



# Device Crime Update

Fighting Counterfeit Device

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Prepared by: Chris Li, Outreach Director, IMEI Blacklist Service



# The GSMA represents the interests of mobile operators worldwide



The GSMA was founded in **1987**

12 Offices worldwide:



London



Dubai



Atlanta



Brussels



Barcelona



Hong Kong



Brasilia



Buenos Aires



Sao Paulo



Nairobi



New Delhi



Shanghai



The GSMA represents the interests of mobile operators worldwide



Uniting nearly **800** mobile operators



With **300+** companies in the broader mobile ecosystem



GSMA events, attract over **200,000+** delegates from across the global annually

The GSMA works to deliver a regulatory environment that creates value for consumers by engaging regularly with:



Ministries of Telecoms



Telecoms regulatory authorities



International & non-governmental organisations



Connecting **24,000+** industry Experts Exclusively for GSMA Members, InfoCentre<sup>2</sup> is your place to connect with a global community of industry experts

GSMA Working Groups provide frameworks and standards in commercial, operational and technical matters that help maintain and advance mobile industry ecosystems



**Eight billion+** Mobile connections worldwide



# Device Crime and Fraud



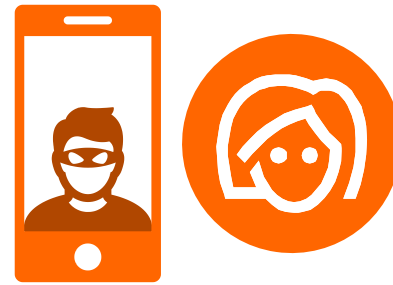
## Counterfeit Devices

Manufacturer loss \$  
Poor performance  
Safety concerns  
No warrantee



## Illegal Import

Government  
taxation loss \$  
Un-level playing field  
for legitimate device  
providers



## Device Theft

Consumer loss \$  
Personal injury  
Buying stolen goods  
Insurance claims  
Insurance fraud



## Subscription Fraud

Operator loss \$



# Counterfeiting requires an international strategic response



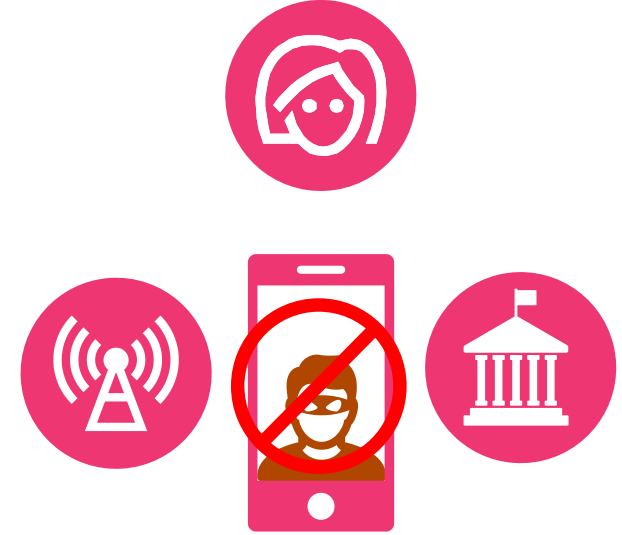
**Prevention at Source**  
Enforce bona-fide  
manufacturing practice

