

Role of RCMRD in Promoting NDC Uptake in Eastern & Southern Africa Region



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rcmrd@rcmrd.org

WHAT BRINGS THESE TWO ITEMS IN HARMONY

LAND & **CLIMATE**

Intended Nationally Determined Contributions?



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REGIONAL CENTRE FOR MAPPING OF RESOURCES FOR DEVELOPMENT



Our Vision

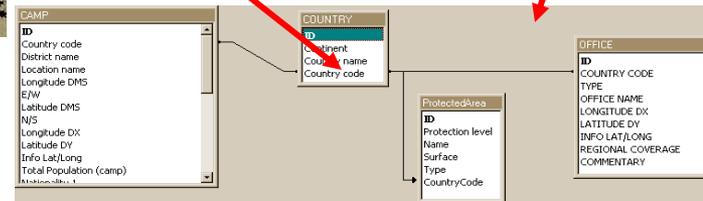
To be a premier Centre of Excellence in provision of Geo-Information services

Our Mission

To promote sustainable development through generation, application & dissemination of Geo-Information and allied ICT services and products in the Member States & beyond



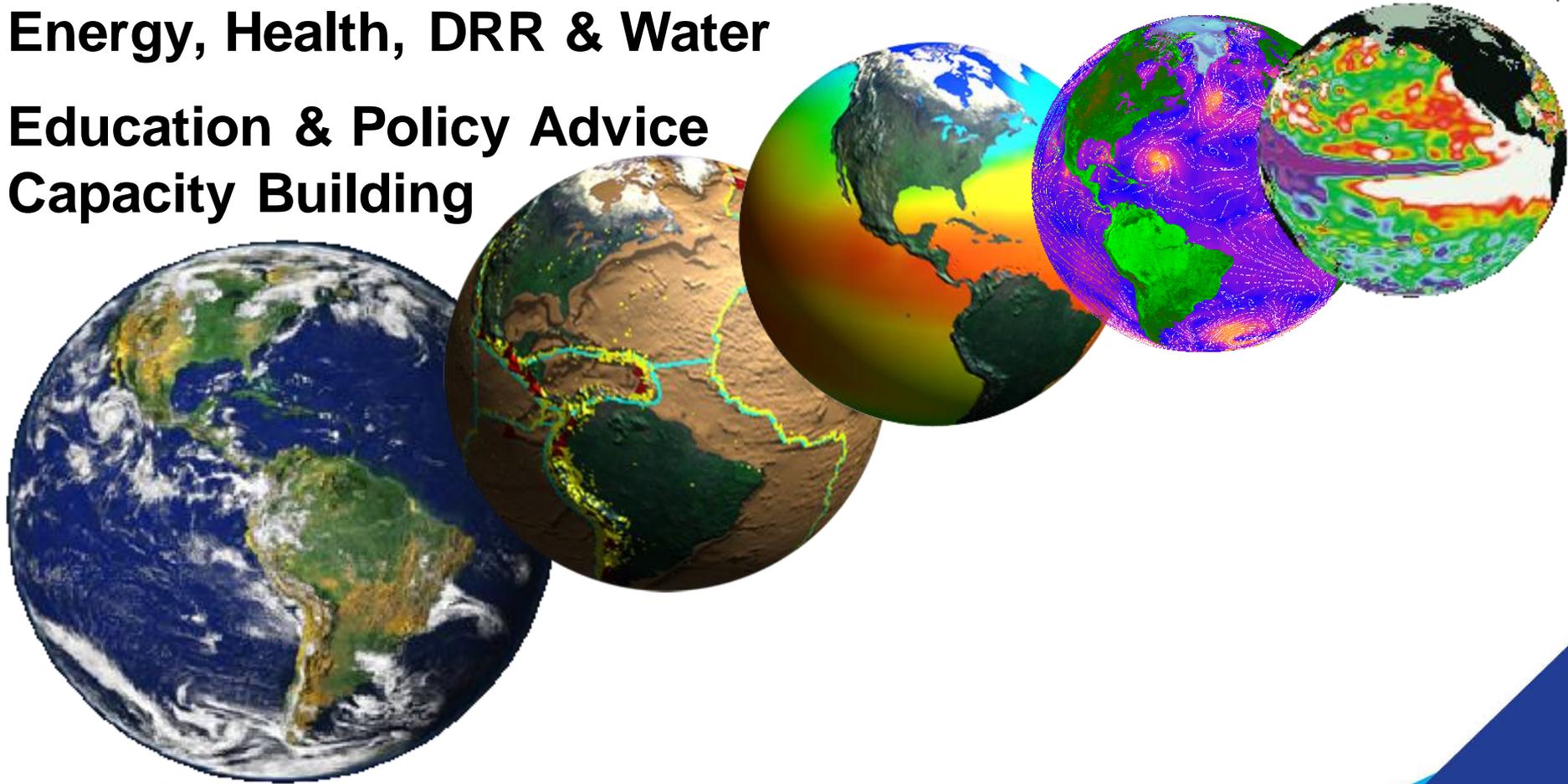
Spatial Technologies promoted at RCMRD



Societal Benefit Areas of Impact

Land Policy, Governance, Land & Land Management,
Agriculture, Biodiversity, Climate, Disasters, Ecosystem,
Energy, Health, DRR & Water

Education & Policy Advice
