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Science and Technology

...for **Development**

Theme 2: ICTs for Inclusive Social & Economic Development

3 December 2013



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Technology...

~~...is~~ **for DEVELOPMENT**

❖ **Jobs and GDP**

❖ **Essential Ecosystem**



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Technology for...
JOBBS and GDP



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Digital technologies and applications contribute to the economic strength, societal well-being, and effective governance of a nation



GSMA: The Mobile Economy 2013

The Mobile Ecosystem Benefits the Global Economy

MOBILE ECOSYSTEM IMPACT

Overall, the whole mobile ecosystem's revenue was US\$1,551 billion in 2012, equivalent to 2.2% of global GDP.

Ecosystem Contribution to Public Funding



MOBILE WILL CONTRIBUTE

\$2.5tn

TO PUBLIC FUNDING OVER THE 5 YEARS 2013-2017

Ecosystem Contribution to Global GDP



6.6% CAGR

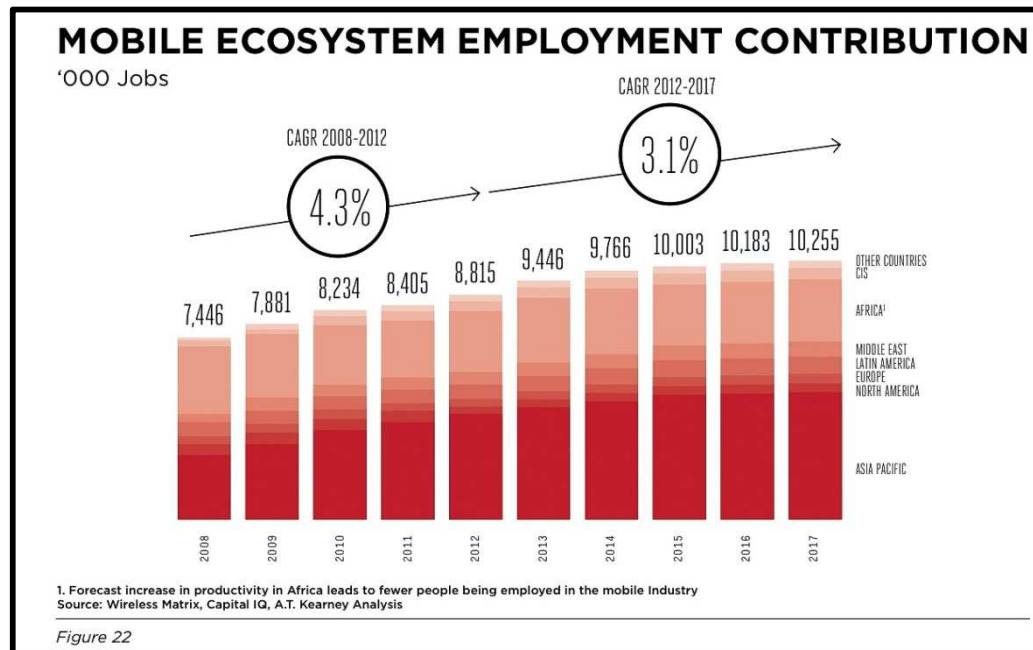
2012-2017

Mobile will contribute **\$10.5tn** to global GDP over the 5 years 2013-2017

Source: Wireless Matrix, A.T. Kearney Analysis



GSMA: The Mobile Economy 2013



Ecosystem Jobs Created

1,300,000

Adding 1.3m jobs in the next 5 years

Source: Wireless Matrix, A.T. Kearney Analysis



World Economic Forum

Regional Impact: 2010-2011

Region	GDP Impact (US\$ billions)	Number of jobs created
Africa	8.3	618,699
Commonwealth of Independent States	11.8	340,820
East Asia and the Pacific	55.8	2,370,241
Eastern Europe	7.0	159,015
Latin America and the Caribbean	27.0	636,737
Middle East and North Africa	16.5	377,772
North America	25.3	167,650
South Asia	9.4	1,117,753
Western Europe	31.5	213,578
Total	192.6	6,002,266