**High value  
effort**



**Boarder Protection**  
Enforce legal export  
and import

**Multiple  
efforts**

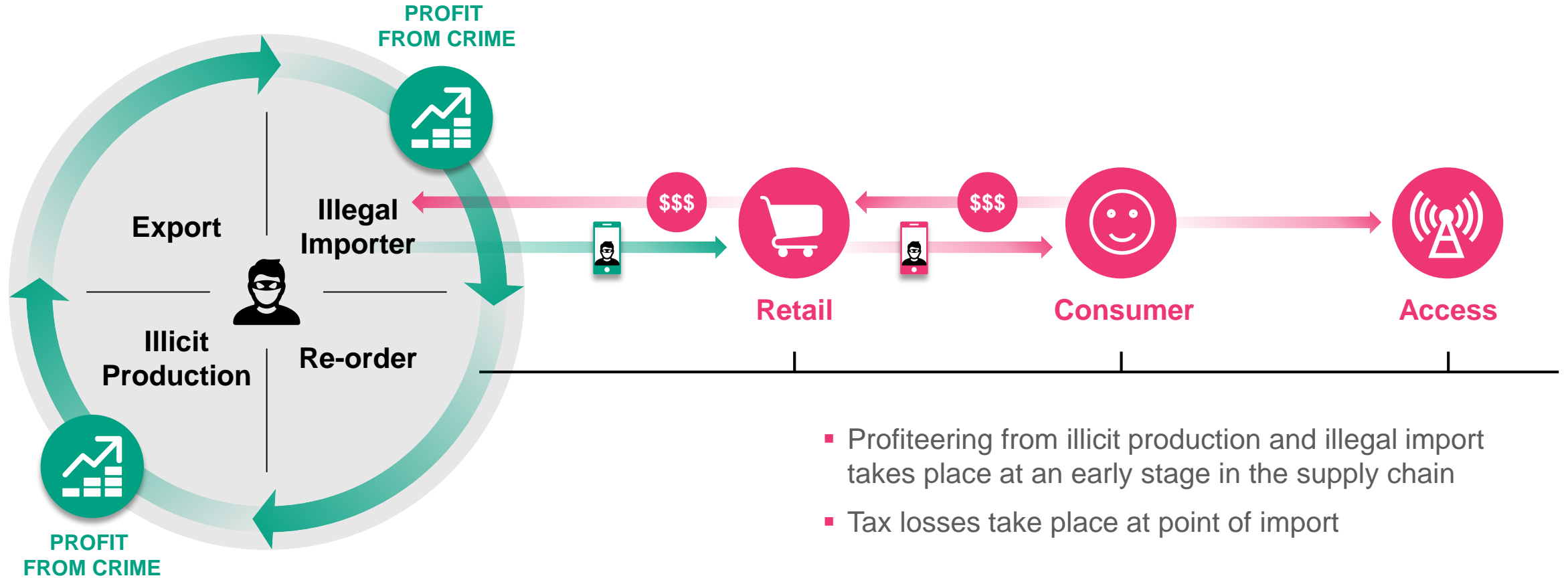


**Local protection**  
Implement local  
counter measures

**Multiple high  
cost efforts**



