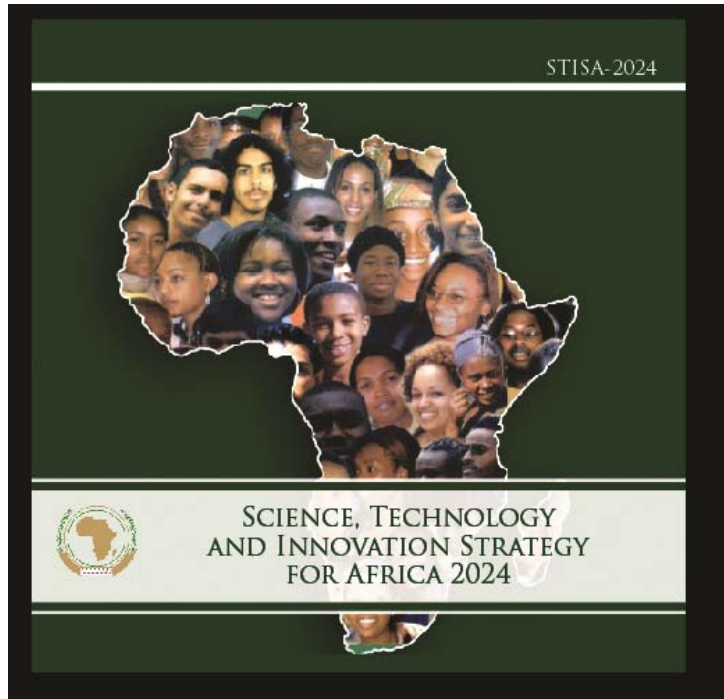




STISA- 2024



**Science, Technology & Innovation
Strategy for Africa 2024**
CN+ Stakeholder Forum, 24 -25 Nov Uganda

H. Masheleni
Department of HRST
AU Commission



“We shall accumulate machinery and establish steel works, iron foundries and factories; we shall link the various states of our Continent with communications; we shall astound the world with our hydroelectric power; we shall drain marshes and swamps, clear infested areas, feed the undernourished, and rid our people of parasites and disease.

It is within the possibility of science and technology to make even the Sahara bloom into a vast field with verdant vegetation for agricultural and industrial developments”.

**President Kwame Nkrumah,
first speech at the foundation summit of
the Organization of African Unity,
Addis Ababa, 24 May 1963**

The road...So far

- **1963 –Kwame Nkrumah’s Message**
 - Expression of a dream and Ambition
- **1980 –Lagos Plan of Action**
 - Expression of the awareness of the Key role of STI
 - Allocate 1% GDP for STI
- **1987 – 1st Congress of Scientists in Africa**
 - Creation of the PUST(Headquarter - Brazzaville)
 - 30 June declared each year as the STI Renaissance day in Africa
- **2005 – Consolidated Plan of Action**
 - Joint Implementation of two approaches : AUC and NEPAD
- **2014 – STISA-2024**
 - Expression of Agenda 2063 and a new determination of the African Union

