

Regional Workshop on Renewable Energy in Central Asia

Abu Dhabi, 27 April 2017

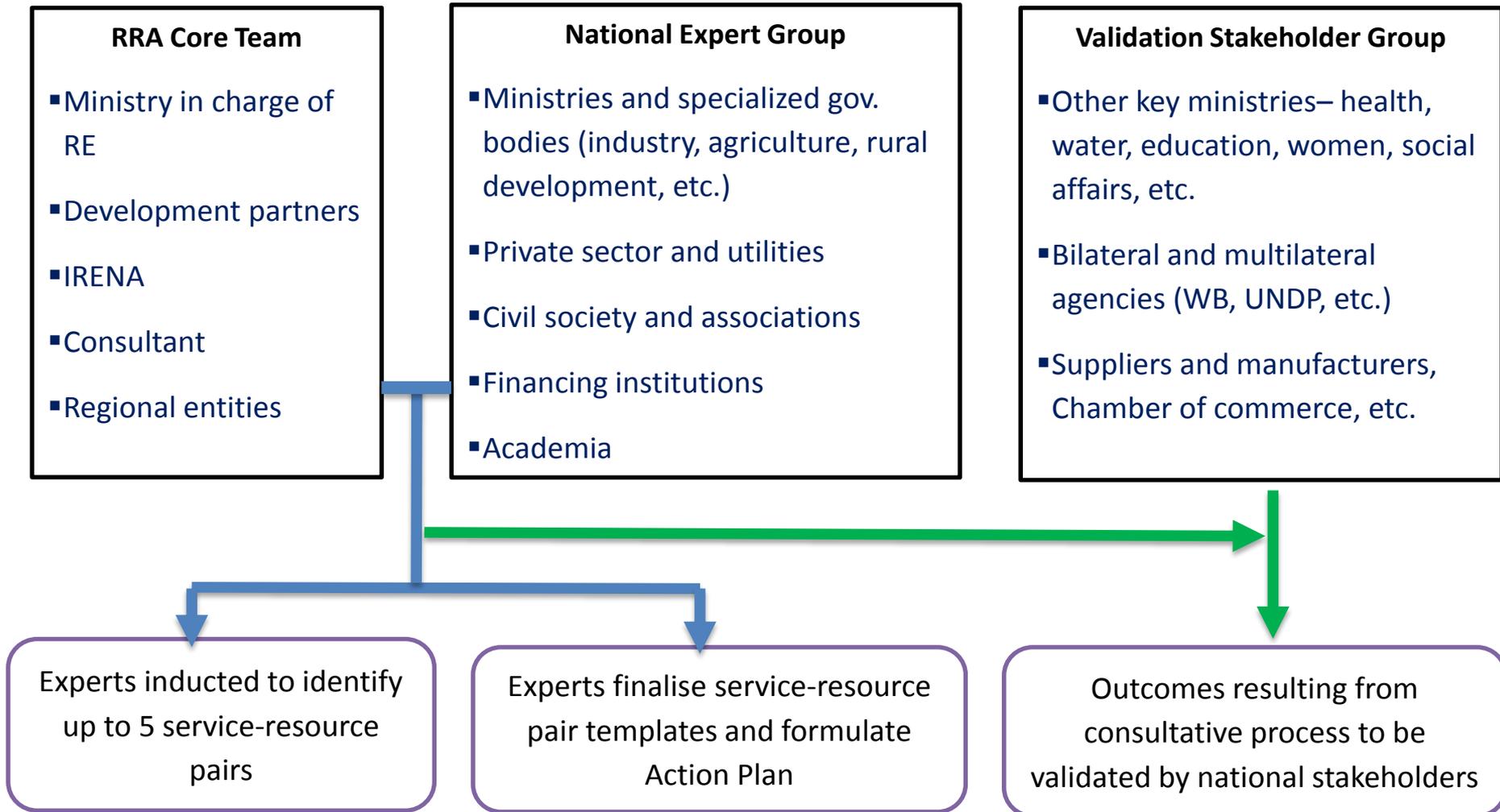
Enabling Frameworks: Renewables Readiness Assessment

