Overview of Current Status of Biosafety Regulatory Frameworks in fifty- four African Countries and potential future challenges

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Africa Union Agenda 2063

- It is a strategic framework for the socio-economic transformation over the next 50 years.
- Its builds on, and seeks to accelerate the implementation of past and existing continental initiatives for growth and sustainable development.
- Some of the past and current initiatives it builds on include:
 - The Lagos Plan of Action,
 - The Abuja Treaty,

formulation.

- The Minimum Integration Programme,
- Programme for Infrastructural Development in Africa (PIDA),
- Comprehensive Africa Agricultural Development Programme (CAADP),
- The New partnership for Africa's Development (NEPAD),
- Regional Plans and Programmes and National Plans.
- It is also built on national, regional, continental best practices in its

NG AFRICA

VISION AU Agenda 2063: THE AFRICA WE WANT

ZAMBIA- VISION 2030, APROSPEROUS MIDDLE-INCOME NATION.

Nigeria 2030- Nigeria of our **Dream**

Seven Aspirations of the Africa we Want

- 1. ASPIRATION 1: A prosperous Africa based on INCLUSIVE GROWTH and SUSTAINABLE development.
- 2. ASPIRATION 2: An integrated continent, politically united, based on the ideals of Pan-Africanism and the vision of Africa's Renaissance.
- 3. ASPIRATION 3:

An Africa of good governance, democracy, respect for human rights, justice and the rule of law.

- **4. ASPIRATION 4:** A peaceful and secure Africa.
- **5. ASPIRATION 5:** An Africa with a strong cultural identity, common heritage, values and ethics.
- 6. **ASPIRATION 6:** An Africa whose development is people-driven, relying on the potential of African people, especially its women and youth, and caring for children.
- **7. ASPIRATION 7:** Africa as a strong, united, resilient and influential global player and partner. http://au.int/en2/agenda2063

A prosperous Africa based on inclusive growth and sustainable development

- We are determined to eradicate **poverty** in **one** generation and build shared prosperity through social and economic transformation of the continent.
- We aspire that by 2063, Africa shall be a prosperous continent, with the means- and resources to drive its own development, with sustainable and long-term, stewardship of its resources

http://www.un.org/en/africa/osaa/pdf/au/agenda2063.pdf

A prosperous Africa based on inclusive growth and sustainable development

- 1. By 2063, African countries will be amongst the **best performers** in global quality of life measures.
- Africa's collective GDP will be proportionate to her share of the world's population and natural resource endowments.

Aspiration 1- No 13

13.Africa's agriculture will be modern and productive, using science, technology, innovation and indigenous knowledge. The hand hoe will be banished by 2025 and the sector will be modern, profitable and attractive to the continent's youths and women.

NEPAD Agency ABNE

- NEPAD Agency African Biosafety Network of Expertise (NEPAD/ABNE) is a biosafety resource network for African regulators and policy makers.
- Conceptualized by NEPAD Consolidated Plan of Action
- Freedom to Innovate-Biotechnology in Africa's Development, Report of the High-Level African Panel on Modern Biotechnology- Calestous Juma and Ismail Serageldin (2007)
 - THIS REPORT IS ABOUT THE ROLE OF BIOTECHNOLOGY IN THE TRANSFORMATION OF AFRICAN ECONOMIES.

Freedom To Innovate

- Request of Africa heads of state and governmentbuild capacity to harness and apply
 biotechnologies-agricultural productivity, public health, industrial development, economic competitiveness, and environmental sustainability -biodiversity conservation in Africa.
- Systemic considerations- role of innovation in economic transformation.
- Challenges Africa's heads of state and governmentimportance of a coordinated approach in promoting technological innovation in development.

