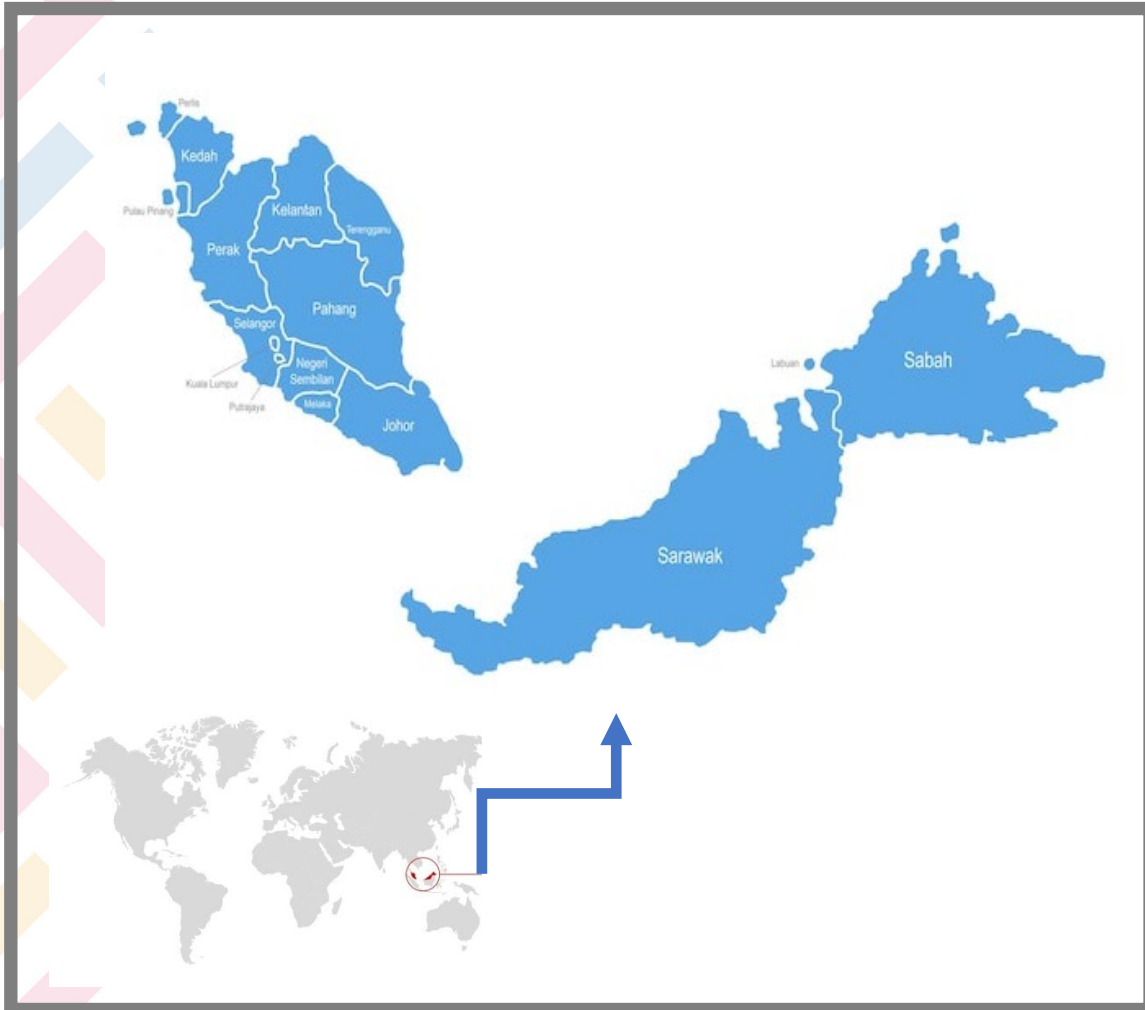


LAYING THE FOUNDATION: MALAYSIA'S EARLY EXPERIENCE WITH MOBILE PHONE DATA

World Telecommunication Indicator Symposium 2024

24 September 2024

Mobile Broadband in Malaysia: Key Statistics at a Glance



34.1 mil



4G:97.3%
5G:81.8%



45.1 mil



132.5%

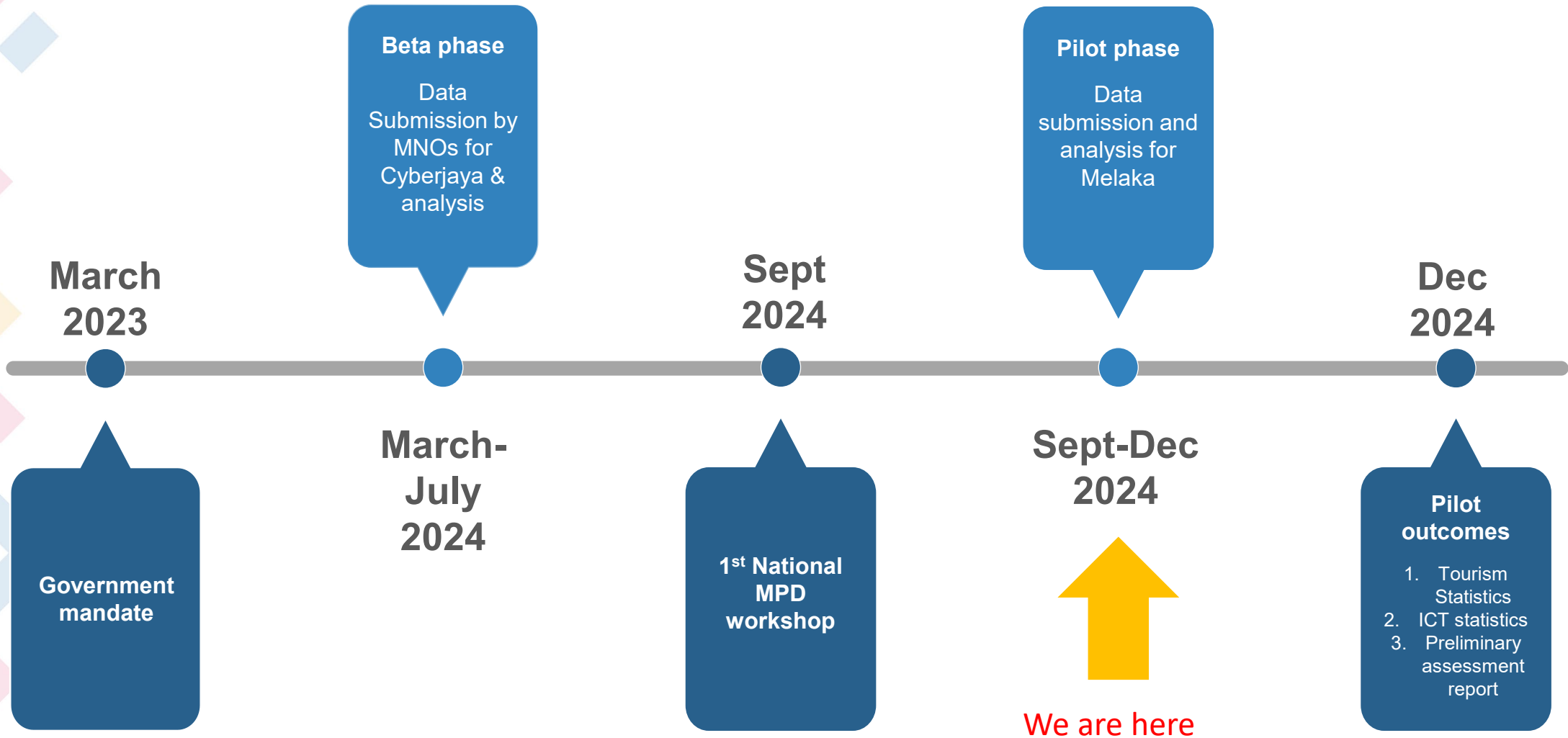
Note:
Data as at 2Q 2024
Population icon: Freepik

Transitioning to Success: Strategic Shifts in Mobile Phone Data Implementation



Year	Key Events	Strategic Approach
2017-2019	<ul style="list-style-type: none">ITU & UN approached MalaysiaNo serious action was taken, neither by the Regulator nor NSO	<ul style="list-style-type: none">Bottom-up strategyNo government mandateNo cooperation from MNOs
2020-2021	<ul style="list-style-type: none">Regulator & NSO approached individual MNO	
2021-2022	<ul style="list-style-type: none">Regulator & NSO begun formal discussion	
2023	<ul style="list-style-type: none">Obtained government mandateMPD as a National Project	<ul style="list-style-type: none">Top-down strategyObtained government mandatePositive response from MNOs
2024	<ul style="list-style-type: none">Obtained 1st MPD data from MNOOrganised 1st MPD national workshopDeploying 1st MPD pilot project	