Presentation by Gurbuz Gonul
Senior Programme Officer – Regions

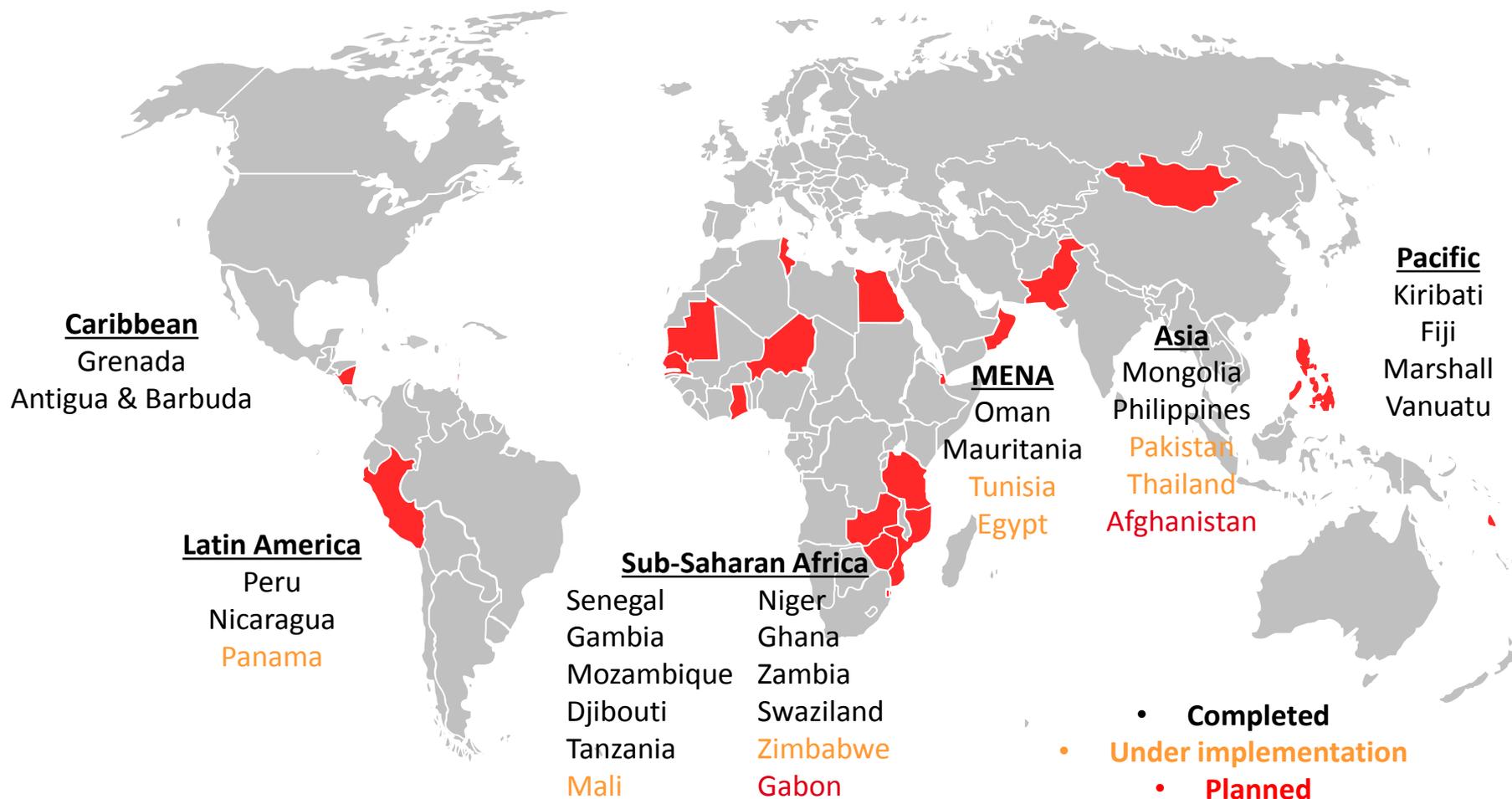


- Backbone of IRENA's country level engagement
- Comprehensive assessment of the situation on the ground for RE deployment; identification of obstacles hindering accelerated deployment; recommending short / medium-term actions to overcome them
- Country-initiated, country-led process
- Inclusive and multi-stakeholder process promoting consensus
- Process establishing a basis for future collaboration
- IRENA as facilitator

