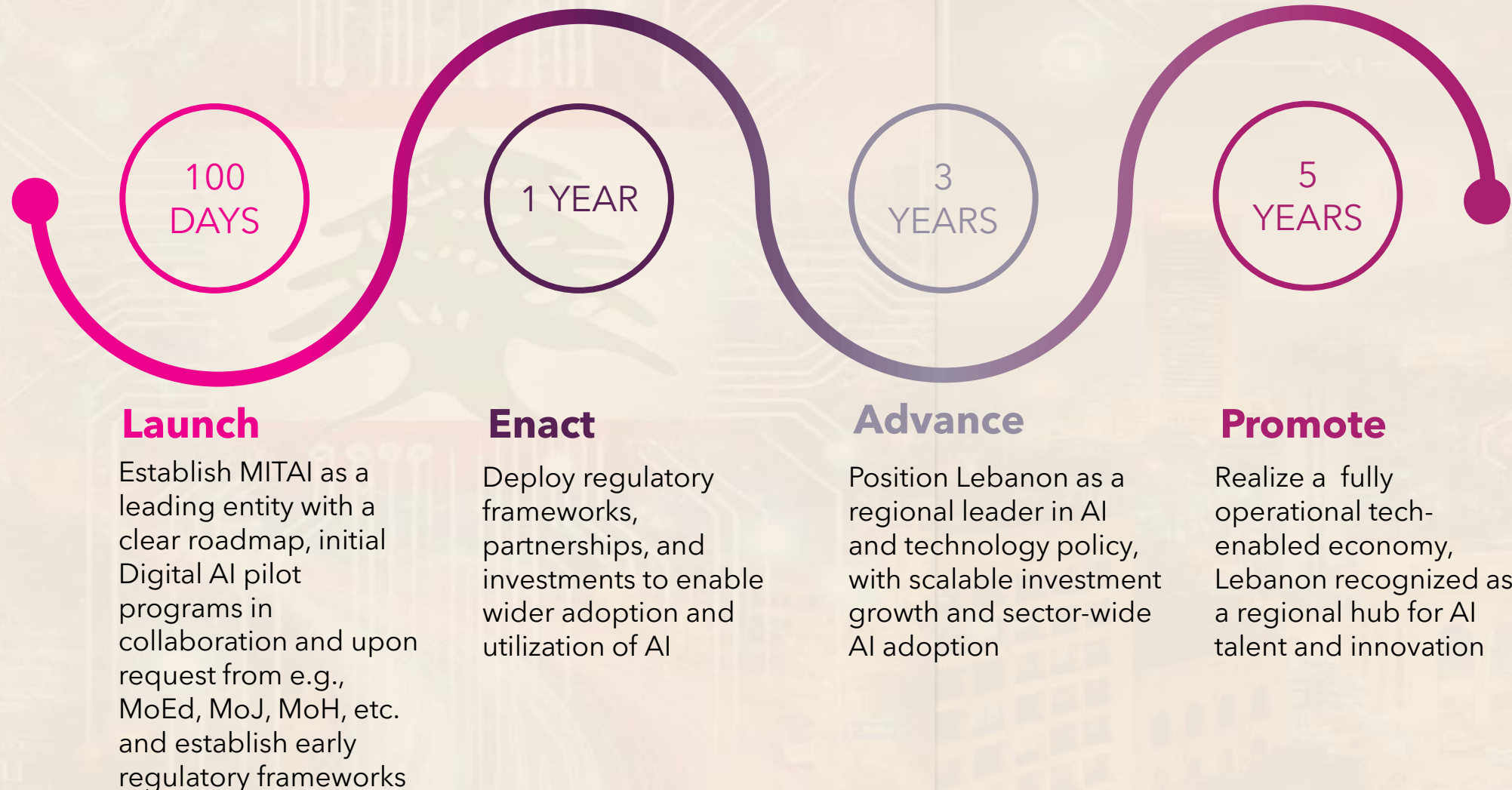
Move into the **top-20** globally on **AI innovation & governance** (through R&D growth and private-sector scaling)

Advance to the **top-50** on **Government AI Readiness** with infrastructure upgrades, talent programs, and enabling regulations

Smart Government Adoption Target

By 2030, operate an **AI-first government** with **≥80% of services digitized** and **all agencies migrated to cloud**, ensuring secure, interoperable delivery

To achieve those objectives, MITAI has developed a 5-year strategy: LEAP



LEAP has set four strategic priorities...

