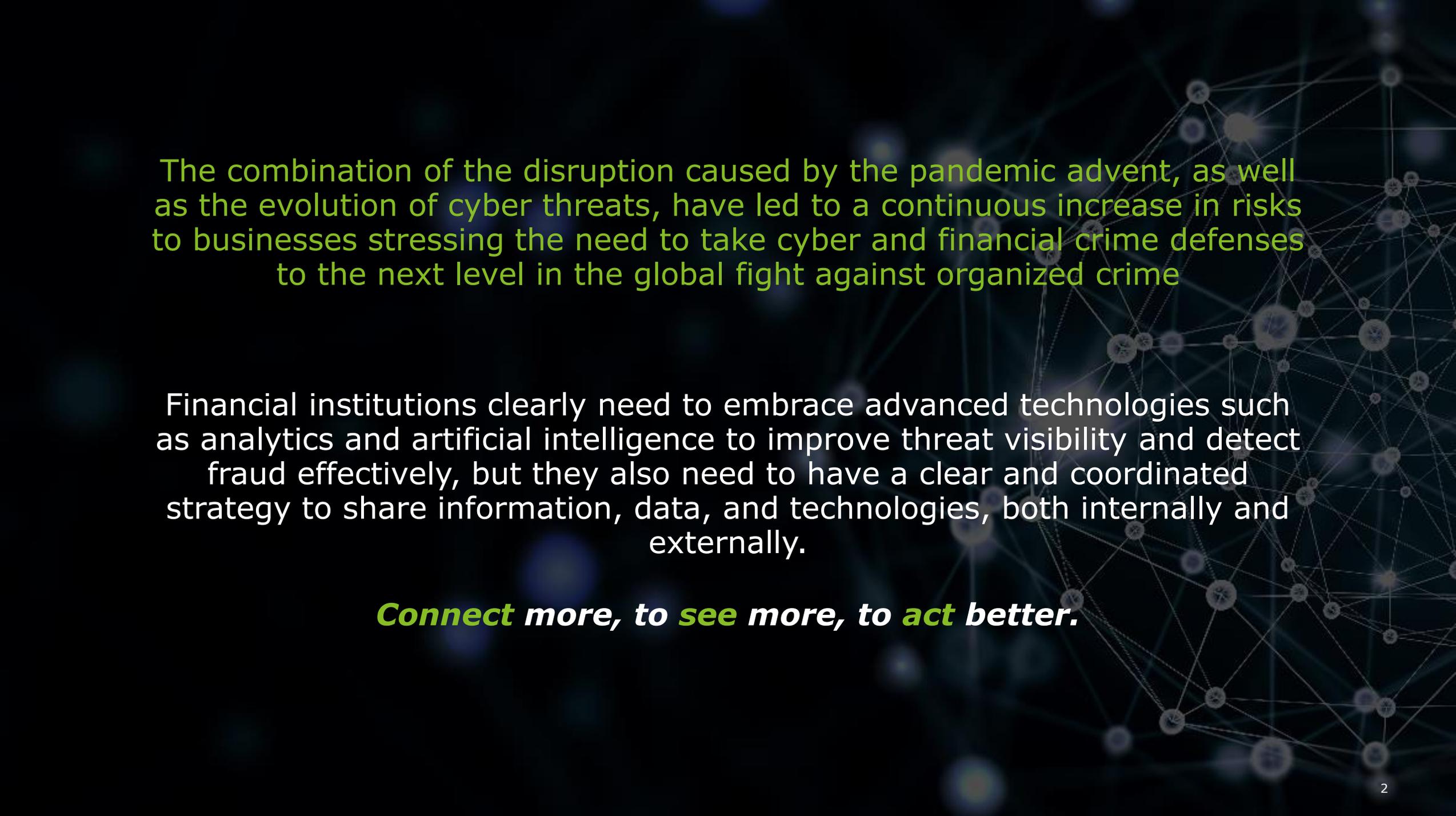


**Deloitte.**



**Cyber Risk and Financial Crime – The connected defense**  
Banche e Sicurezza 2022

Milan, 19<sup>th</sup> May 2022



The combination of the disruption caused by the pandemic advent, as well as the evolution of cyber threats, have led to a continuous increase in risks to businesses stressing the need to take cyber and financial crime defenses to the next level in the global fight against organized crime

Financial institutions clearly need to embrace advanced technologies such as analytics and artificial intelligence to improve threat visibility and detect fraud effectively, but they also need to have a clear and coordinated strategy to share information, data, and technologies, both internally and externally.

