



TECHNOKRATIK[®]

*Providing Technical Solutions for
Counterfeit, Illegal, & Stolen Mobile Devices*

***Addressing Challenges
Posed by
Counterfeit and Stolen/Tampered Mobile Devices***

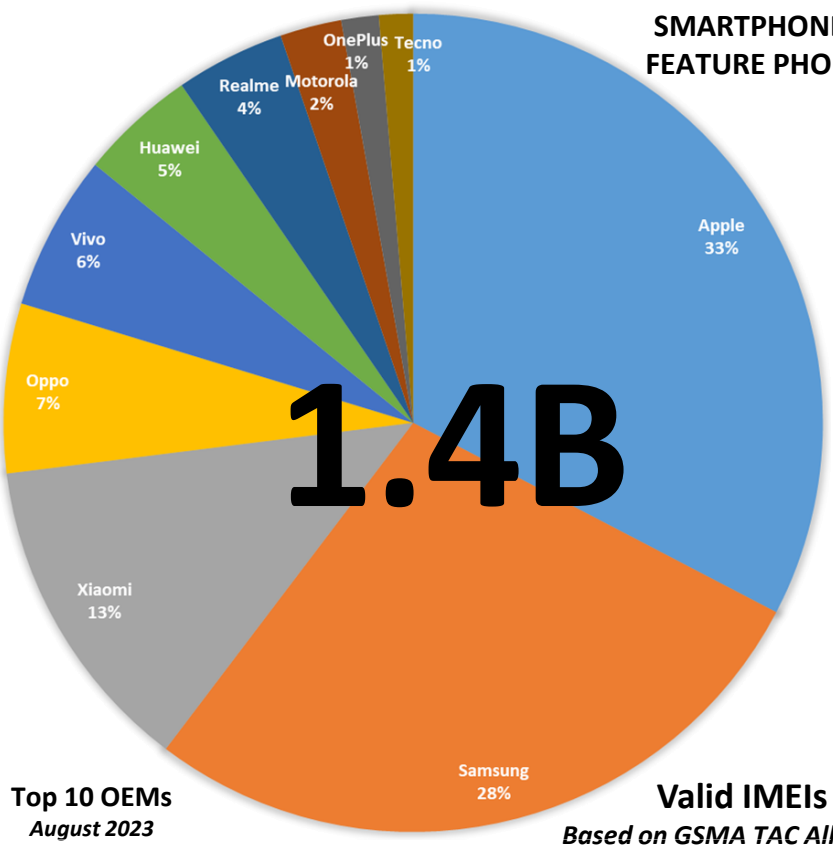
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Global Scale of Counterfeiting and Tampering

*ANNUAL GLOBAL MOBILE SHIPMENTS (2022)



Top 10 OEMs August 2023



<https://www.statista.com/statistics/687475/global-smartphone-shipments/>



~198M

Fraudulent IMEIs
Duplicate, Invalid, Zeros



<https://www.mwfai.org/>



*15M

Afterlife

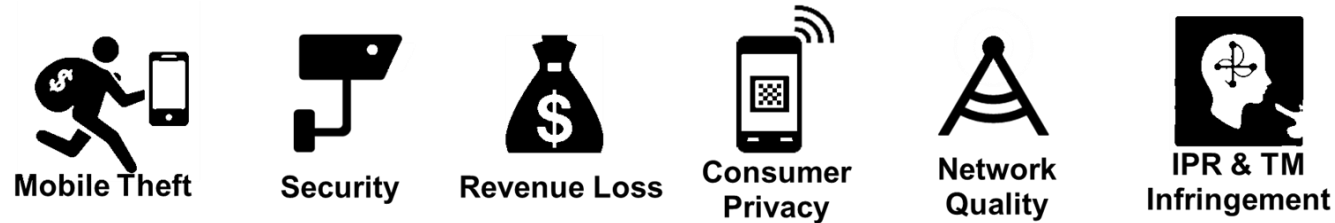
1. Re-sold without alteration
2. Shipped to other markets
3. Scrapped for parts
4. **Tampered with Fraudulent IMEIs**



*Source: <https://www.gsma.com/services/blog/flagging-stolen-devices-to-protect-your-business-against-crime-and-fraud/>



Impact & Beneficiaries of Eliminating Counterfeiting & Tampering



Governments

- Minimizes Tax Loss
- Theft and Crime Reduction
- IPR Protection
- Cyber Security
- Consumer & Environmental protection