1 Future-Ready Infrastructure

- Lay the foundation for a digital transformation
- Ensure laws and regulation allow for data protection, privacy and cybersecurity
- Develop policies and national data pools for interoperability
- Support further broadband and internet improvement and adoption



2 Accelerated Innovation

- Leverage advanced technologies for growth
- Implement AI solutions at scale
- Enhance market competitiveness through innovation
- Deliver measurable impact across sectors
- Streamline processes with digital tools



3 Empowered Talent

- Attract global talent through incentives
- Foster AI education in universities
- Support startups with funding initiatives
- Promote R&D through public-private partnerships
- Build innovation hubs for collaboration



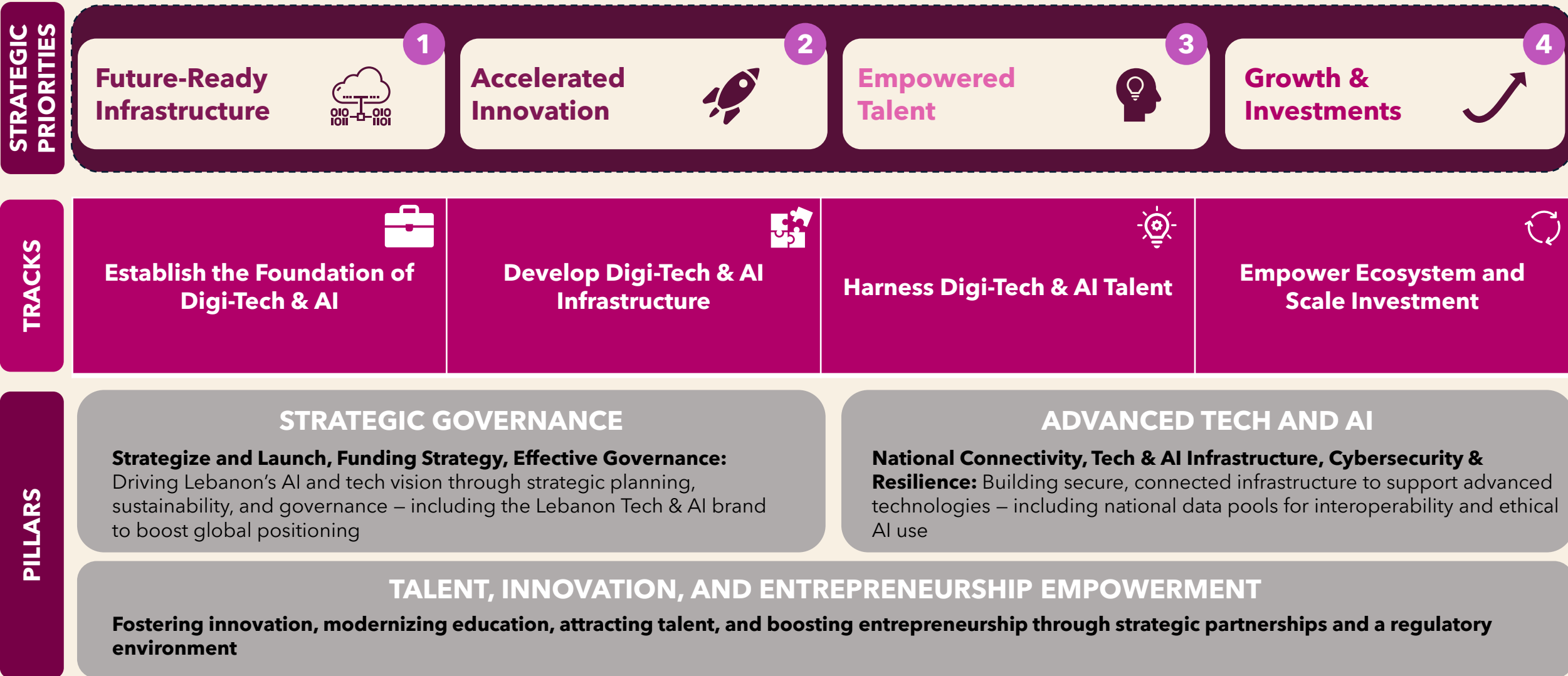
4 Growth & Investments

- Attract foreign investments with incentives
- Boost local tech startups' funding
- Promote PPPs
- Create investment-friendly regulatory frameworks
- Leverage AI to drive economic growth and launch the Lebanon Tech & AI brand