***Connect more, to see more, to act better.***

# Challenges of the new banking landscape

Banks are struggling to keep up with a rapidly evolving threat landscape

## THREAT LANDSCAPE & REGULATION ENFORCEMENT

In recent years, in response to the evolving threat scenario, there has been a **strong proliferation of regulations** that have pushed the FSI market toward a gradual strengthening of organizational and **internal control safeguards**

The regulator is trying to run for cover knowing that the threat landscape is now evolving, **addressing all relevant aspects in countering financial crime**, regulating the management of **payment processes and products** (PSD2 evolution), strengthening **operational resilience** (DORA) and emphasizing **critical infrastructure protection** (NIS2)

## CRIMINALS BEYOND BORDERS

Criminal organisations **do not recognise geographical borders** or institutional boundaries

They **operate without recognising any form of segmentation between cyber, fraud and money laundering**. They operate seamlessly, supported by a modern underground market of readily-available software and services

In comparison, **organisations continue to operate in siloes** with separate departments responsible for cyber, AML and fraud, reporting **into different management layers**, each with individual business priorities and goals

## DATA SEGMENTATION

Today's approach to data analytics is challenged by the **sophistication of organised criminal groups**

**The siloed approach** means important data and indicators of compromise are not shared across business units, preventing comprehensive analysis of new complex threats, leaving criminal groups to **undertake illegal activities across multiple parts** of the organisation without being caught

Defences are primarily focused on confirming false positives rather than detection and prevention



# The rising impact from cyber and financial crime – some examples

Siloed capabilities and disconnected data inhibit prevention of cyber and financial crime

## ⚠️ EVOLVING THREATS

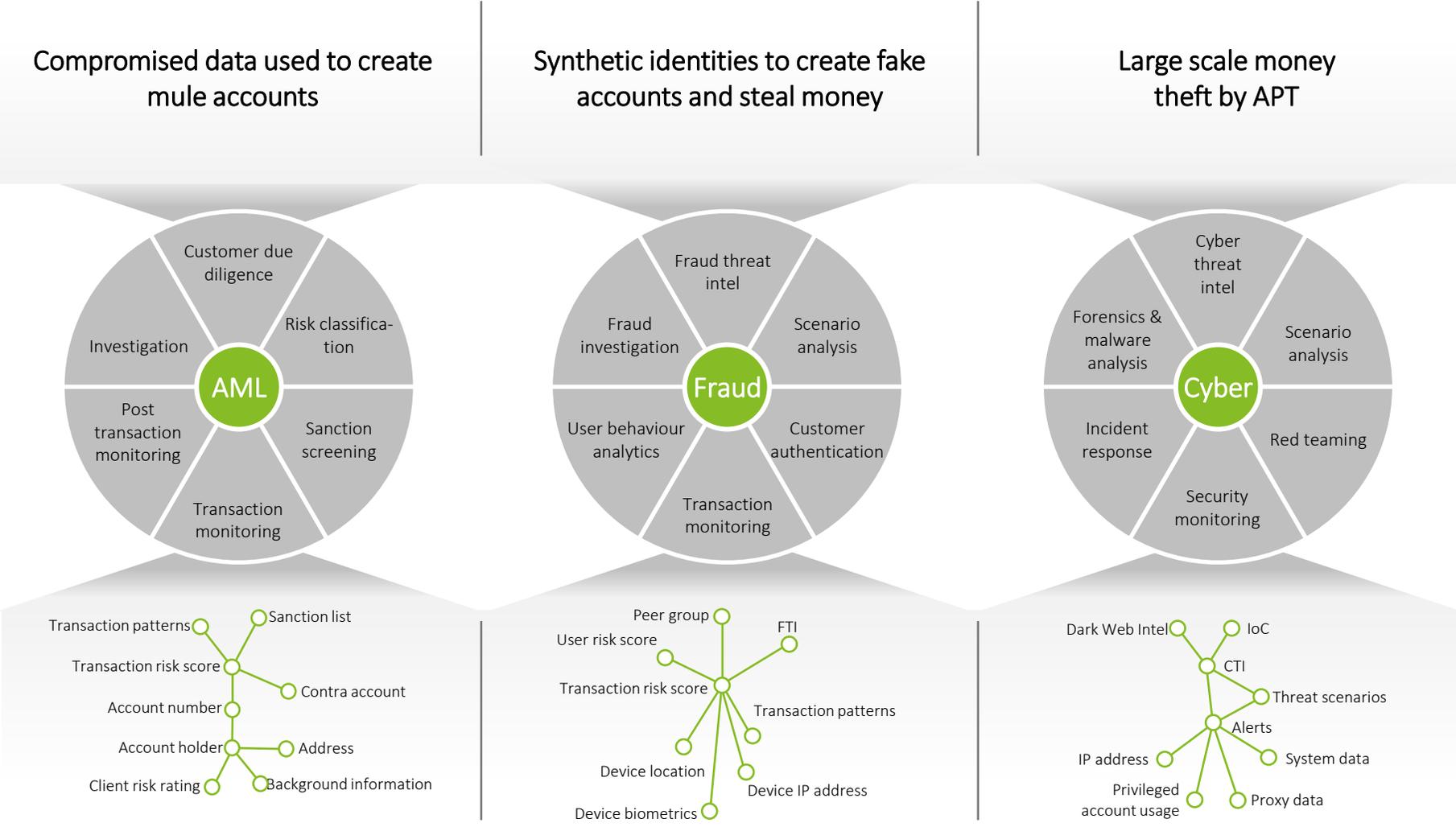
- Cyber and financial criminals don't distinguish between cyber, fraud and AML
- Criminals run sophisticated operations, with fast innovation and agility