Operators

- Improves Network Capacity
- Lowers Capex & Opex
- Reduces Churn
- Enables Adjacent Mobile Businesses (White Label)
- Better Control of Subsidies / Financed Devices



Consumers

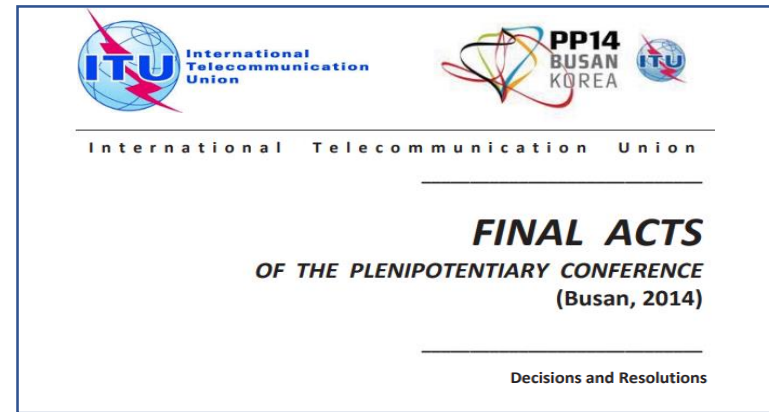
- Device warranty
- Quality connection (dropped calls, handover)
- Quality experience (battery, camera, display)
- Protection from malware, radiation, hazardous substances, radiation



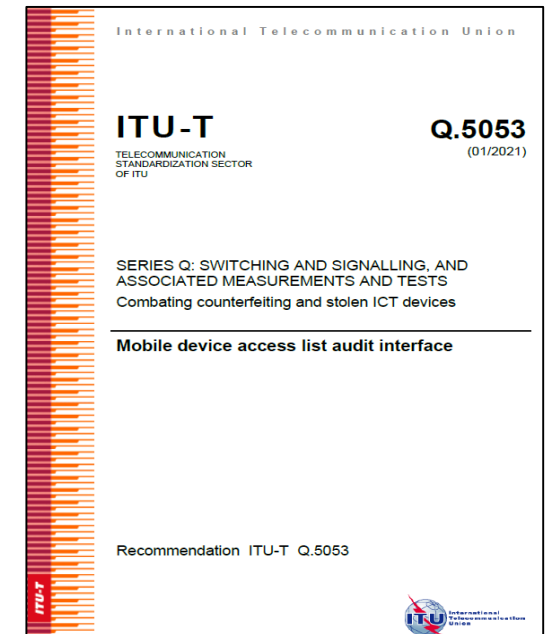
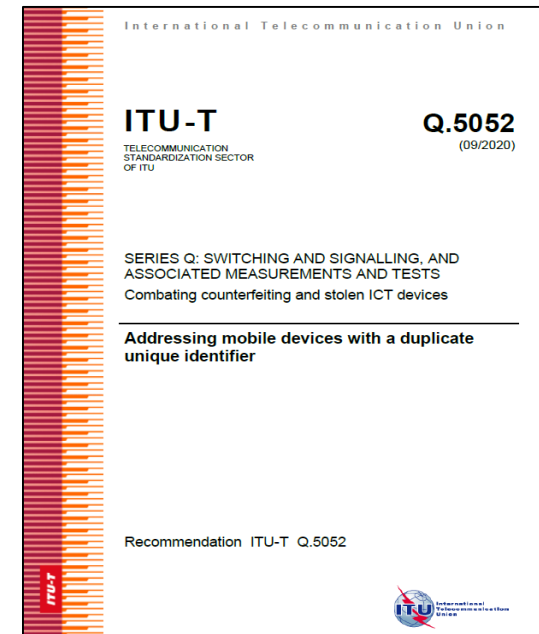
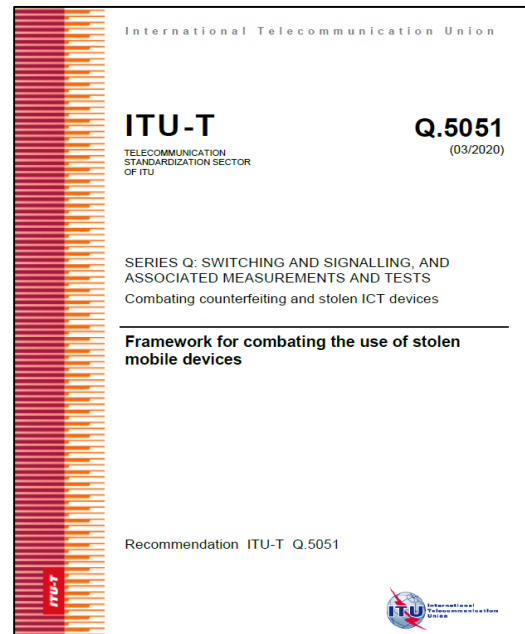
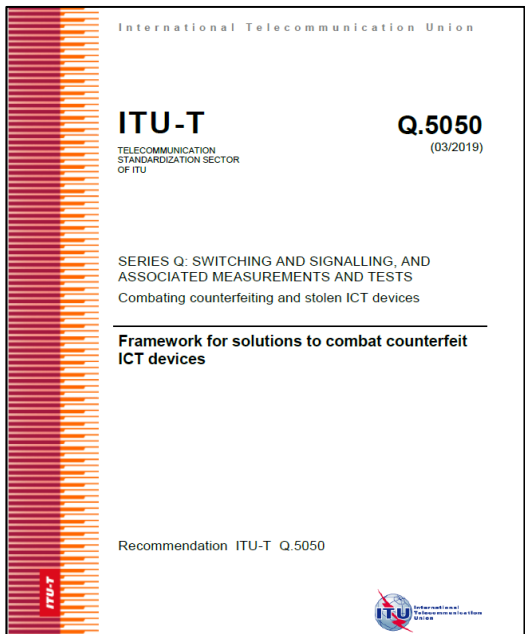
Manufacturers