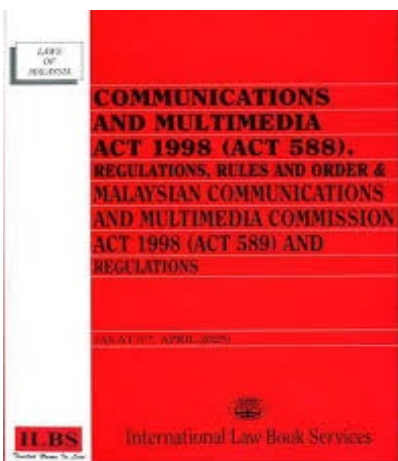
Where are we now?



Legal Framework for MPD Implementation in Malaysia



**Government
Mandate :
MPD as a National
Project**



**Source of Power to
Collect MPD data
from MNOs**

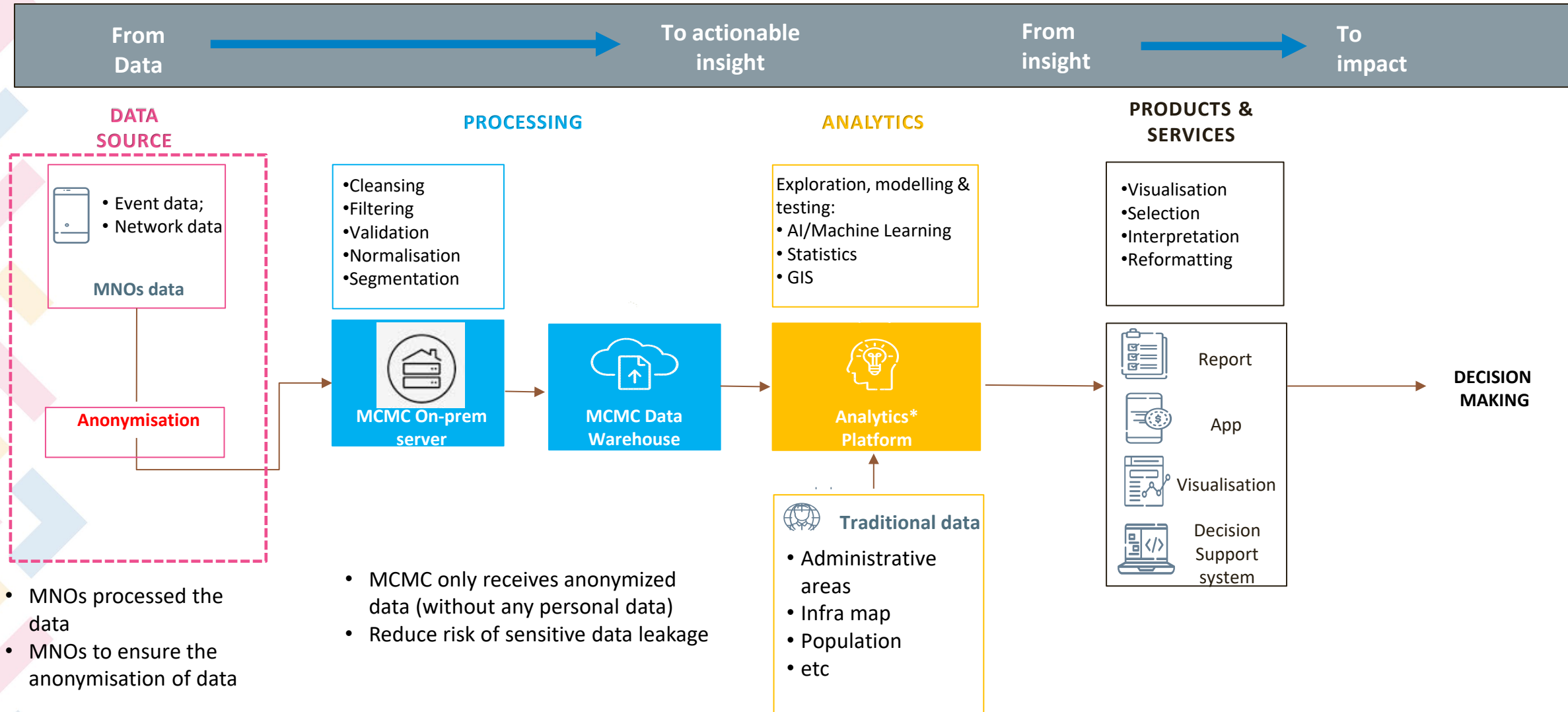
**Source of Power to
Share MPD data to
other Agencies**