Source: WEF's GTR 2013 – NRI - Readiness and Impact



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Advanced Economies:

29%

6%

Emerging Economies:

71%

94%

Source: WEF's GTR 2013 – NRI - Readiness and Impact



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Booz and Company

Digital Divide

- ❖ **Bottom of the Pyramid (BOP)
= 3.9 Billion People
in Emerging Markets**

Digitization Challenge

Digitization Benefits

Source: Booz&Company's Digitization in Emerging Economies Report



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Booz and Company

Digital Divide

- ❖ Bottom of the Pyramid (BOP)
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in Emerging Markets

Digitization Challenge

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

Digitization Benefits

Source: Booz&Company's Digitization in Emerging Economies Report



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Digitization Challenge

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- ❖ 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

Source: Booz&Company's Digitization in Emerging Economies Report



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Booz and Company

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

Source: Booz&Company's Digitization in Emerging Economies Report



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Technology...
as an ECOSYSTEM



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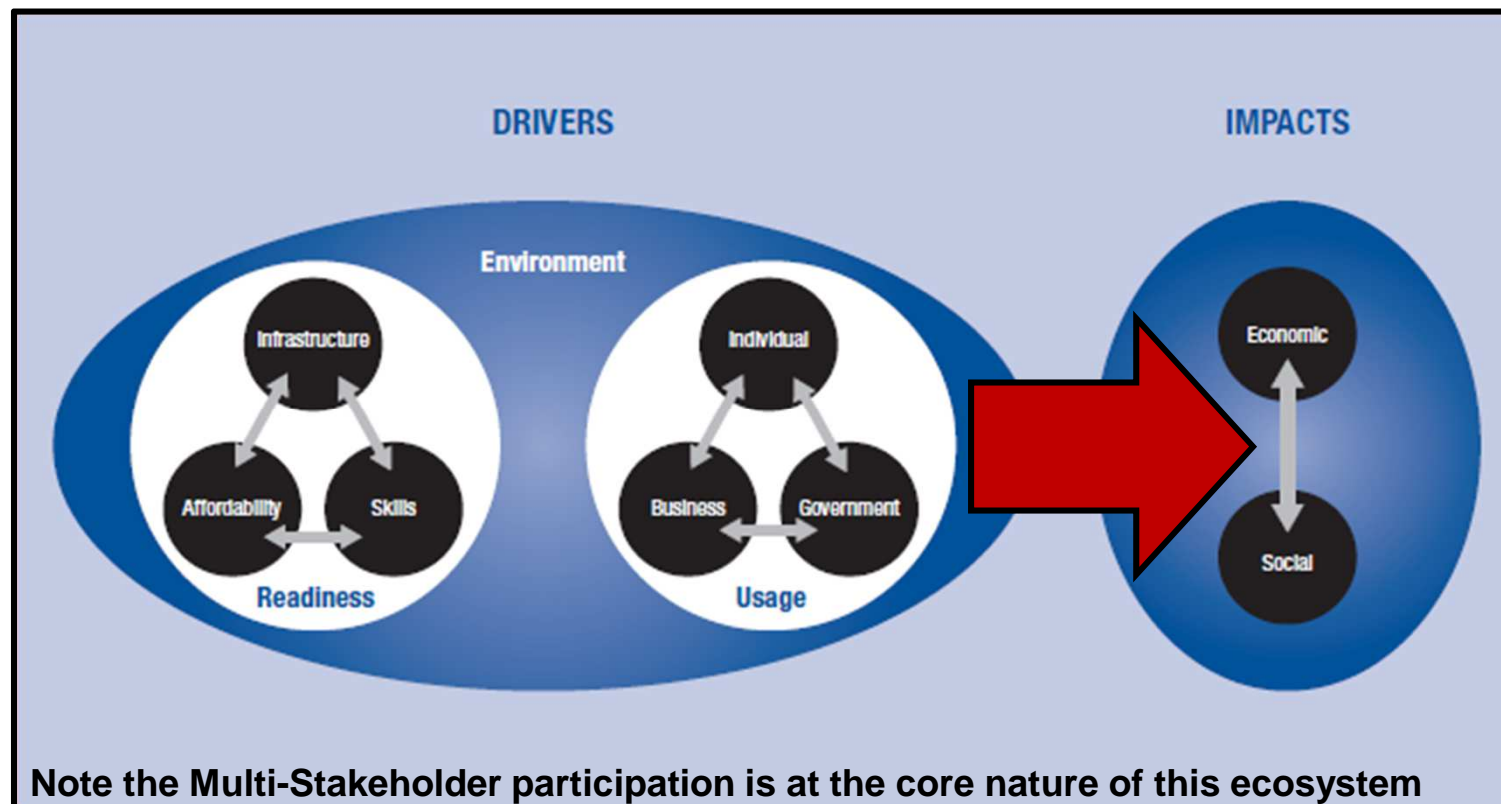
Booz and Company