- Level playing field, fair competition
- Prevent loss of sales
- Copyright / trademark protection
- Secure margins
- Brand equity / image
- Encourage investment

ITU Recommendations to Address the Issues



Telecommunication/ICT devices that do not comply with a country's applicable national conformity processes and regulatory requirements or other applicable legal requirements should be considered unauthorized for sale and/or activation on telecommunication networks of that country.



Challenges Faced by the Customers

Affordability

Spotting Counterfeits

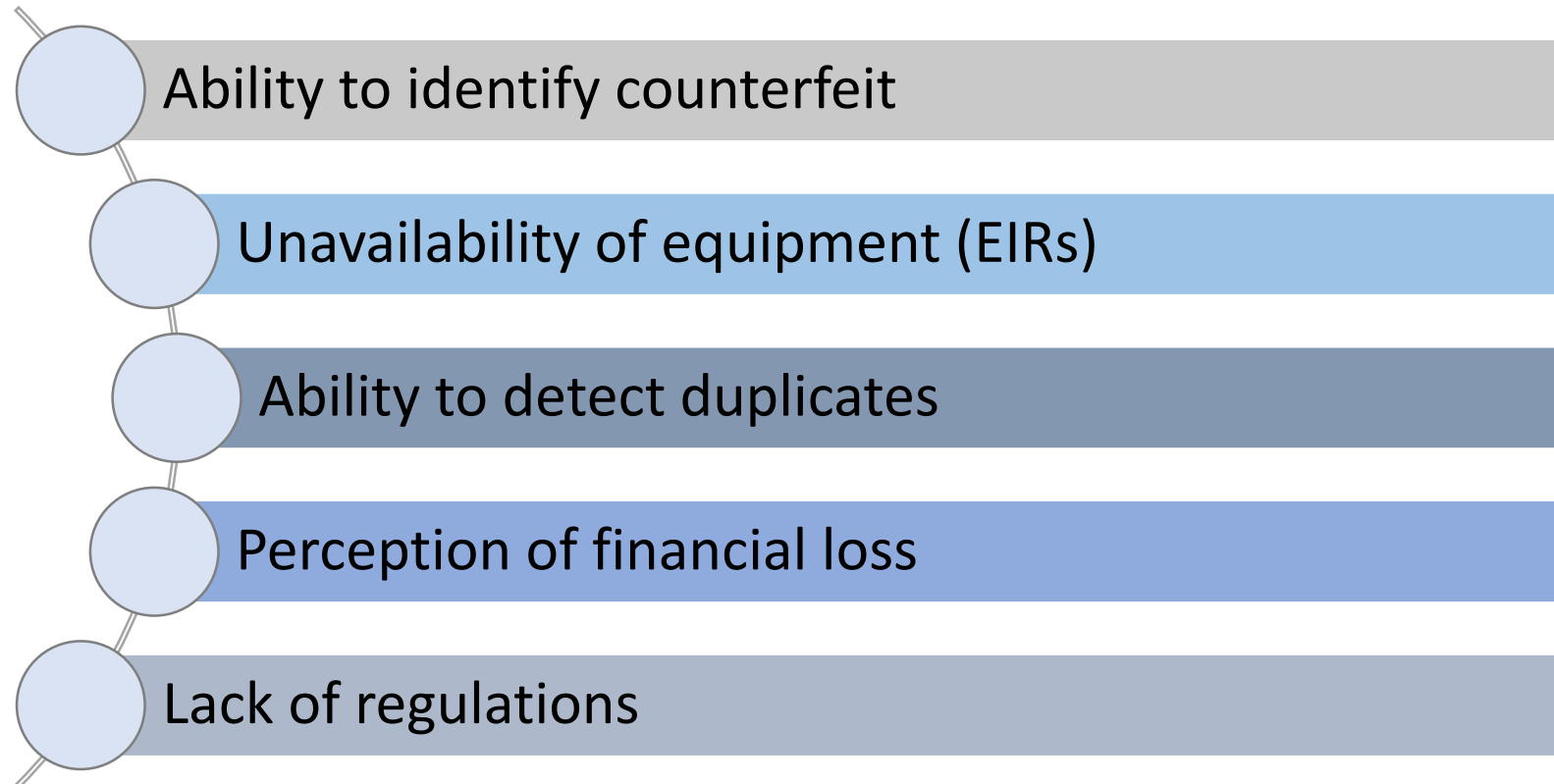
No in-country device
status verification ability