**Interworking
arrangement with
other authorities**



**Should anonymous
data be considered
as Personal Data?**

Centralized and Coordinated Implementation Model



Addressing Concerns of MNOs: Navigating the Challenges MPD in Malaysia



Privacy and Confidentiality



Data Security



Competitive Advantage



Data Misuse



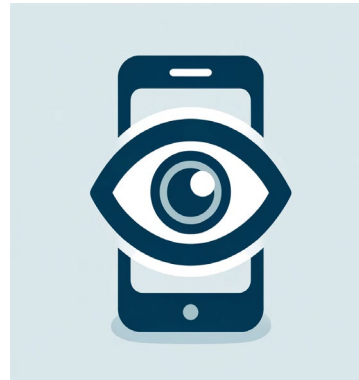
Compliance and Legal Issues



Cost and Resources



Data Quality and Accuracy



Transparency and Accountability



Impact on Consumer Trust

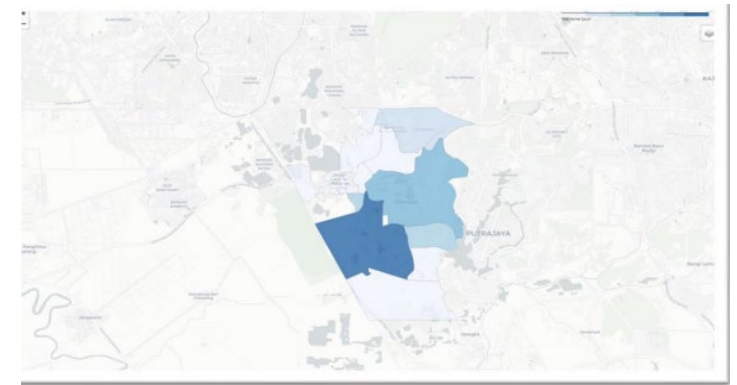
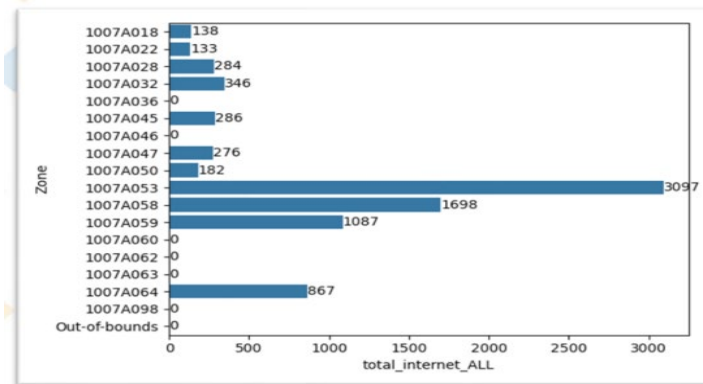


Scope and Scale of Data Requests

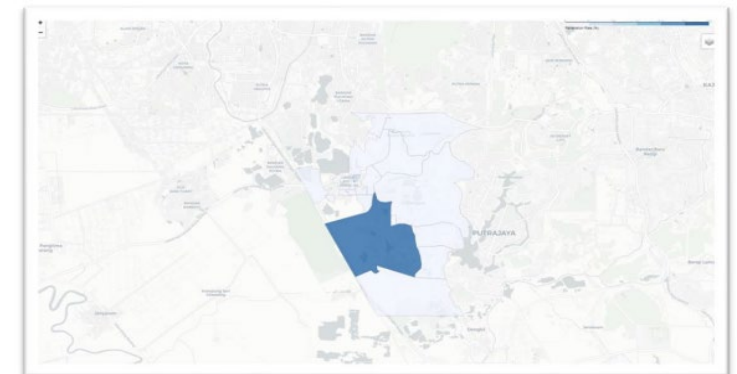
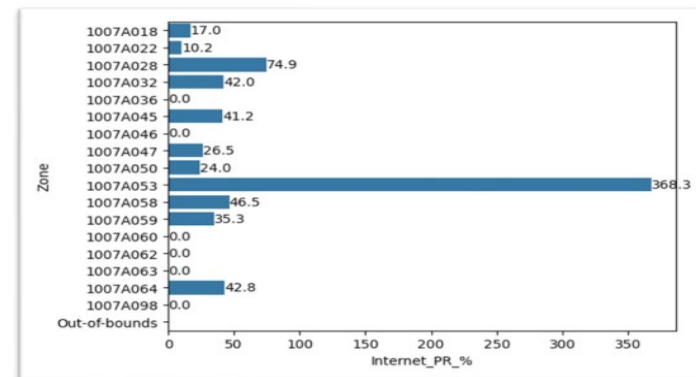
Success MPD Data Processing using Python Code from ITU – ICT Indicators