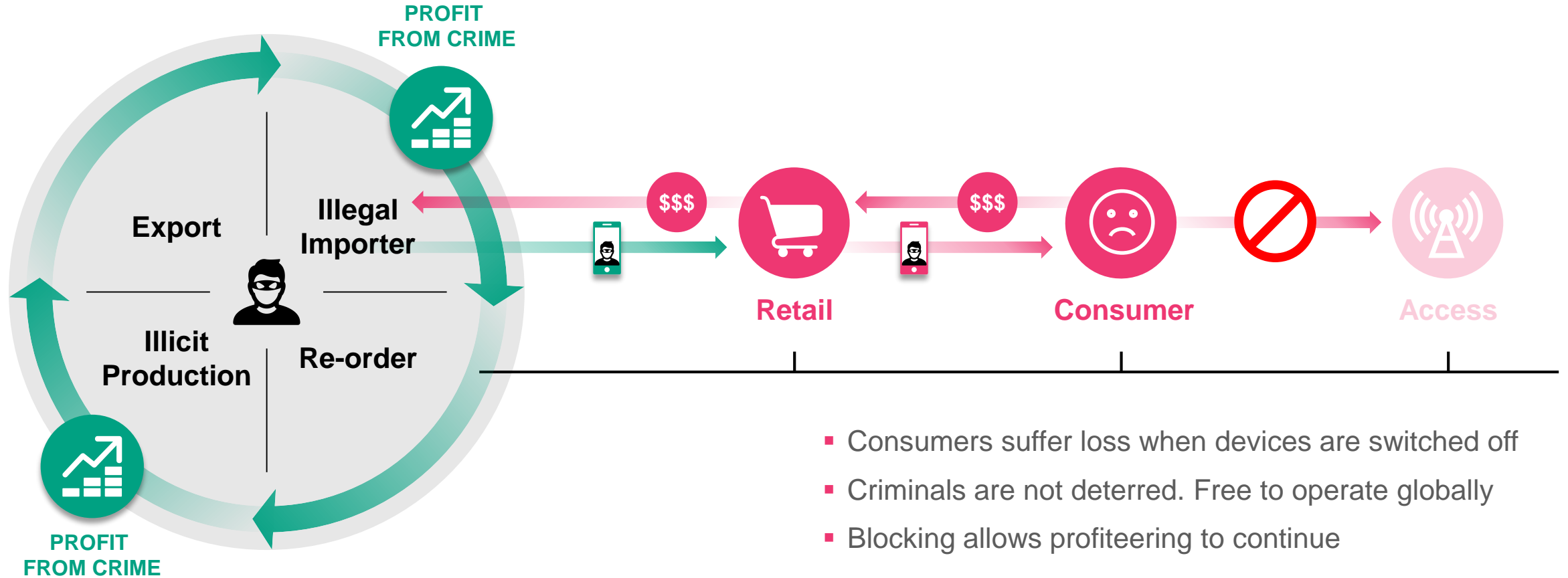
# Illegal Import and Counterfeit Ecosystem



- Profiteering from illicit production and illegal import takes place at an early stage in the supply chain
- Tax losses take place at point of import