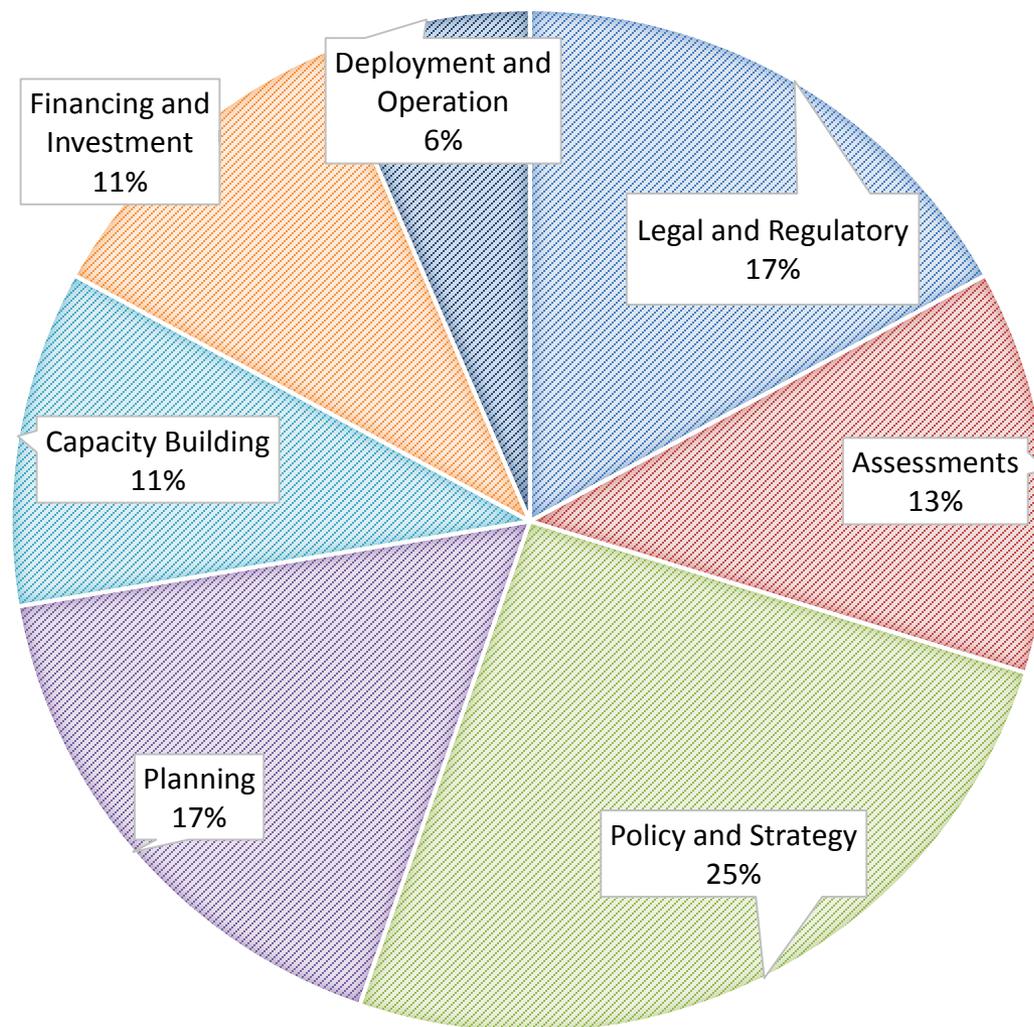
Who is engaged in the RRA?