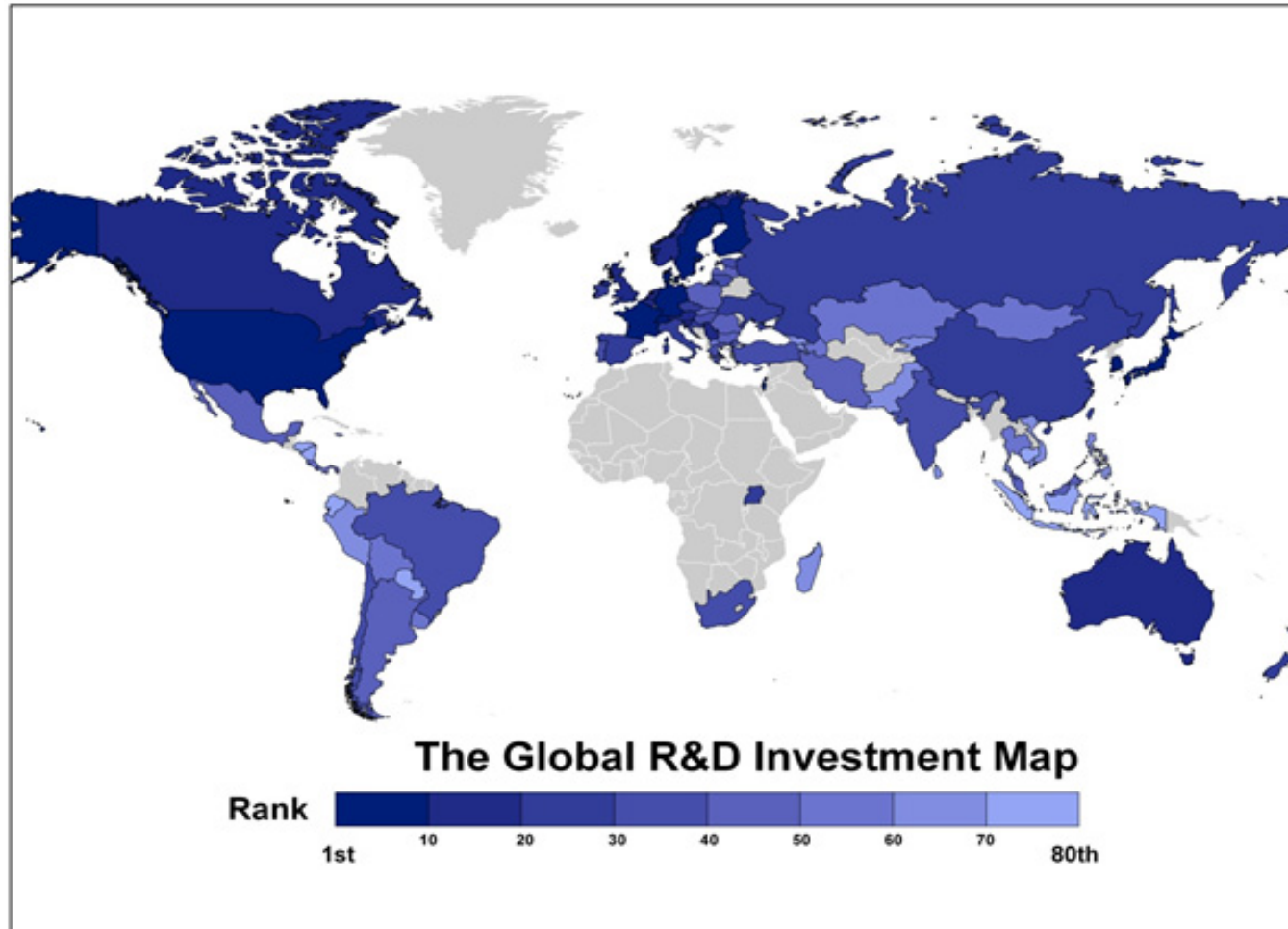
African Innovation Hubs



Technology Hubs	73
Business Incubators	63
University Tech labs	13
Hacker Space	18

Digital mapping of African Tech Hubs, Innovation Hubs & Hackerspaces by *BongoHive*

