## Online Learning in BRICS amid COVID-19

**Krish Chetty** 

South Africa and the BRICS: Revisiting Development Priorities 23 February 2022





### What is online learning?

### **Emergency online learning**

- Temporary mode of teaching
- Limited resources
- Limited contact between student and lecturer
- Minimal training for students and staff

### Regular online learning

- Learning specifically designed for online consumption
- Greater engagement between staff and student
- Must be equitably accessible
- Not urgent
- All resources are accessible
- All faculty are well training in the delivery of the content





## Traditional vs Mass Media



#### **Traditional**

- University operated as a business.
- Higher fees
- Synchronous, in person content delivery
- 1 Lecturer to limited number of students limited productive engagement

#### Course provided as MOOCs styled content

- Lower cost fees
- Works better for basic level content with defined right and wrong answers
- Modular
- Asynchronous content delivery
- 1 Expert Lecturer to Many Students contributes to decreased costs
- No travel, accommodation cost





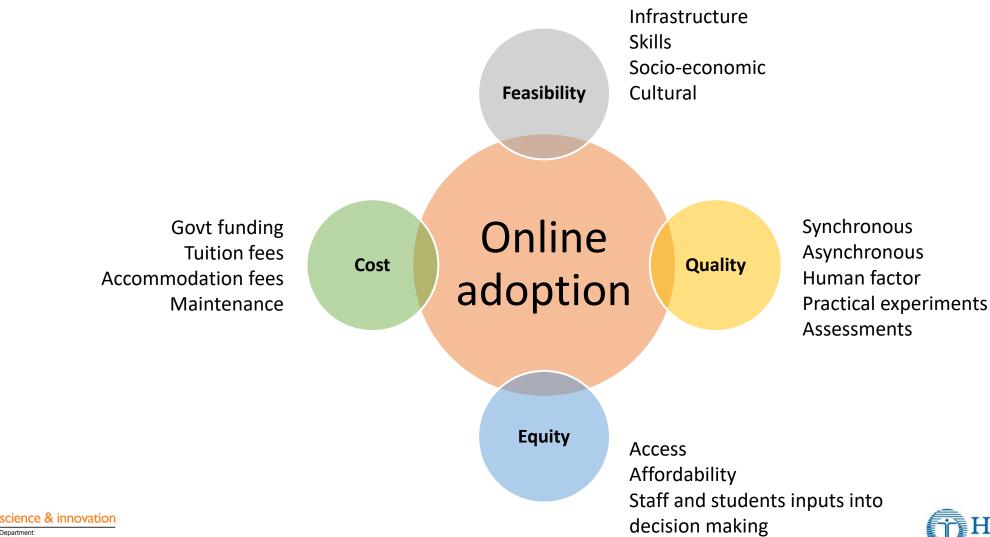
# Best Approach

- Adopt MOOCS Style Content for entry level content
- Concentrate resources for higher level subject matter with subjective answers
- Introduce Team of Teaching assistants to support the lecturer and promote engagement with students
- Ensure technology is equitably shared
- Lower costs compared to the traditional approach
- Better engagement
- Promoting employment opportunities



#### Critical success factors

REPUBLIC OF SOUTH AFRICA





# Experiences in BRICS

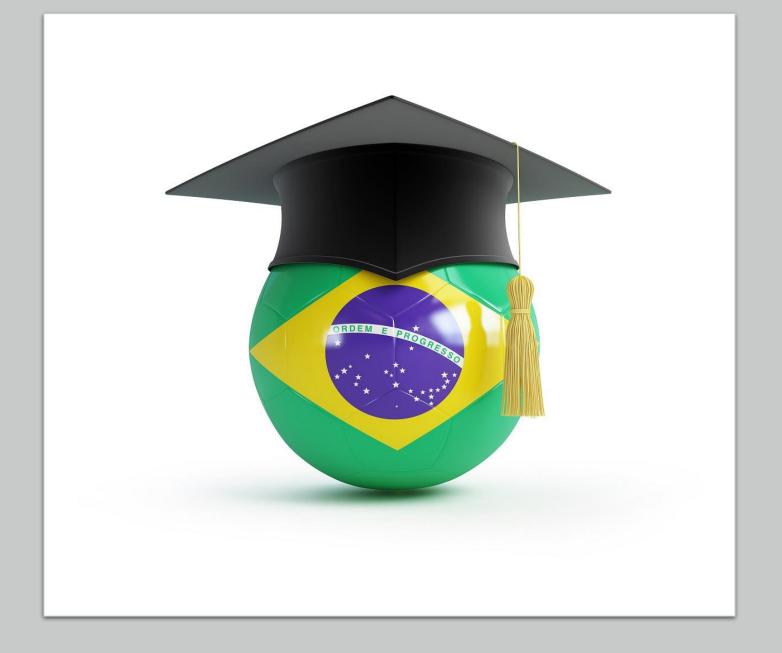




# Online Learning in Brazil

- Country offers free university education up to postgraduate level.
- No national level support for going online
- Politicians denying the seriousness of COVID-19
- 28.3 million COVID-19 cases
- 645k deaths





