

# National Cybersecurity Strategy



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# **Rationale for a Cybersecurity strategy**

# The number of cybersecurity Incidents

Worldwide has doubled in the past year, resulting in a significant cost to the global economy

2x

Number of cybersecurity incidents globally  
(2016-2017)

42%

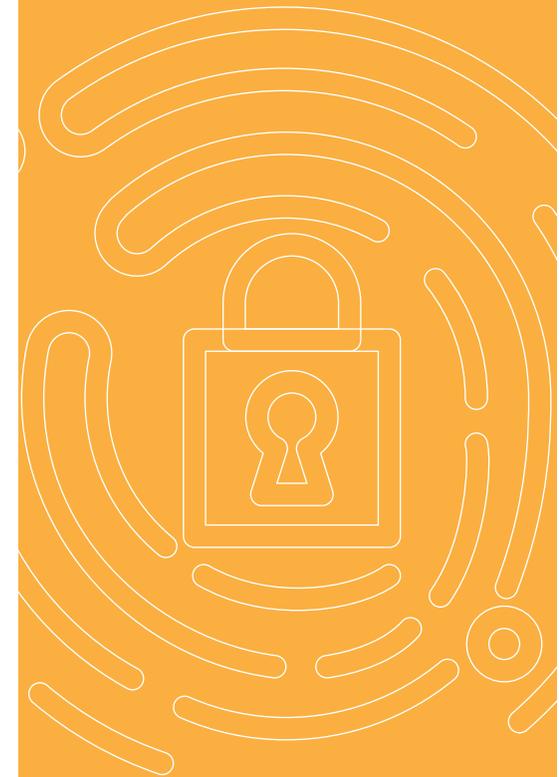
Increase in number of reported data breaches globally  
(2015-2017)

608

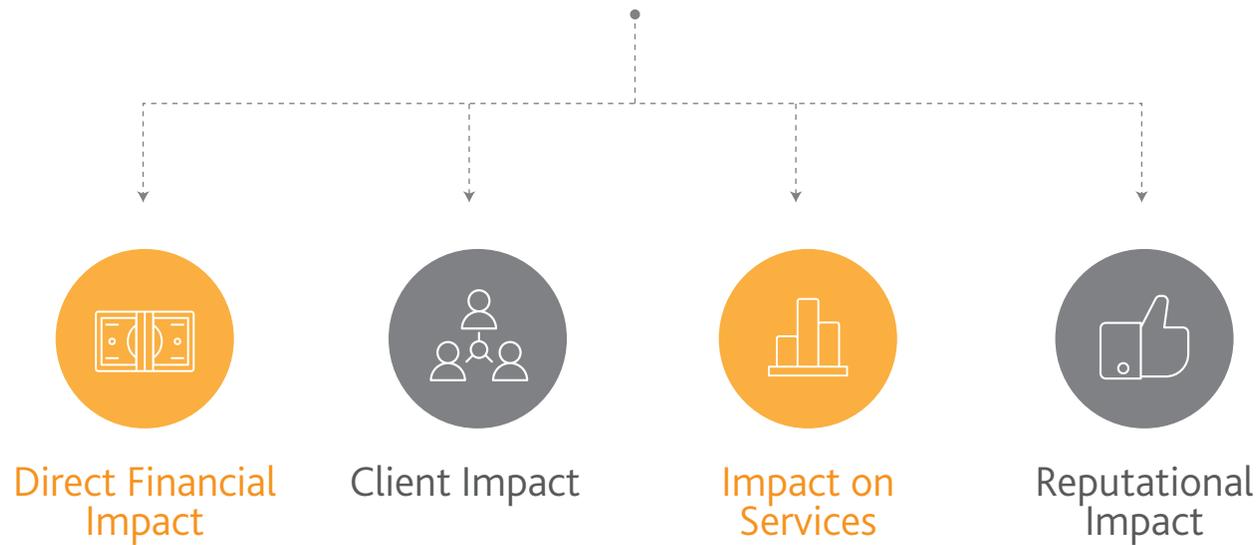
Annual global cost of cybercrime to the  
(\$USD Billion, 2014-2017)