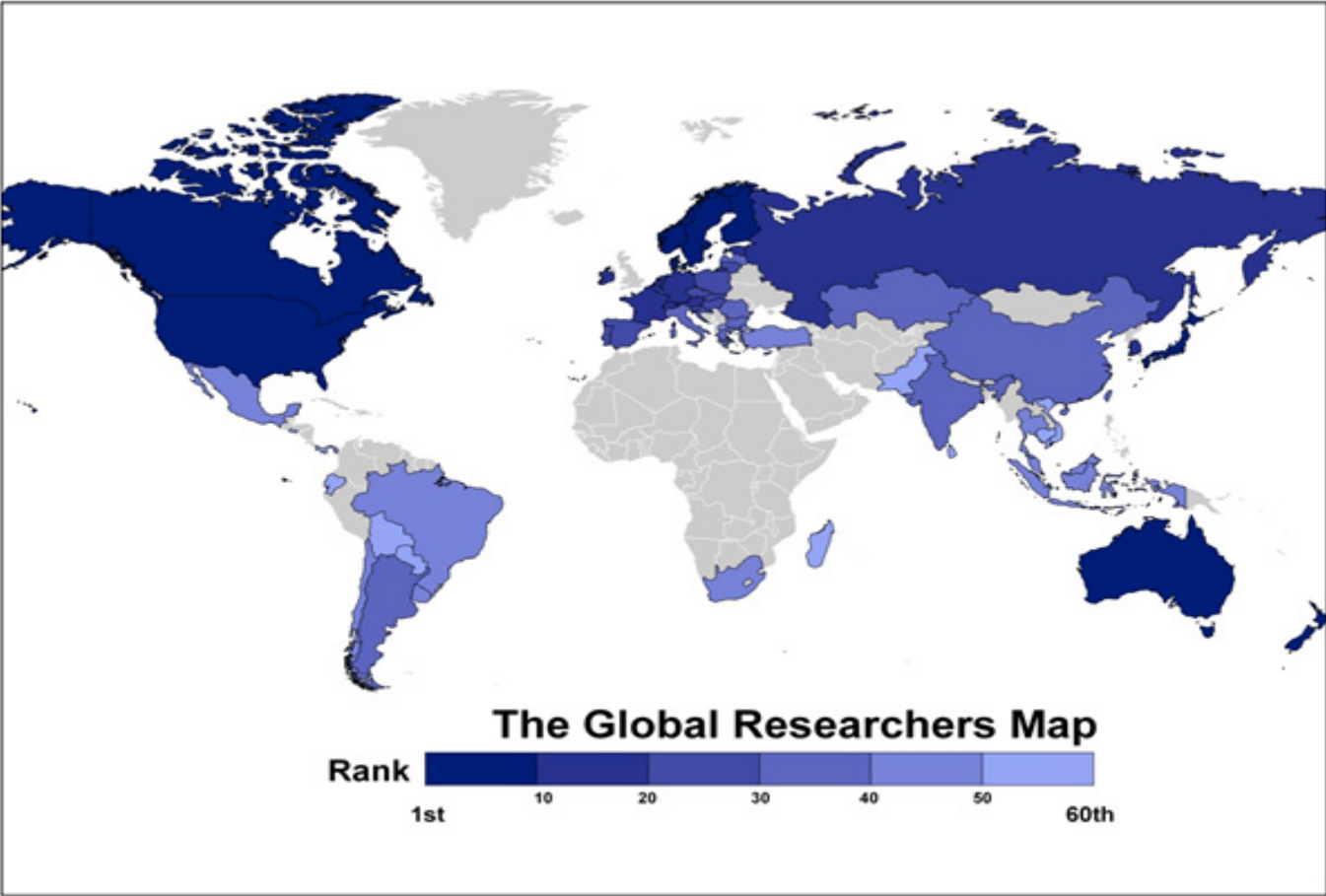
Budget allocation to Research and Development



The map indicates the percentage of the budget allocated to R&D on total investments.

