



INSEC WORLD

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# Cyber Security in Today's World

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[www.insecworld.com](http://www.insecworld.com)

**20,500**  
talents

11,200  
in Europe

4,075  
in North America

4,320  
in Asia

905  
in rest of the world



Over  
**10,000**  
customers

Collaborations  
with the leading  
global brands

**WOMEN AND MEN  
AT THE HEART  
OF OUR  
DEVELOPMENT**

**~2,000**  
new hires  
every year



Presence in

**55** countries

**144** plants

**15** R&D  
centers

# INNOVATION DRIVEN



WE ARE INNOVATION  
DRIVEN



IN THE TOP 100 GLOBAL INNOVATORS,  
FROM 2012 TO 2018

- ❖ **1,600** researchers, **60** R&D partnerships
- ❖ **15** R&D centers on 3 continents (Europe, Americas et Asia)
- ❖ **222** patents filed in 2019,  
67% relating to sustainable development issues
- ❖ **2.8%** of Group sales allocated to R&D
- ❖ **~15%** of sales consist of products marked  
for less than 5 years
- ❖ **1** incubator dedicated to breakthrough innovations

# OUR WORLD IS CHANGING FAST, ACCELERATING DEMAND FOR NEW MATERIALS



**Future of mobility**



**Urbanization**



**Environment**



**Industry 4.0**



**Consumer demand**



Lightweighting

Durability

Batteries (energy storage)



Insulation

Energy efficiency

Modular construction



Wind, solar, hydrogen

Water treatment

Renewable resources



3D printing

Miniaturization

Smart devices



Personalized designs

Performance

Sustainability

# DIVERSIFIED GROWTH MARKETS



# AGENDA

1

Arkema vision about Cyber Security in Today's World



2

Cyber Security Effort at Group Level



3

Cyber Security Project in China



# AGENDA

1

## Arkema vision about Cyber Security in Today's World







# ... AND OUR EXPOSURE TOO

❖ The adherence of the business to IT and Digital and increasingly important



Cloud Journey



Data Driven Strategy



Application Interconnection



IoT



IA

❖ Still on premise infrastructures with challenges to address



Hybrid Architecture



Network Segmentation



Vulnerability Management



Data Protection



Obsolescence Debt

# MOVE OVER THE FORTRESS APPROACH, TIME FOR THE AIRPORT!

## IT Security model = Fortress model



- Peripheral security (firewall, DMZ ...)
- Infrastructure oriented
- Trust inside the Fortress : One trust zone
- The security is the responsibility of a dedicated team

## Cyber Security model = airport model



- Integrity check (IDS/IPS, DLP...)
- Tower control : Detect & Response
- Zero Trust model : Multizone trust
- The security team "infuses" the principles of Cyber Security Shared responsibility

→ The airport model is a game changer:  
We are all an actor of our common Security posture