3.9

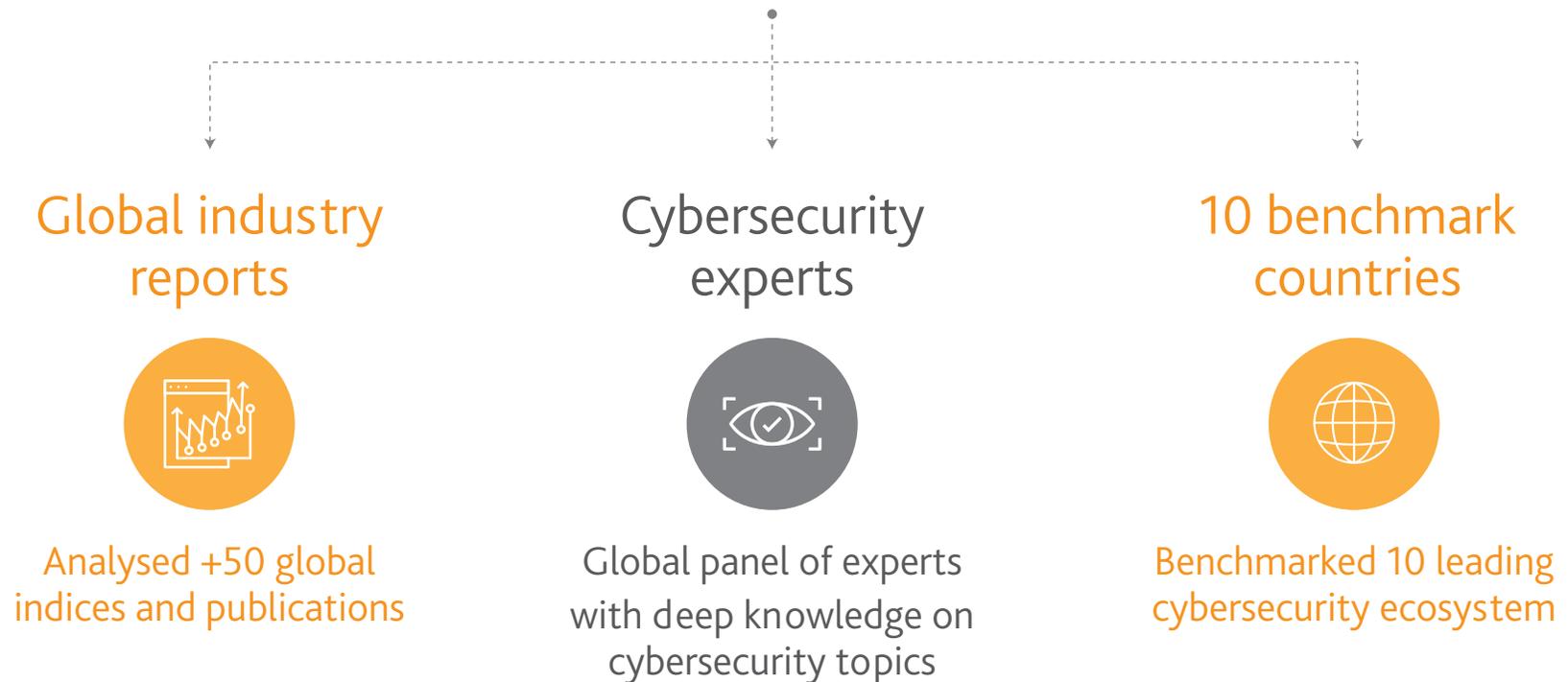
Average total cost of a data breach  
(\$USD Million, 2017-2018)

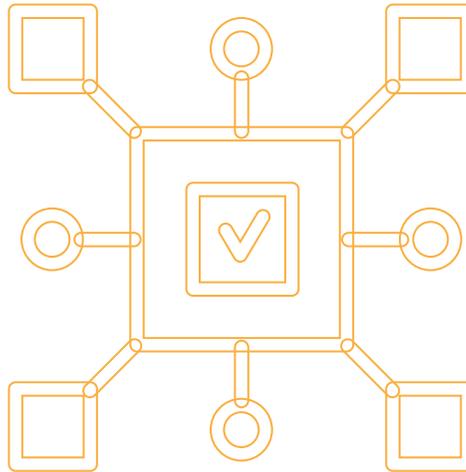


## The impact of cybersecurity incidents extends beyond economic losses



To develop the National Cybersecurity Strategy for the UAE, we leveraged  
**3 key sources of insights**