## Brazil

Feasibility	<ul> <li>Many universities had to cancel online programme after connectivity challenges</li> <li>Some opted for a mix of contact and online learning</li> </ul>
Equity	<ul> <li>Inequality prevalent in universities</li> <li>Choice to reopen was made by politicians</li> </ul>
Quality	<ul> <li>Skills gap in producing asynchronous content.</li> <li>Limited support offered.</li> <li>Some universities are recognized for high quality online programmes.</li> </ul>
Costs	<ul> <li>State not offering additional funding for education programmes. Bolsanaro pushed for drastic cuts in funding.</li> <li>Universities appealed for old laptops and public fundraising to purchase sim cards.</li> <li>Some universities sought out device donations from police with seized equipment</li> </ul>

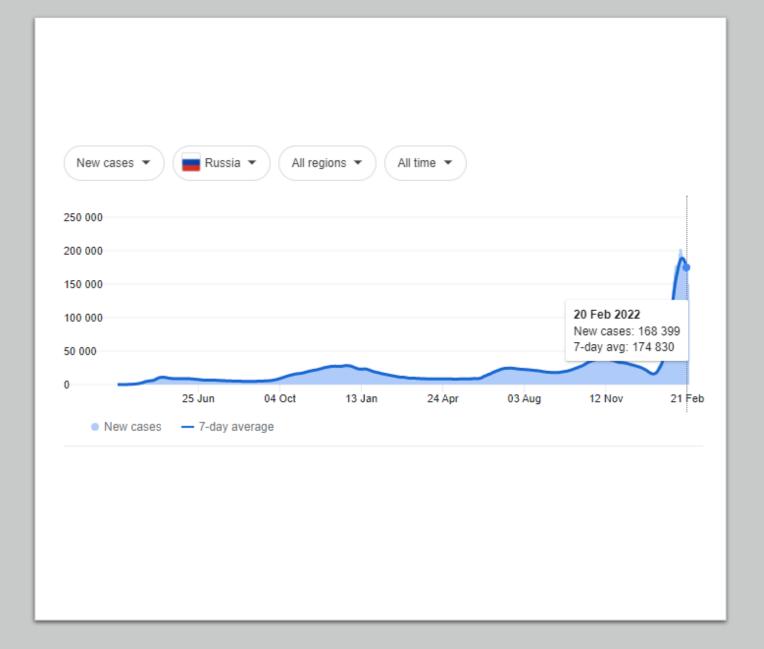




# Online Learning in Russia

- Size of country made it difficult to manage the transition
  - Large number of communication networks
  - High number of universities
- Went online in March 2020 opted for blended learning by Oct 2020
- Focus on high-quality blended learning resources
- 15.3 million COVID-19 cases
- 339k deaths





## Russia

Feasibility	<ul> <li>Comparatively smooth transition to online tech. Had remote learning platforms before COVID.</li> <li>Dorms were provided with additional bandwidth. No device or data supported provided to students.</li> </ul>
Equity	<ul> <li>Most students with similar levels of access and skill</li> <li>Minimal participation in decision making reported</li> </ul>
Quality	<ul> <li>Lecturers comfortable with new tech</li> <li>Provided teaching assistants to engage with students more closely</li> <li>Laboratory work has continued in person.</li> <li>Quality is assessed based on the accumulation of credits, not mode of study.</li> <li>Russian universities rising up the University Rankings – 47 in top global 100 for respective fields</li> <li>Students arguing that there is a drop in quality / Management disagree</li> </ul>
Costs	<ul> <li>Some students are calling for reduction in costs of education due to distance learning.</li> <li>Cost of tuition based on staff salaries and equipment/materials</li> </ul>





# Online Learning in India

- Universities closed in March 2020 and were forced to attempt online learning.
- 39,000 colleges catering to 27.5 million under graduate students
- India has mix of private and public universities
- 42.9 Million Cases/ 1.38 billion people
- 512k Deaths





#### India

#### Feasibility

- 10% of universities don't have any online learning platforms.
- Top 100 Indian universities attempted a online learning transition
- Online learning abandoned in certain universities due to connectivity challenges, now needs to be authorized to restart the programme.
- Several staff per university have died from COVID
- Issues with consistent electricity, cellphone coverage, and available devices
- Partial or full closures remain in many universities

#### Equity

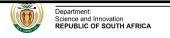
- Unequal distribution of ICT mirroring levels of inequality
- Private universities have fared better, with better resources.
- 35 million students affected by shutdowns
- Poor students have insufficient space for learning at home
- Online examinations have been particularly difficult notable case of a lady committing suicide after a power failure during an exam.