Africa is the region with the lowest investment on R&D

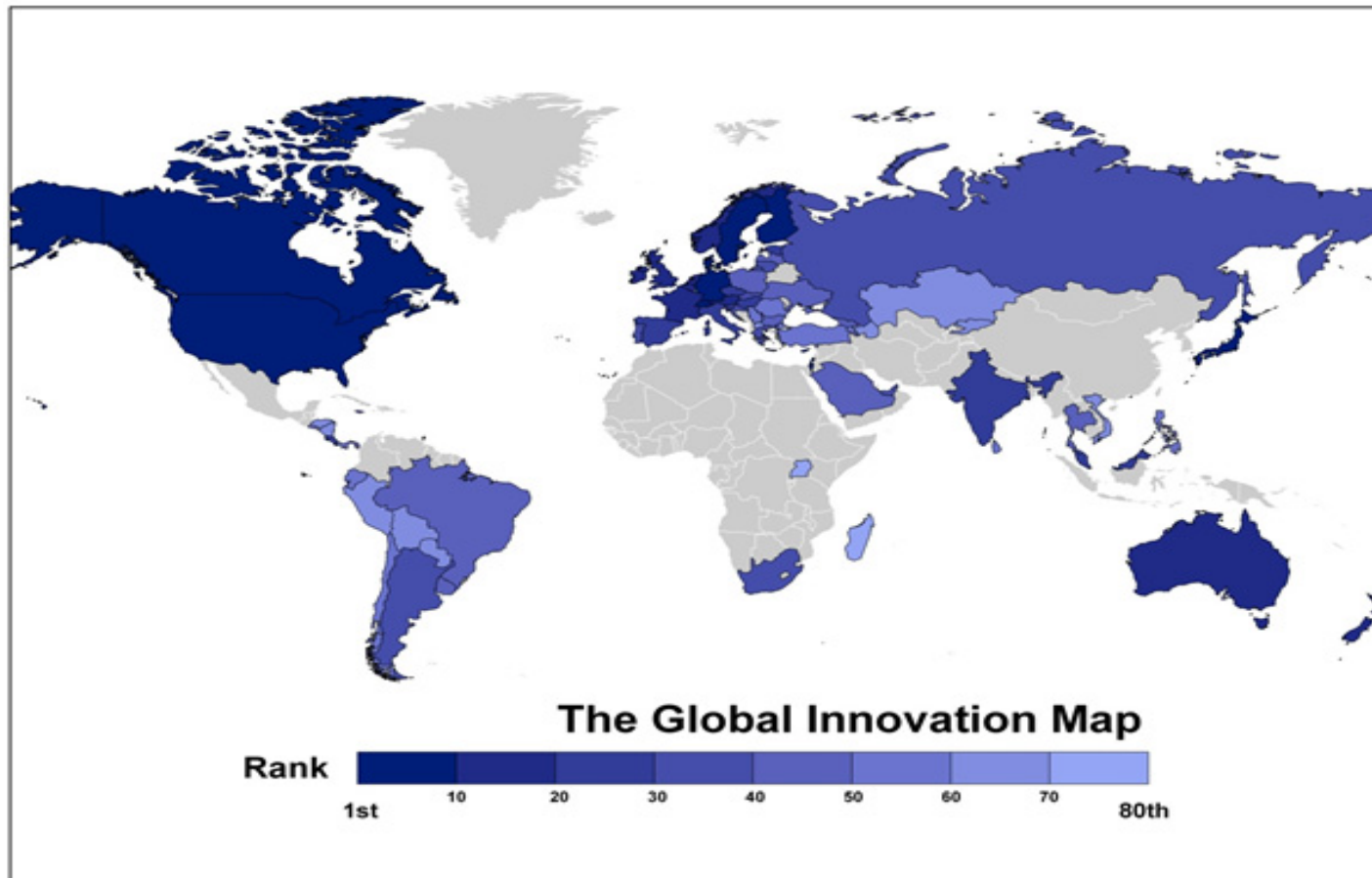
Researchers distribution around the world



The map charts Scientific and Engineering researchers per capita. Once more, Africa is the region with the lowest number of Researchers per capita

Innovation map around the world

This map plots Innovation measured as patents per capita



The USA is on top of the list followed by Japan, Switzerland, Finland and Israel. Sweden, Germany, Canada, Denmark and Hong Kong round up the top ten. There were no statistics for China. Africa accounts for next to nothing

