

BRICS*plus* Network, BRICS*plus* Universities Network and Joint Education and Research Projects in Human Factors and Ergonomics

July, 2018, Saint Petersburg

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International Ergonomics Association

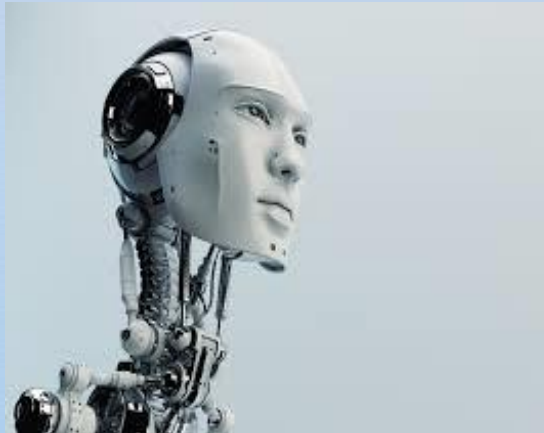


Universidad Federal de Rio de Janeiro

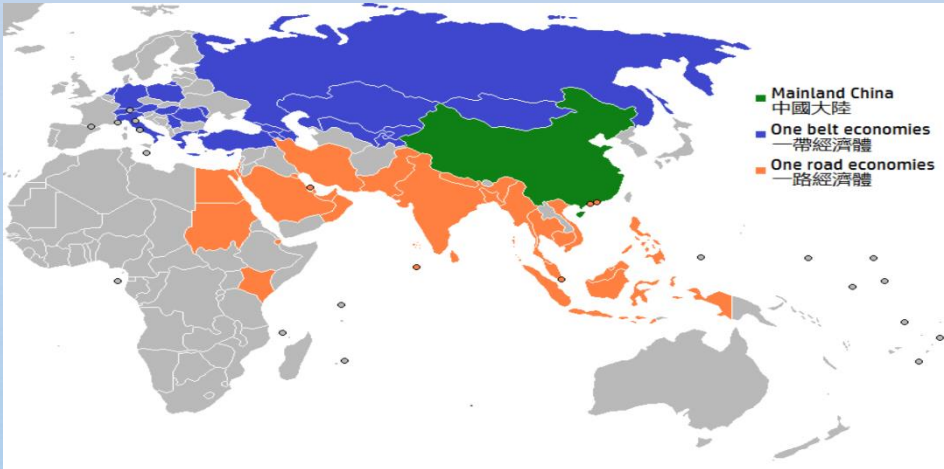
Reality We are Facing -1



Reality We are Facing - 2



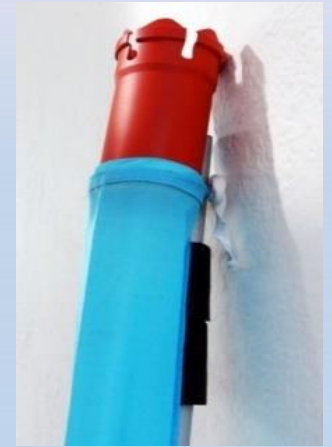
Globalization–Disparity–Informal Economy



