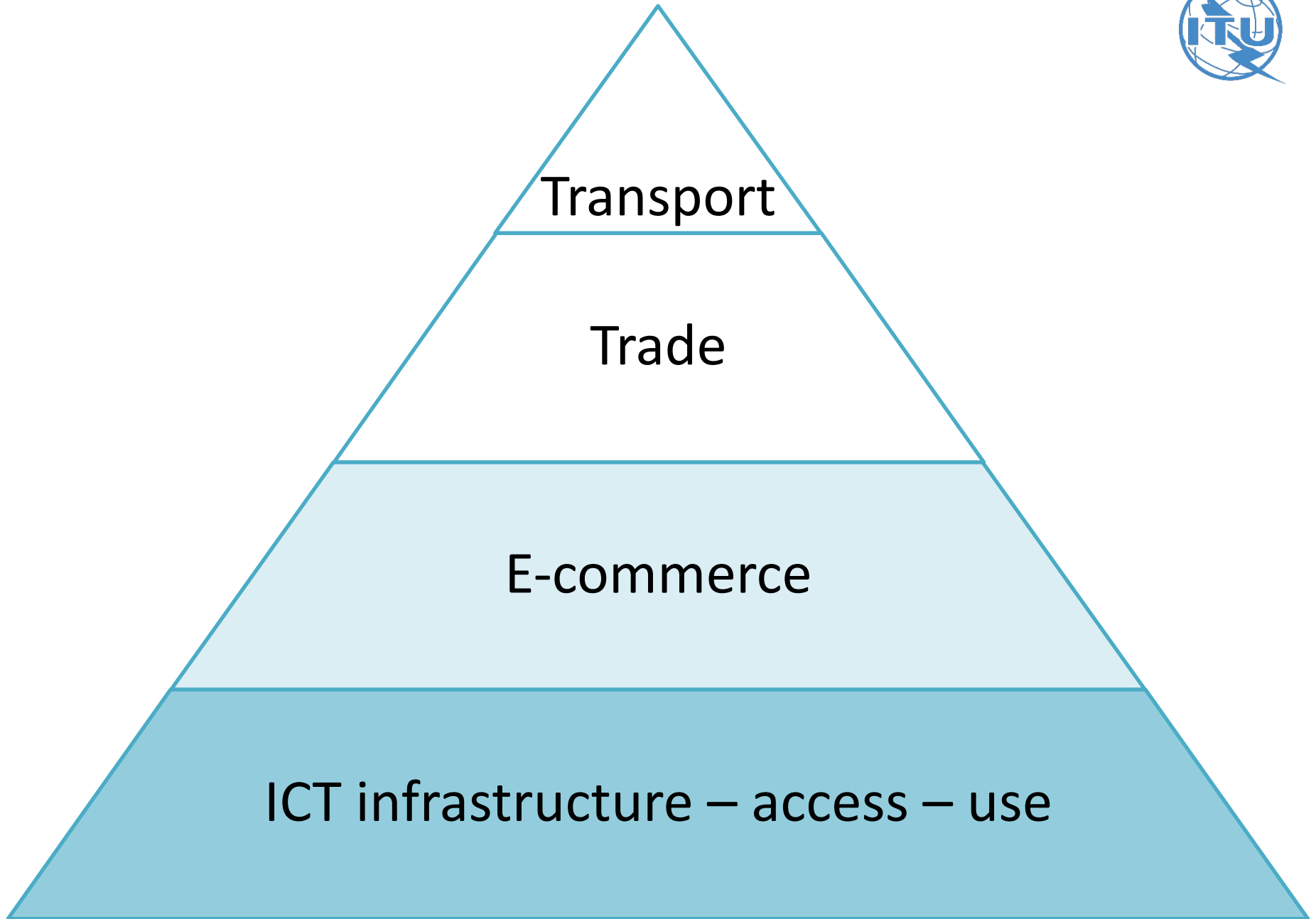


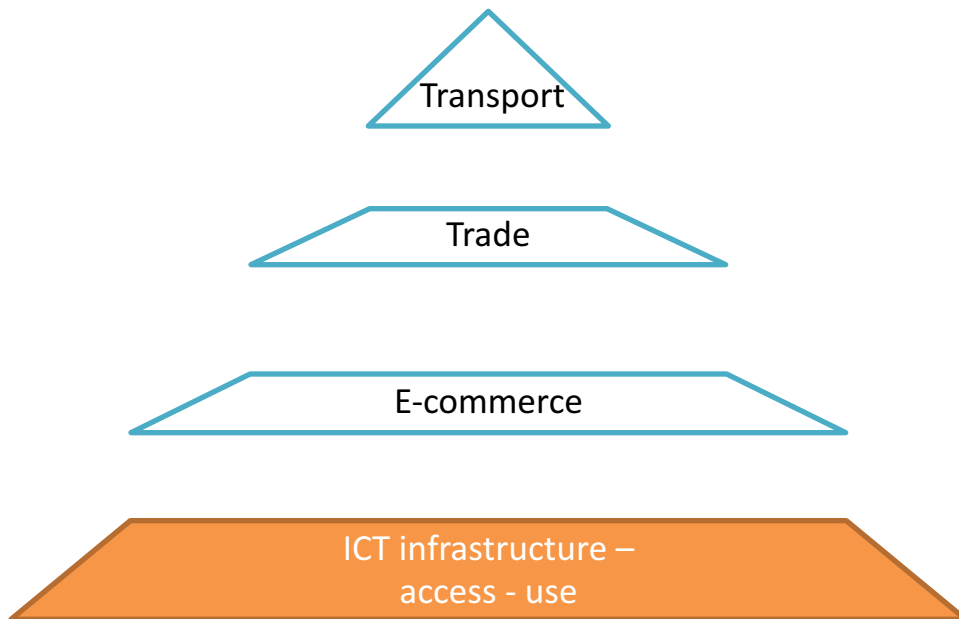


Ministerial Meeting of Landlocked Developing Countries on Trade and Transport
16-17 May 2018
Astana, Kazakhstan

Connectivity, Information and Communication Technologies & E-commerce in the LLDCs

Vanessa GRAY
Head of LDCs, SIDS &
Emergency Telecommunications Division
Telecommunication Development Bureau