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

Source: Booz&Company's Digitization in Emerging Economies Report



World Economic Forum



Source: WEF's GTR 2013 – NRI - Readiness and Impact

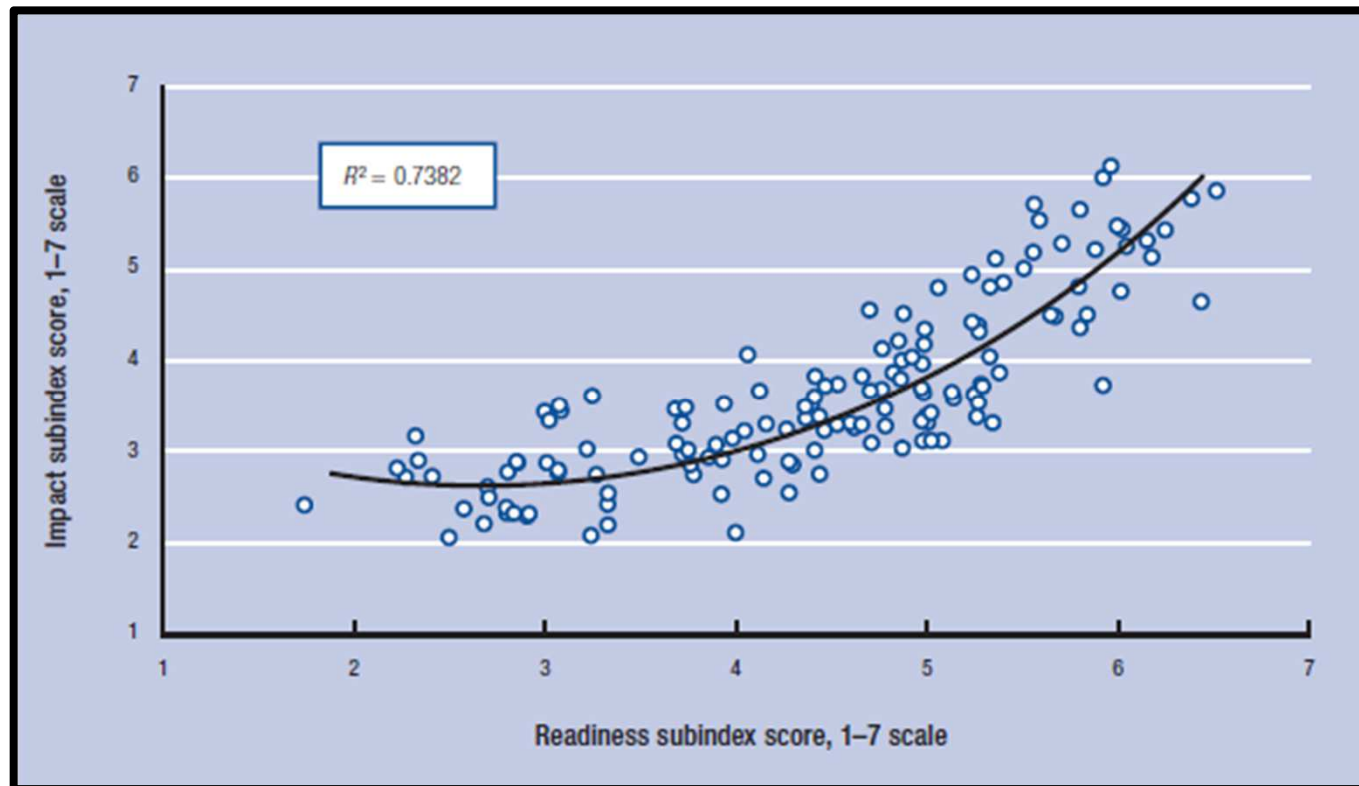


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Source: WEF's GITR 2013 – NRI - Readiness and Impact