Capacity Building



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RCMRD ALIGNING WITH AFRICAN AGENDA



- African Union Agenda 2063
- AfDB – Big 5 Agenda
- UNECA - our growth should be primarily anchored on priorities capable of delivering structural transformation

RCMRD ACTIVITIES HAVE BEEN ALIGNED WITH SDG'S TO ADDRESS MEMBER STATE CHALLENGES

CORE ACTIVITIES

- **Provision of Advisory Services**
 - Agriculture & Food Security
 - Land & Urban Management
 - Water & Hydrology
 - DRR
 - Provision of EO Data
 - Climate & Weather
 - Ecosystems
 - Health
 - Energy

- **Capacity Development & Transfer**
 - Academic Training in Geomatics & IT
 - Technical/Applied Training GIT

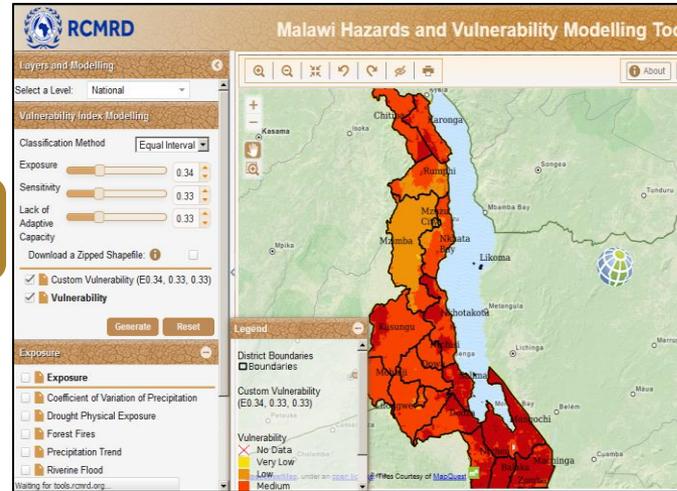
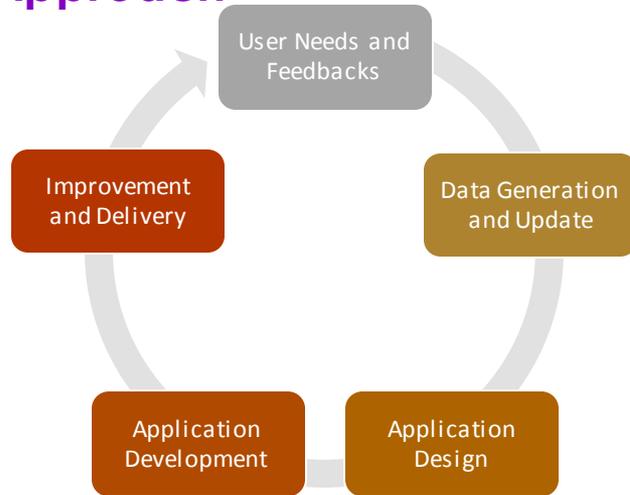
- **Research, Development & Innovation**
 - SERVIR ESA
 - Geodetic Networks Solutions & AFREF
 - GMES
 - UAV Deployment
 - Exploitation of EO data and application
 - UNGGIM
 - AfriGEO