# AGENDA

1

Arkema vision about Cyber Security in Today's World



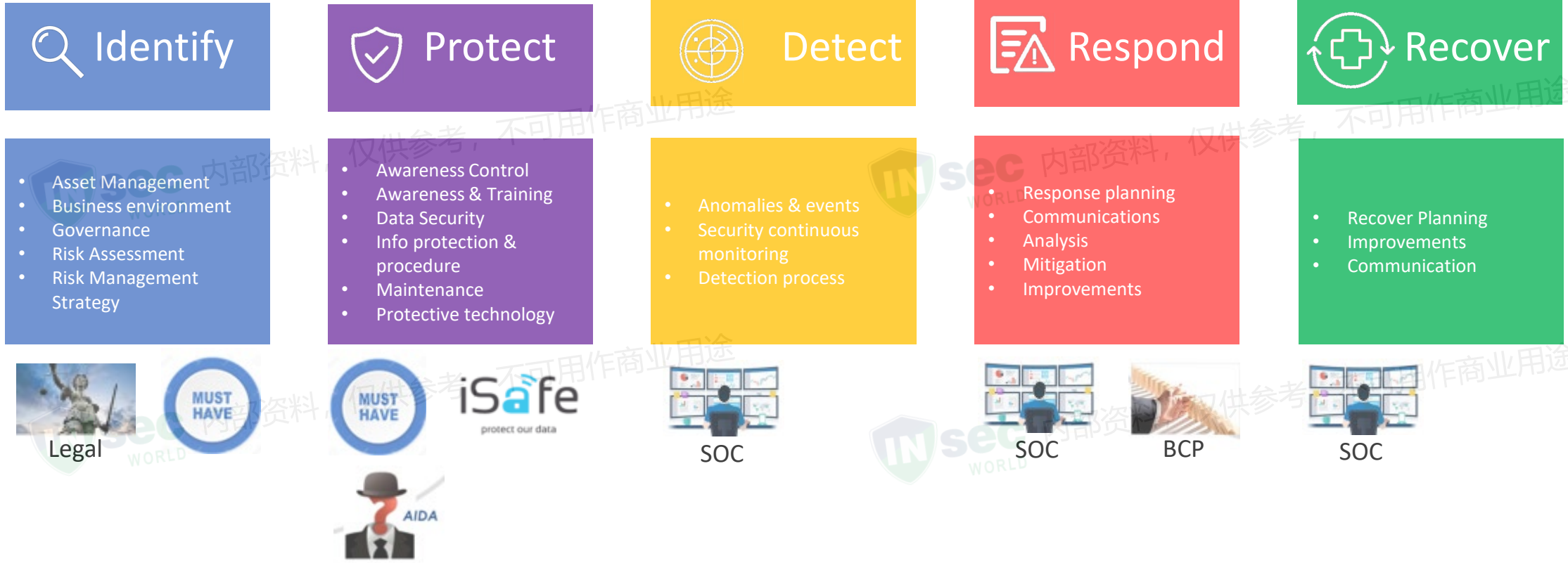
2

Cyber Security Effort at Group Level



# ARKEMA CYBER SECURITY MISSIONS

❖ The 5 missions of Arkema's Group Cyber Security Team following the NIST\*\* international standard



**NIST**  
National Institute of Standards and Technology  
U.S. Department of Commerce

**NIST:** National Institute of Standards Technology. US Department of Commerce

# ARKEMA CYBER SECURITY CHALLENGES WITHIN COVID-19 CONTEXT



## Focus on operations and threats monitoring with a daily meeting to assess the situation

- **Communicate to the users the good behaviors for Cyber in work from home configuration**
  - Regular communication through Mail, Yammer, Intranet and Teams (Cyber Live Event...)
- **Reduce as much as possible the backlog to ensure the highest reactivity**
  - “Stock & Flow” under control.
- **Cyber exemption to support the new context of IT usage (massive work from home, remote access...)**
- **Set-up urgent remote access capabilities for industrial sites**
  - 10 new remote accesses were granted
- **Accelerate the deployment of Citadel for secure communication**
  - > 500 + users deployed the first week of the lockdown



## Arkema did not face any critical or major Cyber event during the Covid period, but we experienced

- **An increase in the number of phishing attempts**
  - Numerous email and Internet addresses blocked by the SOC (+50%)
- **An increase of request coming from French security agency to search suspicious Indicator of compromise (IOC) within our system:**
  - +10 researches done and analyzed with no cyber incident detected

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# PROJECT TEAM ON CHINA CYBER SECURITY LAW



# WORKING AREA ON CSL:



## Organization

- Set up project team with all relevant departments.
- Name dedicated Company Cyber Responsible.
- Promote CSL concept



## Network Operation Security

- Combine CSL requirements with group Cyber security initiatives.
- Prepare and carry out grading



