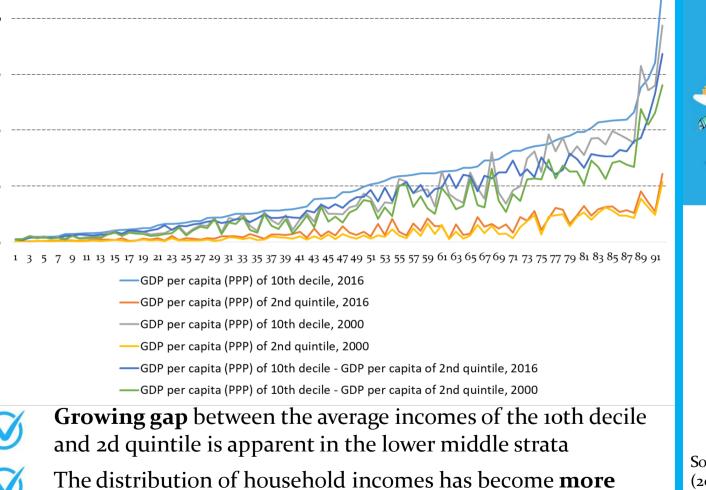


### Digital Literacy: A Way to Share Digital **Dividends**

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**unequal** during the post-2008 economic recovery



# Global income inequality does not decrease

Source: Grigoryev, Pavlyushina (2019) Global Recession and Income Inequality

Di di	gital vide
	cators
4	
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internet shopping (70 or pop)	14.2
Adult literacy (% of pop)	93.2
Opport	unitie
OSI (Online Service Index), UN DESA	0.92
T	

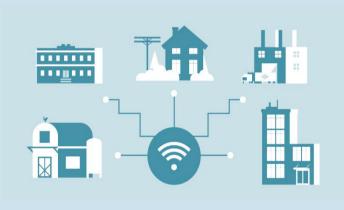
Access Mobile broadband subscriptions (per 83.6 80.8 25.8 90.2 70 100 inhabitants) 47.8 Download speed, fixed bb (Mbps) 38 60.7 101.3 27.9 Usage Use of virtual social networks (%) 66 23 71 49 40 Internet chapping (% of pan) 26.9 2.9 45.3 7.9 96.8 87 74.4 99.7 es 0.86 0.83 0.95 0.92 Firms with website (% of firms) 66.1 48.9 64.6 36 54 **All five BRICS members** Have ambitious goals in terms of internet coverage **Building of infrastructure** 

Is the most popular measure for spreading Internet access

Brazil

India China Russia SAR

# First-level digital divide in BRICS



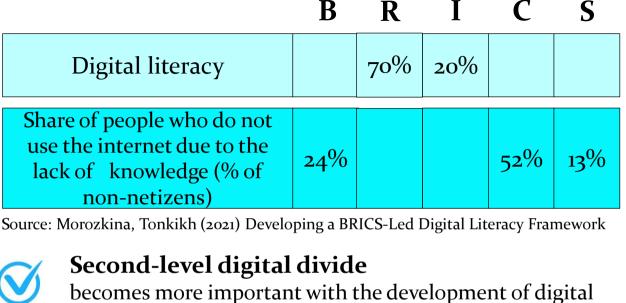
	В	R	I	C	S		
Inequality by region groups within BRICS							
Economic centers	81	88	96	76	72		
Developed	73	81	46	59	55		
Middle-income	63	79	36	50	59		
Less developed	56	83	29	44	48		
Total	<b>70</b>	82	37	53	62		
Inequality indicators							
Relative variability	0.56	0.34	3.58	0.72	0.51		
Variation ratio	0.14	0.07	0.69	0.19	0.16		
Theil index	0.01	0.002	0.02	0.17	0.01		
Courses Marcalina (anna) Decimal Devenantius of Digitalization in DDICC							

Source: Morozkina (2020) Regional Perspective of Digitalization in BRICS



#### Regional inequality and internet access in remote areas

is the main challenge for all five countries. A decrease of digital gap at the national level must be accompanied by respective progress in the least developed areas





India and Russia regularly assess digital literacy levels

Brazil, China, South Africa conduct sample surveys on ICT issues, which include the question on reasons for not using internet



digital divide

#### DigComp 2.0

- Used in EU, Russia, UNESCO Digital Literacy Global Framework;
- covers 21 components of digital competence within the following five areas
  - Information and data literacy;
  - Communication and collaboration;
  - Digital content creation;
  - Safety;
  - Problem solving.

## India (PMGDISHA program)

- Used to evaluate outcomes of Indian digital literacy program by following indicators:
  - Sending an e-mail
  - Opening and using e-government service portal, applying for certificates;
  - Registration on online learning and Scholarship portals;
  - Creating login credentials for Indian
    Railways Catering and Tourism Corporation;
  - Applying online for insurance;
  - Executing at least 5 electronic payments



Comprehensive, but too complex for realization in wide range of countries

Focused on national priorities, such as ability to deal with government e-services



# Internet users profile



	Adv. Ec.	Trans. Ec.	Dev Africa	Dev Asia	Dev LA		
Top Internet activities undertaken by individuals, %							
Social networks	70	71	86	87	79		
E-mailing	85	45	47	60	52		
Information on goods	84	51	31	68	52		
Reading online	76	42	39	46	30		
Music/video/games	57	53	64	66	51		
Making calls	57	71	48	63	73		

Source: UN (2021) Digital economy report



#### Participation in social media is high in all the regions

Whereas doing a formal online course ranges from 8% to 28%, and using internet for learning purposes is also low: from 13% to 31%

#### Potential for cooperation





Cases

Of best projects, effective technologies and comprehensive national strategies aimed at increase of broadband internet coverage



Of digital literacy assessment best suited for developing countries and reflecting their priorities, including abilities to use e-government services and access to digital agriculture programs



Aimed at increase of digital literacy levels, including establishment of BRICS Digital Literacy School and platform for exchange of best practices