Agenda 2030
Agenda 2063
SDG



TRANSFORMING GEO-SPATIAL DATA TO WEB MAP SERVICE SOLUTIONS TO DRIVE INFORMED DECISION MAKING

Approach



Objectives

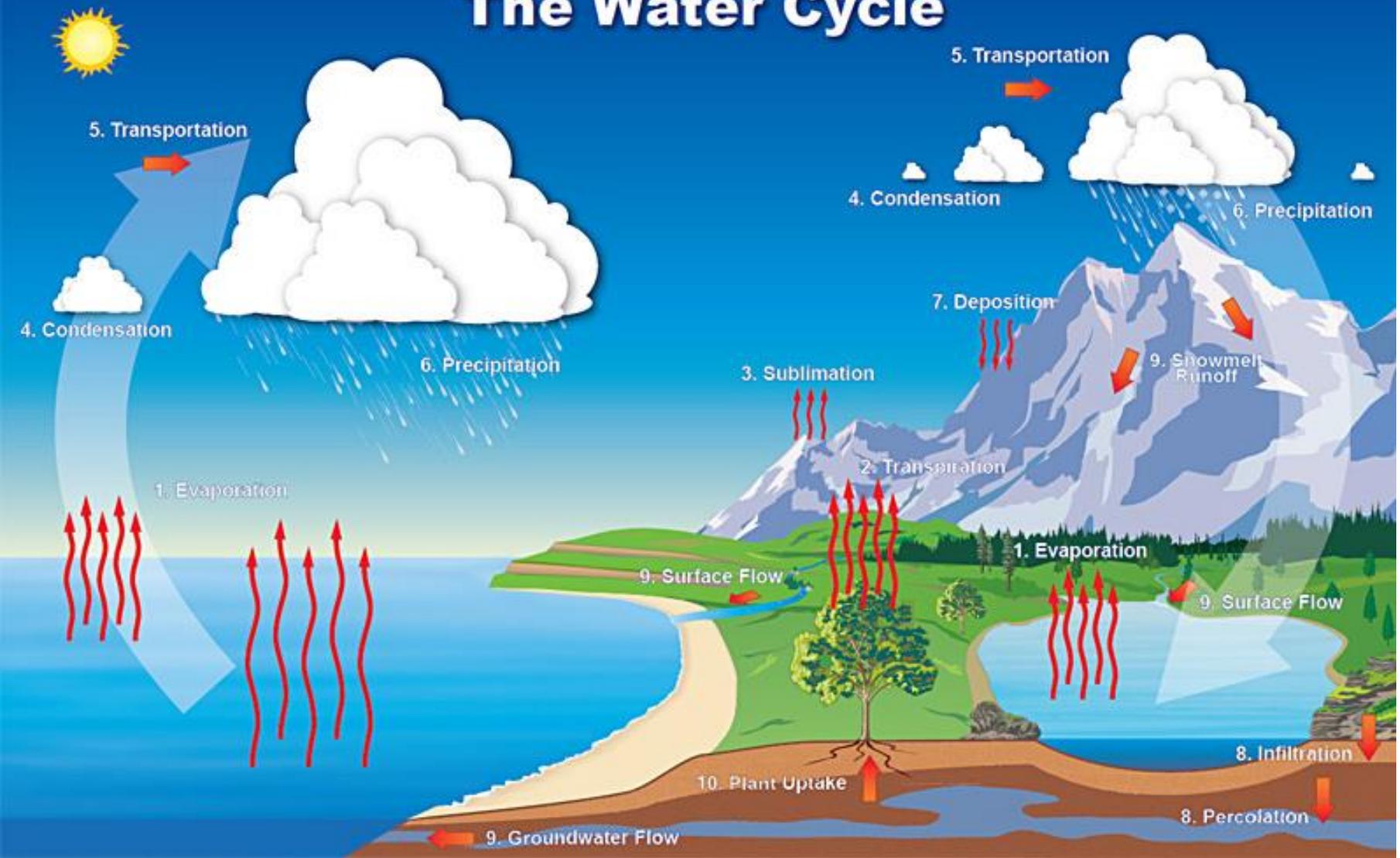
- ▶ To improve access and awareness of geospatial data in the region
- ▶ To enhance the institution capacity to share data through various online platforms
- ▶ To develop tools and applications that address users needs in decision making
- ▶ To provide capacity building for users to use these products