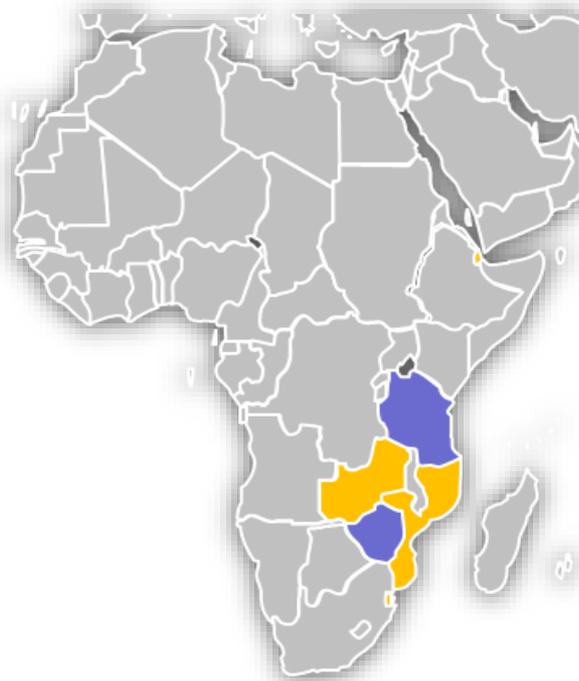
30 RRAs globally



RRA Recommendations: Case of Africa



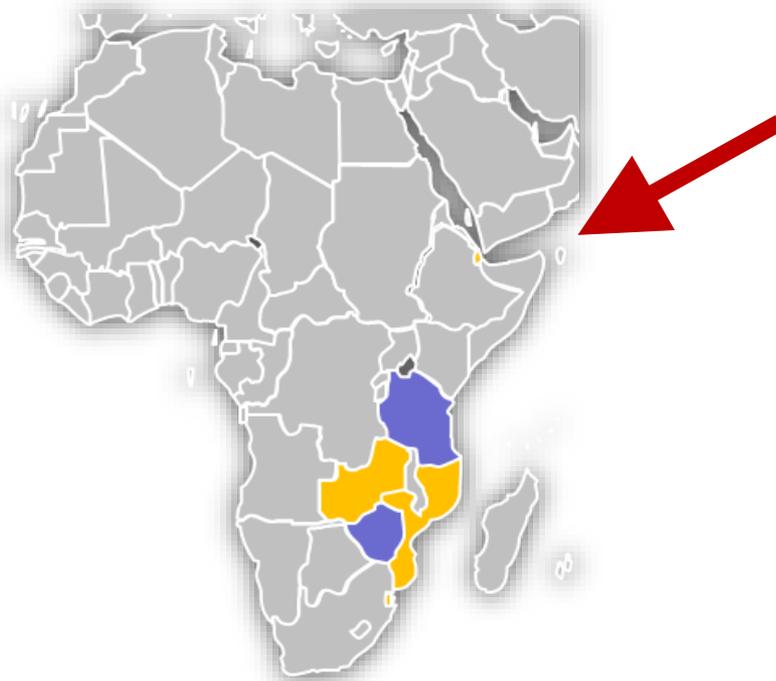
Impact of RRAs: Case of Africa



- ✓ **DJIBOUTI**
- ✓ **MOZAMBIQUE**
- ✓ **SWAZILAND**
- ✓ **ZAMBIA**

- **TANZANIA**
- **ZIMBABWE**

Impact of RRAs: Case of Africa



DJIBOUTI

- RRA used for guidance for geothermal development
- Exemption from import duty for RE equipment enforced
- RE integrated into Electricity Master Plan