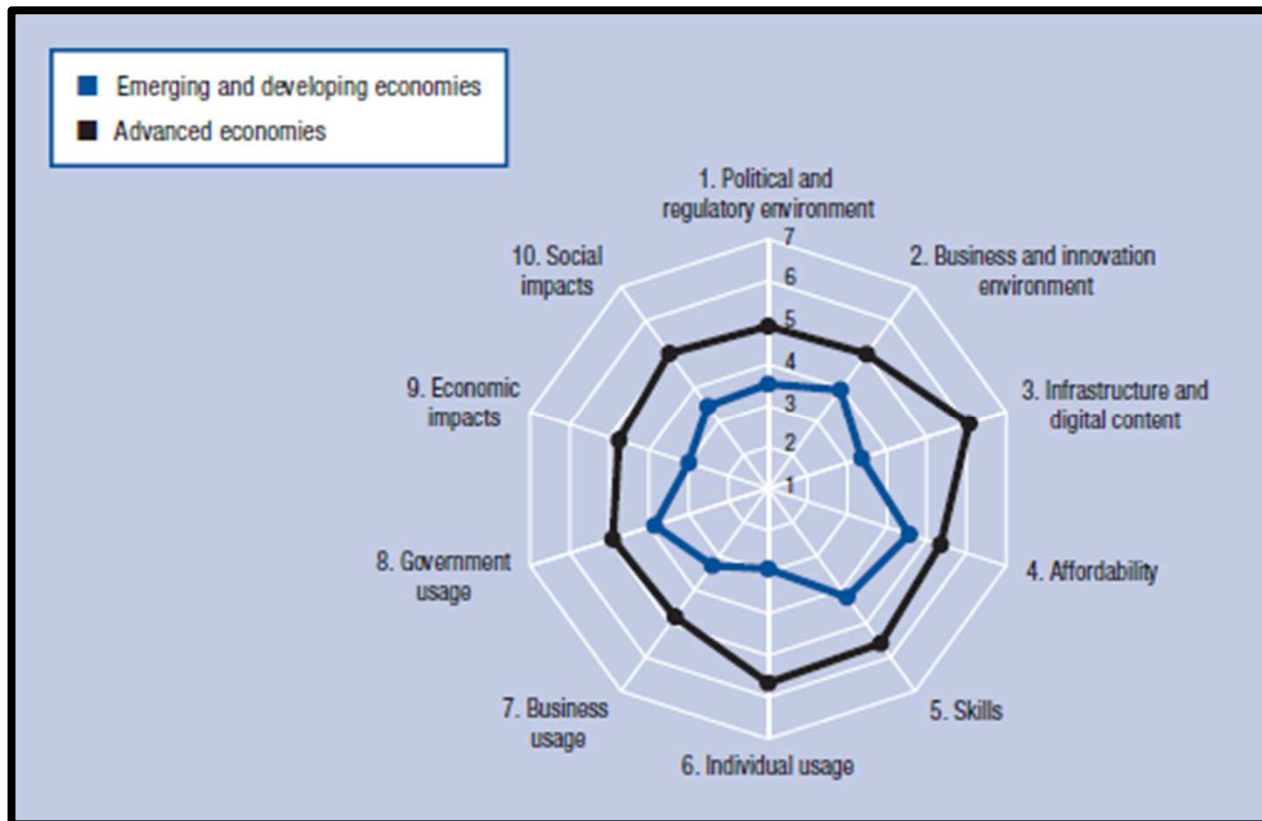


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Source: WEF's GTR 