## ⚠️ SILOED CAPABILITIES

- Reliance on point solutions and manual effort
- Scarce expertise distributed across domains to tackle similar problems in isolation
- Compliance-focused with static rules that are easy to understand

## ⚠️ DISCONNECTED DATA

- Separated data streams only cover narrow sections of the attack chain with disconnected data points



# Our Vision: connect more, to see more, to act better

An overarching data and capability model for more effective detection and response

## ✓ Cross-domain Threat Intel

- Correlate **cross-domain cyber and financial crime intelligence**, instead of focusing on individual items of intelligence within each domain

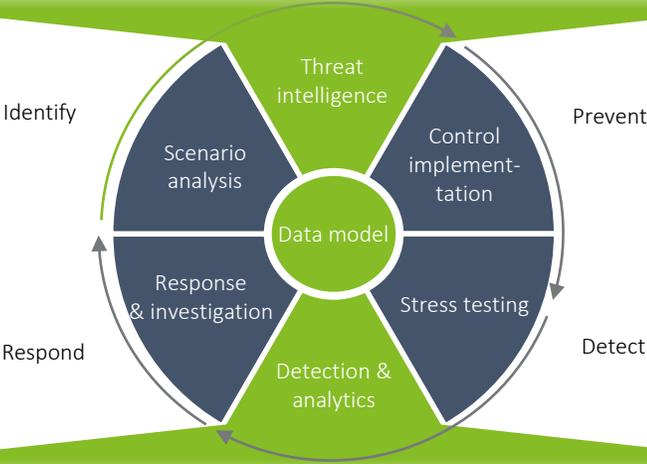
Compromised data used to create mule accounts

