Enhancing India-Pakistan Trade Telecommunication Networks

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## India-Pakistan Telecom Stats

<table>
<thead>
<tr>
<th>Category</th>
<th>India</th>
<th>Pakistan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Readiness Index</td>
<td>3.8 (83)</td>
<td>3.3 (111)</td>
</tr>
<tr>
<td>Mobile Network Coverage (% of population)</td>
<td>83 %</td>
<td>93 %</td>
</tr>
<tr>
<td>Broadband Internet subscribers per 100 Pop: Fixed/ Mobile</td>
<td>1.2/5.0</td>
<td>0.5/ 0.7</td>
</tr>
<tr>
<td>Internet &amp; Telecom Competition (Rank)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Internet Bandwidth (Kbps per Internet User)</td>
<td>5.423</td>
<td>4.752</td>
</tr>
<tr>
<td>Pre-paid mobile cellular tariffs PPP ($/min)</td>
<td>0.04</td>
<td>0.06</td>
</tr>
<tr>
<td>Impact of ICTs on new products and services (Scale: 1-7)</td>
<td>4.8</td>
<td>4.0</td>
</tr>
<tr>
<td>Market share HHI</td>
<td>0.18</td>
<td>0.23</td>
</tr>
<tr>
<td>Revenue ($) / Investment($) % of GDP</td>
<td>35 B / 93 B / 2%</td>
<td>4.65 B / 1.8 B / 2%</td>
</tr>
<tr>
<td>Laws relating to ICTs (Scale: 1-7)</td>
<td>4.2</td>
<td>3.1</td>
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</table>
Cross border voice traffic has doubled in the past decade
Online traffic has grown to more than 40,000 petabytes a month
Skype call minutes account for about 40% of international voice call minutes

<table>
<thead>
<tr>
<th></th>
<th>INDIA</th>
<th>PAKISTAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Phone Calls (Minutes per Capita) Outbound/Inbound</td>
<td>6/15</td>
<td>18/40</td>
</tr>
<tr>
<td>Percentage of International Phone Calls within region (Outbound/Inbound)</td>
<td>21%/0%</td>
<td>4%/0%</td>
</tr>
<tr>
<td>Internet Traffic (Gbps)/ Country Rank</td>
<td>233/64</td>
<td>39/79</td>
</tr>
<tr>
<td>FDI in Telecom/ As % of total FDI</td>
<td>1.65 B/6%</td>
<td>0.9 B/34%</td>
</tr>
<tr>
<td>Global Country Connectivity Index in Data and Communication (Rank out of 131 countries)</td>
<td>64</td>
<td>79</td>
</tr>
</tbody>
</table>
Data and communication, people flows between regions

Size of increase

<table>
<thead>
<tr>
<th>Regions</th>
<th>US</th>
<th>LA</th>
<th>ME</th>
<th>WE</th>
<th>EE</th>
<th>CH</th>
<th>NE</th>
<th>AU</th>
<th>OA</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>Latin</td>
<td>Africa</td>
<td>Middle</td>
<td>Europe</td>
<td>Europe</td>
<td>China</td>
<td>Northeast</td>
<td>Australasia</td>
<td>Other</td>
</tr>
<tr>
<td>and Canada</td>
<td>America</td>
<td>and</td>
<td>East</td>
<td>and</td>
<td>and</td>
<td>region</td>
<td>Asia</td>
<td>Asia</td>
<td>Asia</td>
</tr>
</tbody>
</table>

Data and communication flows (total cross-border bandwidth)

Bandwidth

- `<50,000` Mbps
- `50,000–100,000` Mbps
- `100,000–500,000` Mbps
- `500,000–1 million` Mbps
- `1 million–5 million` Mbps
- `>5 million` Mbps

2008

100% = 29 million Mbps

2013

100% = 201 million Mbps

7x
Investment in 6 months of 2014 in Digital Start-ups in India

Investments by Sector

- e-Commerce: 602
- Service: 120
- Consumer/Web: 80
- Real Estate: 40
- Mobile: 20
- Healthcare: 20
- Travel: 10
- Finance: 10
- Data Analytics: 10
- Technology: 10
- Software: 10
- Education: 10
- Logistics: 10
- Others: 10

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Relationship between Digital Flows and Economic Trade

Digital Flows

- Telecommunications & Internet Traffic Flow
- IT Services Flow
- Cross border investment in IT sector
- Government policies

Economic Activity (GDP per capita)

Relationship: $R^+$
Government Policies

Calls/ Internet traffic flow

- Decrease in terminal charges for International incoming calls
- Deregulation of Voice over Internet Protocol (VoIP)
- Government investment in Internet Exchanges
- Tax incentives for telecom equipment

IT services flow

- Tax incentives for the ICT sector
- Special Economic Zones for IT Export

Investment flow in ICT sector

- Increase in FDI cap
- Start-up incubation fund

Government Policies