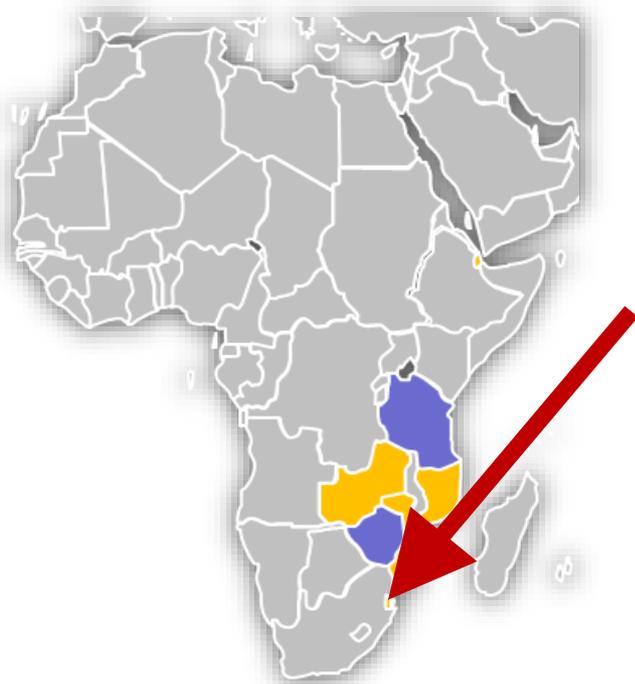
Impact of RRAs: Case of Africa



SWAZILAND

- Grid Code and RE IPP policy adopted (four PPAs signed)
- RE integrated into national energy policy and legislation
- Integrated resource planning under development

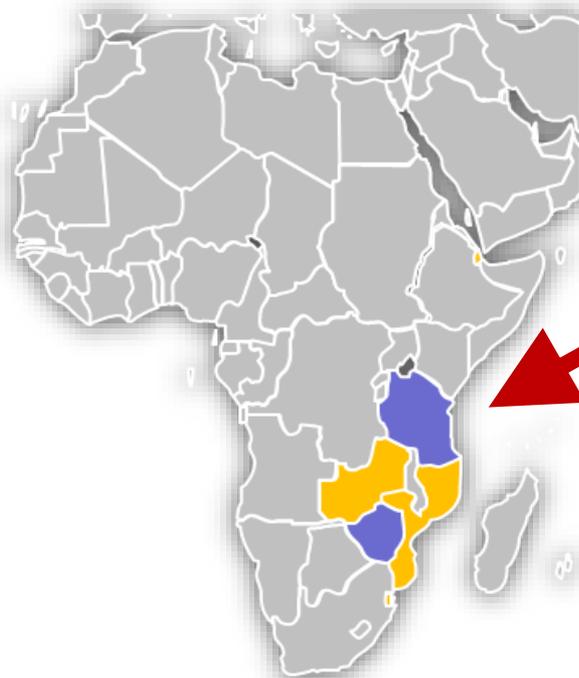
Impact of RRAs: Case of Africa



MOZAMBIQUE

- RE resources mapping for the whole country done
- RE feed-in-tariffs adopted
- Rural Electrification Strategy revised with focus on RE by private sector

Impact of RRAs: Case of Africa



ZAMBIA

- RE resources mapped and feed-in-tariffs adopted
- Integrated resource planning under development

- **Planning:** least-cost System Planning Test (SPLAT) models to support planning for long-term power generation expansion plans in West Africa.
- **Small-hydro trainings** for Zambia, Mozambique, Swaziland and the Gambia
- **Training on Resource Assessment and Development** of RE projects in Djibouti
- **Capacity Needs Assessment** at regional level in ECOWAS to promote RE-based mini-grids.
- **Statistics:** Training on renewable energy data collection and the compilation of energy statistics for 9 countries in Southern Africa
- **Finance & Investments:** technical workshop focused on RE investment strategies for countries of Southern and Eastern Africa