## **Our aspirations for the National Cybersecurity Strategy**

# Our vision for UAE's National Cybersecurity strategy

To create safe and resilient cyber infrastructure in the UAE that enables citizens to fulfil their aspirations and empowers businesses to thrive



Our **vision** will impact all segments of the society

## Aspirations



Provide **confidence to citizens**  
**to securely participate** in the digital world



**Celebrate contributions to innovation** in cybersecurity



**Foster a culture of entrepreneurship** in cybersecurity



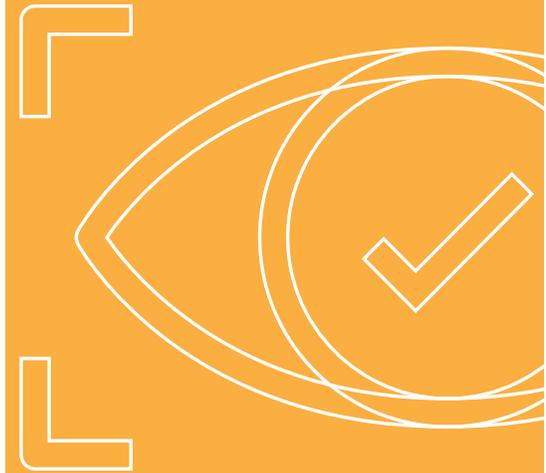
**Enable SMEs to safeguard themselves**  
against most common cyber attacks

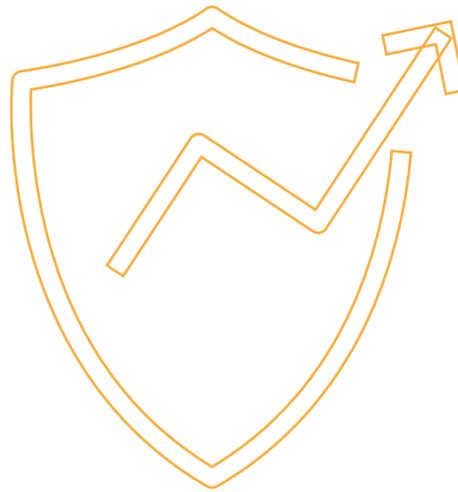


**Protect critical information infrastructure assets**  
of the country



Build a **world-class cybersecurity workforce** in the UAE





## **Strategy pillars**

# To achieve these aspirations, we will mobilize the whole ecosystem to deliver ~60 initiatives across 5 pillars



Cybersecurity laws & regulations

- Address all types of cybercrimes
- Secure existing and emerging technologies
- Support protection of SMEs



Vibrant cybersecurity ecosystem

- Support startups and promote R&D in cybersecurity
- Develop cybersecurity capabilities
- Drive citizen cybersecurity awareness
- Encourage excellence in cybersecurity



National Cyber Incident Response plan

- Single point of contact for victims of cyber incidents
- Standardized severity assessment and agency mobilization plan
- Cross-agency information sharing



CIIP program

- Identify critical assets in the UAE
- Establish world-class risk management standards
- Create robust processes for reporting, compliance and response



