

Why E-Policy Matters: New ICT Indicators for Knowledge Economy

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Q&A. Is car a mobile ICT product?

If so, what classification should apply?

Example: 30% of Car Value = ICT components







Analytical Framework on Techno-Regulatory Convergence

Digital Tobin's q ?

<u>1. Tobin's q:</u>

Market value of K / Replacement cost of K MPK/ 1 + r, 0 < q < 1, q > 1MPK/ 1 + r = 1 + p (p = additional cost) **2. Digital Tobin's q:**

Market value + Digital Marketplace value of K* /

Replacement cost + Digital replacement cost of K*

MPK/1 + r = 1 + p + d (d= digital cost: efficiency, effectiveness, equity)

Source: DWC 2002





Source: DWC 2002



Contribution of KE Policy on Techno-Regulatory Convergence

- Conventional ICT Indicators: 1+p1
 - P1=ICT infrastructure
- New ICT Indicators: 1+r+p*+d
 - r=economic policy
 - p*=ICT infrastructure
 - d=digital rights management
 - Examples of d:
 - Cyberspace disputes: data protection, digital rights management
 - Technical innovation: odrXML, digital certification recognition
 - Legal framework: cross-border jurisdiction and applicable law
- New ICT Indicators for KE: 1+r+p*+d+p**+kd
 - p**=new technology infrastructure (bio, nano, etc.)
 - kd=knowledge-based rights management



Source: DWC 2002

The Case of Mobile Economy in Asia





Meta Coordination of Knowledge Economy

Global Trading System (GTS) = f(MTS, DTS)



MTS: Multilateral Trading System DTS: Digital Trading System

WTO E-Commerce Programme



EU E-Europe (+) Initiative



WIPO Digital Agenda



UNECE CEFACT



Example: ICT GTS=f(MTS, DTS)



Thus,

- E-Policy matters for ICT Development
- ICT matters for KE Development
- ICT Indicators need to be in the new Context
- ICT Indicators for KE requires further work (eg. OECD, EU, ESCAP)
- Regional cooperation is a key factor.
- ESCAP mandate on multisectoral economic development bodes well with ICT/KE policy issues
- International cooperation needs to be further enhanced.
- Thank you