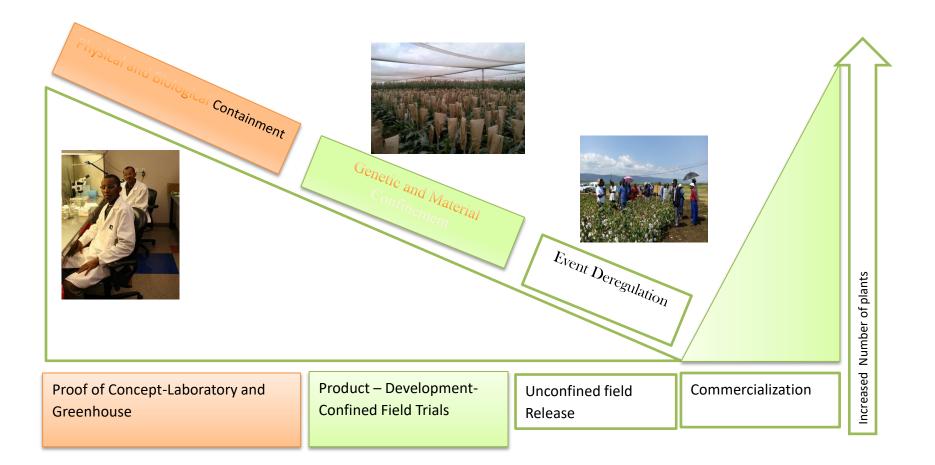
NEPAD/ABNE

- Approved officially in 2008 by the African Ministerial Council on Science and Technology (AMCOST)
- To promote advancement of science and technology for agricultural development in Africa.
- Provide farmers with choice in using improved convention and Biotechnology seeds through developing functional Biosafety Regulatory Frameworks

Functional Biosafety Regulatory Framework

- Biosafety/Biotechnology Policy
- Regulatory Systems- Biosafety Act, Implementing Regulations
- Administrative System- NBA Secretariat, Inspectors and Monitoring
- Mechanism for public participation and Information's sharing

Biotech Product Development Pathway





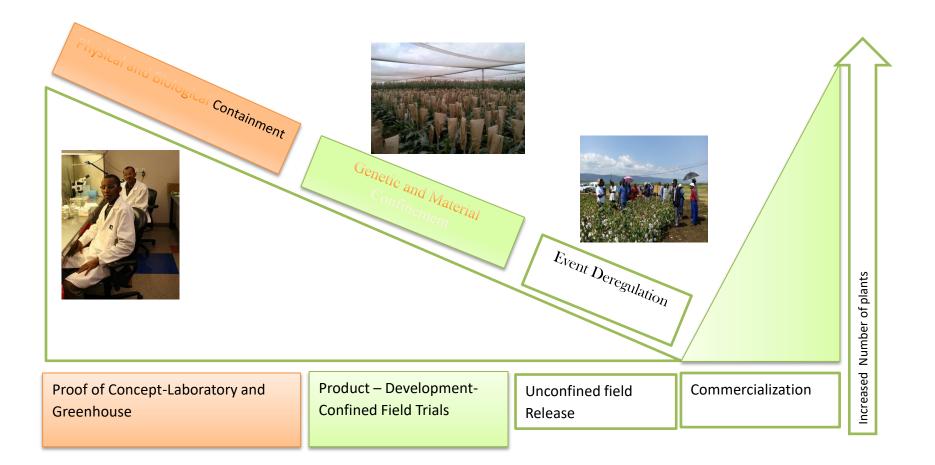
NEPAD/ABNE

- It is an Africa-based, Africa-led initiative established by the AU/NEPAD Agency's Science, Technology and Innovation Hub.
- ABNE's biosafety capacity building services target the members of National Biosafety Committees (NBCs), Institutional Biosafety Committees (IBCs), Plant Quarantine Officers (PQs), and policy makers.

NEPAD/ABNE

- The network draws on available expertise, resources and infrastructure, and develops capacity and linkages with institutions within Africa and globally.
- Key partners is Michigan State University, Program for Biosafety Systems, National Biosafety Authorities, AATF, ISAAA

Biotech Product Development Pathway





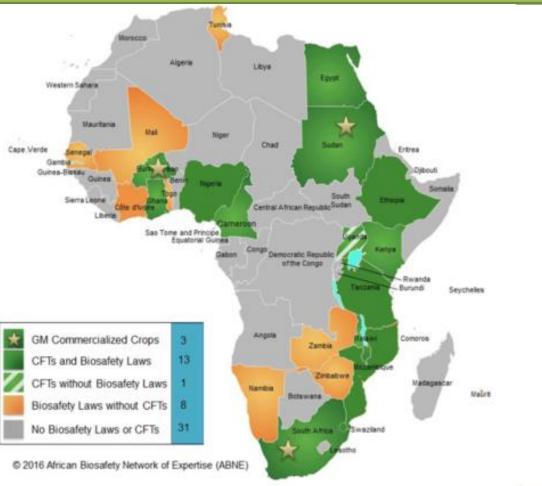
Two Countries with Functional Framework and Commercialized