Challenges Faced by the OEMs

Inability to control counterfeiters

Difficulty in providing custom OEM mechanisms to check for counterfeits

Challenges Faced by the Operators



Challenges Faced by the Governments

Oversight in Telecom Policy

- *Counterfeit devices*
- *IMEI tampering*
- *Access to mobile network data*
- *Blocking of non-compliant devices on the networks*
- *Restriction on sales of non-compliant devices*

Unawareness of the ITU Recommendations

Lack of clarity regarding roles, responsibilities, and jurisdiction amongst various government agencies

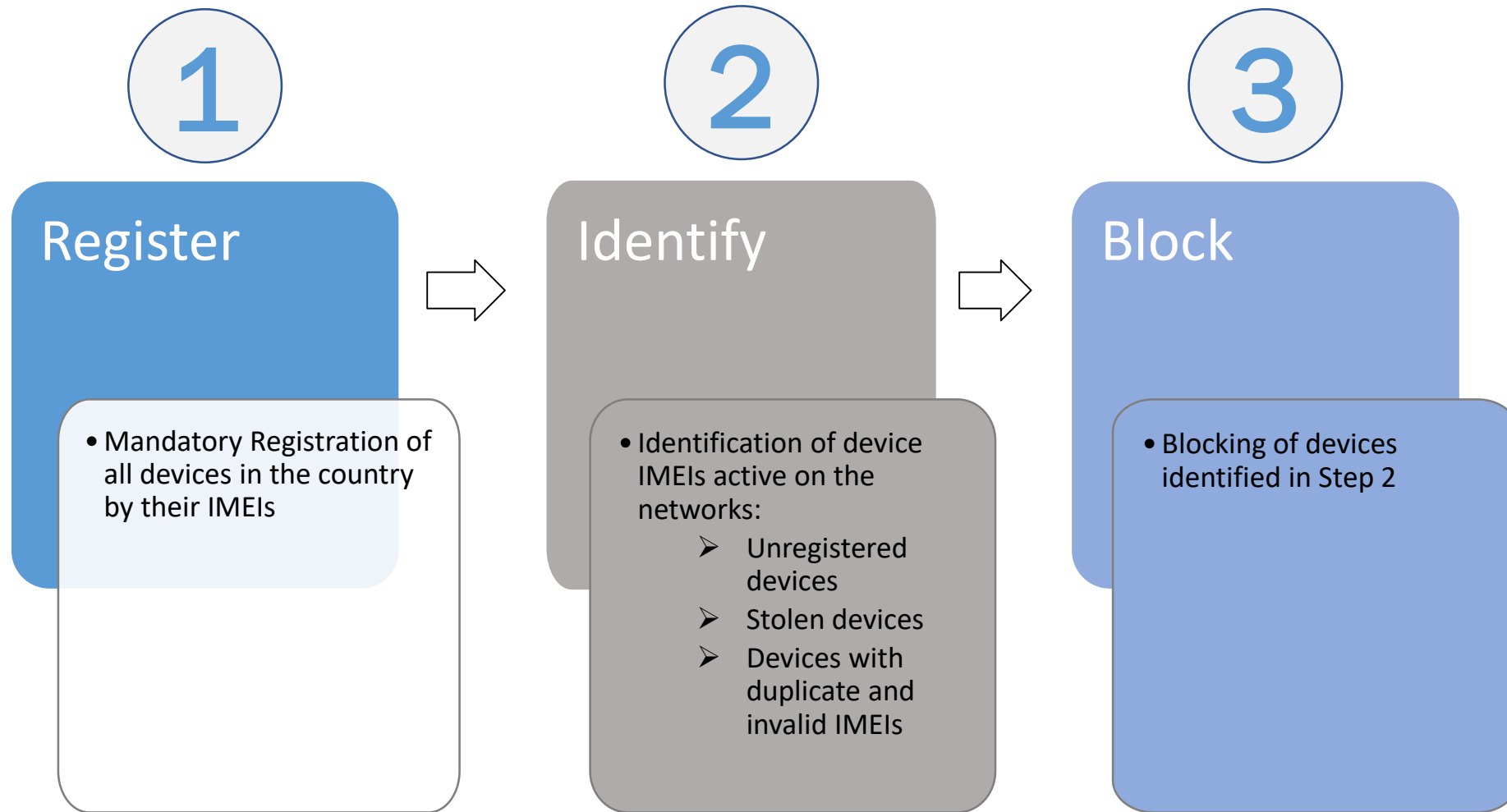
Comprehension and quantification of loss of revenue due to insufficiency of tools & resources

