



IMEI

Обзорная презентация
18 октября 2018



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, InfoCentre² 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



GSMA provide the following IMEI services

TAC Allocations



Device type identity numbers (Whitelist)

Device Database



Catalogue of global devices by TAC code

Device Blacklisting



Exchange stolen device IMEIs between operators for blocking

Device Check



Reported stolen phone look up service by IMEI

IMEI = International Mobile Equipment Identity | TAC = Type Allocation Code



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 \$



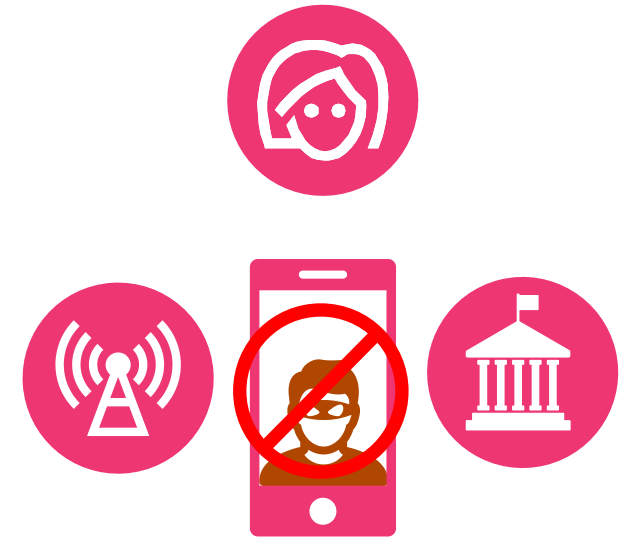
Counterfeiting requires an international strategic response



Prevention at Source
Enforce bona-fide
manufacturing practice



Boarder Protection
Enforce legal export
and import



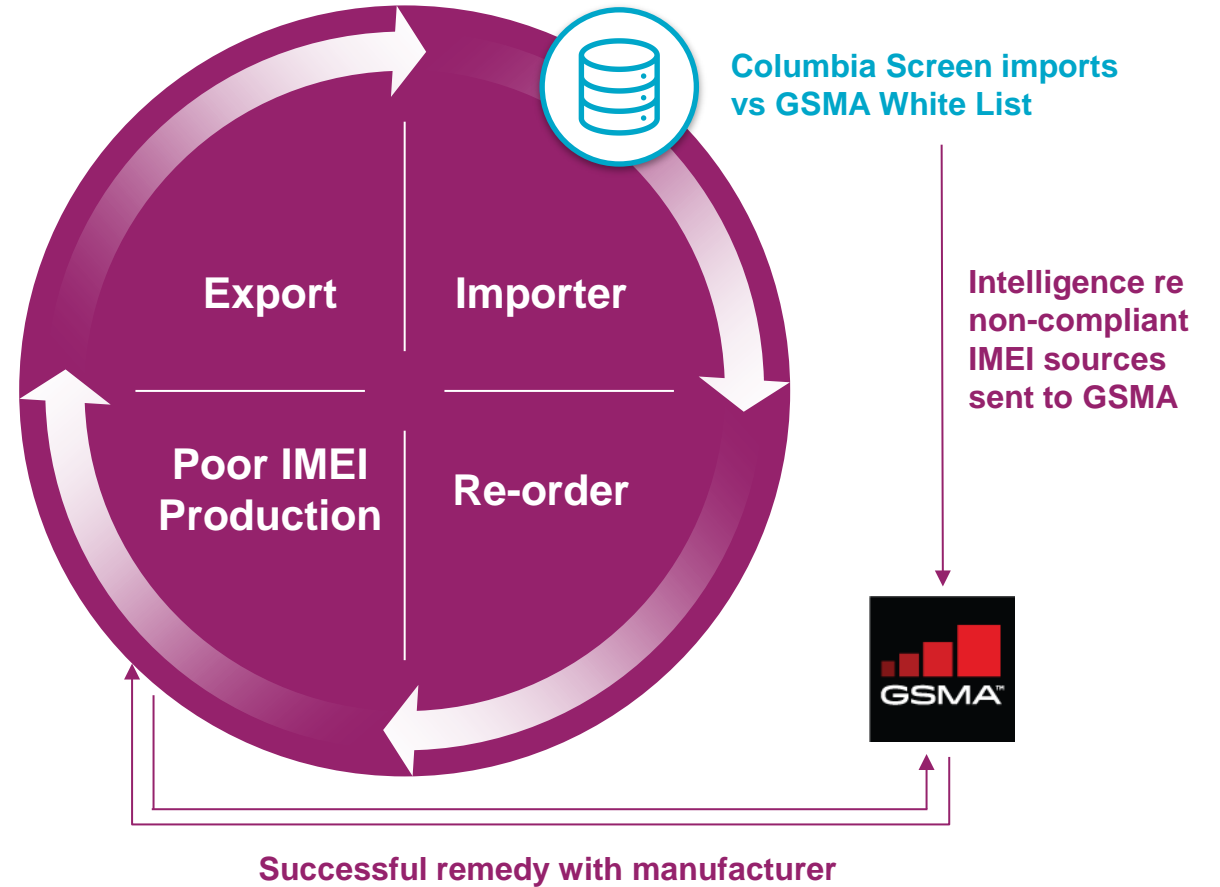
Local protection
Implement local
counter measures



