

AFRICA RENEWABLE  
ENERGY INITIATIVE

**AREI**

Transitioning Africa to  
a renewable energy  
powered future with  
access for all



## AREI is...

- Africa-led & sustainable development oriented
- Explicitly addresses needs of major productive sectors
- Development focused/climate compatible
- Open to wide participation and collaboration
- A multi-stakeholder effort committed to accelerated transition of Africa's energy-economies
- A framework that cultivates partnerships and synergies among existing and future RE efforts

CONTEXT

GOALS AND PRINCIPLES

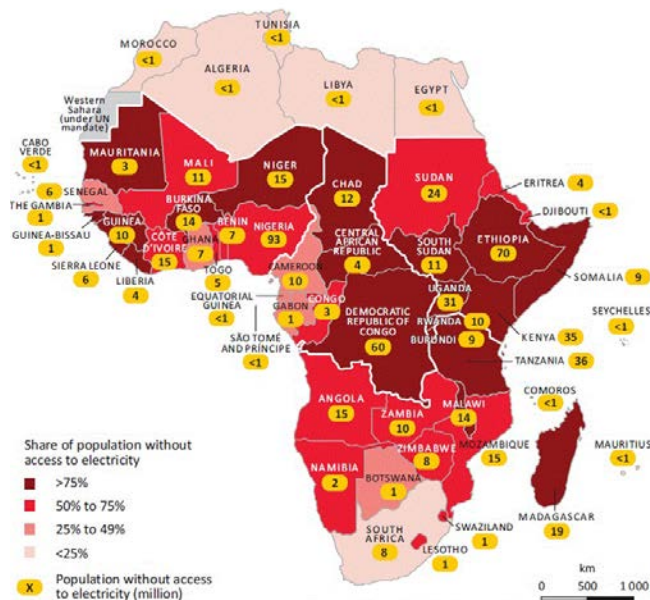
WORK AREAS

GOVERNANCE

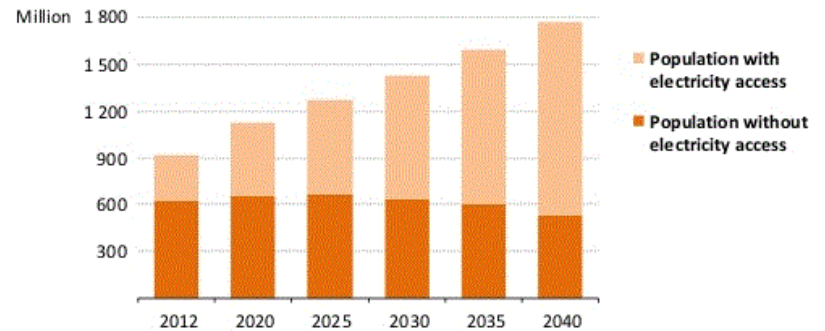
TIMELINE

# THE ENERGY ACCESS GAP

Share of population without electricity access



Future access situation: BAU scenario



- Huge implications on human well-being, employment and prospects for sustainable development