Impracticality of physical enforcement by law enforcement agencies

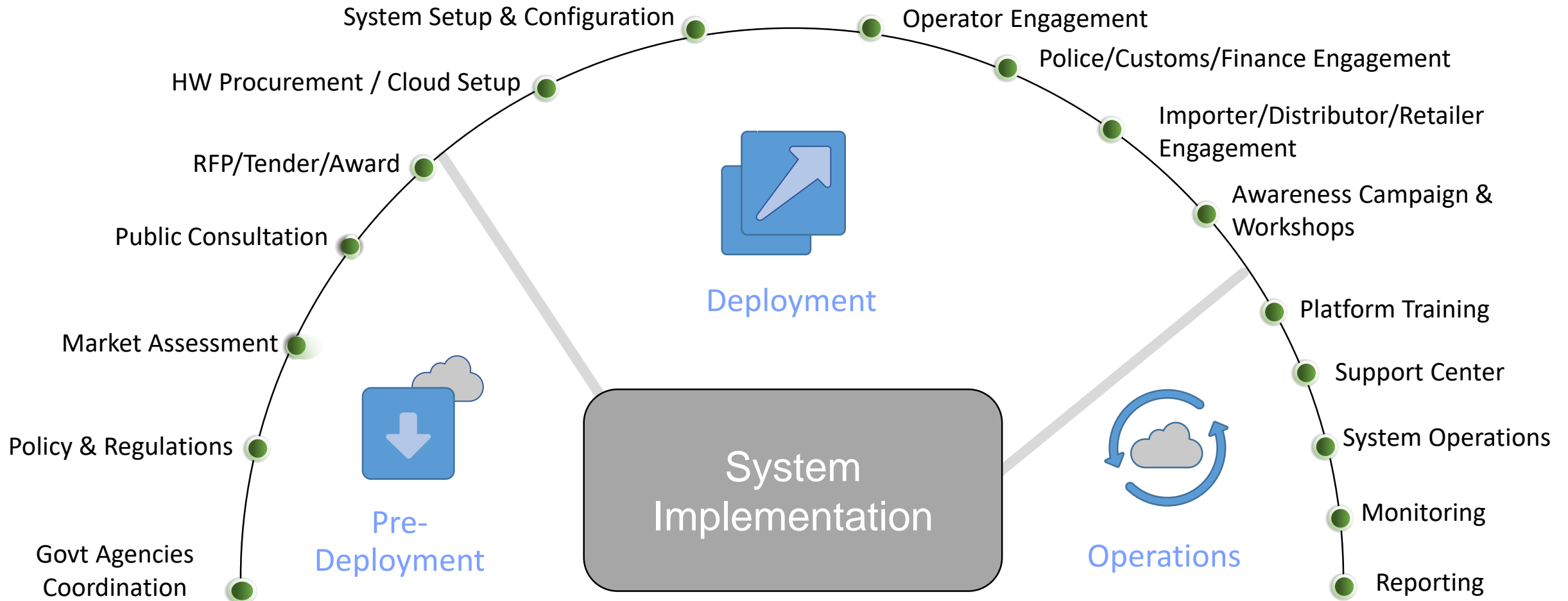
Lack of funds to deploy a technical solution