Synthetic identities to create fake accounts and steal money

Large scale money theft by APT

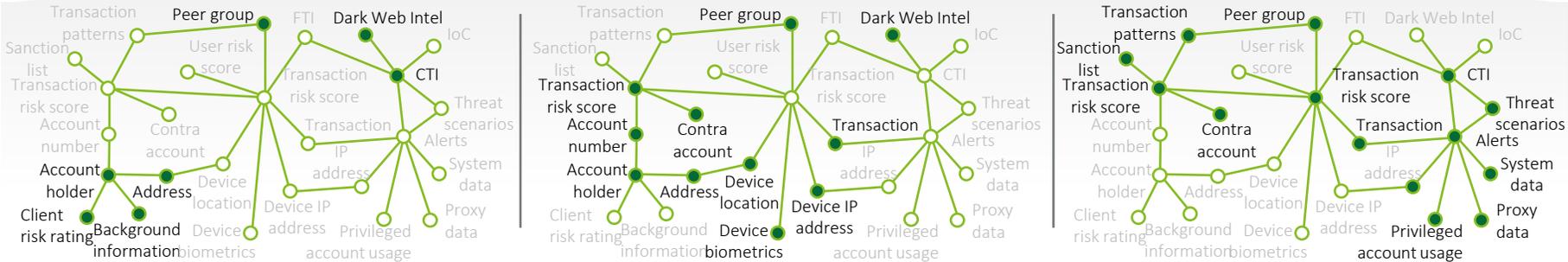
## ✓ Unified Capability Model

- **Scenario analysis** to identify and prioritise all cyber and financial crime threat scenarios with a uniform approach
- **Control implementation** aligned across AML, cyber and fraud to better prevent, detect and respond to threats
- **Integral stress testing** to validate control effectiveness and drive continuous improvement
- **Integrated Detection, Response & Investigation** team as a central nerve centre to connect more, see more and act better



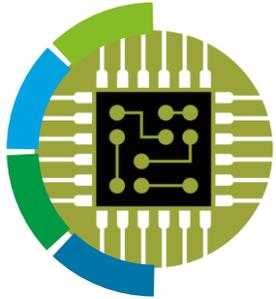
## ✓ Unified Data & Analytics

- Develop an overarching data structure to collect, classify and correlate data across AML, cyber and fraud



# Deloitte's CyFi framework

Breaking down siloes to take Cyber and Financial Crime defences to the next level against organised crime



## Embracing new technology and harmonised data...

- Consolidated data and **harmonised technology** improve **efficiency** and **effectiveness** of **detection** and **response capability**, allowing you to **focus efforts** where they truly matter

## ...to enable end-to-end visibility and response capability...

- **Detection** and **prevention capabilities**, **data**, **knowledge**, **expertise**, and **budget** are spread across organisational siloes, **inhibiting** the **necessary collaboration** and harmonisation of controls across **cyber, fraud, and AML domains**
- Deloitte's **Fusion data model** offers a **comprehensive approach** to combatting cyber-financial crime



## ...and facilitate more effective collaboration, within and between institutions

- **Cyber and Financial Crime initiative (CyFi)** proposes **breaking down barriers internally** and **between other institutions** to improve **visibility** on cyber and financial crime
- With **complete visibility** across all **data**, you can see **the bigger picture** and **act with greater certainty and efficacy**, reducing false positives and reinforcing regulator and customer confidence

# Deloitte's CyFi framework

Our vision focuses on enabling six core components to success

## Fused intelligence

Fused cyber and financial crime intelligence to focus on priority and realistic threat lead scenarios

## Joint response and investigation

Increase the effectiveness of cyber and financial crime incident response with multi-disciplinary expert investigation teams

## Integrated detection

Leverage integrated technology platforms to enable the detection of threats and attacks more holistically