International Telecommunication Union (ITU)



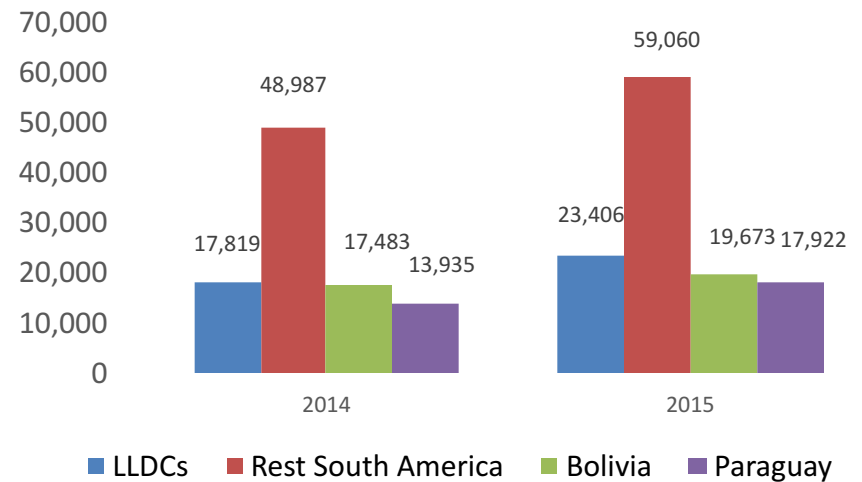




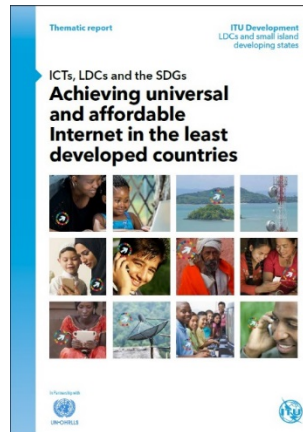
LLDCs connectivity challenges

- No direct access to the sea and **limited access to international connectivity**
- **High ICT prices**
- Some LLDCs have large land areas and the roll-out of terrestrial communication infrastructure is costly