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

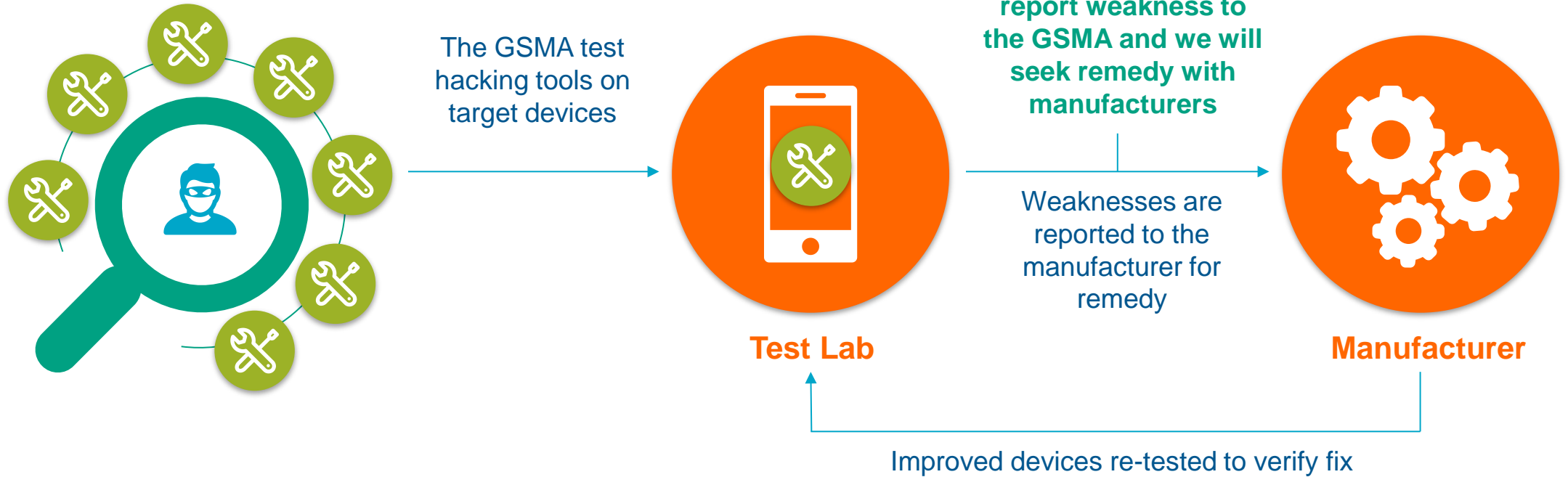
The GSMA requests countries provide information on IMEI misuse





