

F G D
WANTIKNAS

PERAN INFRASTRUKTUR TIK

● Dalam Mendorong Akselerasi Transformasi Digital ●

13 Agustus 2020

Arief Mustain

Digital Value Creation ^[5]

Digital Ecosystem for Strategic Sectors

To orchestrate public services demand and supply, to interconnect them to provide more valuable deliverables

National Data Services

To streamline access to data and its companion analysis, and to enable easier reproducibility of data-driven value creation

Digital Economy

To drive and strengthen digital first initiatives on economy activities for SMEs and Enterprises to reach borderless market with efficient supply chain, transaction & payment

Digital Social Impact

To embrace on digital society cohesiveness through digital identity and to develop better environment as well as social welfare

Policy, Regulation & Investment ^{[3][4][5]}

ICT Regulatory

The way of doing on regulatory authority, regulatory mandates, regulatory regime and competition framework and ICT fund utilization

Openness and Engagement

Engagement and participation in a multi-actor context in policy making and data driven culture

Governance & Collaboration

Leadership and political Commitment, coherent use of digital technology across policy areas and innovation

Implementation Capacities

Reinforced institutional Capacities, digital technology sourcing, Legal and regulatory Framework, investment as well

Digital Infrastructure Foundation ^{[1][5]}



Broadband

Provides connectivity to feed data and information to AI systems and carry instructions to IoT and decision makers



Cloud

Stores data and information while providing storage and computing capabilities to run and scale AI



IoT

Creates and collects data to feed AI systems while implementing instructions from AI systems



AI

AI improves accuracy and contextualization through machine learning and continuously improves by discovering new patterns of data

Digital Talent Readiness ^{[2][5]}

Digital Identity



Digital Use



Digital Safety



Digital Security



Digital Emotional Intelligence



Digital Communication



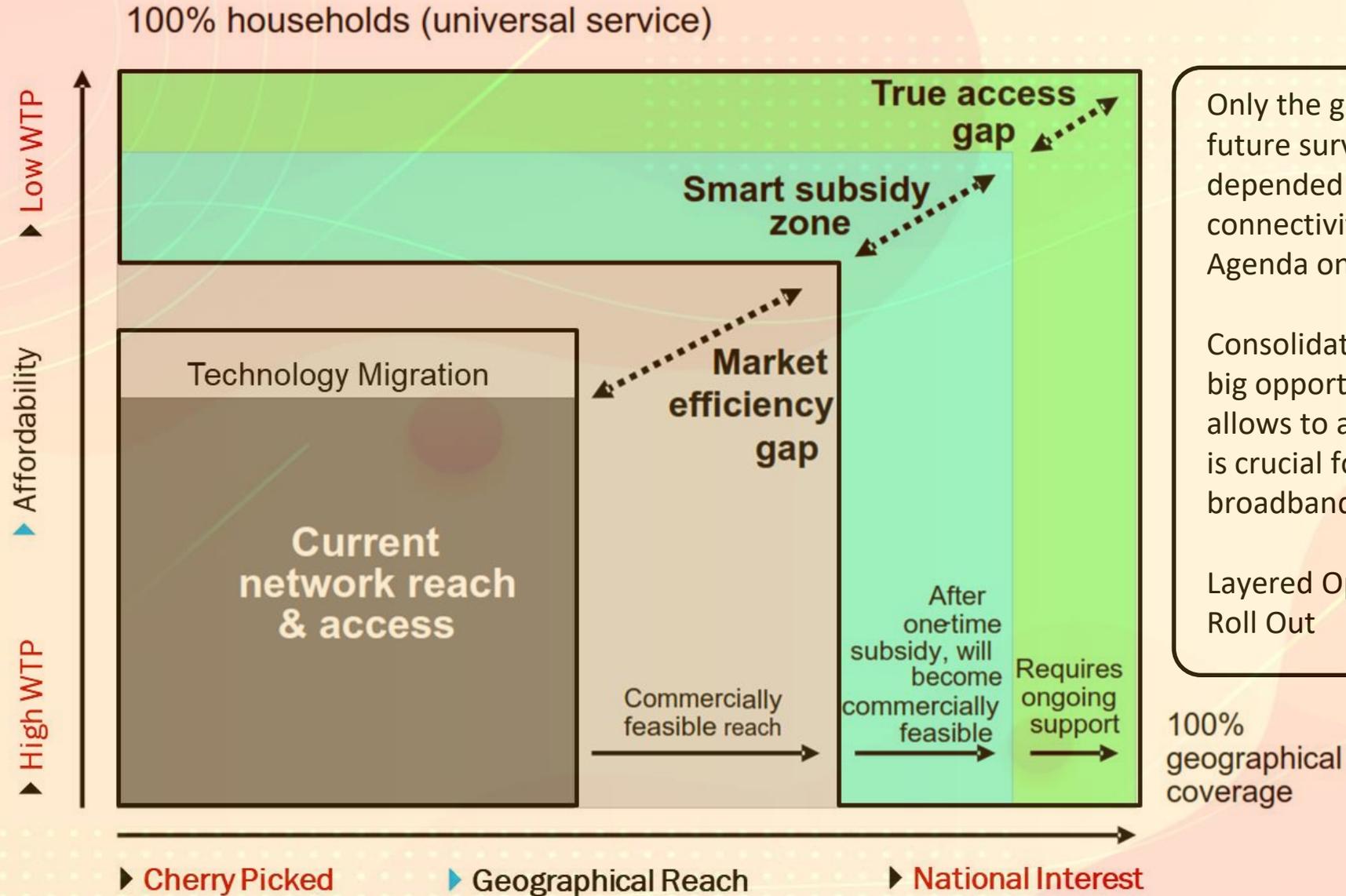
Digital Literacy



Digital Rights



Digital Infrastructure Foundation – Accessibility and Affordability



Only the government was convinced that the future survival of the country absolutely depended on their having access to broadband connectivity will strive developing National Agenda on it.

Consolidation on Infrastructure investment as a big opportunity in National Agenda Execution. It allows to achieve greater economies of scale and is crucial for the development of next-generation broadband infrastructure

Layered Open Model will be best fit for National Roll Out

Digital Infrastructure Foundation – Need New Industry Structure

Telco realizes the opportunity to create more value by unbundling themselves. Splitting an integrated telco operator into two freestanding businesses: one that operates the infrastructure (the InfraCo) and one customer-facing entity (the ServCo)

Move	Description	International examples
1. TowerCo	Divest tower assets to infrastructure operator, or sell owned towers to a TowerCo player	
2. DataCenterCo	Create independent Data Center-focused company or divest passive assets to professional operator	
3. FiberCo	Spin-off fiber assets into separate unit at arms length for aggressive investment	
4. Sub-CableCo	Divest submarine cables to infrastructure operator or exit from coalitions and move to capacity leasing	
5. Network Sharing	Share network assets such as: passive, active, spectrum	
6. NetCo	Separate E2E network assets into separate company for aggressive investment (e.g., 5G, fiber)	
7. In-market Consolidation	Mobile-mobile or mobile-fixed In-market Consolidation	
8. MVNO/ virtualization	Divest all assets and maintain barebone MVNO-like operation	No example so far

The idea of unbundling is that the resulting units will perform better by clarifying management focus and improving capital allocation, given the fundamentally different nature of these two businesses. The hope, also, is that such a move will create a market structure that requires less regulatory intervention.

Terima Kasih


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