Low Cost Solutions



Conventional Drumstick Plucking

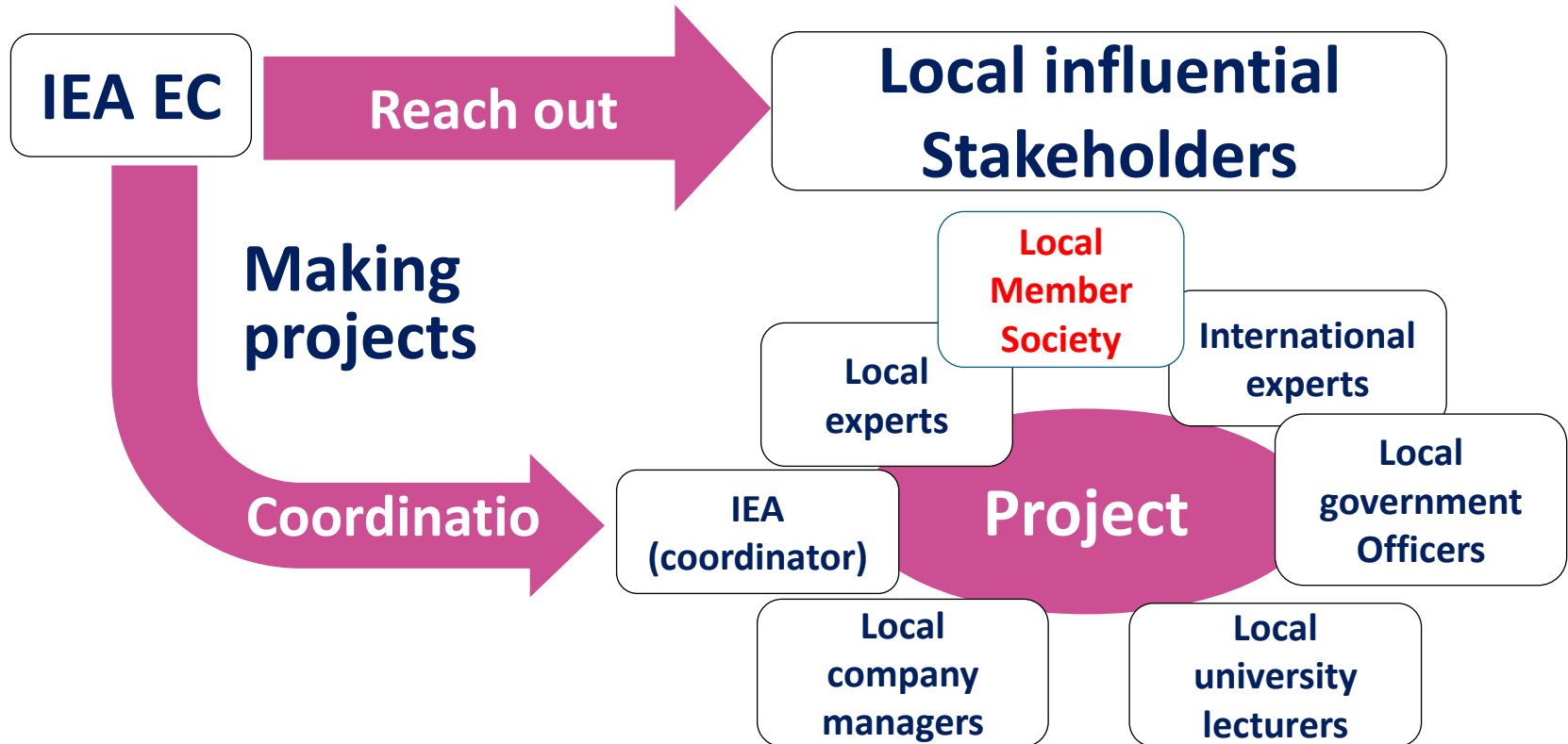