IMEI Reprogramming GSMA IMEI Security Testing

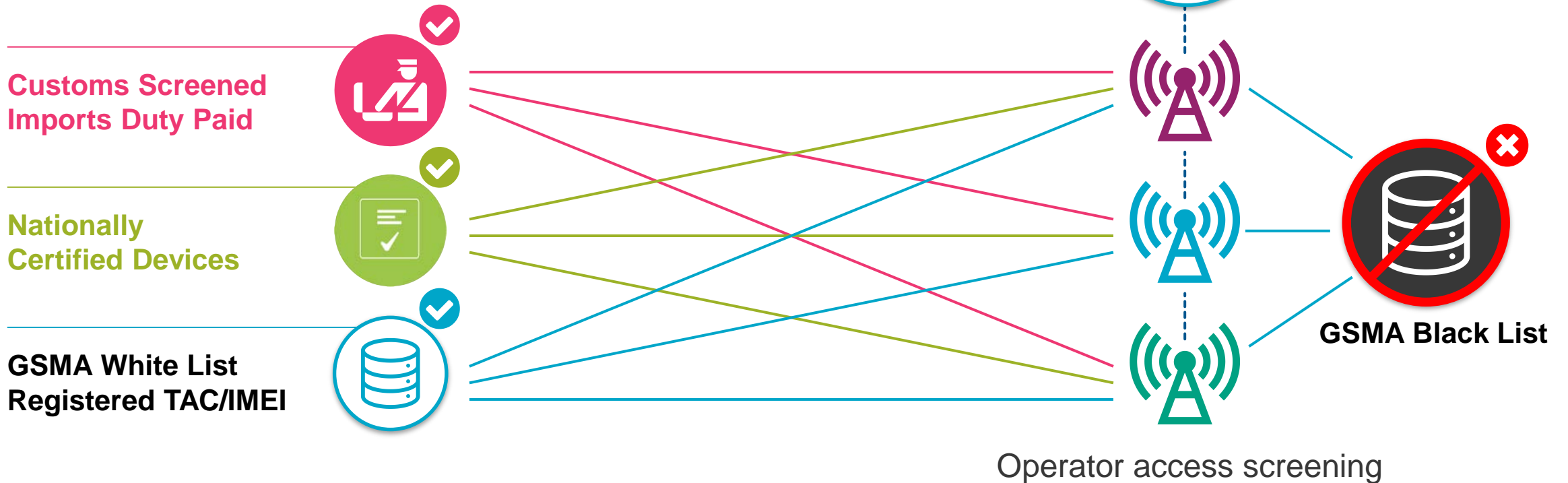
The GSMA is now monitoring
IMEI hacking tools