Partnerships

- Public sector
- Private sector
- Academia
- International consortiums



## **Cybersecurity laws & regulations**

# Designing a comprehensive cybersecurity legal and regulatory framework

## Our aspirations

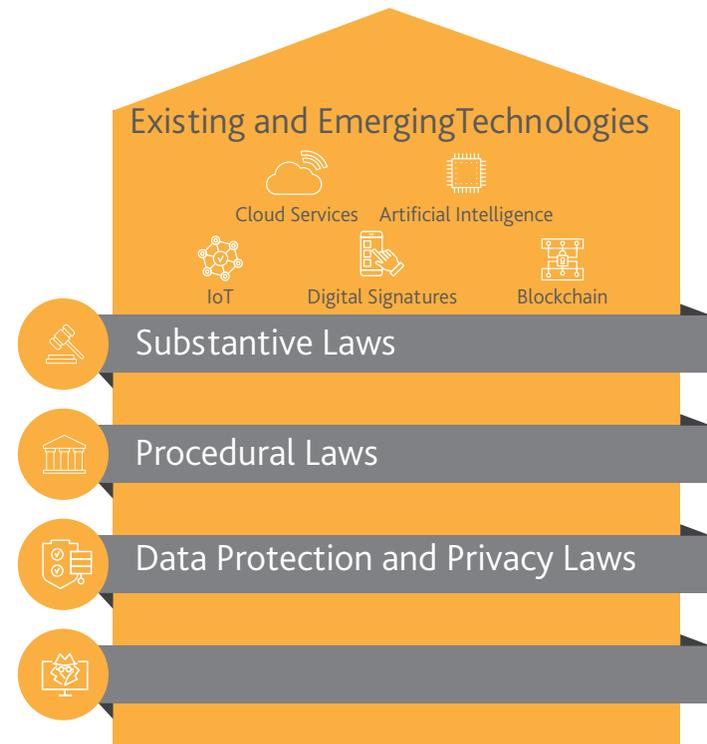
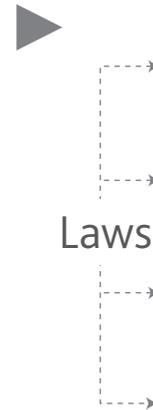


Create legal framework to address all types of cybercrimes



Build regulatory framework that will secure existing and emerging technologies

## Will be achieved through a comprehensive legal and regulatory framework



## Supporting protection of SMEs in the UAE

### Our aspirations

-  Provide guidelines to protect against most common cyber threats
-  Offer incentives to implement the recommended guidelines
-  Establish support systems to enable SMEs to implement guidelines



### Will be achieved through 3 key initiatives

-  Develop essential cybersecurity standard for SMEs
-  Mandate Cybersecurity implementation certification for government suppliers
-  Build one-stop portal for SMEs to enable SMEs to implement the standard



**Vibrant cybersecurity ecosystem**

# Enabling the ecosystem to capture the huge cybersecurity opportunity

## Our aspirations



Tap into the AED 1.8bn UAE cybersecurity market



Capture the AED 18bn MENA cybersecurity market



## Will be achieved through 24 initiatives across 7 pillars



Driving demand



Ease-of-doing business



Access to financing



Business support



Culture and mindset



Education and skill development



Innovation and technology adoption

# Developing capabilities of +40,000 cybersecurity professionals

## Our aspirations



Encourage professionals and students to pursue a career in cybersecurity



Develop necessary cybersecurity capabilities to meet aspirations of the country



Foster a vibrant ecosystem of cybersecurity training providers



## Will be achieved through 12 initiatives

Individuals



7 initiatives

Training providers



5 initiatives

# Creating cybersecurity citizen awareness in the UAE

## Our aspirations



Enable citizens to realize the risks related to the cyberspace



Influence citizen mindsets to practice cyber hygiene



Encourage institutions to actively spread cyber awareness



## Will be achieved through 12 initiatives targeting citizen segments



Children & Teens



College students



Professionals



Homemakers & Senior citizens



People with determination

# Rewarding excellence in cybersecurity through a national awards program

## Our aspirations



Encourage organizations to drive cybersecurity programs



Inspire entrepreneurs to innovate in cybersecurity



Support cutting-edge research undertaken by academic institutions



Motivate students to pursue cybersecurity careers



## Will be achieved through 12 initiatives targeting citizen segments

Entities



6 awards

Individuals



6 awards



# **National Cyber Incident Response plan**

# Establishing a robust National Cyber Incident Response plan to enable swift and coordinated response to cyber incidents in the UAE

## Our aspirations



Streamline cybersecurity incident detection and reporting



Establish standardized severity assessment matrix to mobilize the required support