Lebanon's Tech Leap: Unleashing Growth, Innovation, and Impact Through AI – Aiming for 10X Growth by 2030

... which have been further developed into four key tracks and pillars



MITAI is following a bold strategy for a future ready economy based on four strategic tracks

TRACK 1

Establish the Foundation of Digi-Tech & AI

Transforming Vision into Reality

Focusing on establishing a future-ready governance framework for the Digi-Tech and AI sector



TRACK 2

Develop Digi-Tech & AI Infrastructure

Accelerating AI and Advanced Technology Infrastructure

Accelerating AI and advanced technology infrastructure to drive innovation, transformation, and growth – including data pools to ensure interoperability



TRACK 3

Harness Digi-Tech & AI Talent

Building a Thriving Talent and Entrepreneur Ecosystem

Empowering Lebanon's workforce by reversing brain drain, attracting global talent, and fostering entrepreneurship



TRACK 4

Empower Ecosystem and Scale Investment

Supporting Innovation and Building a Tech & AI Powerhouse

Fuel deep-tech innovation, mobilize capital, and scale ventures to position Lebanon as a Tech & AI powerhouse



RISE AND LEAP 2030

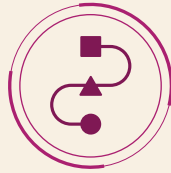
Launching Lebanon's First Ministry of State for Technology & AI: Pioneering Innovation with 4 Strategic Tracks for the Future

We advance foundations, shared platforms, and citizen services in parallel, scope and timeline



Project Selection Framework

- ❑ **Prioritize foundations that unlock potential:** laws, standards, governance bodies
- ❑ **Build once, reuse many:** shared platforms usable across ministries
- ❑ **Deliver visible value:** pick services with meaningful citizen impact and measurable outcomes
- ❑ **Stay realistic:** align scope with capacity, budget, and 2030 targets
- ❑ **Apply filters:** strategic fit, security & privacy, feasibility, sustainability