## Harmonised operations

Harmonise cyber, fraud, and AML operations into a single 'joint' operating model

## Consolidated capabilities and controls

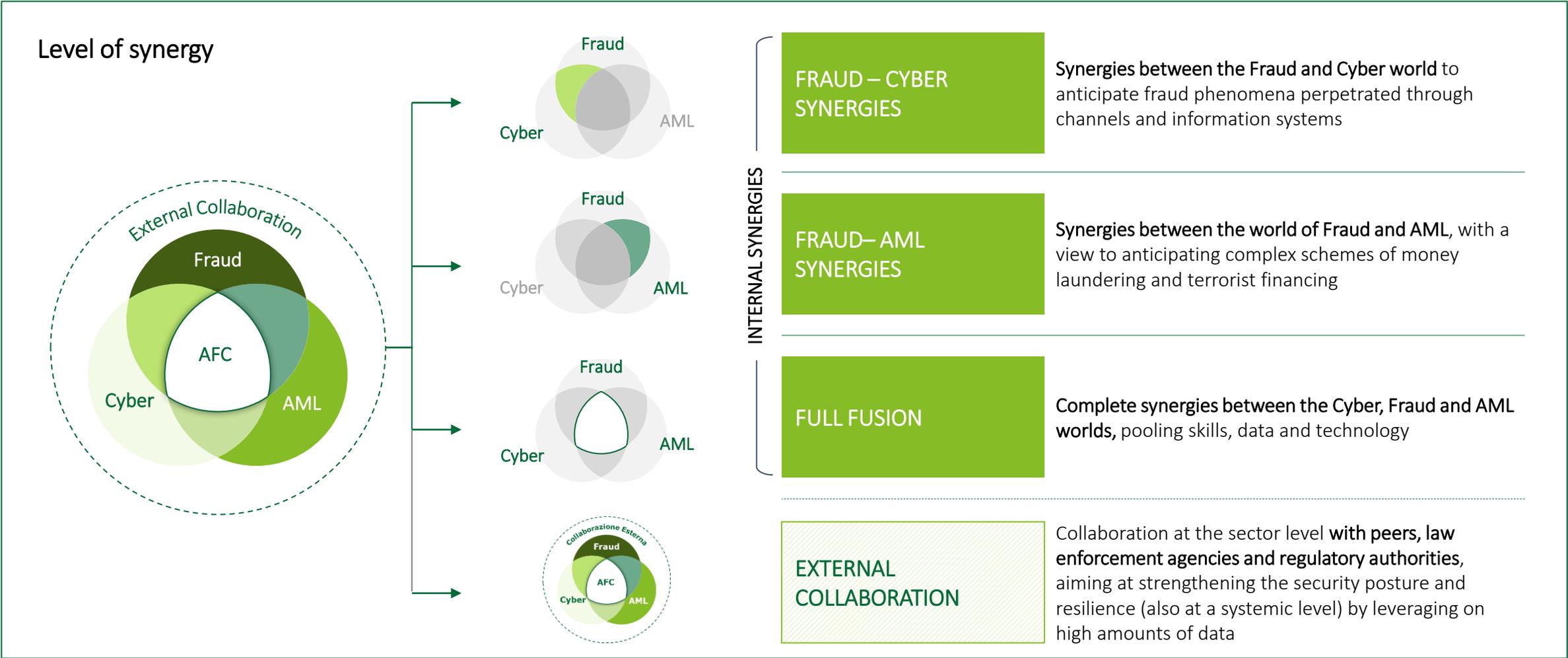
Consolidate key proactive and pre-emptive controls into a comprehensive cyber and financial crime capability model and control framework

## Data science and insights

Leveraging a single unifying model to source appropriate data from across these risk domains and enable advanced analytics to achieve real-time correlation and insight

# Possible applications of the framework

Combining internal synergies and external collaborations to strengthen capacity to address priority risks



# Establishing external collaboration – The Transaction Monitoring Nederland (TMNL) case

TMNL is a collaboration of five banks to provide faster, better and more effective transaction monitoring

## Transaction monitoring in numbers

Five founder banks, NL, 2019

35 million customers

9,8 billion transactions / year

~500 FTE employees

202 thousand alarms / years



The establishment of the TMNL platform has allowed **significant benefits in terms of effective controls and prior identification** of recycling attempts for the various players who participated in the initiative

## TMNL objectives

TMNL allows institutions that need to monitor their transactions to centralize most of their activities with the objectives of ...

Streamline the use of (public) resources for criminal investigations

Improving the identification of money laundering and terrorist financing schemes

Protecting the integrity of the Dutch financial system

Promoting (public-private) collaboration in the fight against financial crime



Improve the usability of reporting between banks

TMLN sees a **sub-set of leading banks that have guided the path of establishment of the program**, followed by the additional banks involved in the program

***THANK YOU!***

The image features a dark blue background. On the right side, there is a complex network of glowing white nodes connected by thin white lines, resembling a data network or a molecular structure. On the left side, there are several out-of-focus, glowing light spots in shades of blue and white, creating a bokeh effect. The text "THANK YOU!" is centered in the middle of the image, written in a bold, italicized, white sans-serif font.