Classification of the world's leading universities



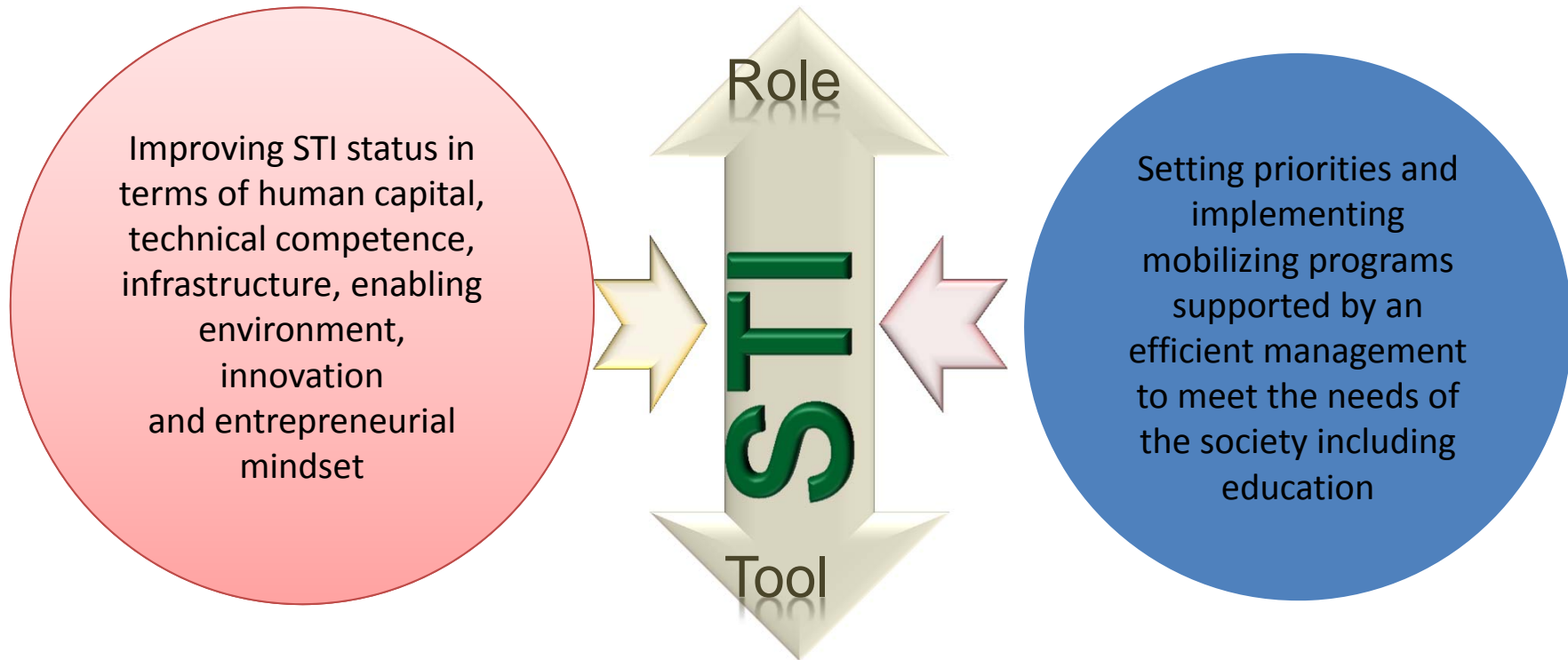
The map charts the top 100 universities in the world.

No Africa university features among them.

It is common knowledge that research is a critical factor in the classification

VISION of African Union

“An integrated, prosperous and peaceful Africa driven and managed by its own citizens and representing a dynamic force in the international arena”

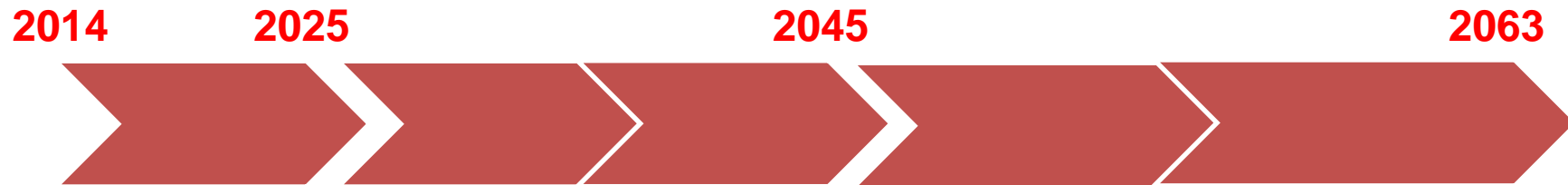


MISSION of STISA-2024

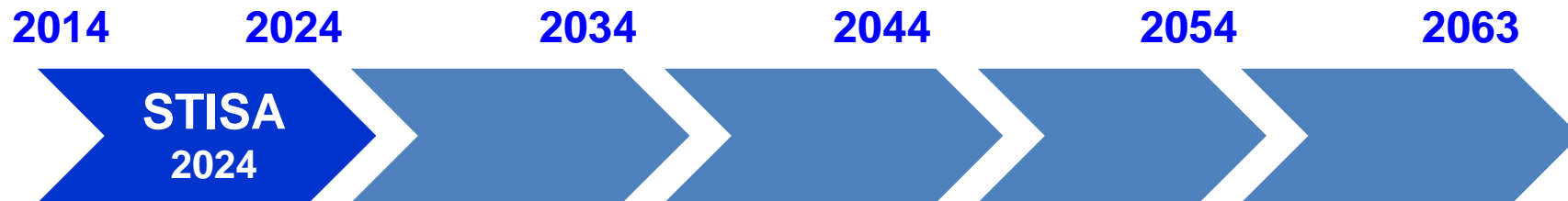
To Accelerate Africa's Transition to an Innovation-led, Knowledge-based Economy