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





Addressing counterfeits, smuggling, performance, safety and theft

Amnesty List
Measured from
network before
system switch on



Registered
Imports



Nationally
Certified
Devices



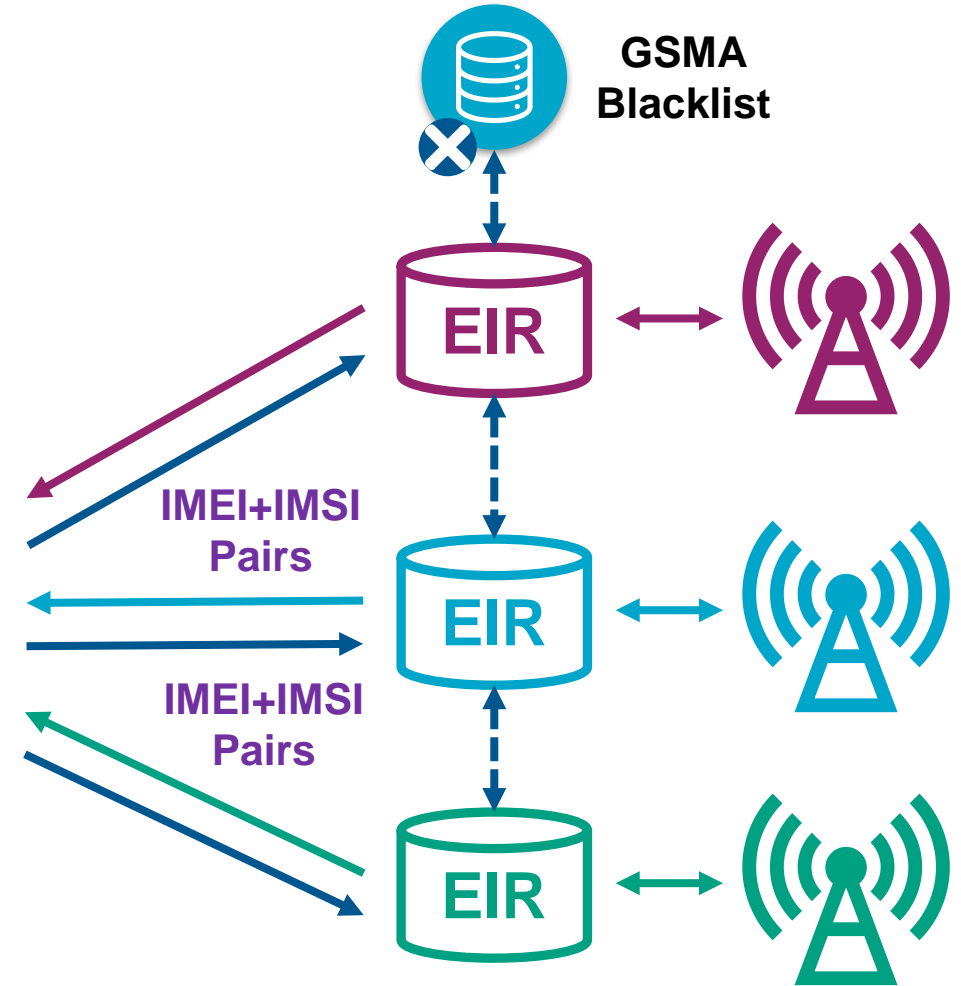
GSMA
Whitelist



Device
Authorisation
System



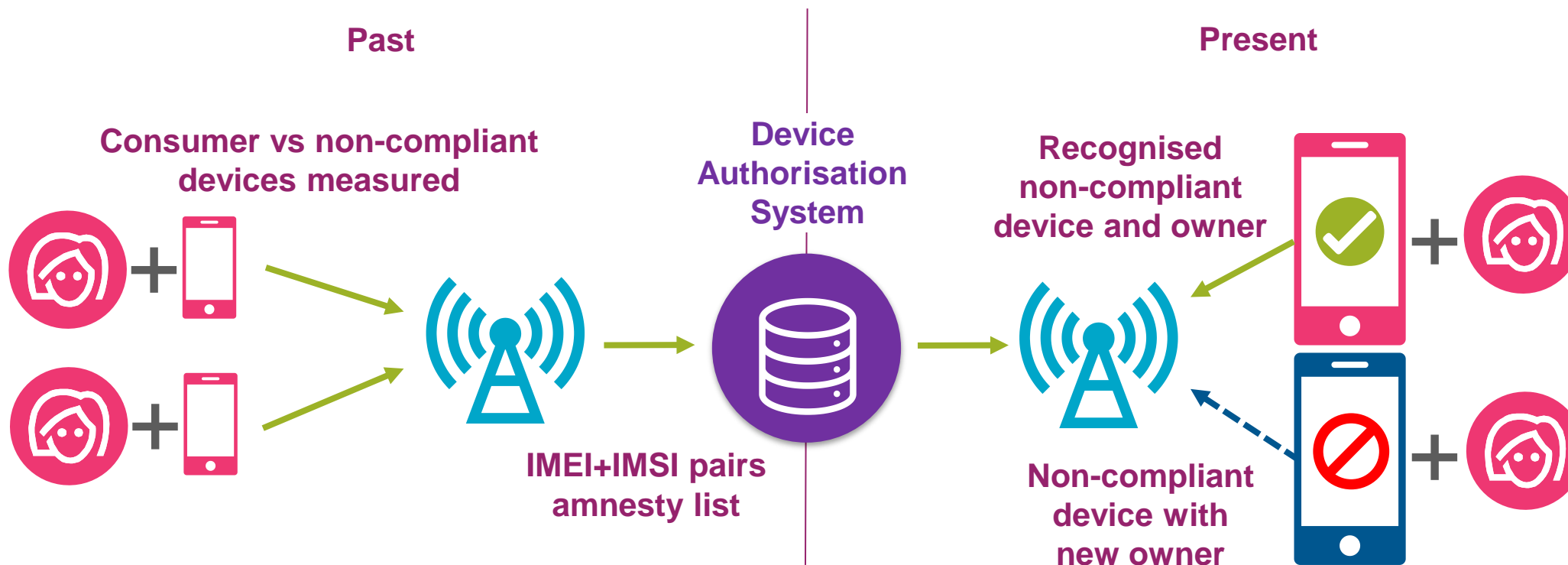
Information
exchange



Conceptual system elements for conformant devices with stolen phones blocked



Handling historical non-compliant devices - Amnesty list



Owners with historical non-compliant devices are allowed to maintain access
Non-compliant devices cannot be used by new owners and eventually retire



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**
- **Share Intelligence by participating GSMA Black List database and submit law enforcement black list**



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 and participate 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



In conclusion, dealing with device crime requires national and international cooperation





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