***Annex***

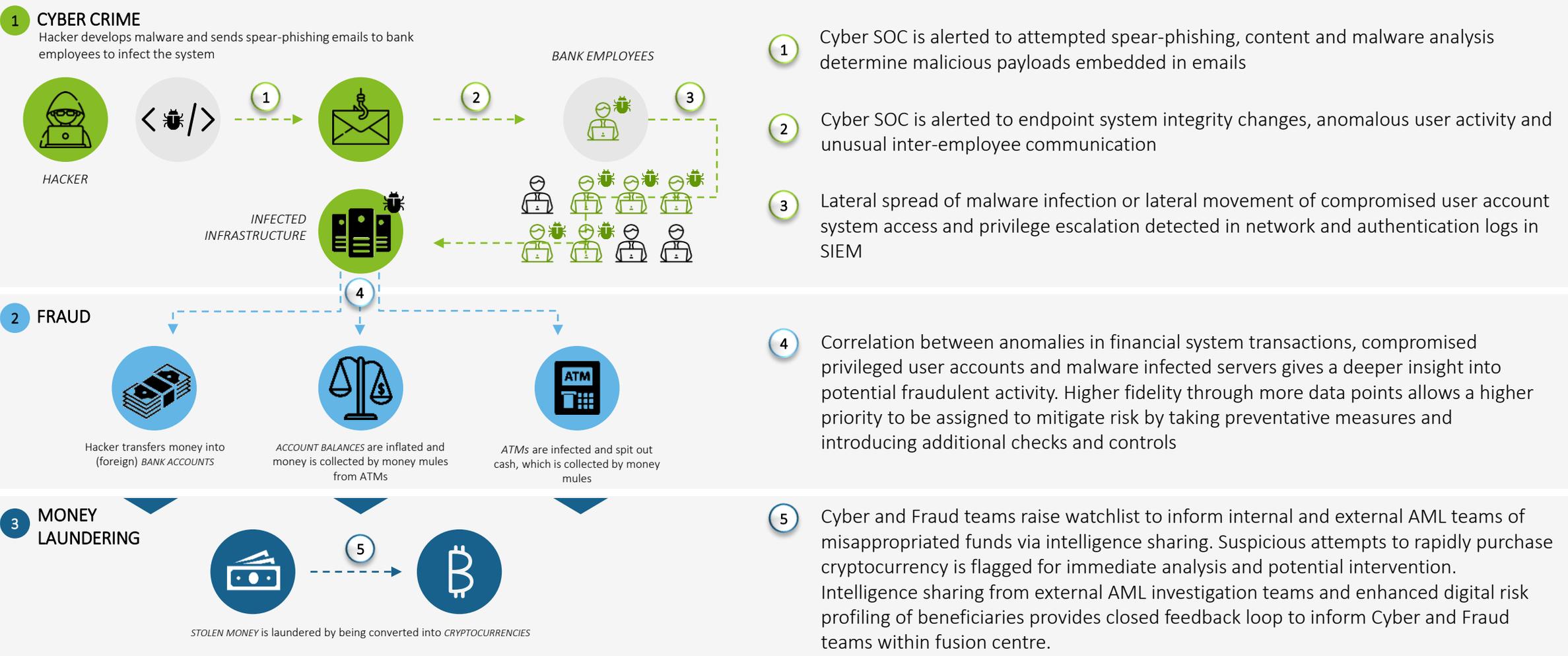
# Predicting, preventing and detecting activity across an extended kill chain

Because criminal activities don't recognize our operational silos

## The Carbanak / Cobalt case

### Anatomy of a computer fraud and money laundering attack<sup>1</sup>

### Defence in depth through fusion



1. Source: Europol - "Mastermind behind EUR 1 billion cyber bank robbery arrested in Spain"

# Market context – The evolution of AFC approaches

Establishment of a consortium to enhance the presence on specific areas

FRAUD – CYBER SYNERGIES

FRAUD – AML SYNERGIES

FULL FUSION

EXTERNAL COLLABORATION

Cooperation	Geography	Description	Public/ Private-led	Areas considered		
				Cyber	Fraud	FinCrime
Digital Fraud Call	United Kingdom 	SME expert call	Private-led	✓	✓	
AUSTRAC	Australia 	Mandatory intelligence-sharing FIU	Public- led			✓
JMLIT	United Kingdom 	Public-private partnership to combat money laundering	Public- led			✓
FinCEN	United States 	Exchange of information on priority threats	Public- led	✓		✓
FMLIT	Hong Kong 	Pilot stage typology sharing taskforce	Public- led	✓		✓
CIFAS	United Kingdom 	Not-for-profit fraud collaboration	Private-led	✓	✓	✓
Electronic Crime Task Force	European countries 	Centralized e-crime response center, with dedicated in-house analysts	Public- led	✓		
European Intelligence Task Force	European countries 	Public-private financial intelligence utility	Equal	✓		✓