2013 – NRI - Readiness and Impact

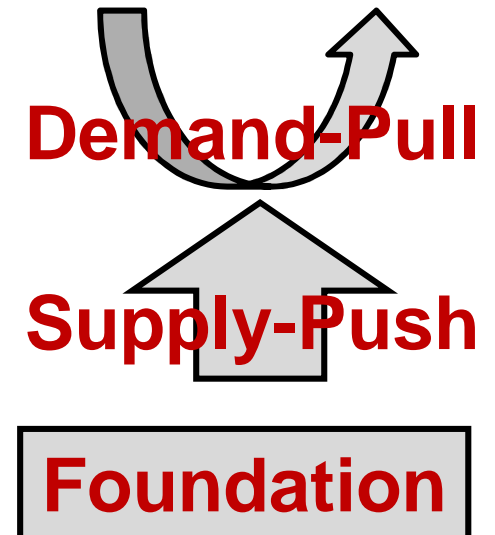
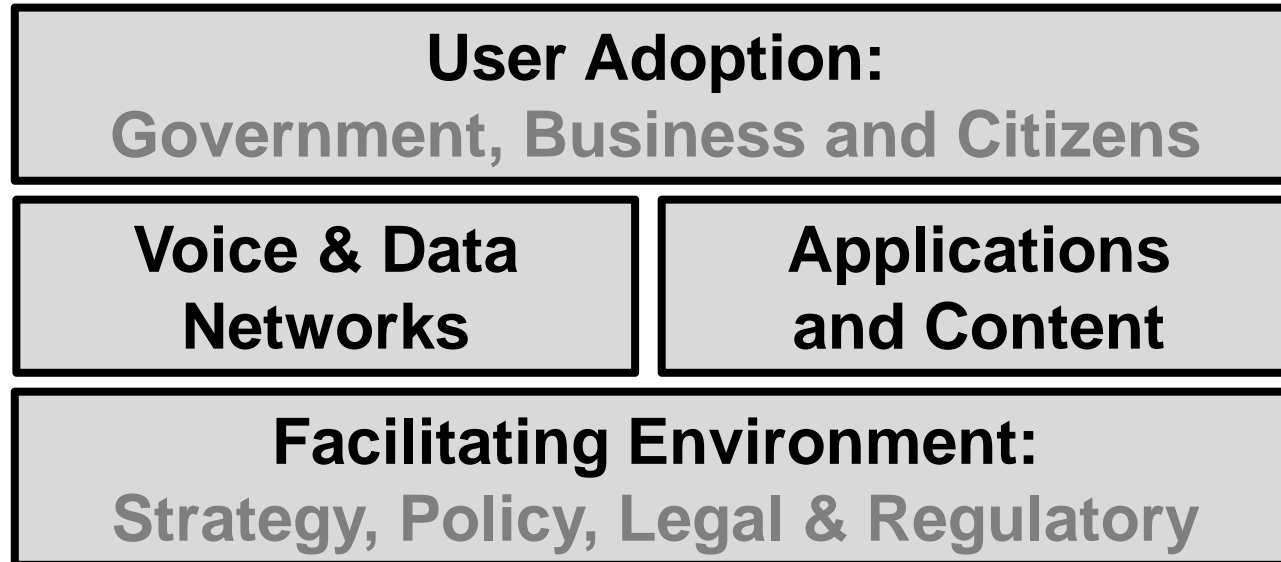