# Blocking does not deter profiteering from counterfeiting and fraud



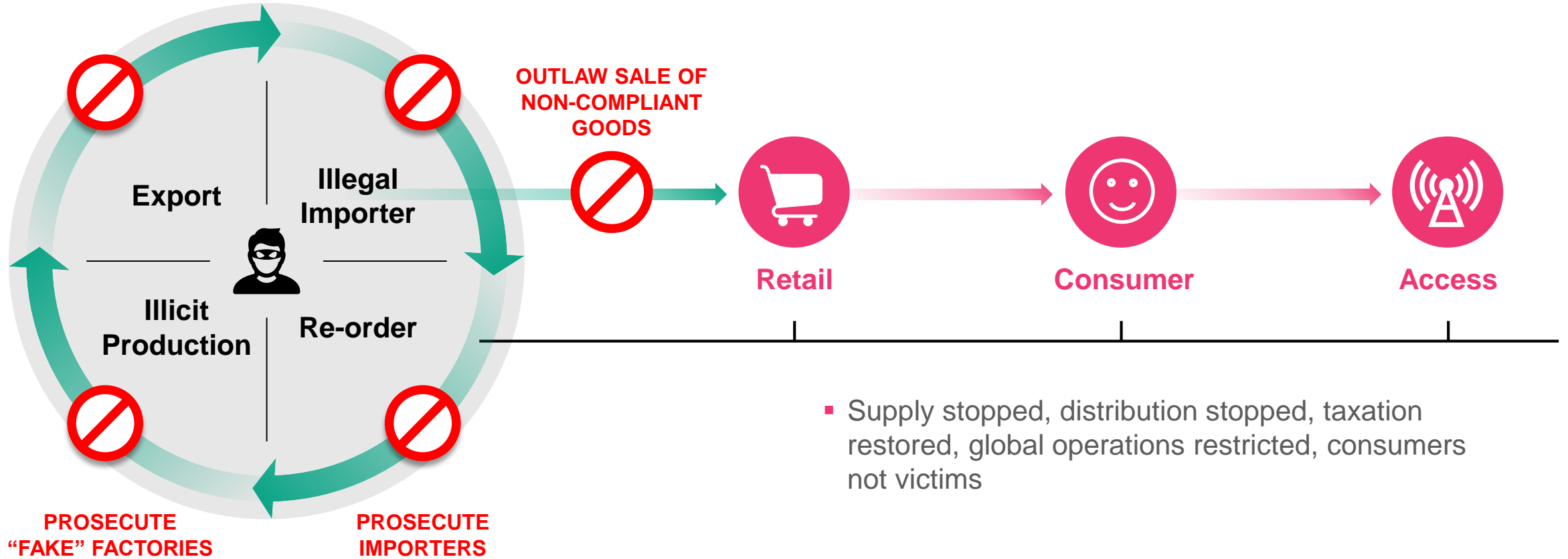


# Illegal Import and Counterfeit Ecosystem

CUSTOMS AGENCIES  
SCREEN EXPORTS  
VS GSMA WHITE LIST



CUSTOMS AGENCIES  
SCREEN IMPORTS  
VS GSMA WHITE LIST



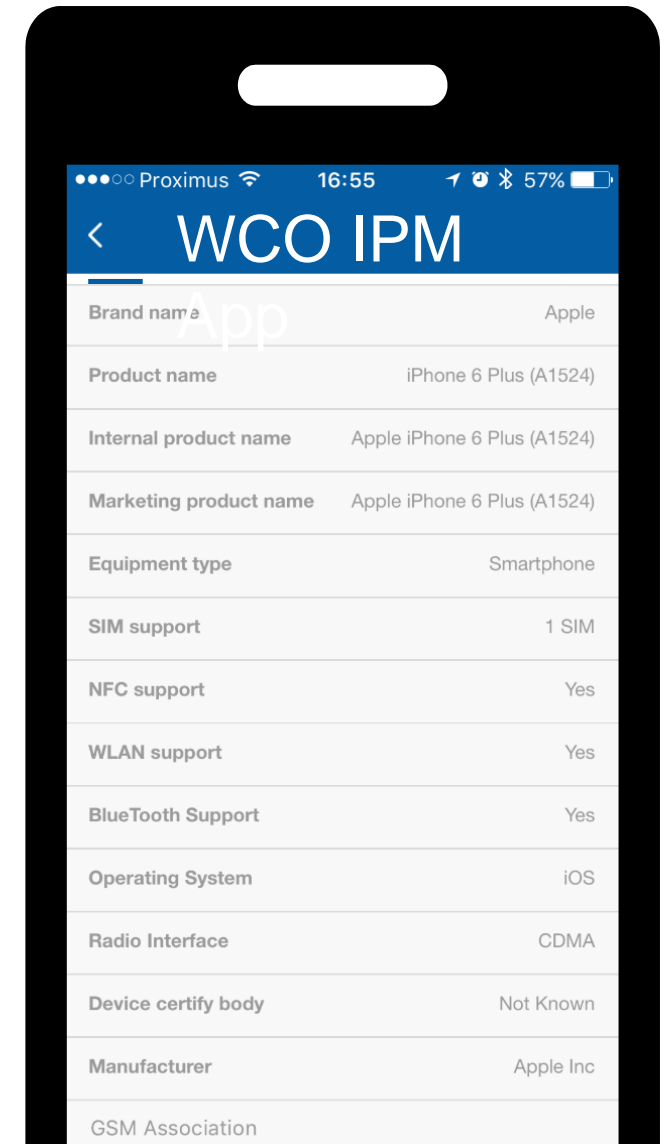


# GSMA support of Export/Import Control

## The GSMA provides the global White List

- Direct to any Customs Agency
- The World Customs Organisation (WCO)
- WCO provides customs checking tools including the GSMA White List
- Solutions exist but usage is poor