Sequencing Strategy

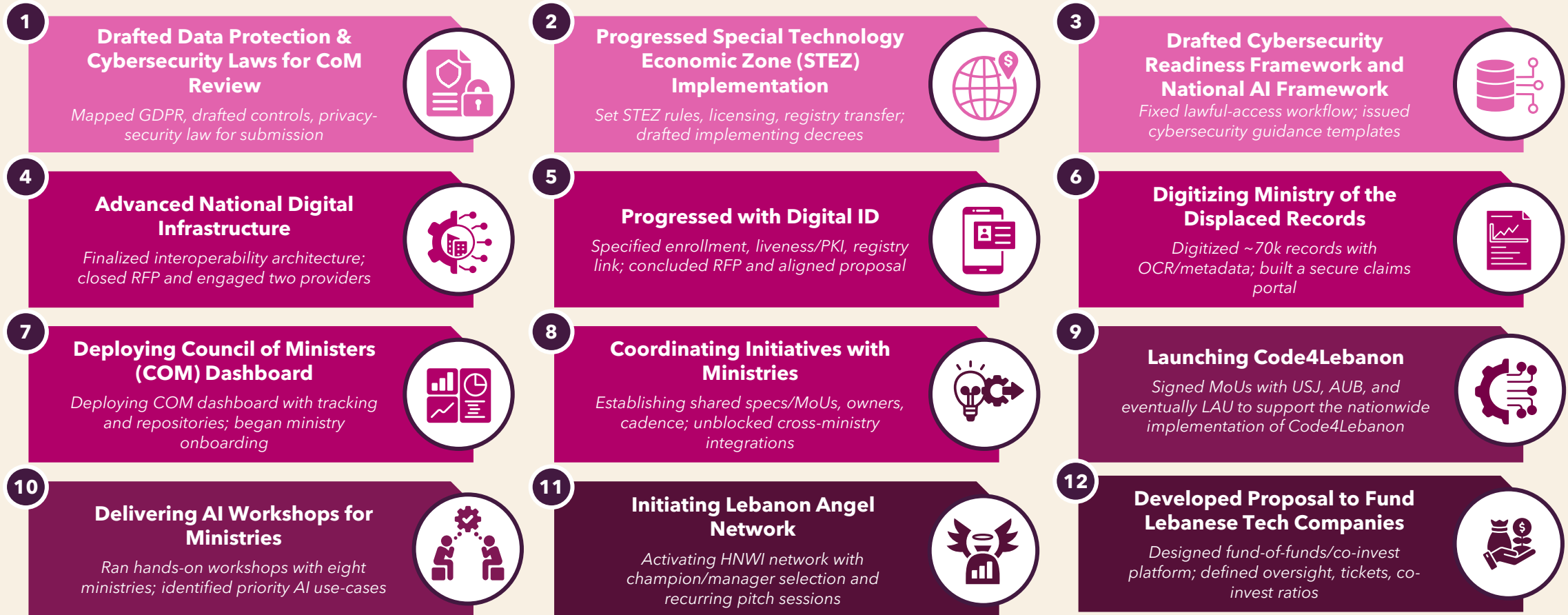
- ❑ **Track F - Foundations:** enabling laws & decrees, data governance, cybersecurity, oversight bodies
- ❑ **Track P - Platforms:** NDI, Digital ID & trust, data platform, payments rail, API gateway
- ❑ **Track S - Services:** cross-ministry use cases with quick, measurable outcomes (minimum viable service first)
- ❑ **Tracks run simultaneously**



Governance & Next Steps

- ❑ **PMO benefits/risk/readiness tracking** with quarterly portfolio reviews to re-prioritize based on delivery data
- ❑ **Sandboxes** for safe experimentation before scale
- ❑ **Living roadmap** balancing rules, core platforms, and citizen-facing services on the path to an AI-first government by 2030

MITAI's Key Achievements to Date



Legend:

Track 1: Establish the Foundation of Digi-Tech & AI

Track 2: Develop Digi-Tech & AI Infrastructure

Track 3: Harness Digi-Tech & AI Talent

Track 4: Empower Ecosystem and Scale Investment

Foundations & Governance

15

Draft laws, decrees, guidelines and frameworks developed/finalized during 2025

At Parliament



- **MITAI Law:** Establishes mandate for digital transformation & AI
- **Digital Authority Law:** Creates institutional engine for digital government

Drafted for Submission



- **Data Protection Law:** Defines rights for personal data processing
- **Cybersecurity Law:** Sets national governance & incident reporting
- **e-Signature Law:** Validates electronic signatures & transactions
- **Special Technology Economic Zone (STEZ) Decree:** Operationalizes STEZ procedures & mechanisms

Currently Under Consultation



- **Privacy & Security Guidelines:** Controls for digital services
- **Cloud Policy Framework:** Rules for government cloud adoption
- **Cyber Readiness Framework:** Baseline to improve cyber posture
- **National AI Framework:** Guidance for safe, accountable AI adoption
- **AI Readiness Framework:** Prepares ministries for AI capabilities

Council of Ministers Dashboard

Centralized Cross-Government Delivery Platform

8

Ministries Onboarded

Out of 21 total government ministries now connected to centralized visibility system

1,000+

Initiatives Captured

Comprehensive tracking of cross-government programs, issues, and strategic documents

7

National Objectives Embedded

Each initiative is explicitly mapped to Lebanon's midterm and long-term national priorities



Ministry of the Displaced: Digitization of Records



- **1 Starting Point: Paper-Based Claims**

Physical files were vulnerable to damage, loss, and slow retrieval, making case processing and verification difficult. This led to inefficient processes and reduced citizen trust
- **2 Records Digitization: 80,000 Files Secured**

