Technology…

IS

for DEVELOPMENT

- Global Consensus
- Jobs & GDP
- Challenges
- Ecosystem
- Recommendations
Global Consensus

“Universal and affordable access to telecommunications/ICTs is essential for the world’s collective economic, social and cultural development, and contributes to building a global networked economy and information society”

WTDC-2014 Dubai Declaration
Jobs & GDP

“The bottom of the pyramid represents the greatest opportunity for capturing the gains in job creation and GDP growth associated with digitization…”

Booz&Company: Digitization in Emerging Economies Report
## World Economic Forum

### Regional Impact: 2010-2011

<table>
<thead>
<tr>
<th>Region</th>
<th>GDP Impact (US$ billions)</th>
<th>Number of jobs created</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
<td>8.3</td>
<td>618,699</td>
</tr>
<tr>
<td>Commonwealth of Independent States</td>
<td>11.8</td>
<td>340,820</td>
</tr>
<tr>
<td>East Asia and the Pacific</td>
<td>55.8</td>
<td>2,370,241</td>
</tr>
<tr>
<td>Eastern Europe</td>
<td>7.0</td>
<td>150,015</td>
</tr>
<tr>
<td>Latin America and the Caribbean</td>
<td>27.0</td>
<td>636,737</td>
</tr>
<tr>
<td>Middle East and North Africa</td>
<td>16.5</td>
<td>377,772</td>
</tr>
<tr>
<td>North America</td>
<td>25.3</td>
<td>167,650</td>
</tr>
<tr>
<td>South Asia</td>
<td>9.4</td>
<td>1,117,753</td>
</tr>
<tr>
<td>Western Europe</td>
<td>31.5</td>
<td>213,578</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>102.6</strong></td>
<td><strong>6,002,266</strong></td>
</tr>
</tbody>
</table>

Advanced Economies: 29% 6%

Emerging Economies: 71% 94%

**WEF’s GITR 2013 – NRI - Readiness and Impact**
Booz and Company

Digital Divide
- Bottom of the Pyramid (BOP) = 3.9 Billion People in Emerging Markets

Digitization Challenge
- Digitization Costs for BOP is placed at: US$ 1.4T over 10 years
- Funding Gap for Digitizing BOP is US$ 1.2T

Digitization Benefits
- For the BOP
  - US$ 4.4T => 300% Return
  - 64M Jobs
  - Move 580M People Above Poverty Line
- For Emerging Economies
  - US$ 6.3T => 300% Return
  - 77M Jobs
  - Unlocking >US$ 700B Market for Private Sector

Booz&Company: Digitization in Emerging Economies Report
Challenges

“The Digital Divide continues to be the Development Divide”

Irina Bokova,
Director-General, UNESCO
Source: ITU’s Measuring the Information Society - 2013
Source: ITU’s Measuring the Information Society - 2013
ECOSYSTEM

“Digitization” - the mass adoption of connected digital services by consumers, enterprises, and governments

Booz&Company: Digitization in Emerging Economies Report
Digital Development:
Ecosystem Model

Ubiquitous User Adoption:
Government, Business and Citizens

Voice & Data Networks

Applications and Content

Facilitating Local Environment:
Public and Private Sectors

Demand-Pull

Supply-Push

Foundation
Digital Development: Facilitating Local Environment

- Ubiquitous User Adoption: Government, Business and Citizens
- Voice & Data Networks
- Applications and Content
- Facilitating Local Environment: Public and Private Sectors

Public Sector
- Digital Development Plan
- Universal Service & Access Fund
- Spectrum Management & Allocation
- Cyber Security Laws
- Privacy Laws
- Electronic Financial Transactions Laws

Private Sector
- Technical Skills
- Local Hosting of Content and Services
- International and Local Private Sector Partnerships
- Access to Capital
Digital Development: Voice and Data Networks

- Affordable Access to Voice and Broadband
- Access for Urban and Rural Populations
- Shared Passive Infrastructure: Fiber Backbone, IXPs and International Gateways
- Adoption of New Technologies: High Capacity Satellites, LTE Small Cells and TVWS
- Access to Individuals, Households, Public Kiosks, Private and Public Sector Institutions
- Internet of Things

Ubiquitous User Adoption: Government, Business and Citizens

Voice & Data Networks

Applications and Content

Facilitating Local Environment: Public and Private Sectors
Digital Development: Applications and Content

- Ubiquitous User Adoption: Government, Business and Citizens
- Voice & Data Networks
- Applications and Content
- Facilitating Local Environment: Public and Private Sectors

- Value-Added Locally-Developed Content and Services
- Locally Hosted Content and Services
- Local Language Content
- Content Support for: Education, Government, Health Services, Agriculture, Trade/Commerce, etc.
- Electronic-Based Financial Transactions
- Security and Privacy Issues Addressed
- Big Data & Analysis
Digital Development: Ubiquitous User Adoption

Ubiquitous User Adoption:
Government, Business and Citizens

Voice & Data Networks
Applications and Content
Facilitating Local Environment:
Public and Private Sectors

• Affordable for All
• Available for All: Personal and Shared Access
• High Confidence: Security and Privacy
• Digital Literacy
• Early School Adoption
• Use by Individuals: Education, Government, and Private Sector Services
• Usable by those with Handicaps
• Gender Equality
World Economic Forum

Source: WEF’s GITR 2013 – NRI - Readiness and Impact
Recommendations

- Digital Development IS accepted as a core OF Socioeconomic Development
- Ecosystem approach is Essential for Impact
- Need for executable Digital Development Plans
- For Beyond-2015, Digital Development should be included as a Sustainable Development Goal, NOT as a separate add on
- Future STIP Reviews should expand to include a stronger focus on Digital Development
Thank You!

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