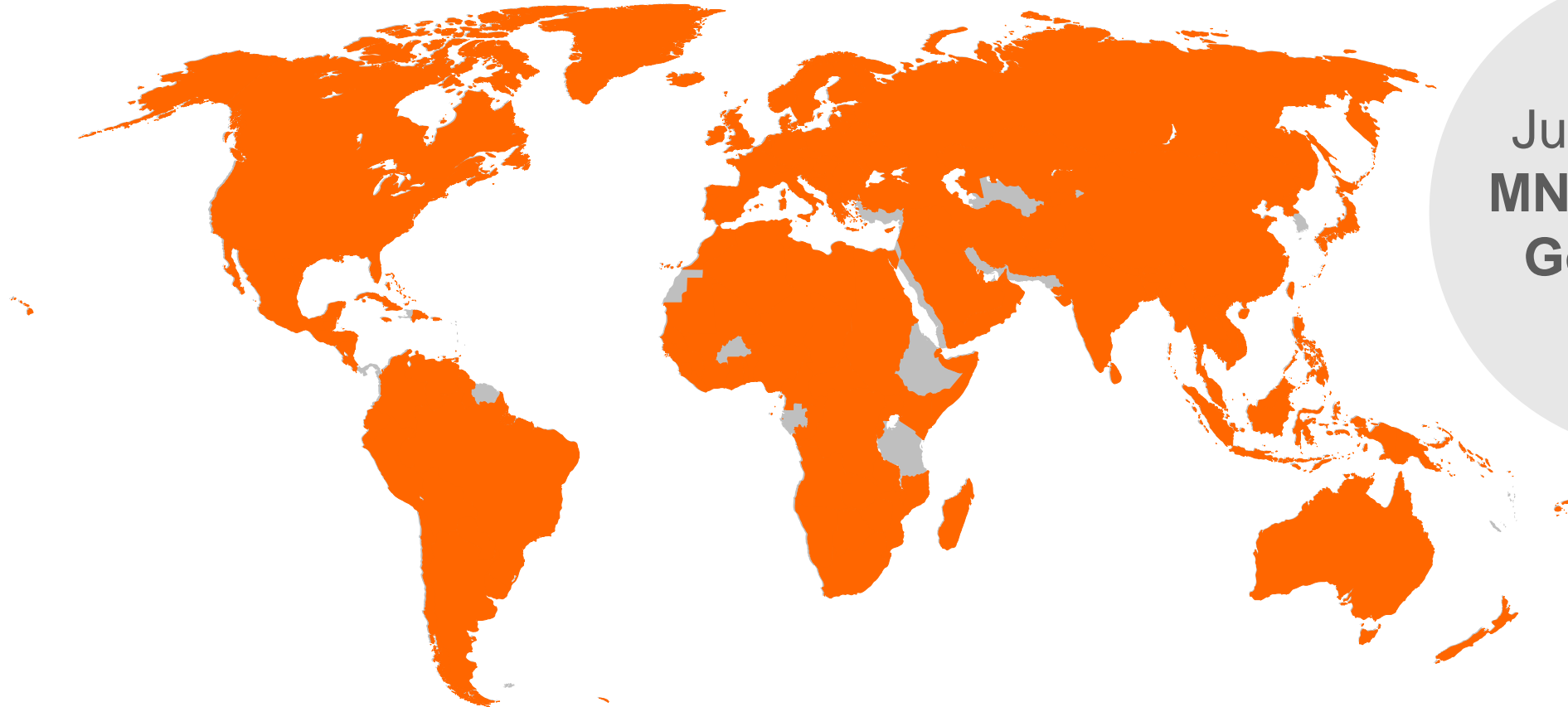
The GSMA request ITU and member state support of WCO tools