International Internet bandwidth (bps) per Internet user



Source: ITU



Recommendations

Competition

Coverage obligations & universal service funds

Rationalize taxation

Digital literacy and skills

Achieve gender parity

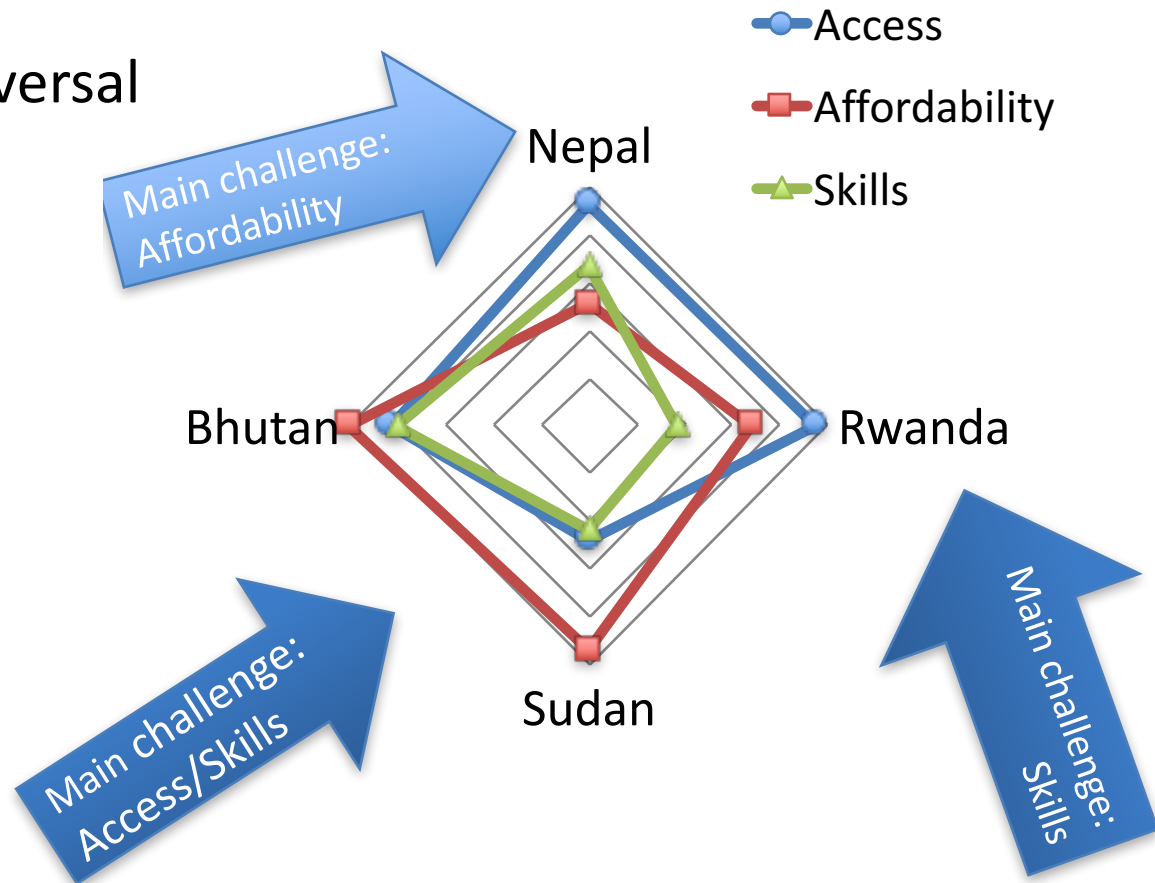
Institutional strengthening

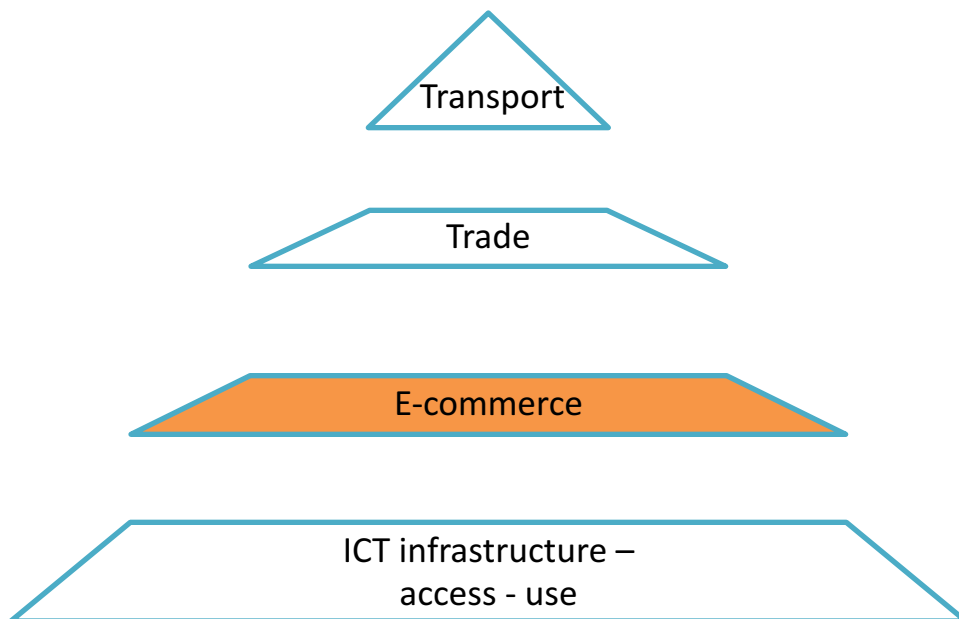
Build core infrastructure

Better data

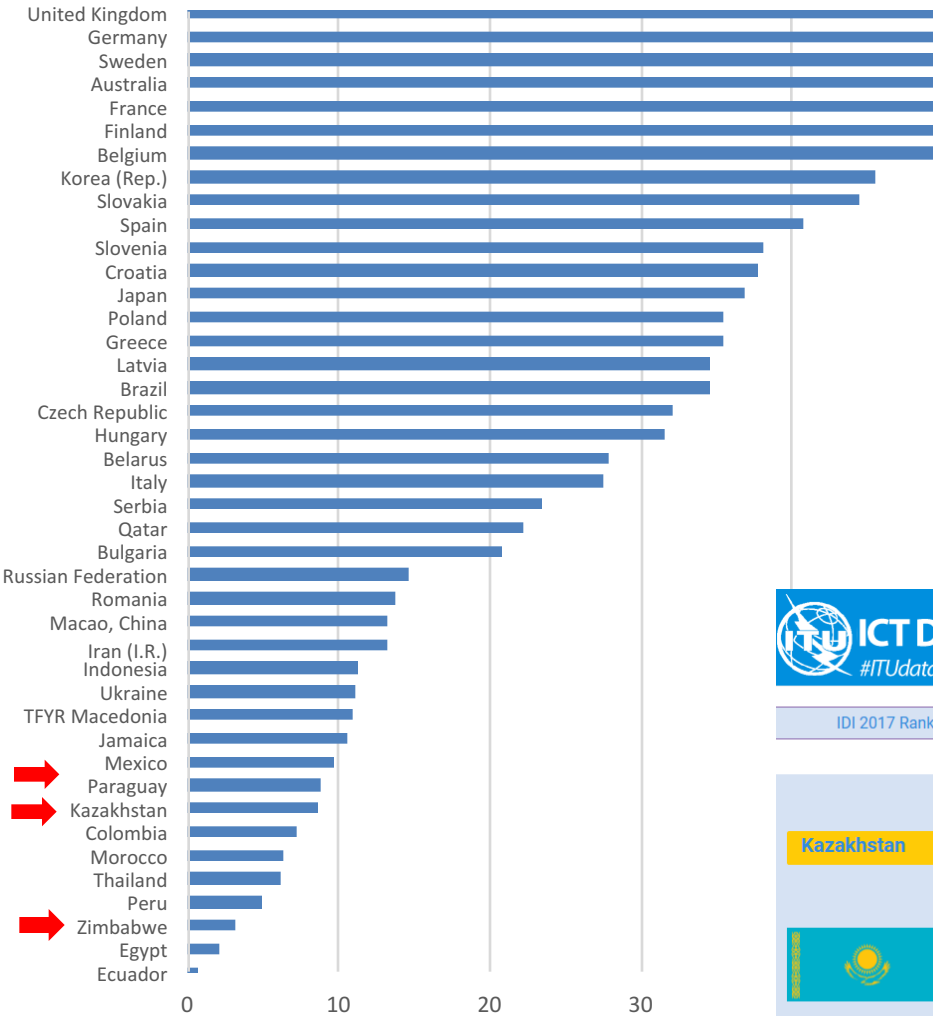
Source: ITU

3-dimensional framework to guide policy makers





% of Internet users purchasing or ordering goods or services



Key indicators for Kazakhstan (2016)	CIS	World
Fixed-telephone sub. per 100 inhab.	23.2	13.6
Mobile-cellular sub. per 100 inhab.	150.8	101.5
Fixed-broadband sub. per 100 inhab.	13.9	12.4