Results



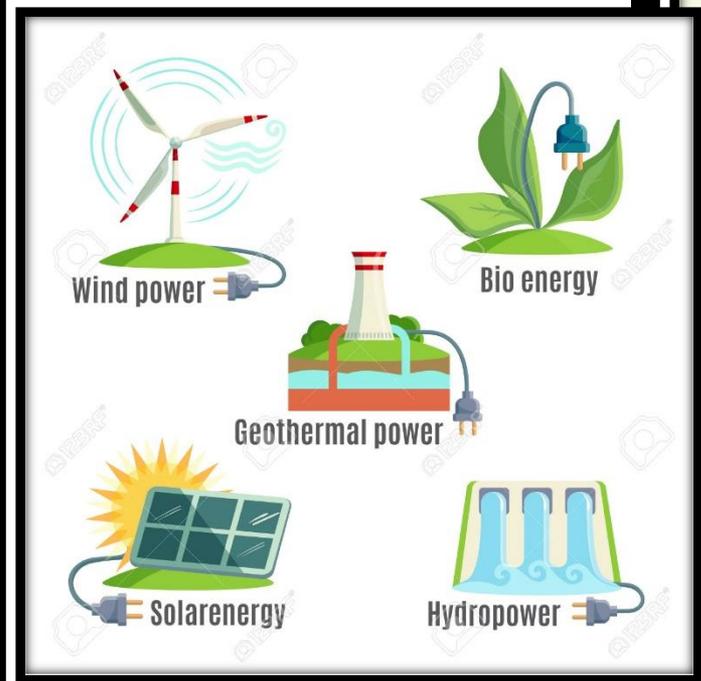
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The Water Cycle