## GSMA White List Availability



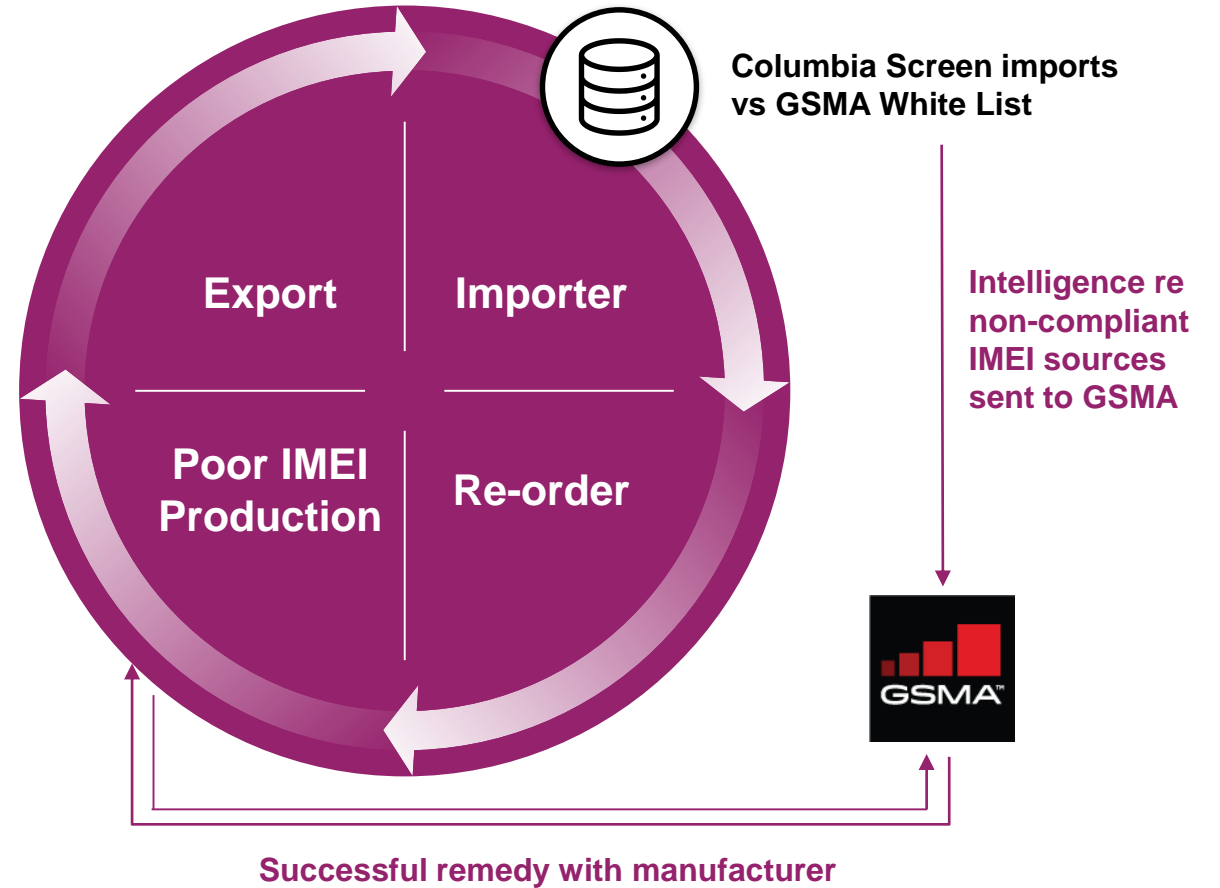
Just over 700  
MNOs and 100  
Govt / Reg /  
LEAs



# IMEI Misuse Correction

- The GSMA have strict legal terms and conditions governing IMEI production
- Illicit organisations seek to evade any identity system
- The GSMA is successful in remedy when provided information