Timing of the strategy

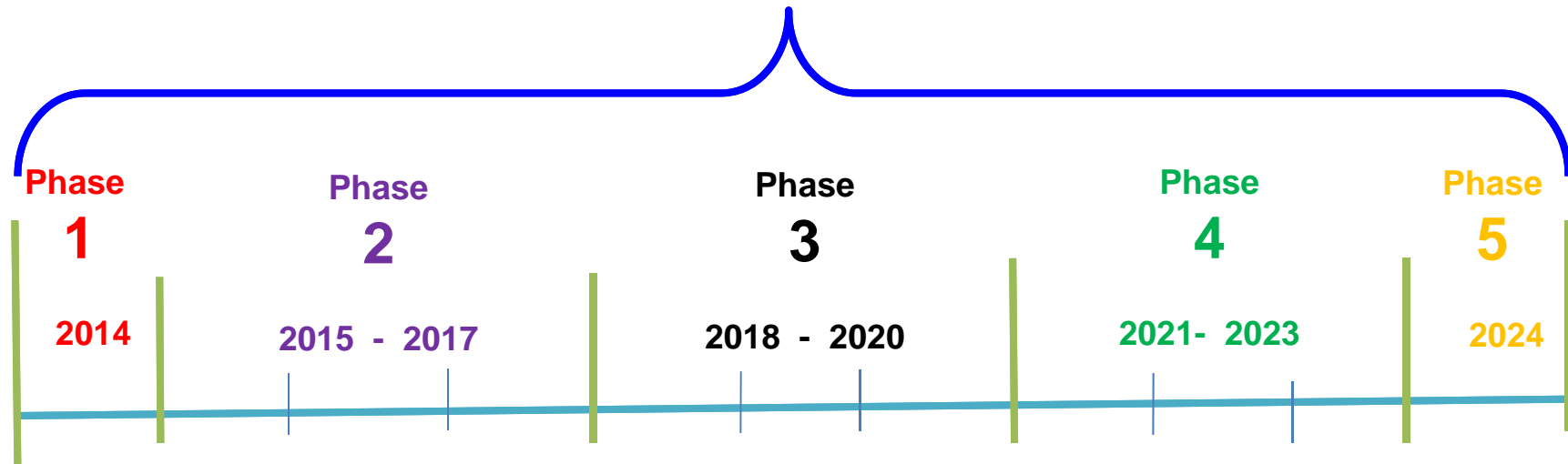
Agenda - 2063 of the African Union



STISA - 2024



Detailed Timing of STISA-2024



1- 2014 : Strategy kickoff and institutional setting

2- 2015-2017 : Implementation of first series of mobilizing programmes

3- 2018-2020 : Implementation of second series of mobilizing programmes

4- 2021-2023 : Implementation of third series of mobilizing programmes

5- 2024 : Final evaluation of STISA-2024 and definition of the next 10-year strategy

Priorities

Eradicate Hunger and ensure food and nutrition security

Agriculture/ Agronomy in terms of cultivation technique, seeds, soil and climate

Industrial chain in terms of conservation and/or transformation and distribution infrastructure and techniques

Prevent and Control of Diseases & ensure well being

Better understanding of endemic diseases - HIV/AIDS, Malaria Hemoglobinopathie

Maternal and Child Health

Traditional Medicine

Communication (Physical & Intellectual Mobility)

Physical communication in terms of land, air, river and maritime routes equipment and infrastructure and energy