Build world-class capabilities to respond to all types of cyber incidents



## Will be achieved through 4 key initiatives



Single Point of Contact



Advisories to protect against threats



Active Monitoring for cyber threats

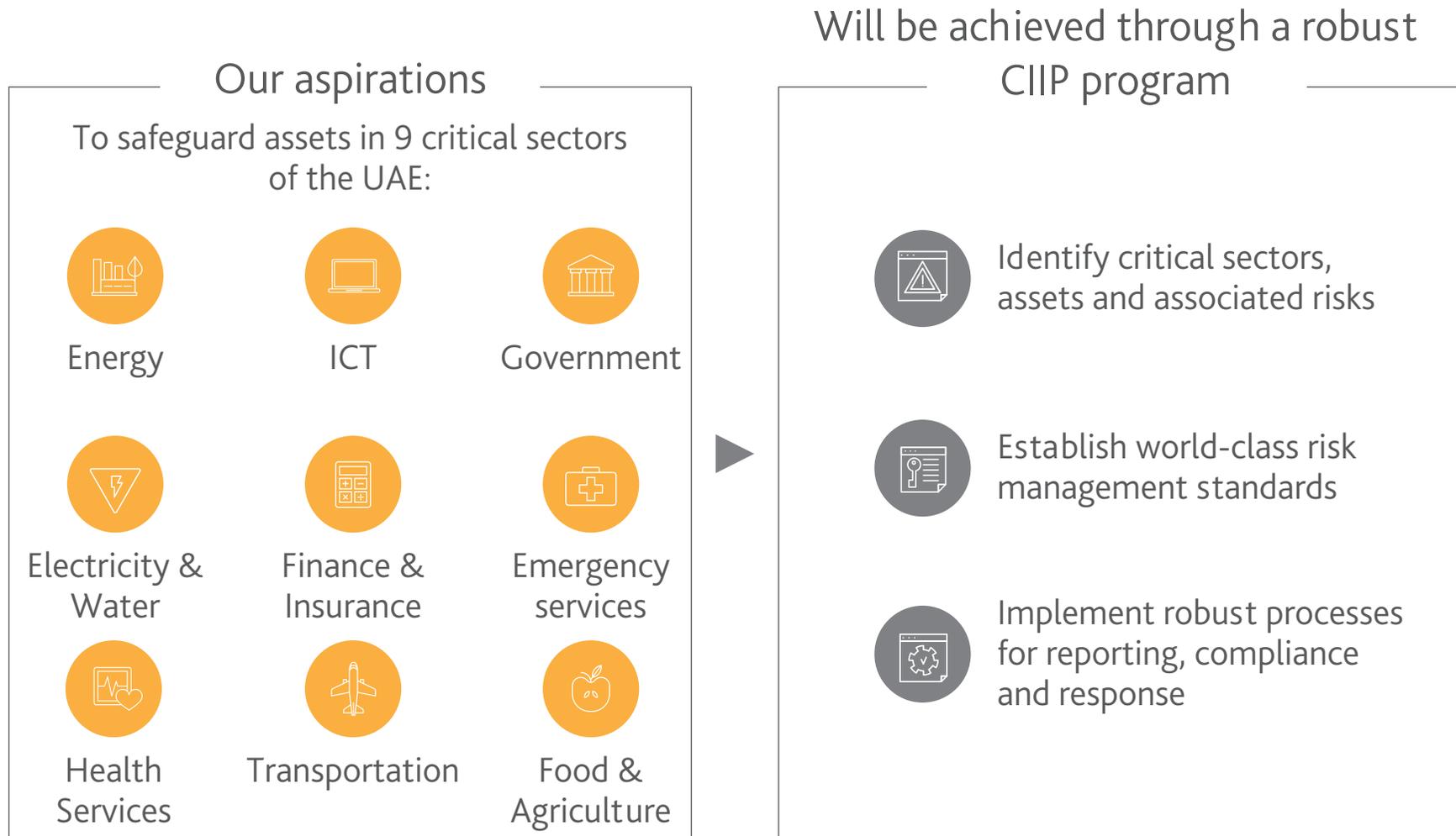


Cross-Agency Intelligence Sharing



**CIIP program**

# Protecting critical assets of the UAE in 9 sectors

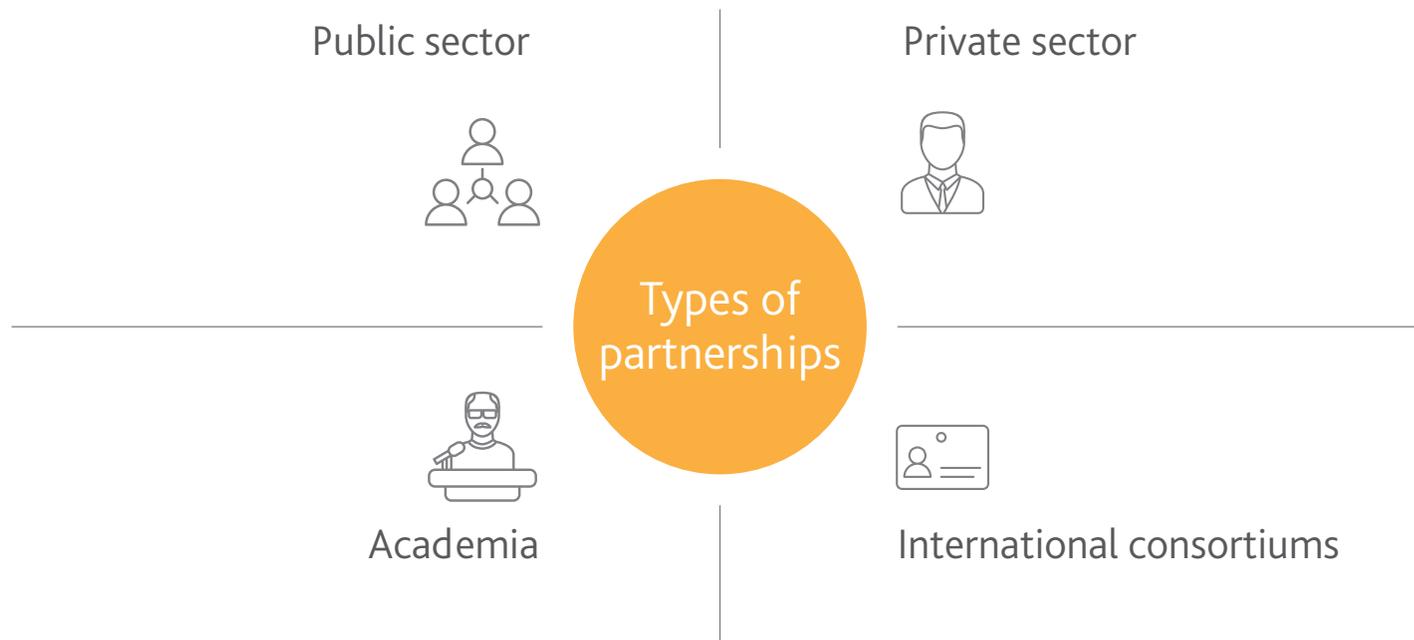




**Partnerships**

# Mobilizing the whole ecosystem through local and global partnerships

Partnerships are a core enabler in jointly achieving cybersecurity goals and ambitions





**Governance**

For successful implementation of the National Cybersecurity strategy, we will establish multiple governance vehicles

9 sector committees to implement the CIIP program...



And 2 vehicles for the National Incident Response plan



**TRA** will monitor progress and impact of the National Cybersecurity strategy through ~20 clearly defined key performance metrics

Collate data from multiple sources

- 1 Internal TRA data** – Data outputs from TRA initiative teams, aeCERT, etc.
- 2 Ecosystem data**- CIIP sector committees, NRC, CIU, law enforcement agencies, etc.
- 3 Global data** - Reports, threat intelligence, etc.

Will enable TRA to track the progress of the strategy

-  National Cybersecurity strategy Progress update
-  2 Strategic KPIs
-  17 Operational KPIs



هيئة تنظيم الاتصالات TRA  
TELECOMMUNICATIONS REGULATORY AUTHORITY

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