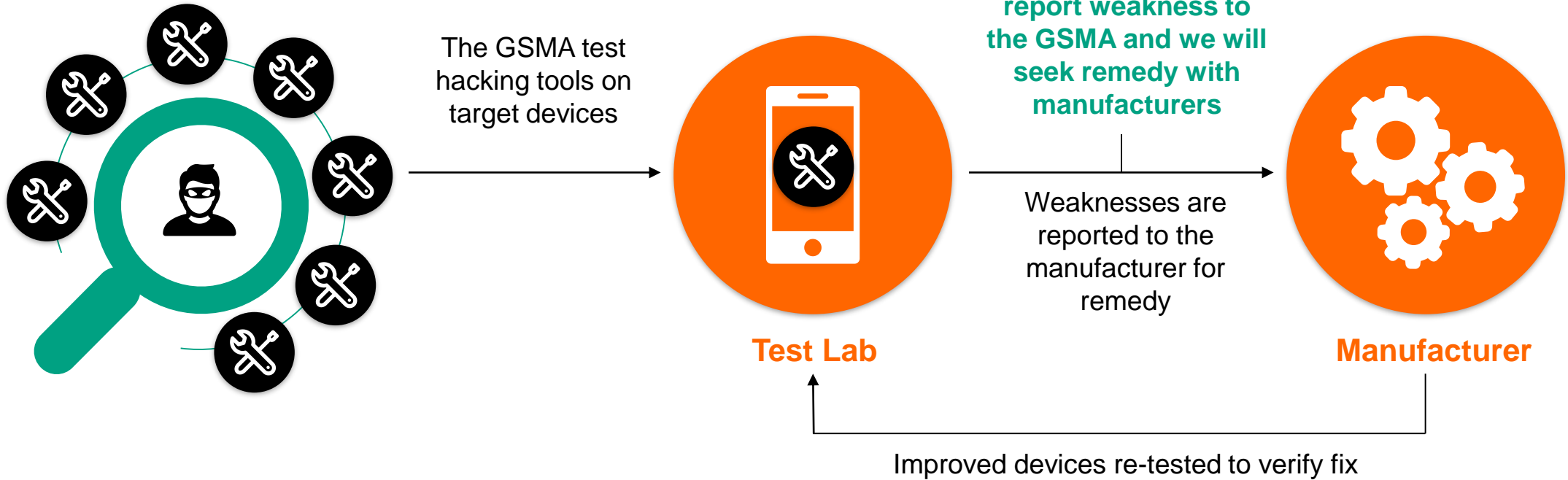
The GSMA requests member states provide information on IMEI misuse





# IMEI Reprogramming GSMA IMEI Security Testing

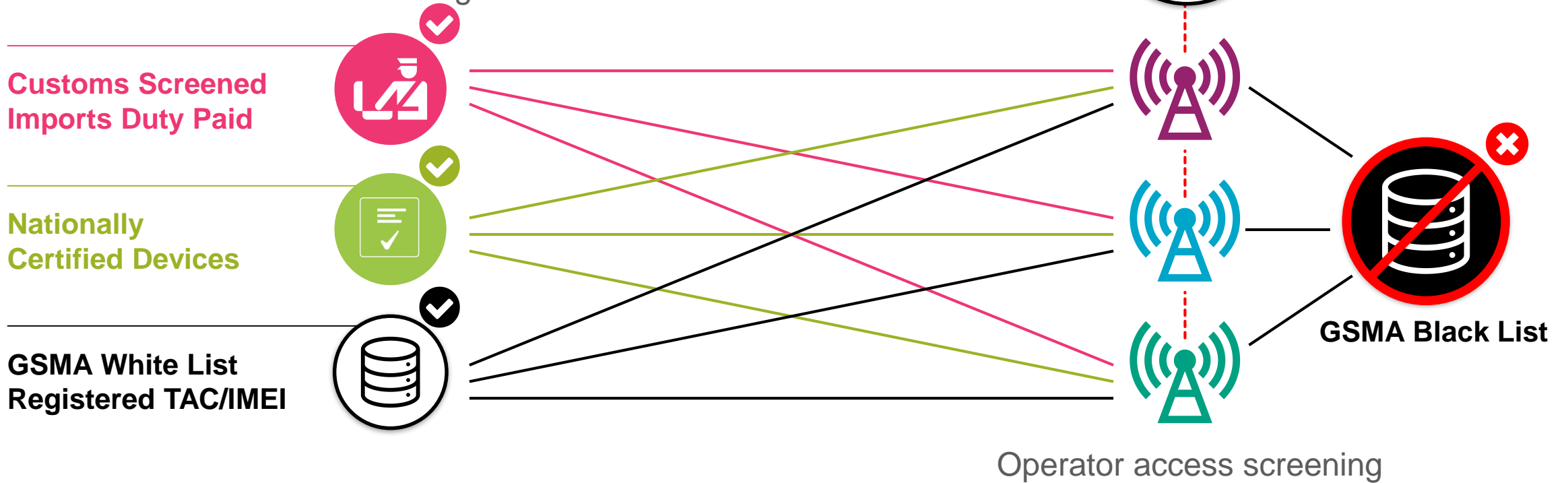
The GSMA is now monitoring  
IMEI hacking tools