Lack of expertise and competent resources to plan and implement a solution

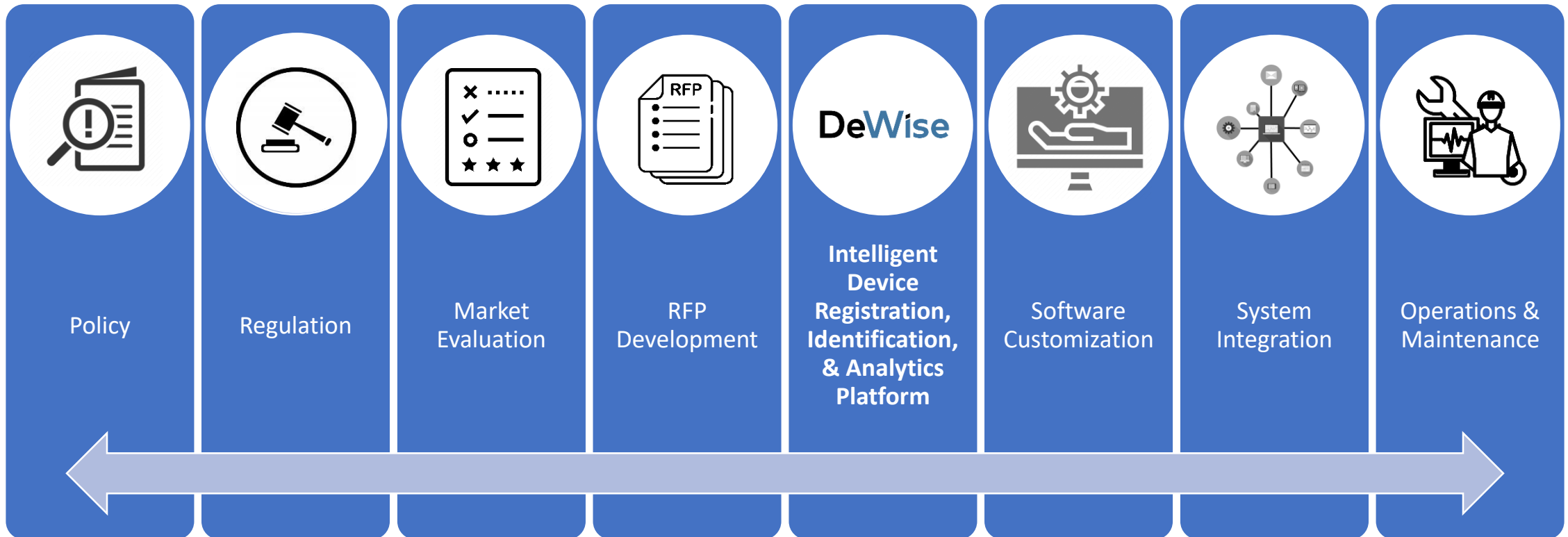