- Sudan
- South Africa



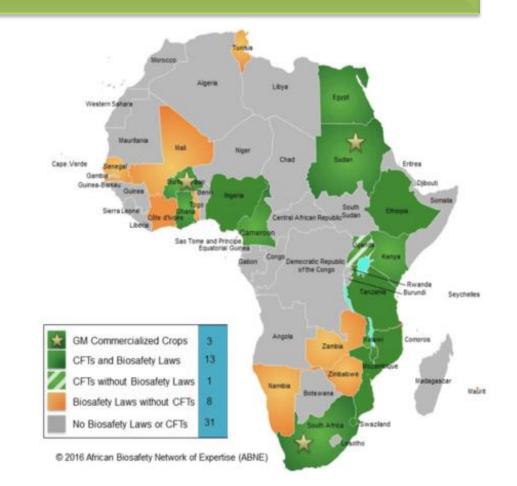
Five new African countries and general Release

- Nigeria
- Malawi
- Swaziland
- Ethiopia
- Kenya



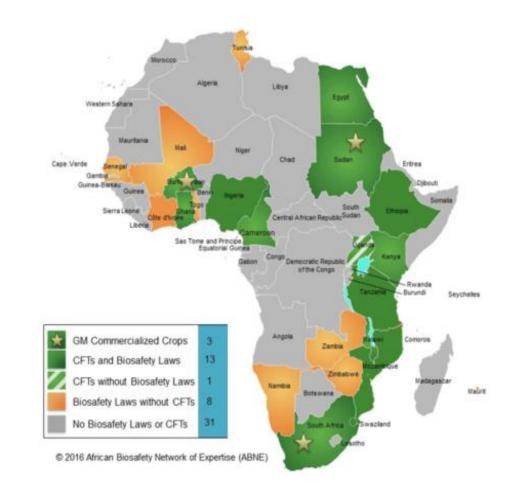
Countries with Laws and CFT

- Cameroon
- Ghana
- Burkina Faso
- Egypt
- Mozambique
- Tanzania
- Uganda

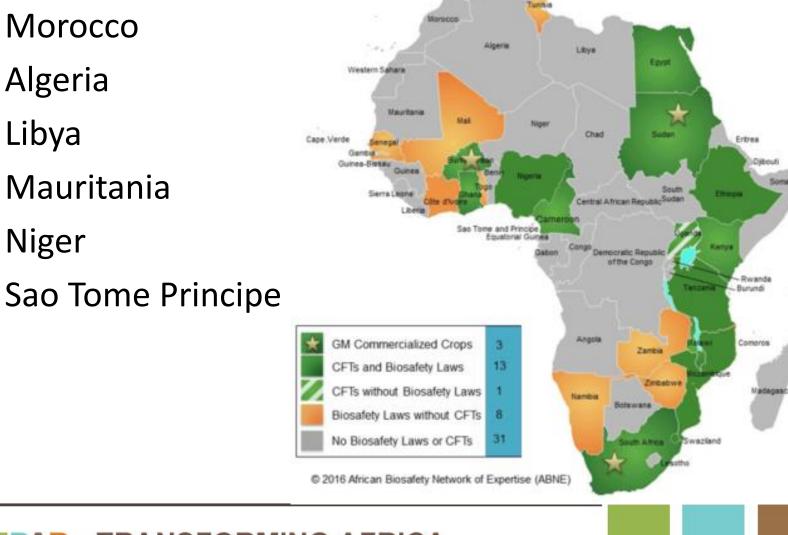


Countries with Laws but no CFTs

- Tunisia
- Mali
- Senegal
- Zambia
- Zimbabwe
- Namibia
- Togo
- Cote D'Ivoire



North African Countries

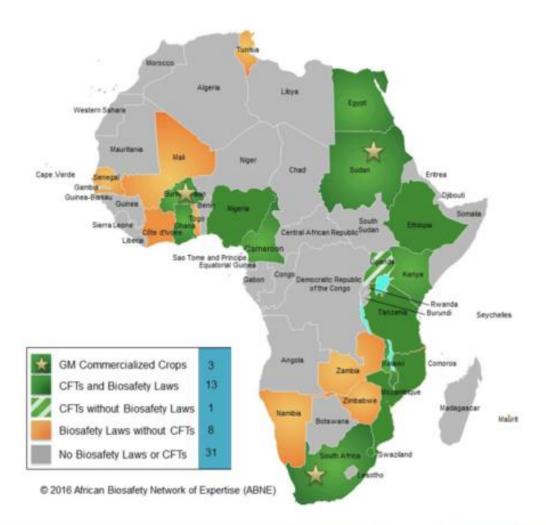


Seycheles

Malet

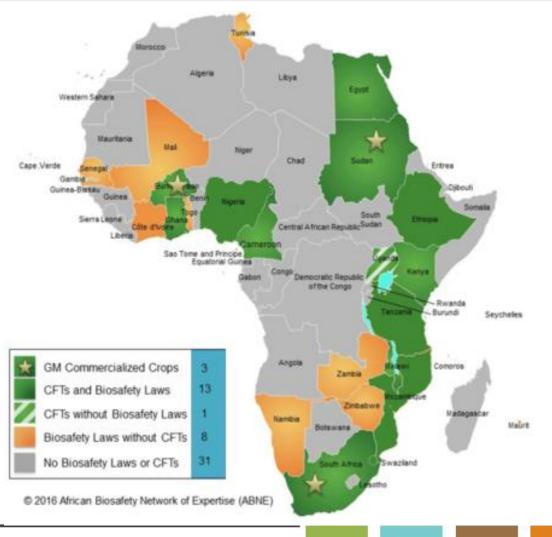
West African Countries

- Mauritania, Sierra Leone Benin Gambia Guinea
- Guinea Bissau
- Liberia



North Eastern African Countries

Djibouti South Sudan Eritrea Somalia



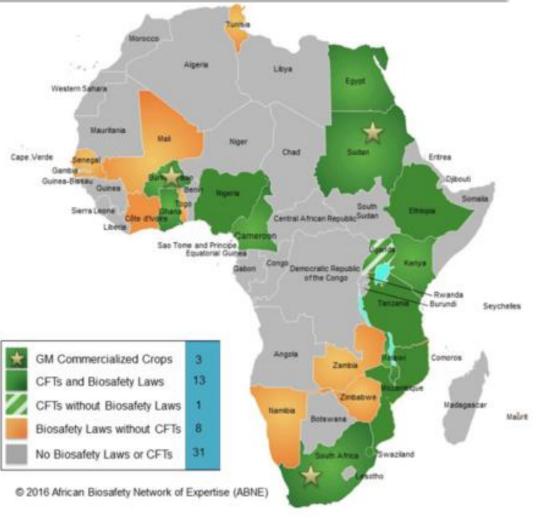
CENTRAL AFRICAN COUNTRIES