Indian Approach

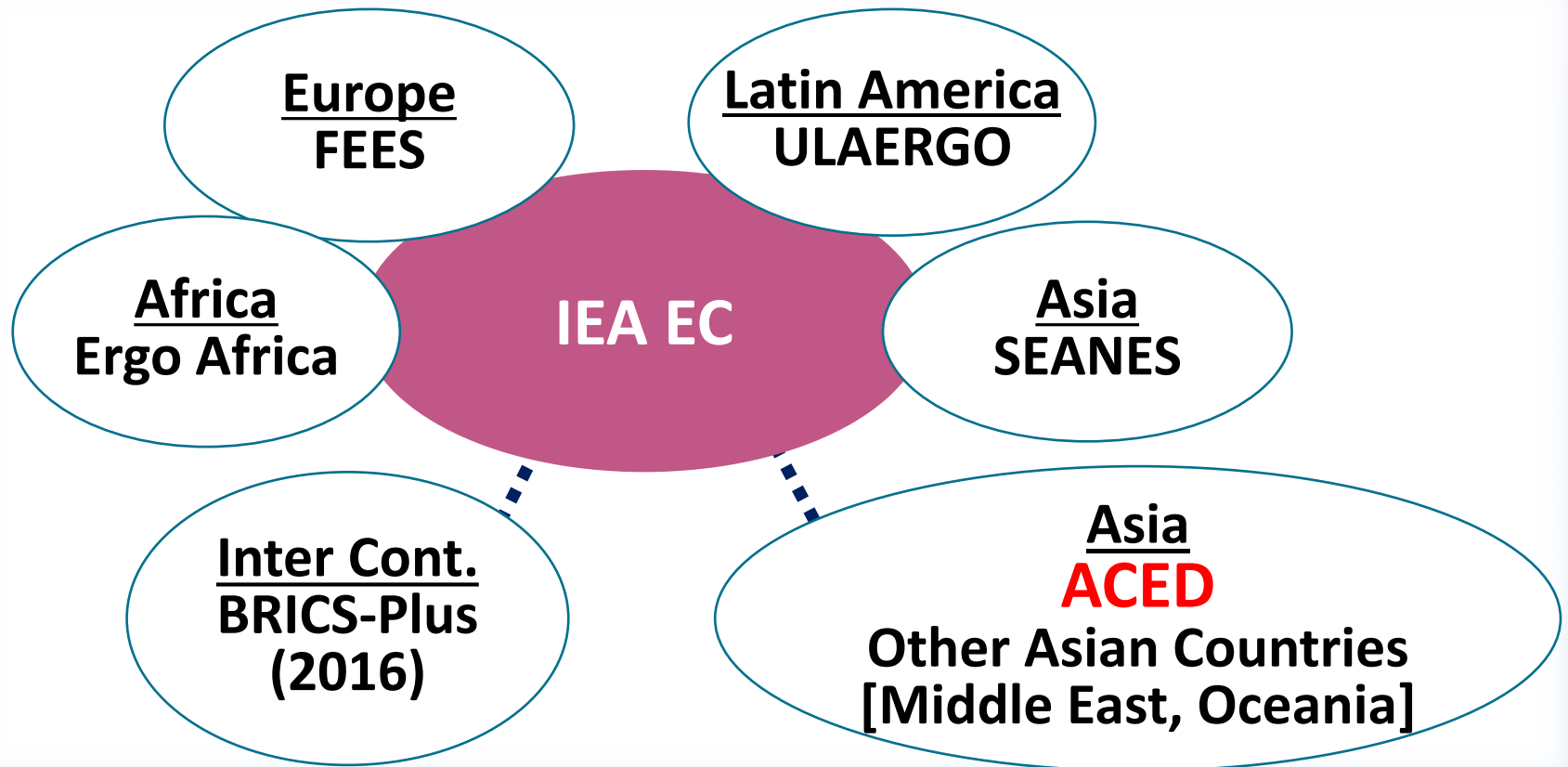


Western Approach