## Network Information Security

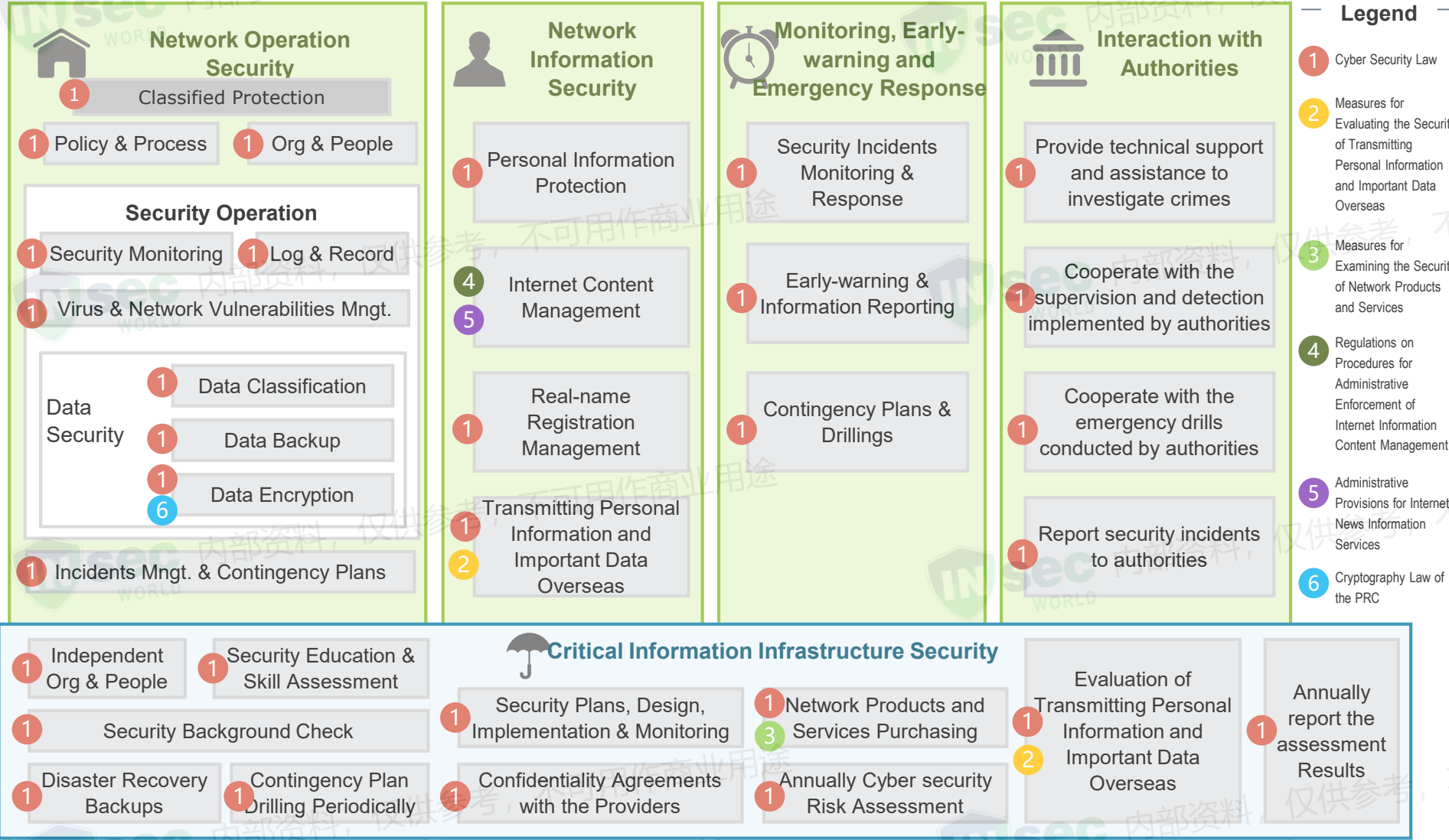
- Implement personal data protection rules, procedures.
- Optimize internal data compliance regime based on CSL requirements.
- Conduct security assessment of cross border data transfer





# ASSESSMENT FRAMEWORK

## Cyber Security Compliance Pre-assessment Framework



THANK YOU - MERCI - 谢谢 !!