Promoting local material

Intellectual communications in terms of ICT

Protect our space

Environmental Protection including climate change studies

Biodiversity and Atmospheric Physics

Spatial, maritime and sub-maritime exploration

Knowledge of the water cycle and river systems as well as river basin management

Live together - build the Community

Citizenship, History and Shared values

Pan Africanism and Regional integration

Governance and Democracy, City Management, Mobility

Urban Hydrology and Hydraulics

Create Wealth

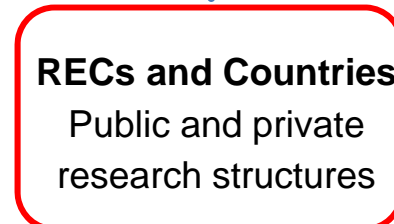
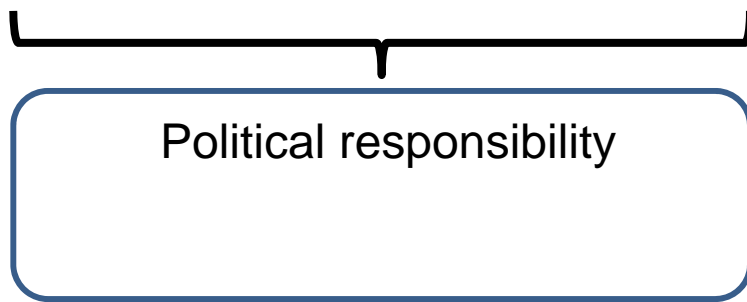
Education and Human Resource Development

Exploitation and management of mineral resources, forests, aquatics, marines etc

Management of water resources

DEVELOPMENT OF RESEARCH PROGRAMMES

P R I O R I T I E S		Key Domain per priority	
1	Eradicate Hunger and Ensure Food Security		WATER Availability
2	Prevent and Control Diseases and ensure wellbeing		WATER Quality
3	Communication		WATER River regimes
4	Protect our space	Space	WATER Water cycle
5	Live together – build the community		WATER Availability
6	Create Wealth		WATER Water resources



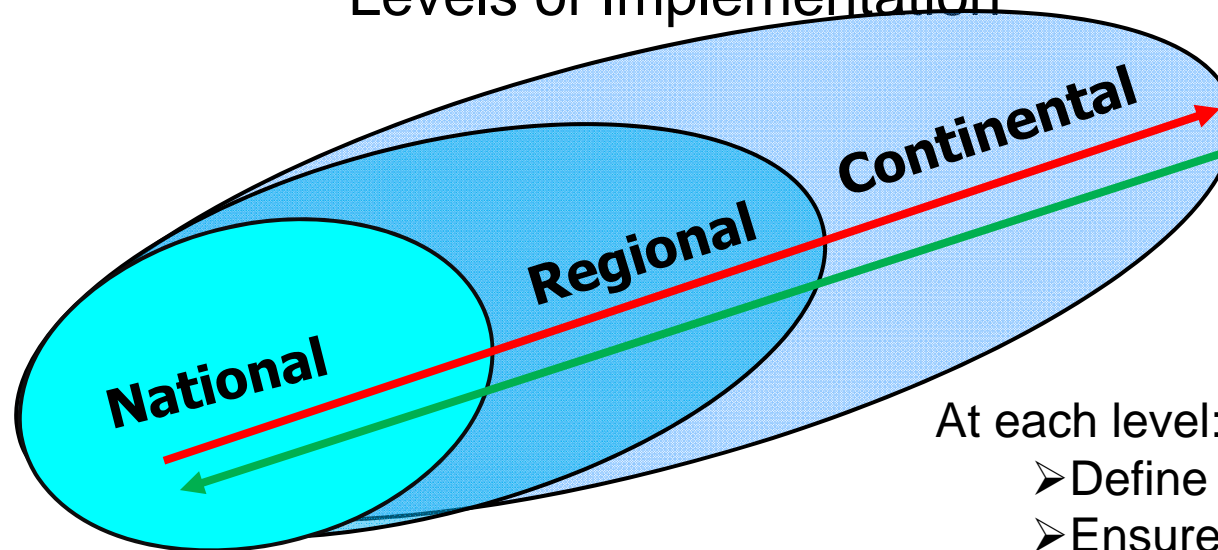


Prerequisite actions

- Up-grade of African STI infrastructure
- Enhance technical and professional competencies
- Stimulate Collaborative Innovation and Entrepreneurship
- Provide Enabling environment for STI
- Build a science culture
- Strengthen IP and regulatory systems

Implementation of the Strategy

Levels of Implementation



At each level:

- Define the Programs
- Ensure Funding
- Implement (R&D)
- Communicate
- Evaluate the Programs