Chad,

Congo,

Democratic Rep Congo

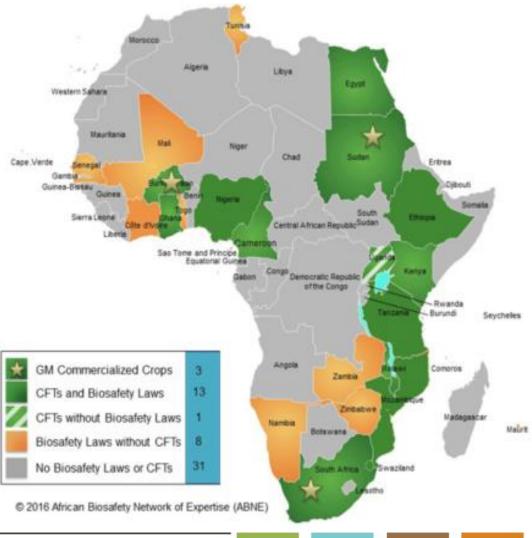
Central African Repub Gabon



Other African Countries

Madagascar Cape Verde Comoros Union of Comoros Mauritius

Seychelles



Leveraging on Regional Economic Communities

- 1. EAC- East African Community
- COMESA-The Common Market for Eastern and Southern Africa is a free trade area with twenty member states (COMESA (19 Member Countries),
- **3. SADC- Southern African Development Community (SADC)** is 15 Member States REC.
- **4. ECOWAS** Economic Community of West Africa Countries (ECOWAS) 15 member regional Program,
- WAEMU- West African Economic and Monetary Union (WAEMU)- French acronym, UEMOA)
- 6. CILSS: Comité Inter-Etate pour la Lutte contre la Sécheresse au Sahel (French: Permanent Inter-State Committee for Drought Control *in* the Sahel)

