

PASET Partnership for Skills in Applied Sciences, Engineering & Technology

Prof. Aminata Sall Diallo and Dr. Sajitha Bashir 3 December 2019 | ACCRA | GHANA

Financing Sustainable Innovation in Africa: The PASET Regional Scholarship and Innovation Fund

The Problem of Innovation in Africa : Limited Demand and Inadequate Supply

Limited Demand from Productive Sector : Even when new solutions, new technologies are locally available

- Local markets not rewarding innovation investments
- Foreign firms tend to have limited connections to domestic suppliers
- Few medium and large firms that can spread new technologies
- Most enterprises are small and in the informal sector, with entrepreneurs who have low levels of education constrains technology diffusion
- Weak skills base of workers makes technology adoption difficult

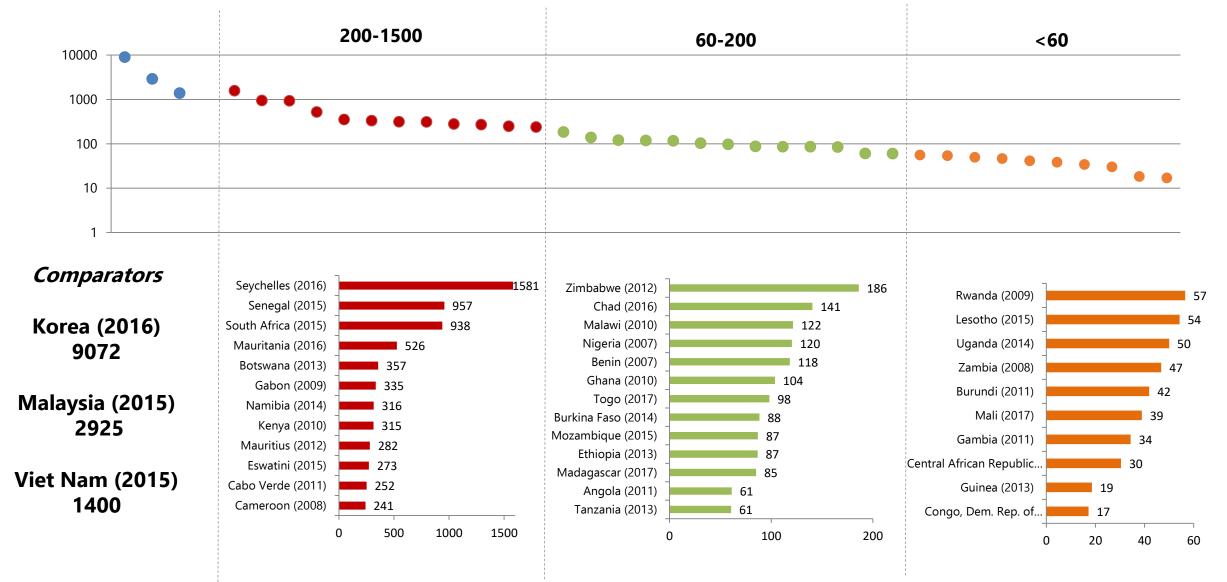
Inadequate Supply of High Quality Applied Researchers: Most are not able or willing to work with enterprises

- University research is not related to problems of enterprises or African problems
- Lack of critical mass of researchers in most countries, especially in science and technology fields





Only 3 SSA countries have close to 1000 researchers per million inhabitants (Senegal, Seychelles, South Africa) – Vietnam has 1400



Since 2005, Africa has tried to create a regional fund without success; PASET has designed and operationalized it

- Consolidated Plan of Action (2005), various AU Summits Moving from concept to operationalization did not occur
- In 2013, African governments and World Bank created the Partnership for skills in Applied Sciences, Engineering and Technology (PASET)
- PASET operationalized a pan-African science fund for the first time
 - Setting objectives and principles of operation
 - Seed financing from African governments
 - Professional implementation by a regional organization
 - Governance transparent and efficient
 - Resource mobilization strategy





PASET Regional Scholarship Innovation Fund : Operationalized 2017, Rapid Growth in Few Years