#### Quality

- Low level of preparedness to adopt new tools among students and lecturers
- Students have low levels of interaction with staff and peers
- 85% of students believed the COVID protocols led to learning loss
- Learning backlog may take up to 3 years to address.

#### Costs

• Are calls for the government and private sector to boost investment in higher education





# Online Learning in China

- Rapid transition to online learning
- Govt enforced staff training in 2020 Chinese New Year break, at the start of lockdown
- Since have had a mass rollout of online programmes. Beijing Normal has 3000 online courses.
- 108k reported cases (1.4 billion people)
- 4,636 Deaths





#### China

#### Feasibility Universities rapidly adopted new platforms Universities set up smart classrooms, with recording equipment for livestreams or interactive learning Were able to maintain the academic year with minimal interruptions No delays to the curriculum Equity Students in rural areas supported by businesses – allowed to use buildings to access internet. More uniform levels of equality Decision to adopt online learning followed a national govt directive Foreign students have been unable to return to China Contact learning has resumed in many universities, but online variants remain Quality Chinese students are reportedly highly satisfied with online learning and learning platforms Learning facilitators assist lecturers. A study shows that universities need to acknowledge their role to a greater degree. Focus on developing the autonomy of students and promoting their involvement in class time. Chinese government invested in training for staff and students Costs Substantial private investment in booming EdTech sector – with complementary tutoring programmes that integrate Al





# Online Learning in South Africa

- Contact Learning was halted in March 2020 due to lockdown level 5
- Widespread lack of access
- Better connectivity in dorms
- Online learning a short-term emergency fix
- 3.6 million cases (59 million people)
- 98.8k deaths





## South Africa

Feasibility	<ul> <li>Moved online with issues of access experienced</li> <li>Some universities with international students on scholarship made arrangements to find local accommodation with WIFI. Had better support.</li> </ul>
Equity	<ul> <li>High levels of inequality exacerbated in universities</li> <li>Poor students are excluded, 38% couldn't buy food, 50% reported communication challenges</li> <li>Insufficient participation in decision making – staff and students are resistant</li> <li>Some dependent on physical distribution of materials</li> <li>Some VPN systems are not accessible on all mobile networks</li> </ul>
Quality	<ul> <li>Limited levels of skills. Some universities have dedicated call centres to assist staff and students.</li> <li>Some students found better support from Career Guidance counsellors who became more accessible via email and Zoom.</li> <li>Interaction between student and staff has been limited.</li> <li>Lecturers and tutors had to be available to students during office hours, online</li> <li>Night data bundles required students to take on odd study patterns.</li> <li>Some 'teach' via Whatsapp and FaceBook</li> </ul>
Costs	<ul> <li>Provision of some data and zero-rating university resources</li> <li>Universities had to individually negotiate with mobile service providers.</li> </ul>





#### **Best Practices**

- China introduced mass skills development programmes at pace
  - Managed to coordinate well with the private sector and utilize technology
- Russia introduced supporting teaching assistants at scale
- South Africa introduced comparatively larger data bundle support
- University of Pretoria introduced a Mobile Learning App to support learning when there were electricity cuts – provide offline content
- More accessible Careers Guidance offices in South Africa
- Is a need to promote student/educator engagement in decision making





#### Recommendations

- Need to transition towards a hybrid education model
  - Interactive online learning could address the access challenge
  - Mass investment in digital infrastructure is key (including devices, network coverage, data plans for academic and student body)
  - Promote teaching assistant integration
  - Mass training for lecturers and students is needed before commencement of online programme
  - Prioritize student/educator engagement in decision making processes
  - Promote coordination with the private sector
- BRICS Universities, through the BRICS Network University or BRICS University League to continue to promote knowledge sharing engagements
  - Sharing information related to lesson designs, training strategies and promoting equitable access is crucial
  - Need mechanisms to promote BRICS / Africa knowledge exchanges





# Thank you

Krish Chetty – Research Manager

HSRC - Inclusive Economic Development kchetty@hsrc.ac.za