Regional Workshop on Renewable Energy in Central Asia

Abu Dhabi, 26 April 2017

Enabling Frameworks

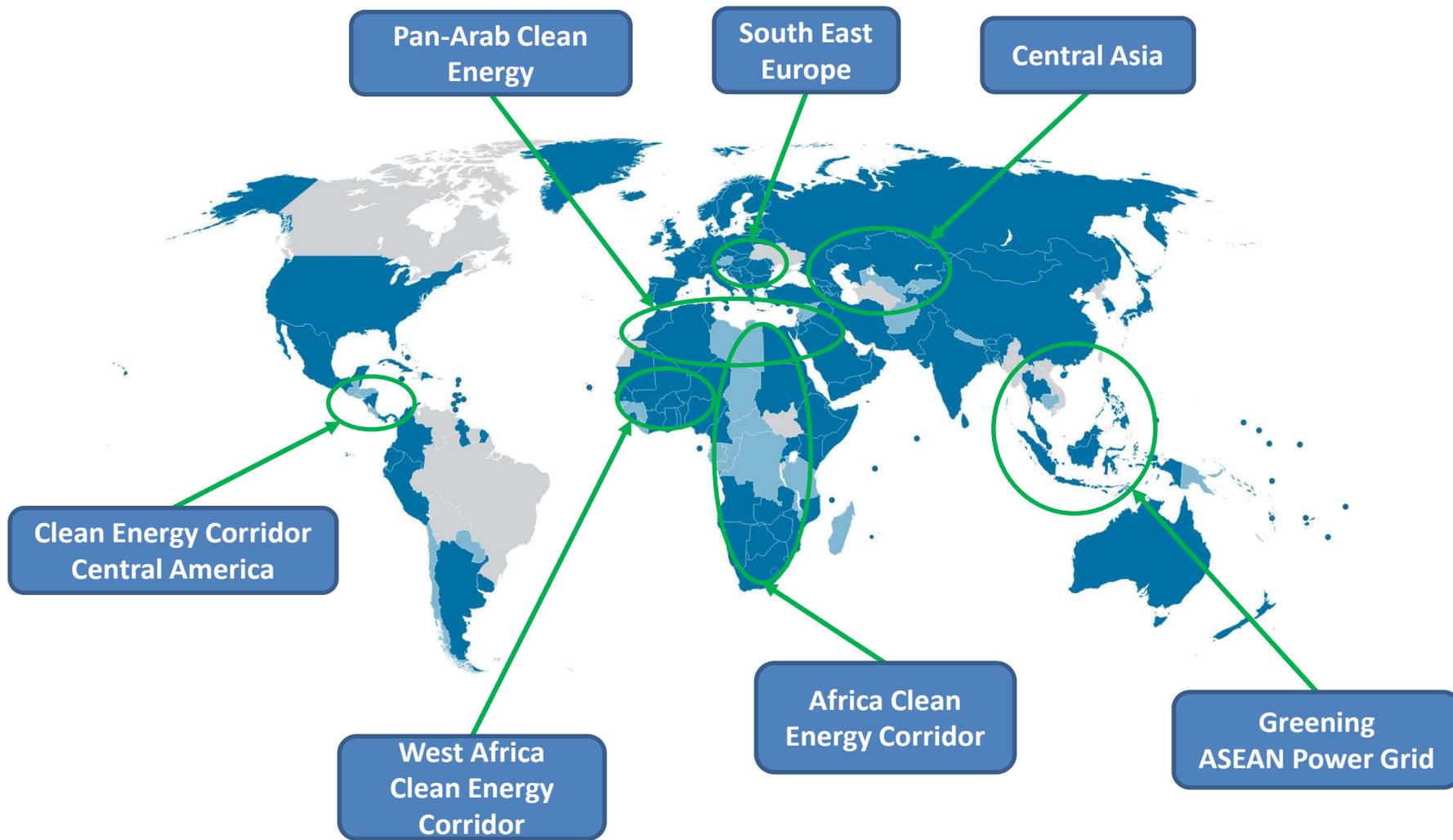
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Why the RRA?