Converted physical archives into secure digital records, preserving documentation and enabling faster search, access, and internal processing, thereby protecting vital citizen information
- **3 Secure Claims Portal: End-to-End Interaction**

Developed a secure claims portal allowing citizens and ministry staff to submit, review, validate, and finalize claims seamlessly—keeping records and decisions protected and transparent for all stakeholders

Ministry Convening Power

LEBANON
TECH, AI & INNOVATION
summit 2025

International Participants



Investors



Big Tech and Startups



Over **500+ participants** from across the nation's innovation landscape, catalyzing **actionable partnerships, policy alignment, and investment pathways** to translate AI from **vision into measurable impact**

For more information, view the [Summit's website](#)



The Minister and MITAI team have actively participated in **50+ local, regional, and global conferences and forums:**



Strategic Partnerships & Memoranda of Understanding

20+

Strategic partnerships signed to accelerate Lebanon's digital transformation

Universities



Private Sector Organizations

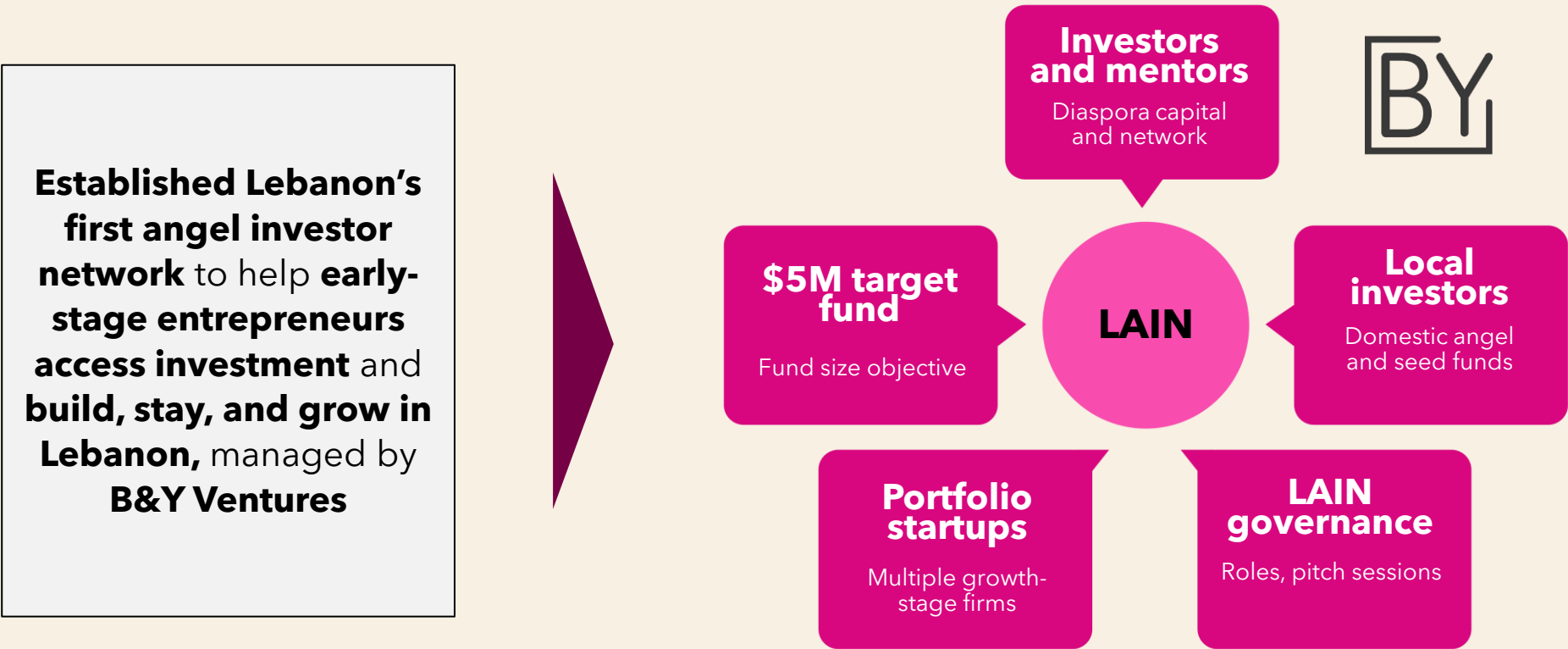


Ministries





Lebanon Angel Investor Network (LAIN)