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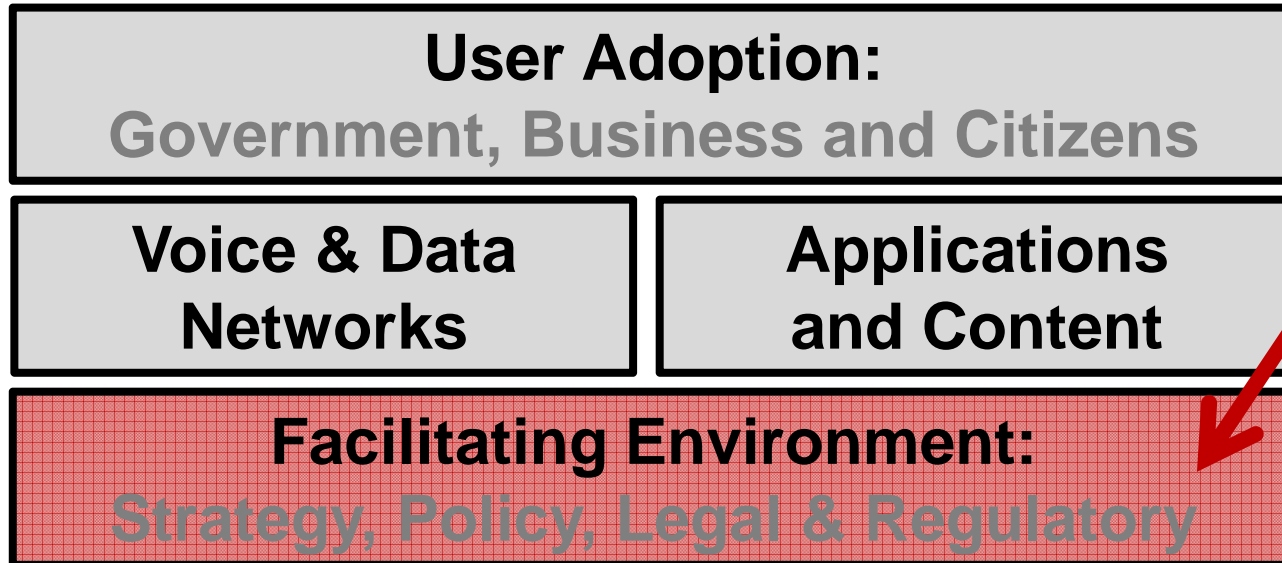