Launched in 2015 by HE President Macky Sall of Senegal along with representatives of the heads of states of Ethiopia and Rwanda Today :

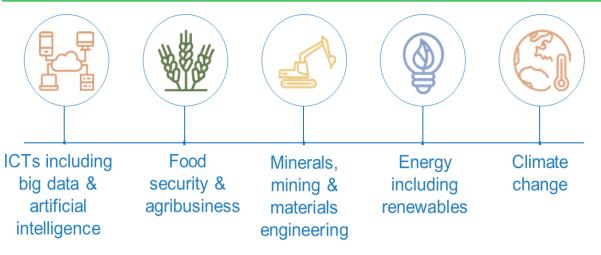
 US\$ 36 million raised from 6 SSA governments, Government of Korea and World Bank.

- Commitments made by 5 additional SSA governments.
- Mobilization of funds from others

RSIF is a unique financing modality with efficient governance

Pan-African science fund which :

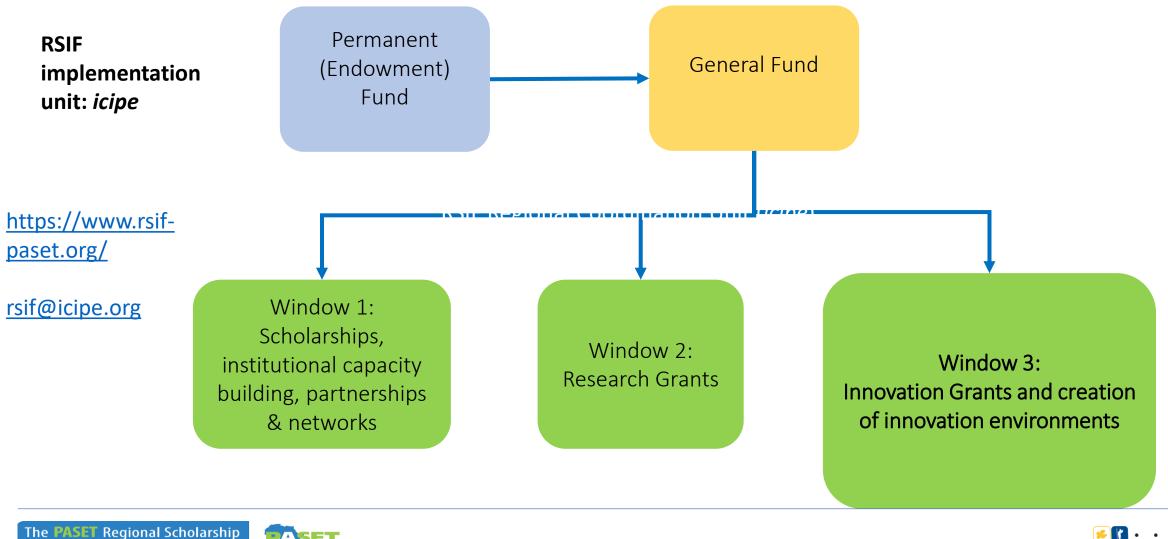
- Pools funds from African governments, donors, private sector and individuals
- Allows targeting of funding to specific sectors and areas
- Provides implementation support by professional regional scientific body, *icipe*
- Has rigorous and transparent oversight with Governance Structure that includes all contributors (see Annex)



RSIF Objectives:

- 1. Create a stock of highly skilled scientists, professionals and innovators in applied sciences, engineering and technology (ASET) areas.
- 2. Identify and **nurture young talented Africans** to further their studies in ASET fields where expertise needed most
- 3. Address imbalances in the number of women and disadvantaged groups in ASET fields in Africa
- 4. Build African university capacity to provide relevant ASET training and to ensure continued investment in scaling up ASET education and workforce