Policy: Stakeholder Engagement

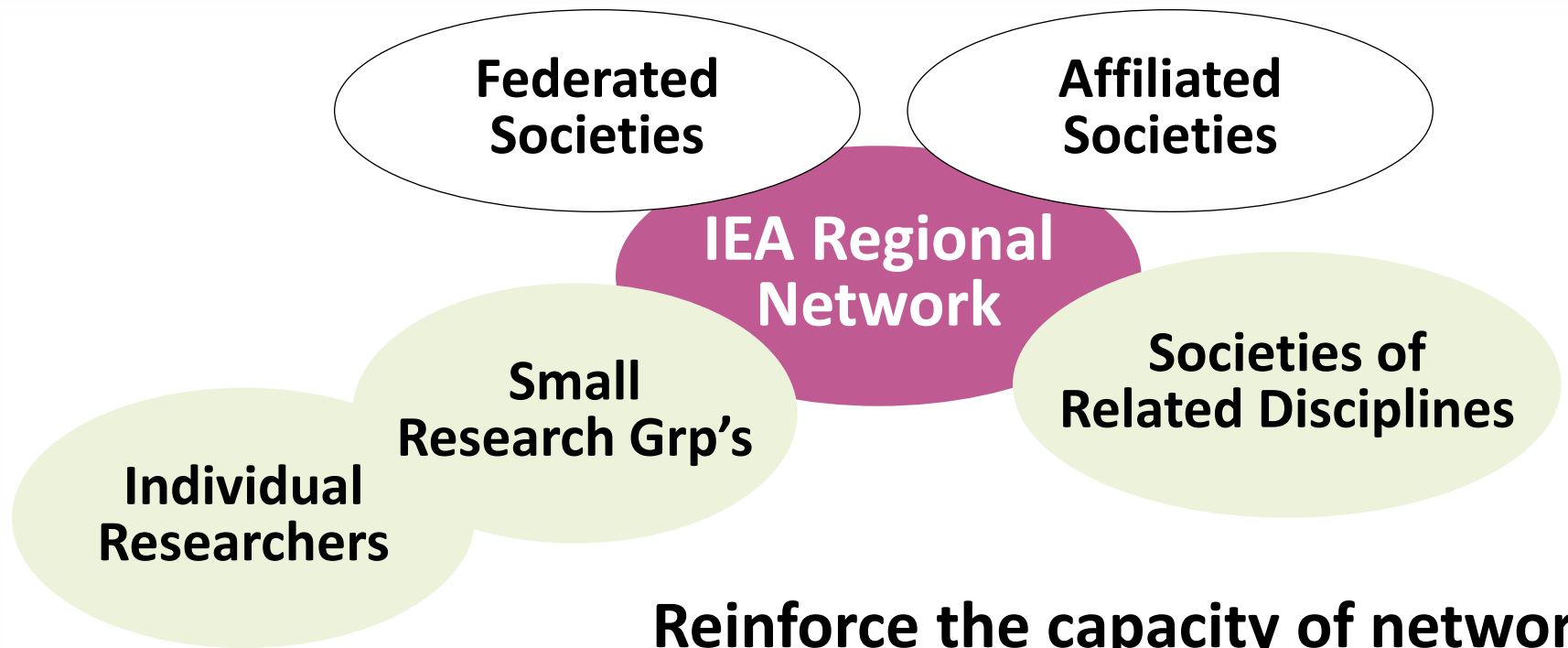


Policy: Work with IEA networks