**Indicator 1 :
Mobile Broadband
subscriptions by Zone**



**Indicator 2 :
Mobile Broadband
penetration rate per 100
inhabitants by zone**



Malaysia 1st MPD Workshop: Capacity Building, Collaboration and Shared Understanding



BADAN PUSAT STATISTIK



by Telkom Indonesia



Leveraging the Mobile Phone Data for Official Statistics
2-5 September 2024, Kuala Lumpur



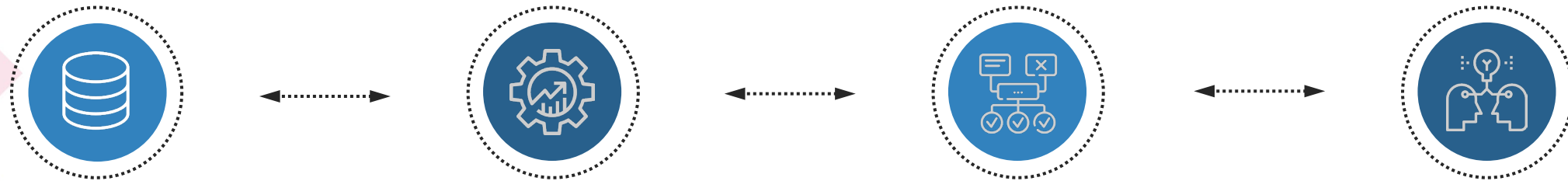
- Organized by DOSM and MCMC
- >50 participants from Ministry of Communications, Ministry of Tourism, Arts & Culture, DOSM, MCMC and MNOs
- Speakers from ITU, BPS Indonesia, Telkomsel Indonesia, Positium and Microsoft
- Focus on end-to-end tourism and ICT statistics
- 5 sessions, > 15 slots and discussions
- Theories and hands-on



Development of National MPD Framework



- Aims to effectively integrate MPD into official statistics system
- This framework will be a reference for data collection, processing and analysis of MPD