RSIF Design: 3 Windows; Endowment and General Fund



An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology

and Innovation Fund

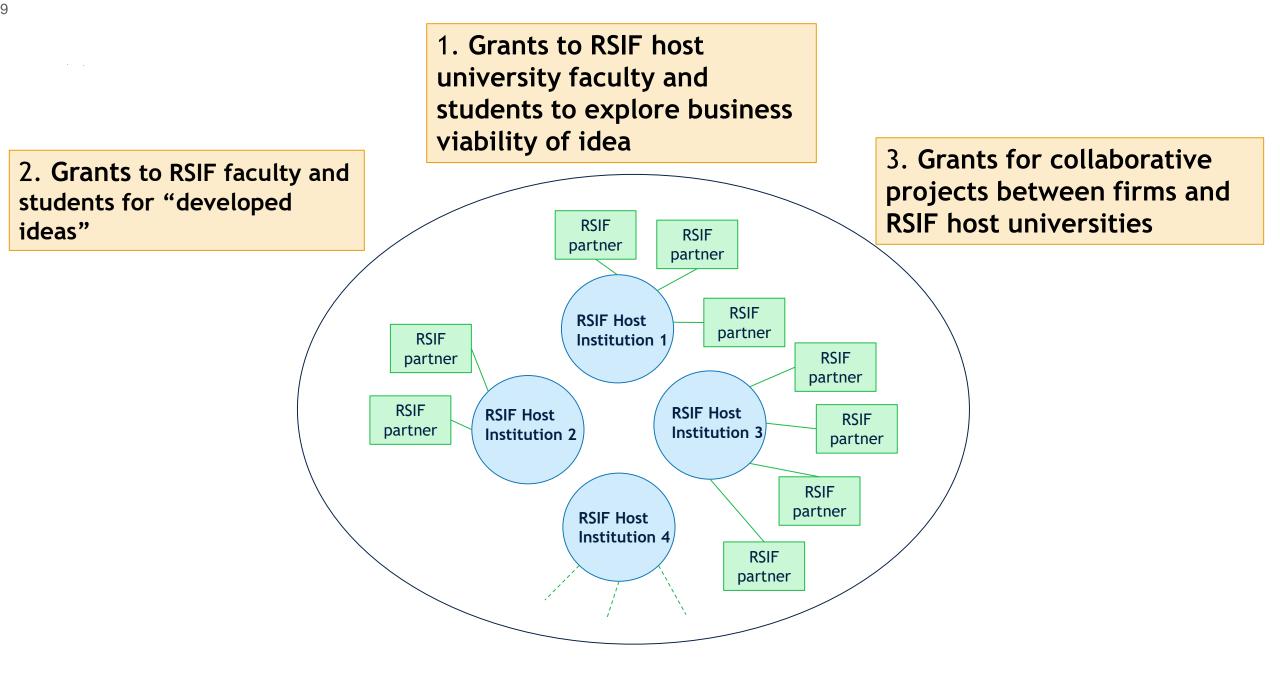


How does RSIF Innovation Window work?

- Highly competitive process of selecting African universities, partnered with international universities
- Eligibility:
 - RSIF host university faculty and students , as well as firms who wish to work with them
- Competitive grants for commercialization and young innovators (faculty + students)
 - Pre-commercial activity explore a technology or business model to see if it can be viable
 - Ideas which are more developed but for which it is difficult to raise private capital
- Competitive grants for firms to partner with RSIF host universities
 - Address a problem faced by the firm; co-financing by firm







African governments are taking lead in RSIF, and private sector should join - Build the Science Endowment Fund for Africa

- Contributors can leverage a regional architecture
 - Return on investment is clear with transparent, highly competitive selection process and regular reporting
- Flexibility in funding
 - One or all windows
 - Particular thematic domains or research areas (eg private sector)
 - Small amounts or large amounts
 - Particular beneficiaries (eg women)
- Participate in governance and shaping of program
- Get high visibility in region





An Africa-led initiative to bridge the skills gap in Applied Sciences, Engineering, & Technology

Prof. Animata Jan Diano Executive Director, PASET Executive Board

Dr. Sajitha Bashir,

Adviser, Science Technology and Innovation; Office of the Global Director, Education Practice, World Bank.

For information on RSIF:

rsif@icipe.org

https://www.worldbank.org/en/programs/paset

RSIF Governance Model