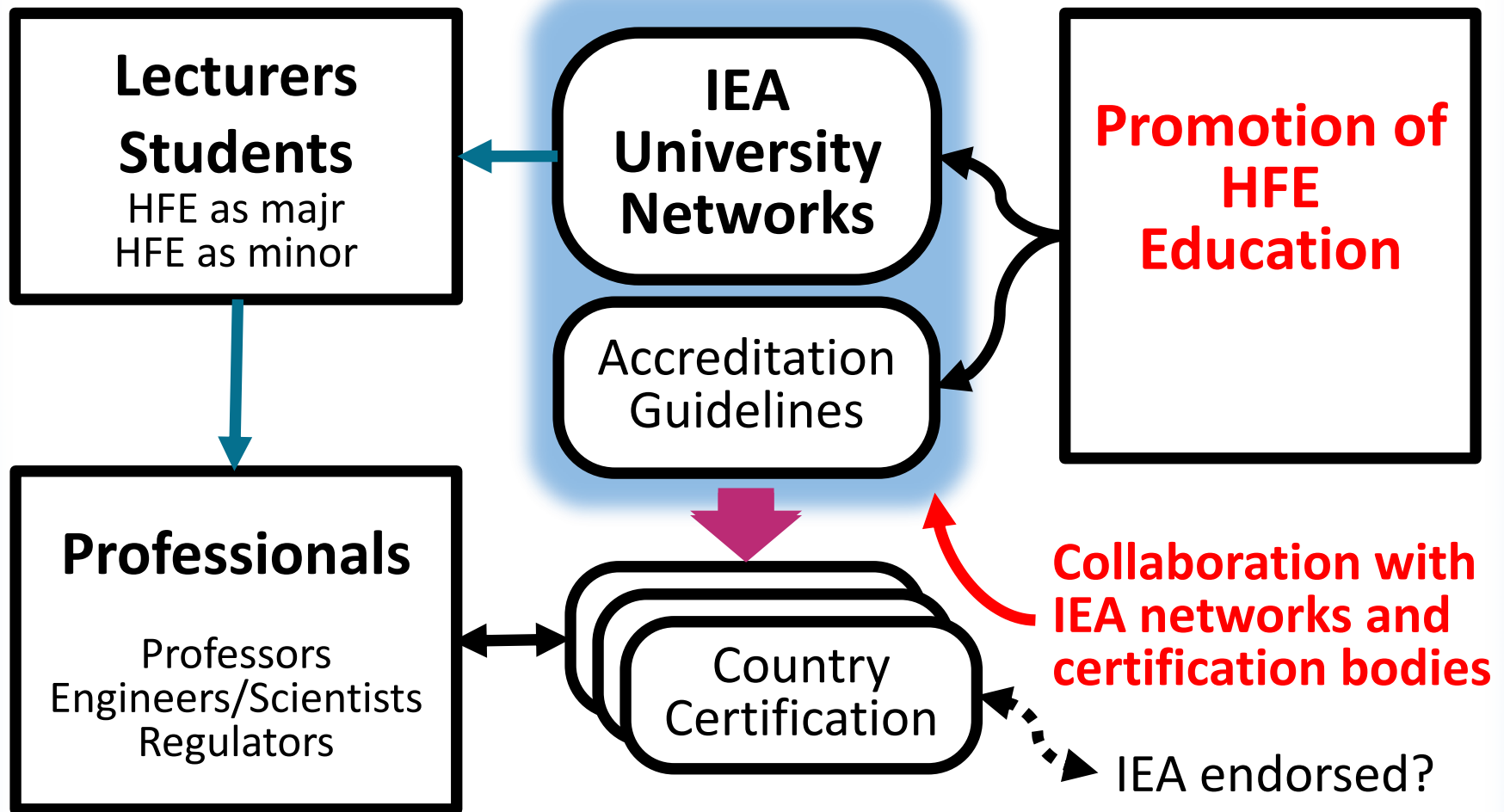
Asian Council on Ergonomics and Design (ACED)