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ISSUES



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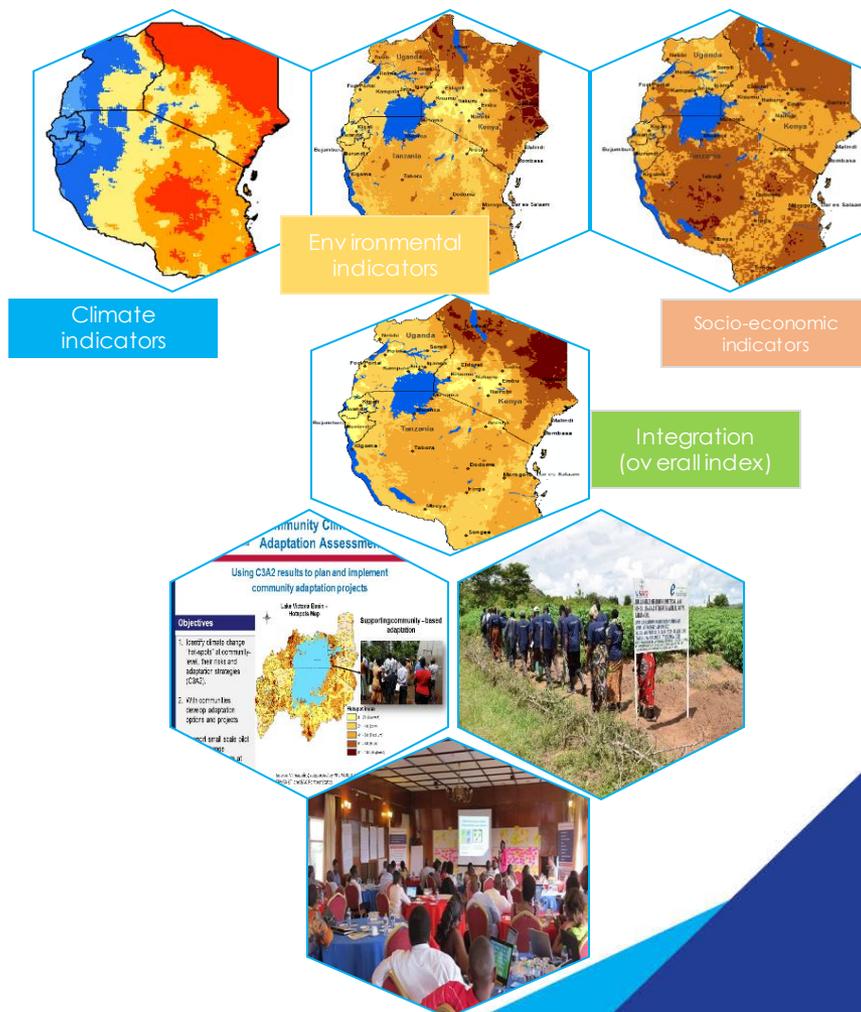
MAPPING TO IMPROVE CLIMATE CHANGE ADAPTATION INVESTMENTS IN EAST AFRICA

Why this project?

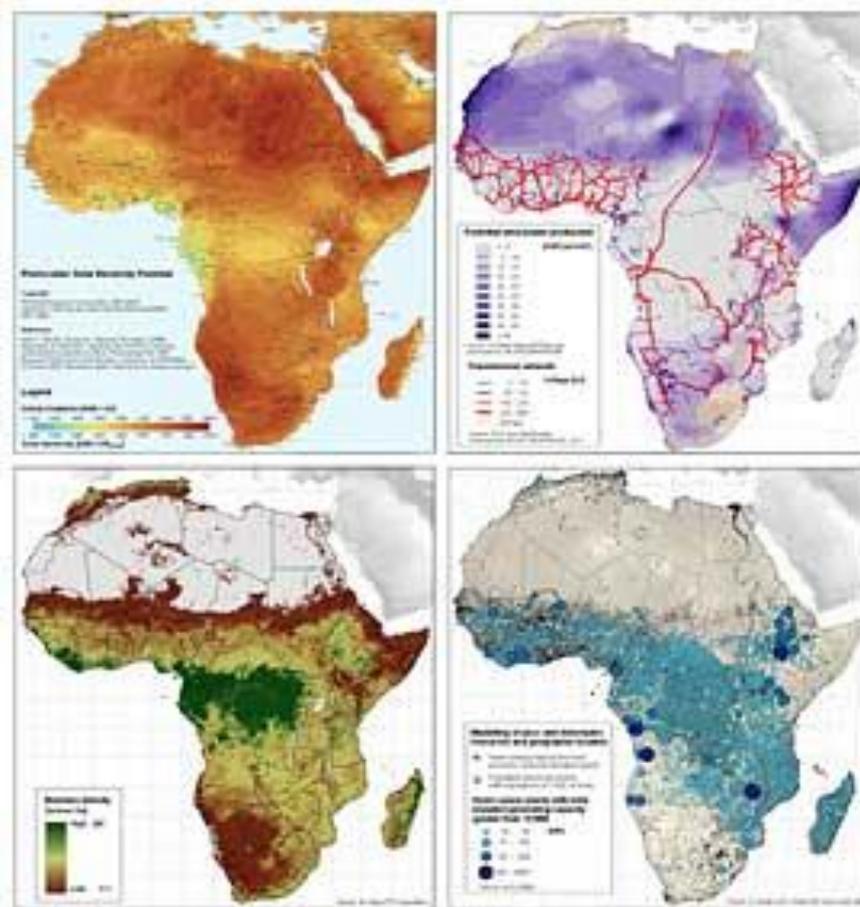
SERVIR E&SA is providing technical support to PREPARED project by integrating EO data and other inputs to:

- ▶ Identify climate change vulnerable communities and ecosystems
- ▶ Strengthen climate change knowledge and
- ▶ Help target adaptation investments in the region.

Results

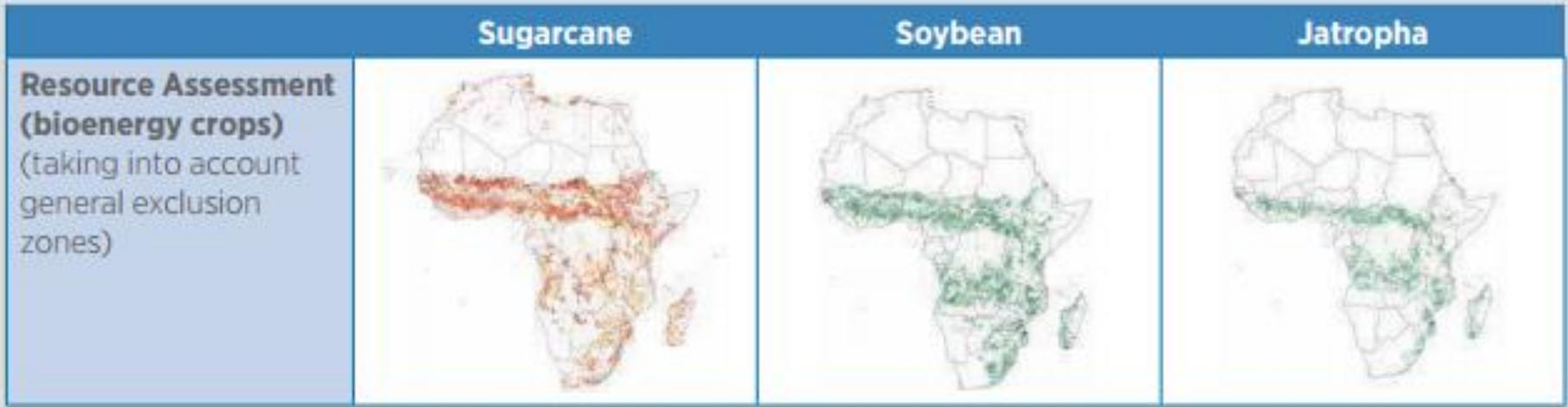
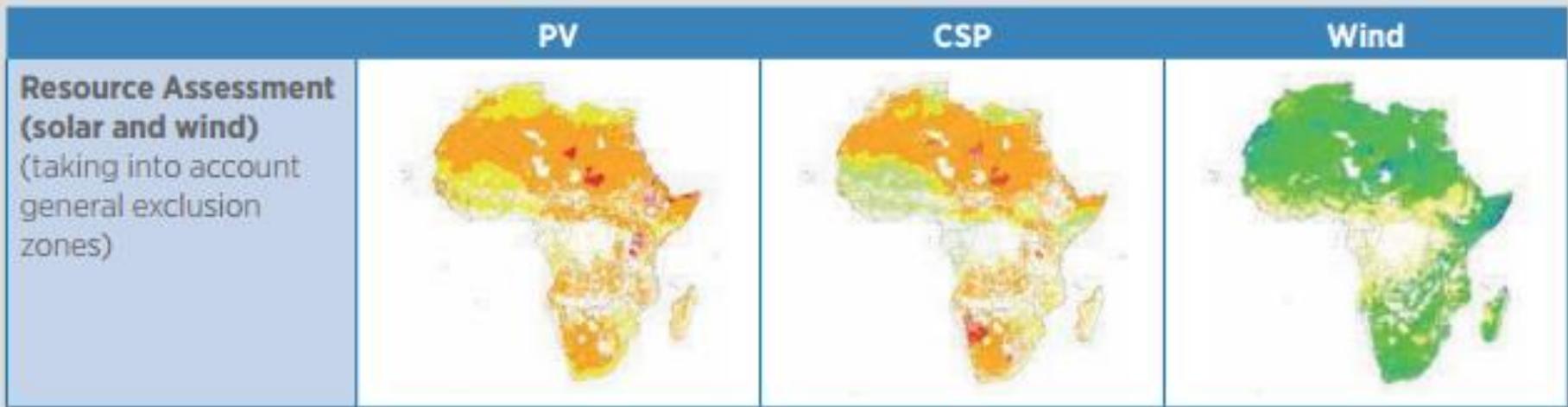