USAID: Global Broadband & Innovations





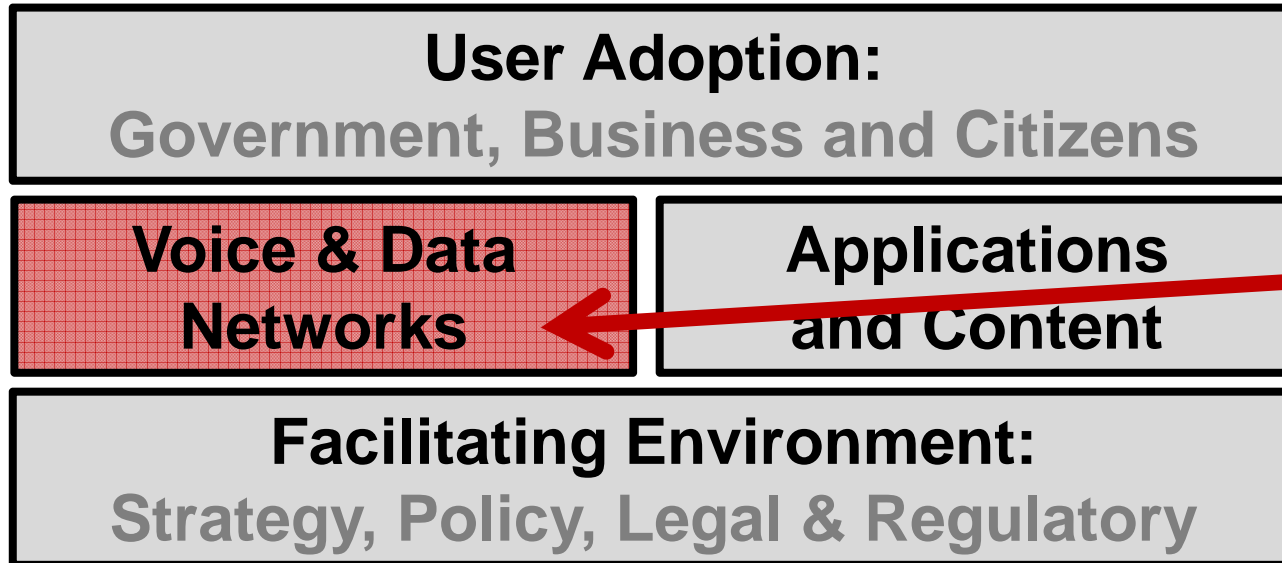
USAID: Global Broadband & Innovations



- ❖ *National Strategies*
- ❖ *Broadband Plans*
- ❖ *Competitive Environment*
- ❖ *Effective Regulator*
- ❖ *USAFs*
- ❖ *Cyber Security*
- ❖ *Privacy*



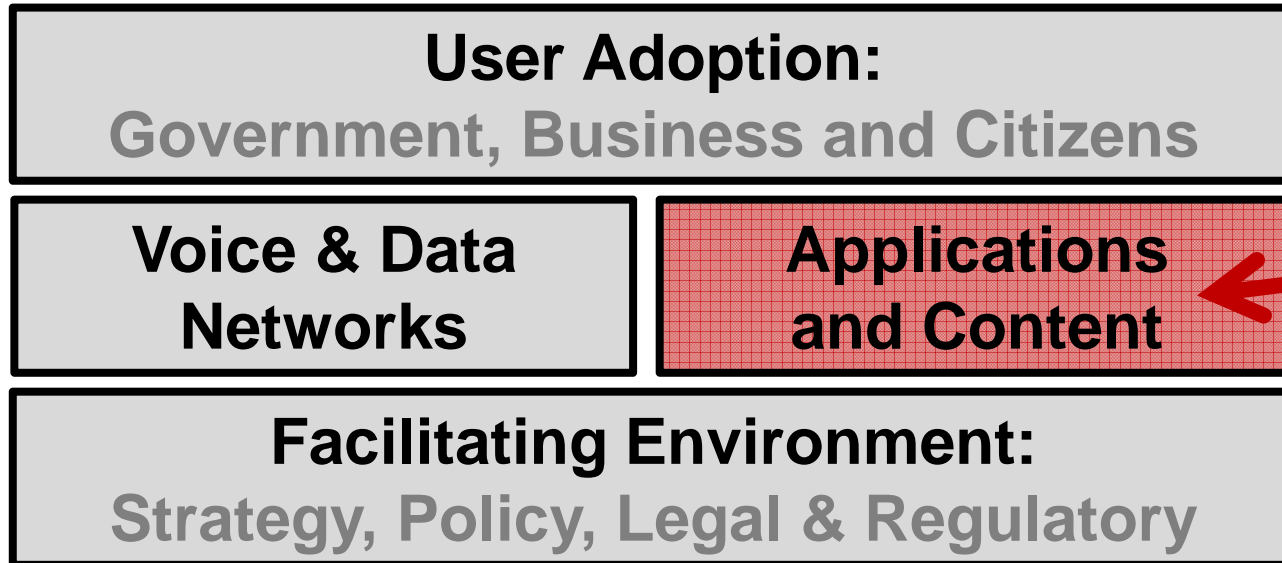
USAID: Global Broadband & Innovations



- ❖ *Shared National Broadband Backbone*
- ❖ *Shared Civil Works*
- ❖ *Low-Cost Wireless Distribution for Rural Population*