Policy: Reinforce IEA networks



**Reinforce the capacity of network
So far, successful in Latin America [, Asia, and Africa]**

Example from Latin America



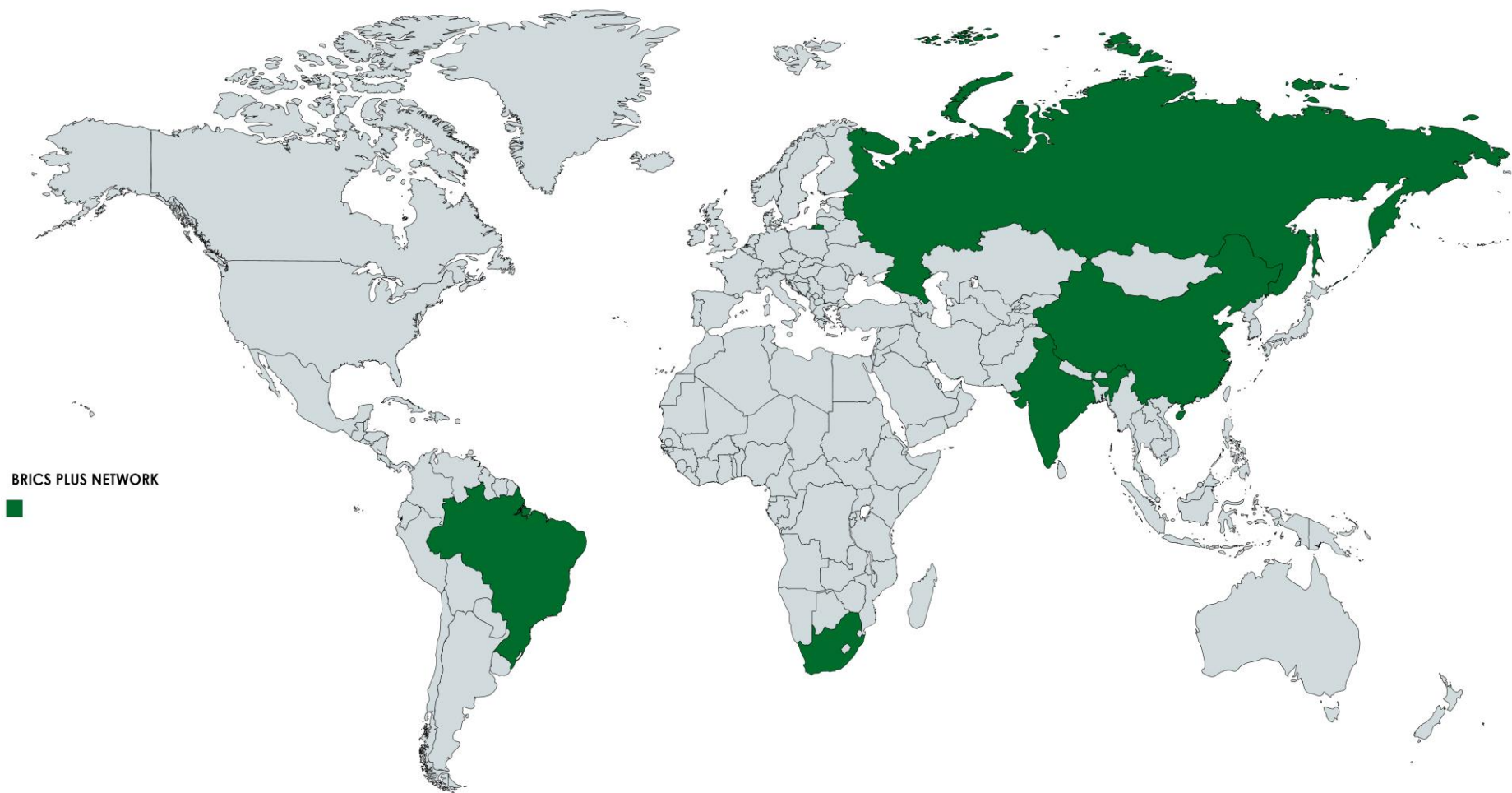
So far, successful in Latin America , Asia, and BRICS.

IEA initiatives: Peru, Panama, Colombia, Costa Rica, ErgoAfrica, BRICS...



NEXT?,...

IEA initiatives: BRICS...(cont.)



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A brief history about BRICS Plus Network on HFE:

- Conversations started 2011,
Grahamstown, South Africa
- Huge population
- Huge inequalities
- Natural resources
- Industrial basis....

BRICS Plus Network on HFE Foundation, Beijing, China, December 2016



Abergo, Brazil

IREA, Russia

ISE, India

CES, China

ESSA, South Africa

BRICS Universities Collaborative Graduate Education Program, Xiamen, China, Sept, 2016

- MOU signed



BRICS Universities Collaborative Graduate Education Program

- 7 Universities (foundation) plus others coming
- Brazil
 - Federal University of Rio de Janeiro
- Russia
 - Saint Petersburg State University
 - Electrotechnical University of Saint Petersburg
 - Moscow State University

BRICS Universities Collaborative Graduate Education Program(cont.)

- India

- India Institute of Technology

- National Institute of Industrial Engineering

- China

- Tsinghua University

- South Africa

- Witwatersrand University

- Rhodes University



1st. Meeting BRICS Plus Network on HFE, Porto Alegre, Brazil, September 2016

- By-laws drafted



Goals so far:

- Evaluating the actual education programs in ergonomics, determining the needs and demands in each country.
- The development of a BRICS summer school, starting from 2018 in Brazil and Russia.
- The development of joint research projects with sharing across laboratories.

Goals so far:

- The creation of a joint textbook on activity analysis for postgraduate students in BRICS countries by academics from all five BRICS countries and published simultaneously in English, Portuguese, Mandarin and Russian.
- The development of a basic module “The basic principles of Human Factors and Ergonomics” for use in all five countries, to be given in English by academics from all countries.
- On line training program (Master)

BRICS Plus Network on HFE affiliation to IEA
next Council Meeting, Florence, Italy, August
2018.

BRICS Plus Network on HFE Symposium,
Florence, Italy, next August.

Thank you very much!

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