The Solution in a Nutshell



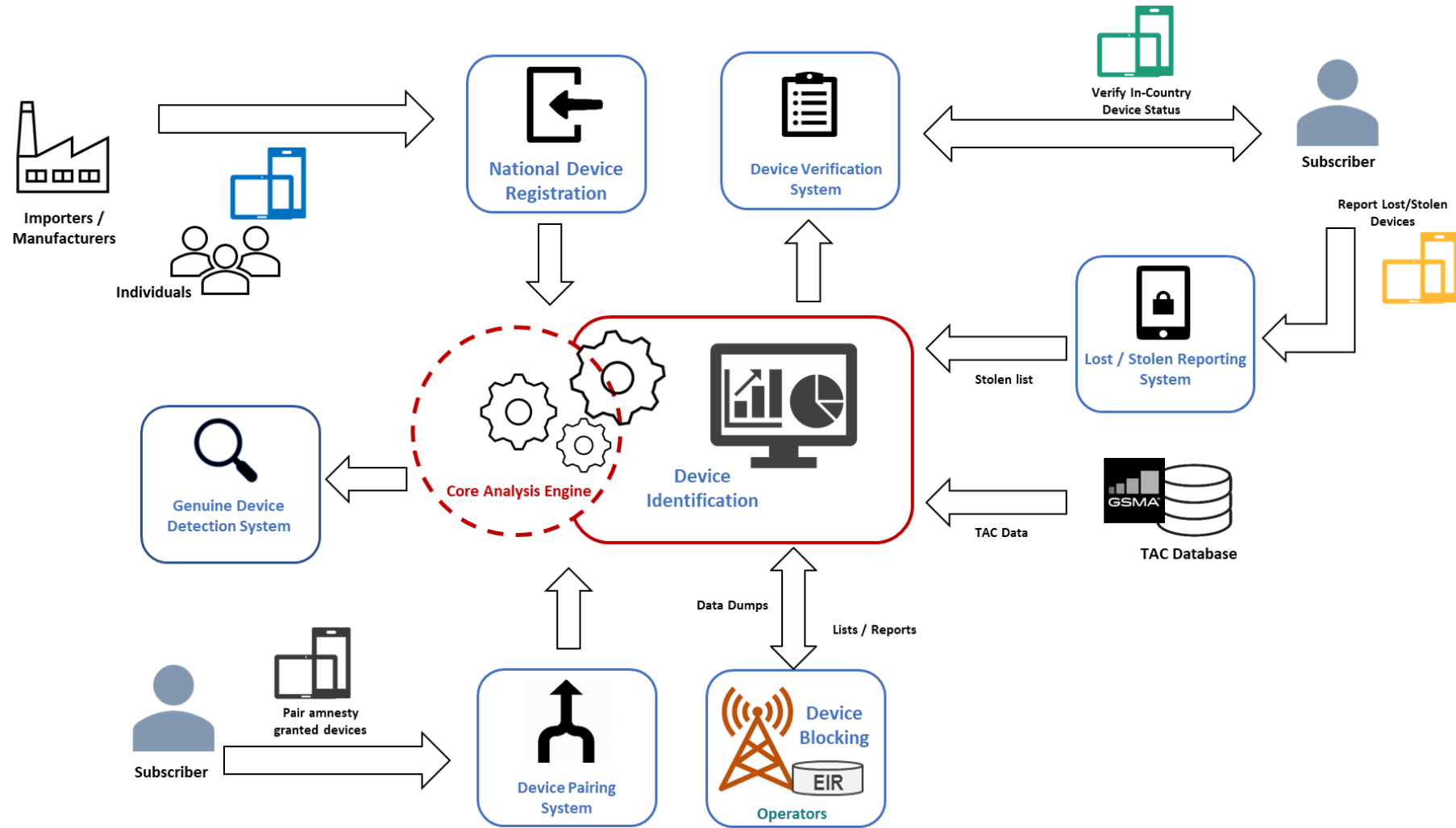
Technical Solution Implementation Framework