Active mobile-broadband sub. per 100 inhab.	78.9	52.2
3G coverage (% of population)	86.8	85.0
LTE/WiMAX coverage (% of population)	69.0	66.5
Mobile-cellular prices (% GNI pc)	0.4	5.2
Fixed-broadband prices (% GNI pc)	0.6	13.9
Mobile-broadband prices 500 MB (% GNI pc)	0.5	3.7
Mobile-broadband prices 1 GB (% GNI pc)	0.5	6.8

ICT Development Index 2017

#ITUdata

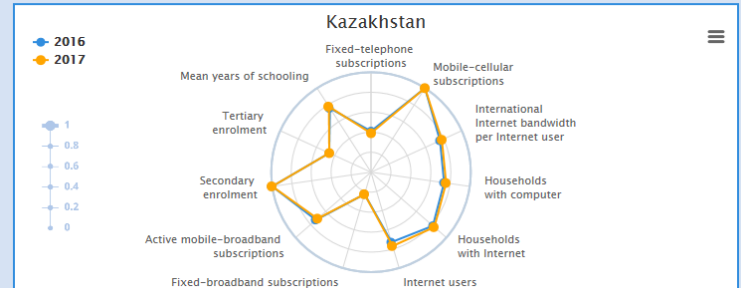
- IDI 2017 Rank
- IDI 2017 Map
- IDI 2017 by Region
- IDI 2017 Comparison
- Economy card

Kazakhstan

Population: 16,930,605
 Population density: 6.23
 GNI per capita: 8,710
 Region: CIS, Developing

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IDI 2017 Rank	52	IDI 2016 Rank	51
IDI 2017 Value	6.79	IDI 2016 Value	6.72
Regional IDI 2016 Rank	3		



Note: Data only available for some countries

Source: ITU

Driving e-commerce

- Sound legal and regulatory framework
 - Clear rules on electronic payments, e-documents and e-signatures
 - Customer protection and trust, online dispute resolutions
 - Cybersecurity
 - Rules on intermediary liability
 - Data protection regulations
- Reliable transport and logistics services
- Raising awareness
- Developing e-commerce skills
- Data on users and non-users

COMING
SOON

Better data for better policies:



NEW ITU indicators on e-commerce

- Type of goods and services purchased online
- Payment channels for online purchases
- Reasons for not purchasing online
- Method of delivery

