Modalities
for the Development of the ASRIC Flagship projects

1st/BU/ASRIC/4a

Development of the ASRIC Flagship projects

Intra Africa Call for projects
(Using the book of light house project modalities)

Development of Projects
(ASRIC Scientific and Innovation committee)

ASRIC Flagship projects' priority areas

ASRIC Flagship projects' priority areas

Development of the ASRIC Flagship projects

- Eradication hunger and ensure food and nutrition security;
- Prevention and control diseases and well-being;
- Communication (physical and intellectual mobility);
- Protecting our space (including climate change);
- Creating Wealth (entrepreneurship and market driven research); and
- Cross cutting research.
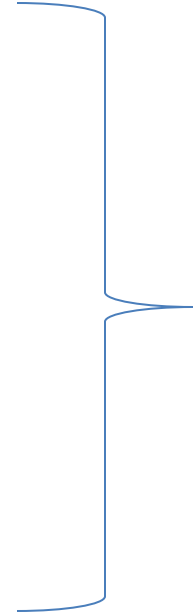
STISA_2024 priority areas

ASRIC Flagship projects' priority areas

Development of the ASRIC Flagship projects

Eradication hunger and ensure food and nutrition security

- Improve food production.(indigenous tech)
- Developing and preserving plant varieties, seed varieties and availability.
- Improve soil quality, soil preservation and soil protection.
- Minimize post-harvest loss and to improve food preservation.
- Improve and enhance nutrient fortification and food nutrition (food quality)
- Research to improve Livestock productivity.
- Impact of pesticides (quality, practices) on soils, environment, quality of food and health.
- Nexus and the interlinkages between food, energy, water and climate to address the SDGs.
- Tailored Agro-climate information services to reduce the vulnerability of farmers and the agricultural sector to climate changes and also, for informed efficient decision making process.

ASRIC Flagship projects' priority areas

Prevention and control diseases and well-being

Development of the ASRIC Flagship projects

- Improve water sanitation and preservation (encourage adapting the best available technology to the African context).
- Application of telemedicine (eHealth) in medical diagnosis.
- Methods to combat common diseases (and other "neglected" diseases) like malaria, asthma, typhoid…
- Integrating traditional medicine with orthodox or modern medicine.
- Enhancing traditional medicine methods (quality, metrics, efficiency, toxicity…)
- Improving access to affordable or generic drugs
- Mechanisms to control proliferation of counterfeit drugs.
- Improve health literacy and education

ASRIC Flagship projects' priority areas

Communication (physical and intellectual mobility)

- Reducing costs of land miles.
- Methods of allocating sufficient/efficient ICT resources.
- Methodologies of improving linkages across borders seaports and airports.
- Application and use of emerging technologies (Digitalization, artificial intelligence, bigdata…) to improve access to data and information.

Development of the ASRIC Flagship projects

ASRIC Flagship projects' priority areas

protecting our space (including climate change)

Development of the ASRIC Flagship projects

- Improving water treatment and water recycling.
- Improve waste management and waste recycling (plastic waste, electronic waste, etc).
- Combating climate and environmental related diseases (ecological diseases).
- Reduce migration due to adverse environmental change.
- Improve the earth observation systems, to assess natural and environmental risks and disasters and to develop early warning systems

ASRIC Flagship projects' priority areas

Creating Wealth (wealth Creation)

Development of the ASRIC Flagship projects

- Improving mining resource preservation and value addition of mining technology (beneficiation) in line with the African Mining Vision
- Water resource management and allocation.
- Water/rainfall harvest and artificial recharge in a context where rainfall is going to increase in the future in several areas.
- Sustainable renewable energy systems (solar, hydro, bio, wind…)
- Create jobs for youth (avoid migration and keeping/preserving skills) and women
- Methods to envelop skills acquisition tools for employability

ASRIC Flagship projects' priority areas

Cross cutting research actions

- Fundamental science to underpin the applied and innovative research methodologies in all priority areas listed above.
- Implement Data Center to address big-data issue and computational high performance infrastructure (HPC)
- Support AUNS and e-Network in all regions (Ubuntu, WACREN etc.., AFRICACONNECT) and at national levels (NREN)
- Promoting Open Data and Open science
- Innovative research methods that lead to leapfrog development pathway
- Support the development of large research infrastructure and excellence specialized centers that can welcome scientists of Africa and from the diaspora to perform research addressing the African priorities.
- Support initiatives of Pan African University on eLearning for mass education

Development of the ASRIC Flagship projects

Is there an agreement on the priority areas/ or it need to be developed further

Criteria for ASRIC flagship project

What is the Criteria for a project to be considered as ASRIC flagship project ?

Intra Africa Call for projects
(Using the book of light house project modalities)

Development of Projects
(ASRIC Scientific and Innovation committee)

Modalities

Concept

Reality

?
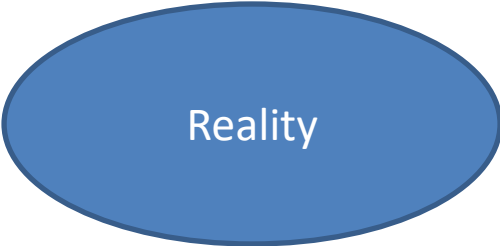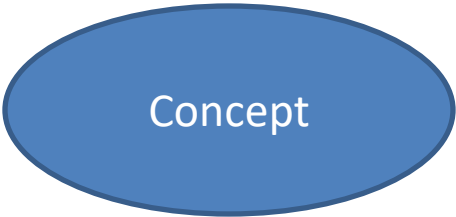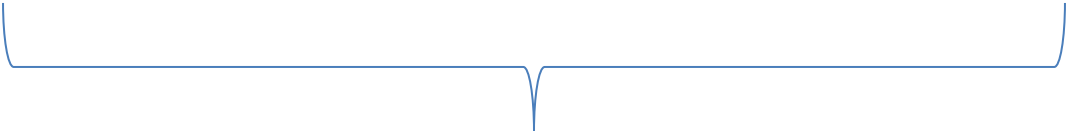
Discussion on Modalities for development of ASRIC Flagship projects

The Bureau agreed to use both channels:

- Intra-Africa call for projects

  And

- Projects developed by the Scientific and Innovation Committee of ASRIC

Recommendations

1. The Bureau endorsed the priority areas identified in the presentation.
2. The Bureau developed and endorsed the following criteria for ASRIC flagship projects: (list the criteria)
3. The Bureau identified the following modalities to develop the flagship projects.
   a. Development of flagship projects by ASRIC Scientific and Innovation Committee
   b. A call to be sent out addressing the gaps in the above-mentioned areas in "a".
4. The Bureau requests the Scientific and Innovation Committee to develop a comprehensive Concept Note on the modalities for the development of ASRIC flagship projects.

Discussion on Modalities for development of ASRIC Flagship projects

- Flagship project:

1. A project that addresses any of the priority areas of STISA 2024 (as articulated in the 1st Congress of ASRIC) and has commonalities in majority of the countries.

2. It has impact on the country, region and continent.

3. Has its inclusivity for everybody in the continent.

4. Should be proposed or adopted by more than 3 research institutions.

5. To address community needs or market demands

6. It brings immediate and long-term sustainable solutions to issues of urgent attention.

7. Any other criteria to be proposed by the Scientific and Innovation Committee of ASRIC and adopted by the Bureau.

WAY Forward ?

Thank You

African Scientific Research and innovation Council