NUMŪ - National Talent Development at Scale

ORACLE®

50K
Training Seats



100K
Certifications



Technical

Strengthen Lebanon's **cybersecurity** and build practical **cloud engineering** capabilities nationwide

Cybersecurity fundamentals

Network and security

Access management

Threat detection

Technical Depth and Resilience

01

Lebanon Coding

Equip **university students** and **early career professionals** with job ready **digital skills** and **AI fluency**

AI literacy and foundations

Productivity / prompting

Responsible and safe AI

Role-based AI scenarios

Job-Ready Talent Pipeline

02

AI Academy

Offer tailored **AI learning paths** for **leaders, educators, students,** and **developers**

Programming foundations

Data science fundamentals

Android Kotlin fundamentals

Python programming

AI fluency and Adoption at Scale

03

Digital Literacy and Inclusion

Expand **digital literacy** and **responsible AI awareness** across **communities** nationwide

Basics and internet use

Online safety / citizenship

Introduction to AI

Employability skills

Community Access to Digital and AI

04

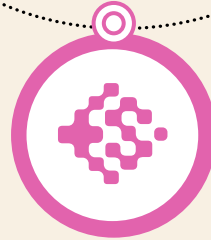
NUMŪ Implementation Partners

Training Providers

Deliver technical training, certifications and labs

Academic Institutions

Mobilize universities for curriculum, research and talent pipelines



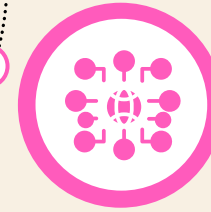
Tech Hubs

Provide incubation, events, and access to startups



Ministries, Municipalities, & the Public Sector

Align priorities, co-deliver programs, and scale implementation across public institutions



Professional Networks

Activate professional communities for mentorship, volunteering, and employer connections nationwide



Scan to
learn more!

2026 Priorities – Flagship Initiatives & Impact (1/2)



National Digital Infrastructure (NDI)

Roll out the national digital platform that standardizes service delivery across government—unlocking faster execution, interoperability, and real-time traceability



Digital ID

Implement trusted digital identity for secure online access—reducing fraud and enabling remote verification for high-trust public services



MoFA – End-to-End Digitization of Consular Services

Digitize priority consular services through a unified backbone, standardizing workflows across missions and enabling secure end-to-end processing while reducing processing times and operational costs



Ministry of Finance – Unified Payments Gateway

Deploy a centralized government payments gateway for secure digital fee collection, improving revenue transparency, reducing leakage, and enabling seamless integration across public services



One Stop Shop

Centralize seven business-registration steps via a digital platform plus physical centers, improving ease of doing business.



Digital Stamp

Deploy a secure e-stamp for fees and document authentication—reducing forgery and leakage while increasing transparent revenue collection

2026 Priorities – Flagship Initiatives & Impact (2/2)



Digital Diploma Attestation (Ministry of Education)

Start a pilot with selected universities to digitize diploma verification and attestation, reducing fraudulent credentials, accelerating processing, and enabling instant validation for employers / universities



Public Schools Training Rollout

Deploy digital and AI training programs across public schools in collaboration with the CERD, supporting both teachers and students



CodeForLebanon Activation

Onboard three priority government projects with Ministry of Economy and MEHE, launch national hackathons, and kick off high-impact digital public solutions



Lebanon Fund of Funds

Advance a national Fund of Funds to mobilize local, diaspora, and institutional capital into Lebanese venture funds—crowding in private investment and expanding access to growth financing for startups.



Innovation Playground

Launch a national platform that convenes government, startups, investors, corporates, donors, and academia, showcasing priority initiatives and accelerating partnerships, programs, and pilots



Lebanon Angel Investor Network (LAIN)

Operationalize a structured angel network connecting early-stage startups with local and diaspora angels to help startups scale in Lebanon

MITAI envisions a digitally enabled Lebanon that attracts talent, modernizes government, and scales innovation

MITAI Vision for 2030



Comments and Questions



Thank you

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