Data Requirements

1. Define data format
2. Data standardization
3. Metadata
4. Reference data

Business Model Assessment

1. Data access
2. Technical requirements for data processing
3. Sustainability

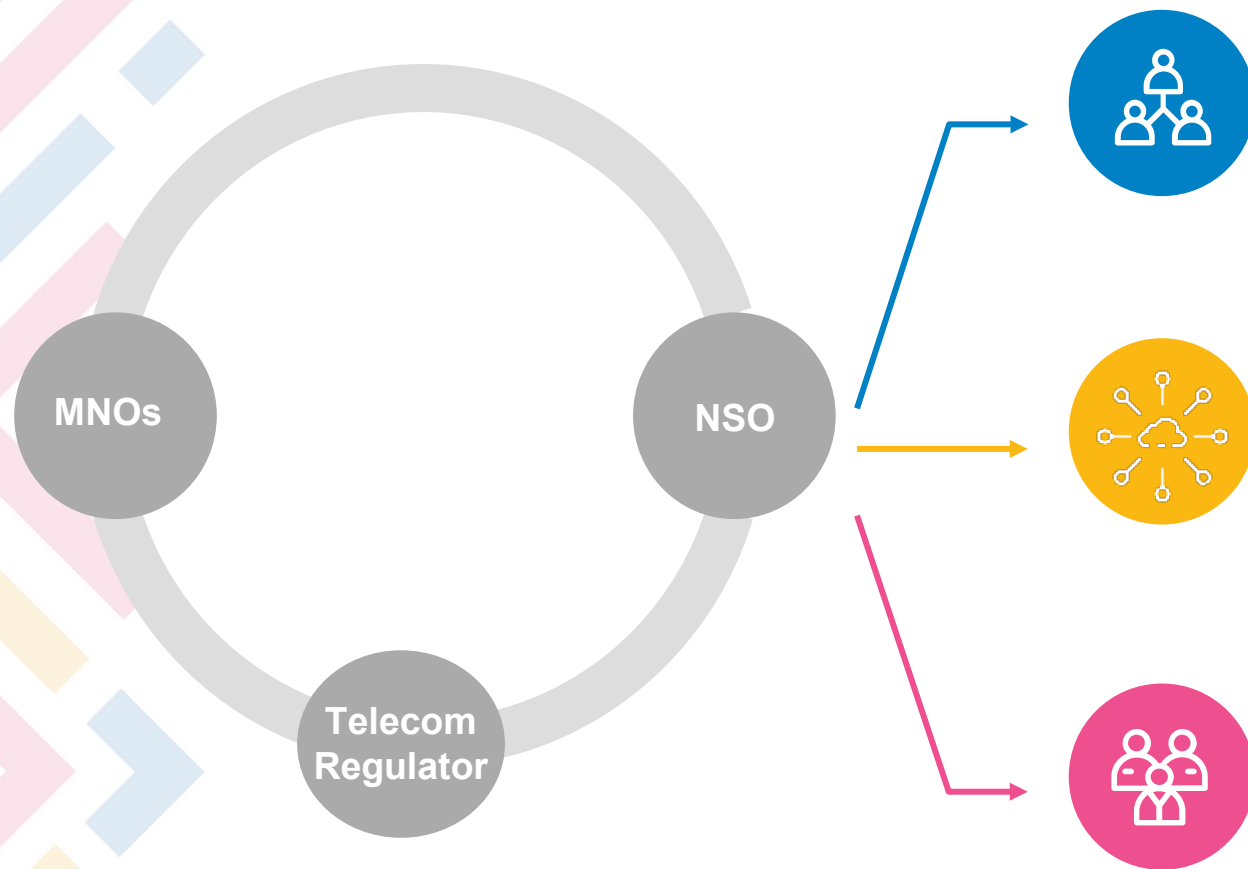
Methodology

1. Data sanity check
2. Quality assurance
3. Data processing
4. Data sharing
5. Data visualization/reporting

Knowledge Transfer

1. Joint innovation and research opportunity
2. Feedback and continuous improvement

Sustainable Business Models for MPD Impact



Implement sustainable business models for long-term growth and scale of MPD

- Collaboration between the demand and supply sides - establish common goals and deliver real value for all stakeholders in the ecosystem

Demonstrate shared value in choosing a business model

- No one-size-fits-all business model
- Consider stakeholders' long-term objectives and capabilities

Run pilots with a clear pathway to sustainability

- Reduce the incidence of one-off projects
- Enable all parties to scale learnings by sharing best practices
- Improve co-ordination and trust around the problem statement
- Increase the accuracy of insights
- Establish solutions that can be scaled and replicated in-country

Conclusion



1. **Government Mandate:** Essential for driving MPD implementation, emphasizing the importance of treating it as a national project.
2. **Regulator-MNOs Relationship:** Approach MNOs in a friendly manner as a regulator, addressing their concerns in a convincing way to foster cooperation. Treat them as partners.
3. **Collaboration with NSO:** Partnership with the NSO is crucial, regulator and NSO are on the same page
4. **Consult ITU:** Leverage ITU's expertise to guide project standards, frameworks, and best practices, enhancing the project's credibility and technical robustness.
5. **Infrastructure Readiness:** Ensure the end-to-end system infrastructure is robust and scalable to support effectively the demands of MPD implementation.
6. **Building Capacity:** Develop internal knowledge and technical capacity to manage and analyze MPD, ensuring sustainable and competent handling of data.
7. **Learning from Success Stories:** Establish good relationships with countries that have successfully implemented MPD to learn from their experiences and best practices.
8. **Phased Implementation:** Approach the MPD rollout in phases, evaluating the feasibility and success of each phase before advancing, to manage risks and enhance adaptability.

Thank you