Institutional arrangements

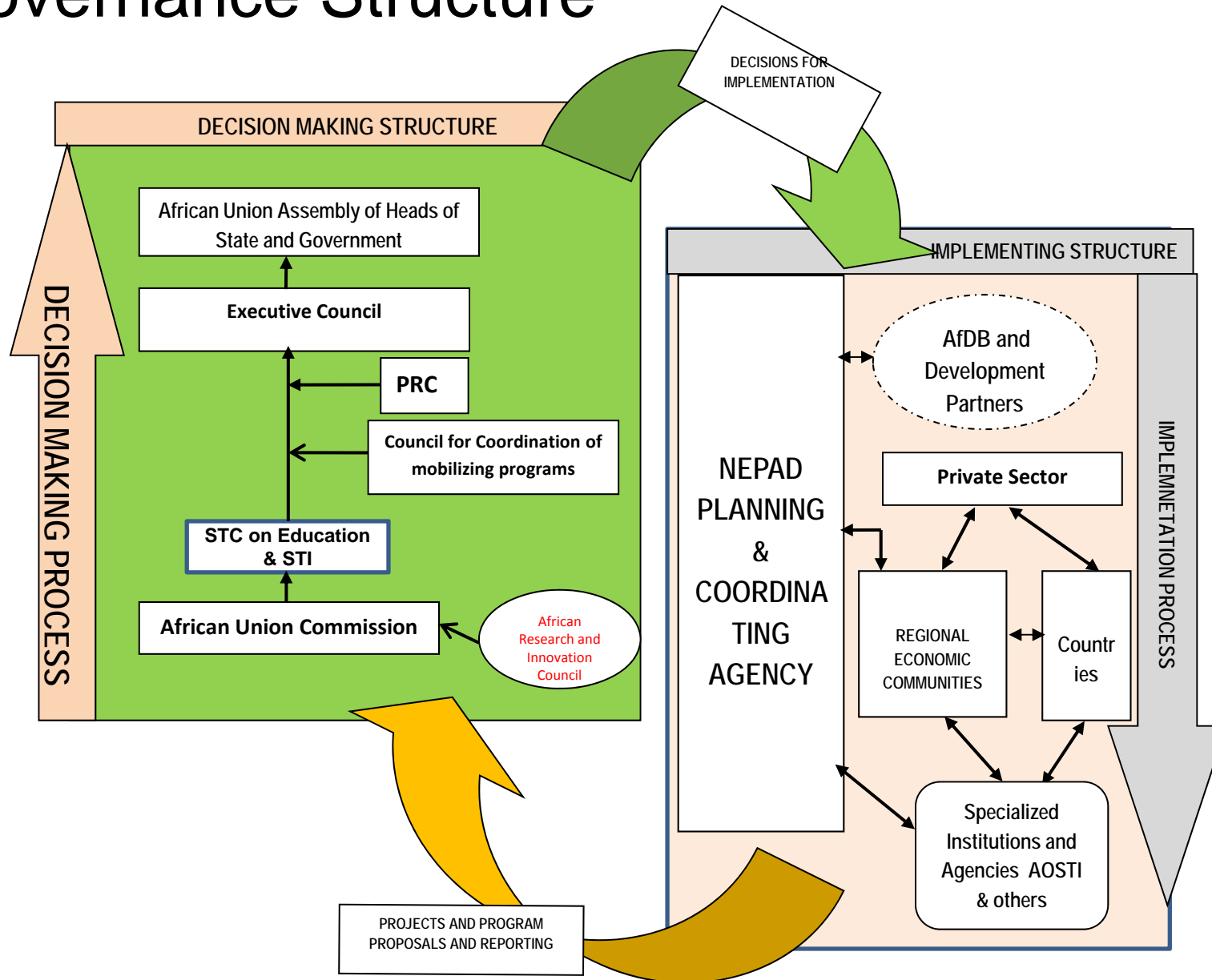
Decisions

Decision making and approval of priorities and Mobilizing programmes

Implementations

Elaboration of programs, Funding, R&D and production of reports and Evaluation

Governance Structure



Success Factors

- **Implementation institutional arrangements**
- **Funding for the strategy**
- **Publicity**
- **M&E**

Thank You

Hambani Masheleni
African Union Commission