# Local blocking options

- Each operator runs pre-regulation amnesty whitelists
- Allow IMEIs from selected whitelists. Block all other devices
- Block stolen devices via the GSMA Black List, the only globally available information exchange





## GSMA support

### Global tools and information

- ✓ Manages the GSMA White List
- ✓ Manages the GSMA Black List
- ✓ Provides GSMA White List to customs agencies
- ✓ Provides retail screening services
- ✓ Provides information to law enforcement
- ✓ Secures remedy over IMEI misuse with manufacturers
- ✓ Provides secure IMEI implementation design principles
- ✓ IMEI security weakness reporting facility
- ✓ IMEI security testing service

## Country support

### Countries have powers of enforcement

- ✓ Custom Agencies
- ✓ Law enforcement agencies
- ✓ Intelligence concerning abuse

- 
- **Awareness and cooperation is building**
  - **The GSMA encourages adoption of its facilities**



# The Role of Law Enforcement

- **The law defines the crime / fraud and the basis for action**
- **It is vital to enforce anti-counterfeiting laws**
- **It is vital to enforce tax / duty evasion laws**
- **Introduce law and penalties for sales of devices where duty is unpaid**
- **Introduce law concerning IMEI**
  - Outlaw IMEI reprogramming
  - Outlaw duplicate IMEI
  - Outlaw mal-formed or unauthorized IMEI
- **Certification considerations could include testing devices against existing GCF global test standards**



## Existing global best practise tells us to successfully halt the growth of counterfeit devices

- Prosecution of sources and removal of profit eliminates the problem
- Blocking at consumer end allows fraudsters to operate freely in different territories
- Create appropriate law underpinning enforcement
- Conduct public information campaigns
- Share information internationally between enforcement agencies to eliminate sources and distribution
- Use existing global GSMA White List and Black List information tools
- Send detailed information of IMEI misuse and security issues to the GSMA
- Keep local measures simple, in-expensive, non-punitive to consumers; focus your efforts at the source, the early stage of the supply chain



## Additional Resources

### GSMA Mobile Policy Handbook

- Counterfeit Device <https://www.gsma.com/publicpolicy/handbook/consumer-protection#3>
- Mobile Device Theft <https://www.gsma.com/publicpolicy/handbook/consumer-protection#12>

### GSMA Report - Safety, privacy and security across the mobile ecosystem

- <https://www.gsma.com/publicpolicy/safety-privacy-security-across-mobile-ecosystem>





**IMEI**  
**357460063950799**

Chris Li - Outreach Director  
IMEI Blacklist Service



[cli@gsma.com](mailto:cli@gsma.com)



+852 6591 2895 | +86 130 5215 0644



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GSMA IMEI Db  
[imeidb.gsm.org](http://imeidb.gsm.org)



GSMA IMEI Db Helpdesk  
[imeihelpdesk@gsma.com](mailto:imeihelpdesk@gsma.com)



+91-877-6456669 | +91-877-2239133