Technokratik Platform & Services



Technokratik Provides a Complete Technical Solution

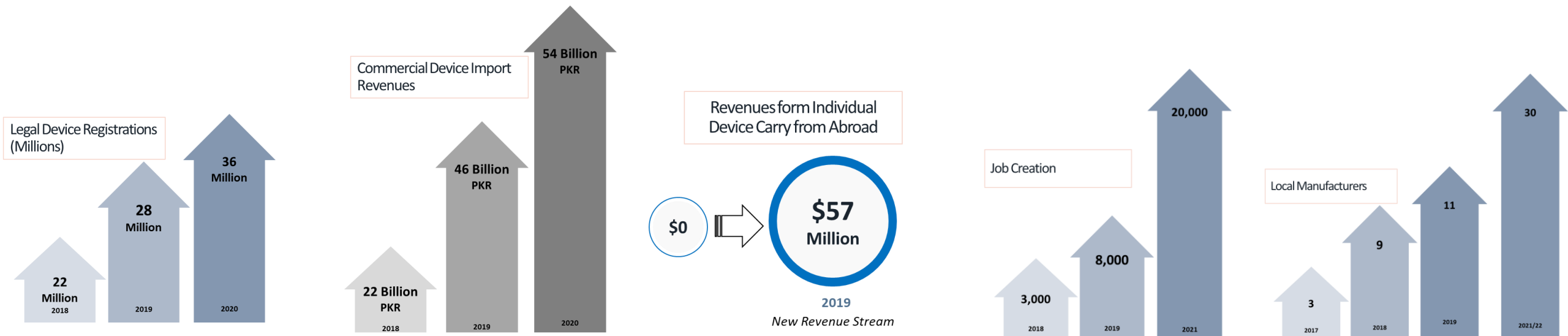


Permissive

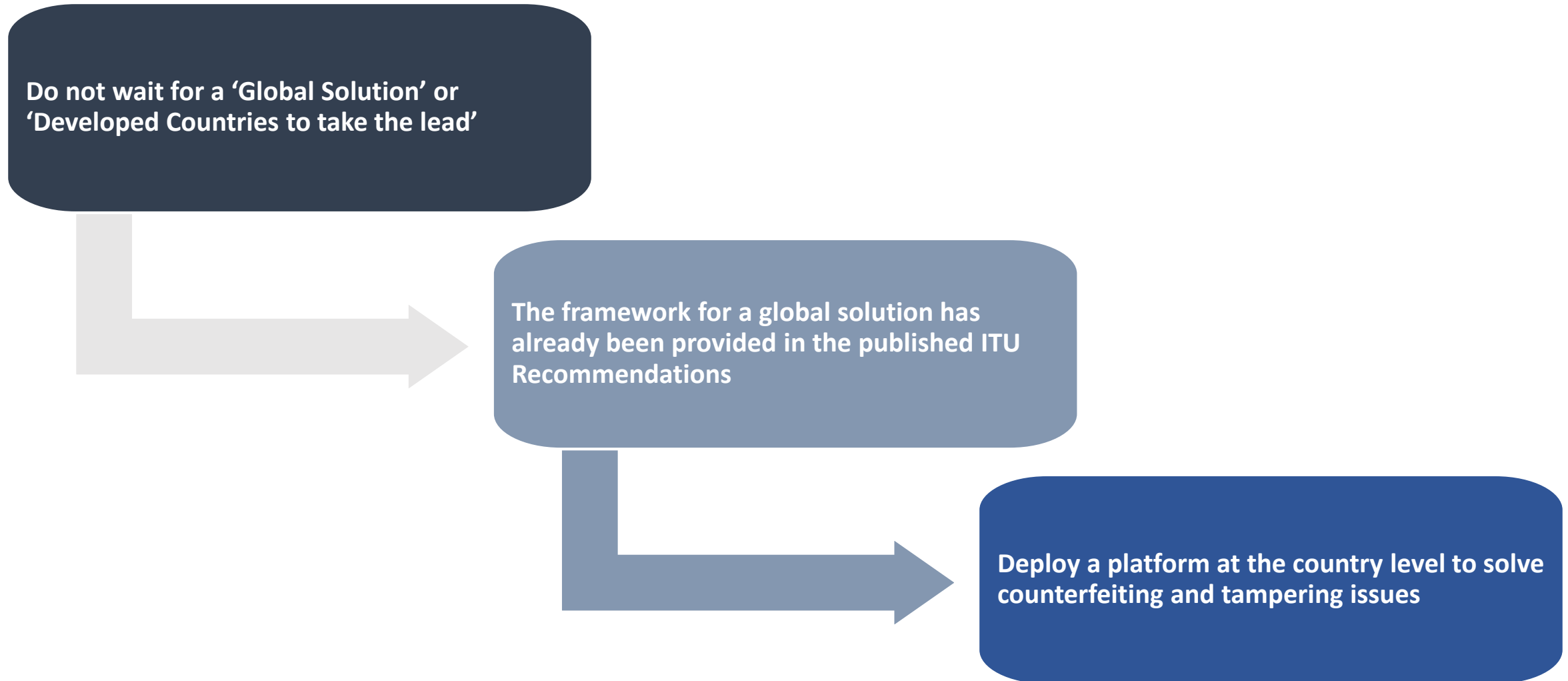
Restrictive

Pakistan Case Study

DIRBS Deployment



Recommendations





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to address

Counterfeit, Illegal, and Stolen Mobile Devices

Thank You!

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