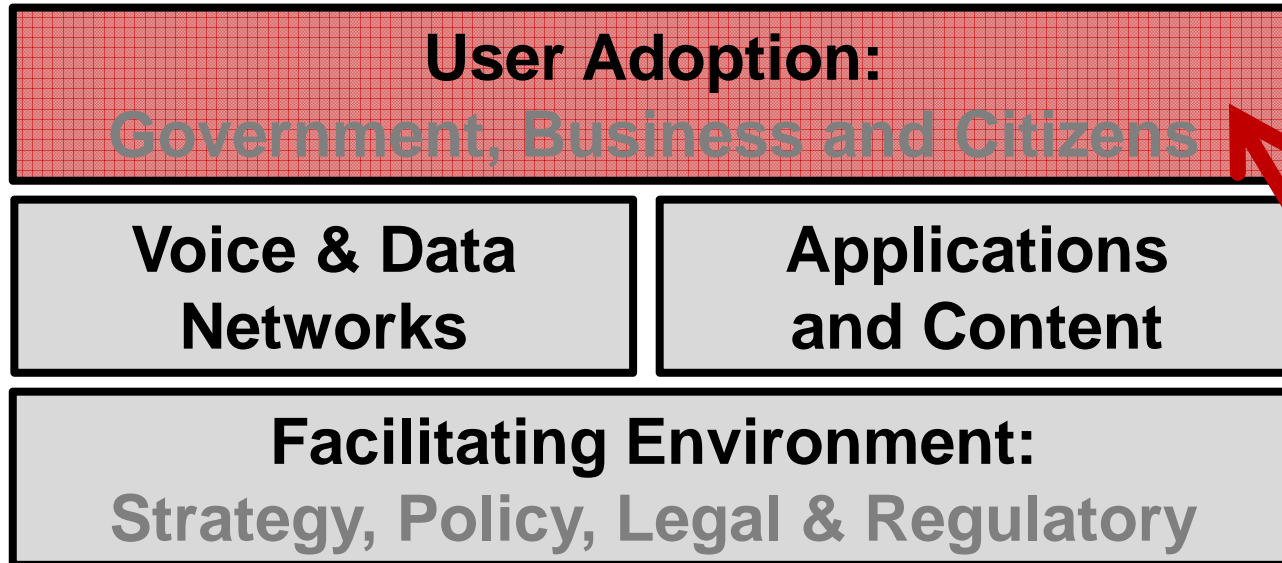
USAID: Global Broadband & Innovations



- ❖ *Local Language Content*
- ❖ *Local Public & Private Sector Adoption*
- ❖ *Local Applications Development*
- ❖ *Local Hosting*
- ❖ *Security & Privacy*



USAID: Global Broadband & Innovations



- ❖ *Language and Computer Literacies*
- ❖ *Early School Adoption*
- ❖ *Gender & Handicap Programs*
- ❖ *Public & Private Sector Adoption*
- ❖ *Broad Access*
- ❖ *Affordability*



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Summary

- ❖ **Technology *is* Development**
- ❖ **An *Ecosystem* approach is *Essential***
- ❖ **Multi-Stakeholder engagement is at the *Core***
- ❖ **Public Sector sets the *Platform***
- ❖ **Value is *Derived* from **Applications and Content****
- ❖ **Access *Expands* the **Participation by All****
- ❖ **Value is *Realized* through **Mass User Adoption****



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Thank You!

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