COMESA REGIONAL BIOTECHNOLOGY AND BIOSAFETY POLICY

- Approval and adoption of COMESA policy on commercial planting, trade and emergency food assistance involving GMOs, by the 32nd Meeting of the COMESA Council of Ministers in February 2014
- 2. ACTESA, COMESA is committed to assist Member States to continue building institutions and regulatory frameworks that will guide the use of biotechnology in Agriculture.
- **3. ABNE-Partnership with COMESA/ACTESA-** in Zambia, Sudan and Swaziland

ISAAA Ref 2015

Regional Initiatives-WAEMU

Ministries from WEAMU countries in charge of environment, agriculture, animal resources and fisheries, and scientific research met in Ouagadougou in February 2015 and adopted the **Regional Biosafety** Law with an amendment on Article 25 to read "Any who wishes to do **confined testing**, **develop**, **import**, disseminate or introduce to the market LMOs and / derived product should submit a written request to the competent national authority of the concerned WAEMU country member" instead of written request to the **WAEMU Commission**.

Gain Report (2015)- https://gain.fas.usda.gov/Recent%20GAIN%

WAEMU-ECOWAS AND CILLS

- WAEMU (UEMOA) West African Economic and Monetary Union members includes: Benin, Burkina Faso, Cote d'Ivoire, Guinea Bissau, Mali, Niger, Senegal and Togo.
- ECOWAS members include: Benin, Burkina Faso, Cape Verde, Côte d'Ivoire, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone and Togo
- CILSS members include Benin, Côte d'Ivoire, Gambia, Guinea, Guinea-Bissau, Mauritania, Senegal, Togo, Burkina Faso, Mali, Niger, Chad, Cape Verde

COMESA, SADC AND EAC

- COMESA of 19 member states Burundi, Comoros, the Democratic Republic of Congo, Djibouti, Eritrea, Ethiopia, Kenya, Libya, Madagascar, Mauritius, Rwanda, Seychelles, Sudan, Swaziland, Uganda, Zambia, Zimbabwe, Egypt and Malawi.
- SADC (Southern African Development Community) is a regional organisation consisting of 14 Member Countries-Angola, Botswana, Congo (DR), Lesotho, Malawi, Mauritius, Mozambique, Namibia, Seychelles, South Africa, Swaziland, Tanzania, Zambia and Zimbabwe.
- EAC-East African Community- six countries in the African Great Lakes region in eastern Africa: Burundi, Kenya, Rwanda, South Sudan, Tanzania and Uganda

WAEMU, ECOWAS AND CILSS3

- WEAMU Ministers have adopted a regional biosafety law.
- Ministries recommended that the three organizations WAEMU, ECOWAS, and CILSS continue their collaboration to finalize the regional biosafety law, which they believe benefit to all members states.

Gain Report (2015)- https://gain.fas.usda.gov/Recent%20GAIN%

CONCLUSIONS

- Regional Economic Communities- CILSS, SADC, EAC, COMESA, ECOWAS, WAEMU (UEMOA)
- Sovereign- National Governments
- Africa- Union NEPAD Agency ABNE
- Two Prong Approach- adoption by small scale farmers- and placing on the Market
- Development Partners- PBS, USDA
- Policy- Options
- Diversification into Animal, Health, Industrial and Environmental Biotechnology

Acknowledgements

- COMESA /ACTESA- Swaziland, Zambia, Sudan
- Program for Biosafety Systems- Ethiopia, Malawi, Kenya and Uganda
- African Agricultural Technology Foundation Kenya, Mozambique, Tanzania
- ISAAA- Coordination Meeting- Cameroon
- Several National Biosafety Authorities/ Agencies about 16 Countries
- Michigan State University
- Bill Melinda Gates Foundation, USDA
- Conference Participants