AFRICA ENERGY LANDSCAPE



Mapping Africa's renewable energy resources for solar, wind, biomass and hydroelectric.
Source: JRC/RCMRD

Resource Potential 'SUITABILITY' combined with 'EXCLUSION MAP'



BLUE ECONOMY

The Blue Economy is sustainable use of ocean resources for economic growth, improved livelihoods and jobs, and ocean ecosystem health.

The Blue Economy encompasses many activities...

RENEWABLE ENERGY

Sustainable marine energy can play a vital role in social and economic development.

TOURISM

Ocean and coastal tourism can bring jobs and economic growth. Coastal Least Developed Countries and Small Island Developing States receive more than **41 million** visitors per year.

CLIMATE CHANGE

The impacts of climate change on oceans—rising sea-levels, coastal erosion, changing ocean current patterns, and acidification—are staggering. At the same time, **oceans are an important carbon sink** and help mitigate climate change.

FISHERIES

Marine fisheries contribute more than **US\$270 billion** annually to global GDP. More sustainable fisheries can generate more revenue, more fish and help restore fish stocks.

MARITIME TRANSPORT

Over **80% of international goods** traded are transported by sea, and the volume of seaborne trade is expected to double by 2030 and quadruple by 2050.

WASTE MANAGEMENT

80% of litter in the ocean is from land-based sources. Better waste management on land can help oceans recover.

To learn about other aspects of the blue economy, visit www.worldbank.org/oceans



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What do we mean when Economies are 'Green' ?



“A green economy generates jobs, businesses and investments while expanding clean energy production, increasing energy efficiency, reducing greenhouse gas emissions, waste and pollution, and conserving water and other natural resources.” (Pew Charitable Trusts)

“Industries that provide products or services related to renewable energy, increased energy efficiency, clean transportation and fuels, agriculture and natural resource conservation, and pollution prevention or environmental cleanup.” (Green Jobs Report)



Bioenergy is renewable energy made available from materials derived from biological sources. Biomass is any organic material which has stored sunlight in the form of chemical energy.



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WHY

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss



Ensure access to affordable, reliable, sustainable and modern energy for all



End hunger, achieve food security and improved nutrition and promote sustainable agriculture

Multifunctional landscapes, agroforestry

BIOENERGY

Life-cycle assessment emission savings



Take urgent action to combat climate change and its impacts



Reduce inequality within and among countries



End poverty in all its forms everywhere

Restoration, landscape approach

Value chains and distribution

Smallholder engagement, access to land, income generation, social benefits



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THE BIOENERGY CYCLE



<http://www.renewecology.nu>

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ARE WE IMPACTING LIVELIHOODS & MANAGING ECOSYSTEMS POSITIVELY?



What are the Issues?

- Continuous Training / CB**
- Engagement with scientists/think-tanks for informed decision making**
- sound policy formulation with implementation**
- Timely service delivery to people**
- Sound Allocation of Resources**

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