A global framework to deploy RE at national level

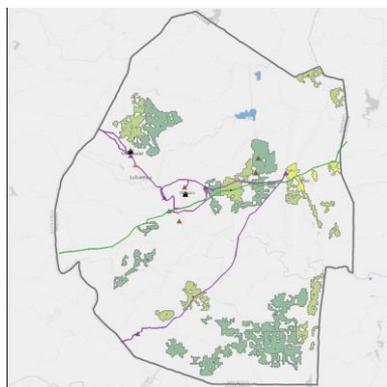


Regional Approach



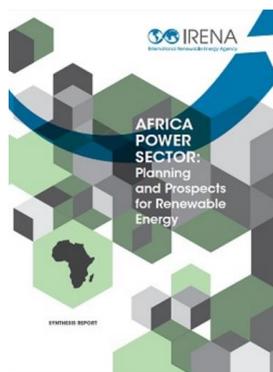
Swaziland (Capacity Building Programme):

- Energy planning **capacity building** programme to strengthen **energy planning capacity** within the local institutions (Ministry)
- Based on IRENA's power sector investment planning tool (**System Planning Test / SPLAT-S model**) and Wind and Solar Zoning results (**MapRE zoning**)
- Leading to an **Energy Master Plan**



MapRE Zoning

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SPLAT - S

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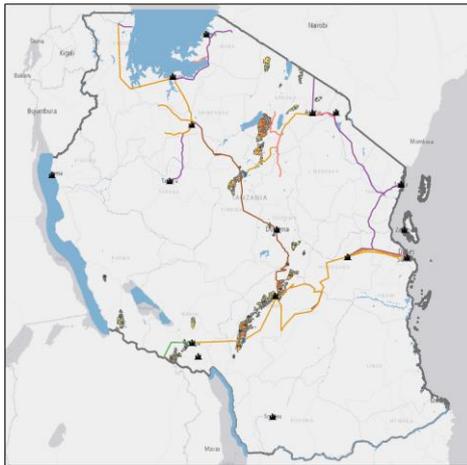
Training Programme



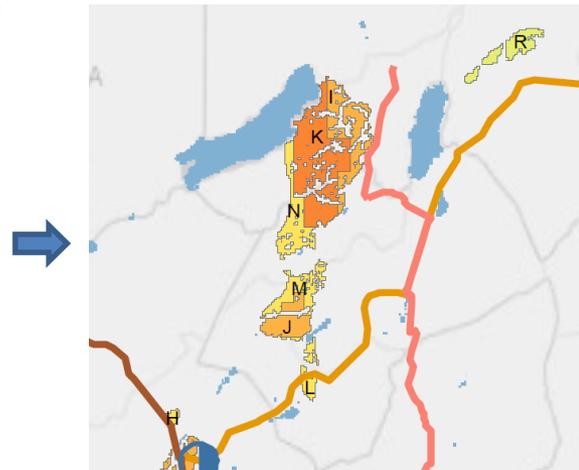
**ENERGY
MASTER
PLAN**

Tanzania (RRA Analysis):

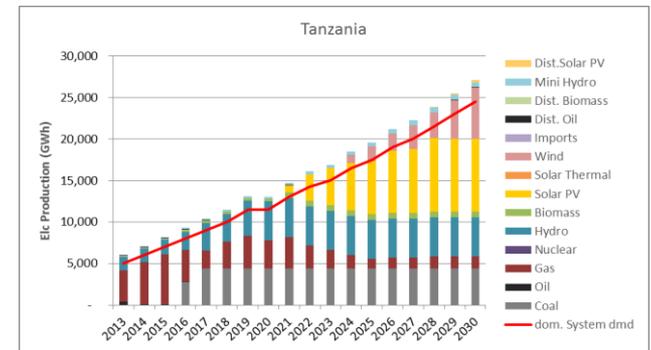
- Most cost-effective RE zones (wind, solar PV and CSP) incorporated into planning process to develop a **least-cost optimization model** for the power generation
- Enabling analysts to **assess investment paths** to achieve different policy goals



MapRE Zoning



Best zones selected
(Generation potential and LCOE)



Least cost electricity
generation mix