# IMPORTANCE OF ENERGY FOR AGRICULTURE AND FOOD

Agricultural sector

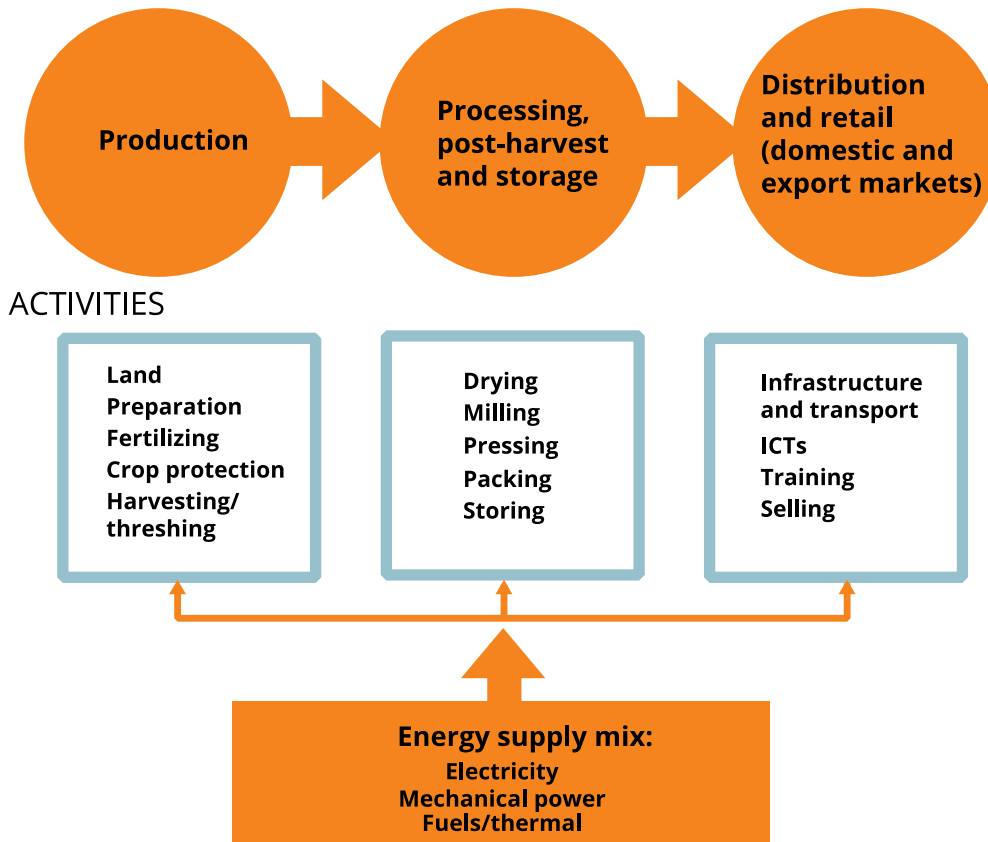
- 60% employment
- 19% value added
- 40% hard currency earnings

...energy-related limitations

- Minimal mechanization
- Low productivity

Designation	Africa	Latin America	Europe	World
Tractors	523,917	1,765,242	10,737,469	25,530,184
Agricultural workers/tractor	394	24	3	51
Hectares/tractor	2,113	67	45	187

# IMPORTANCE OF ENERGY FOR AGRICULTURE

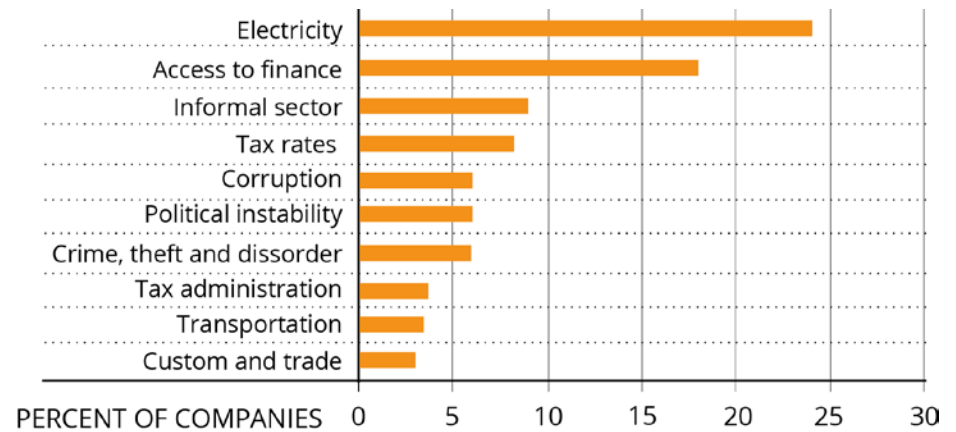
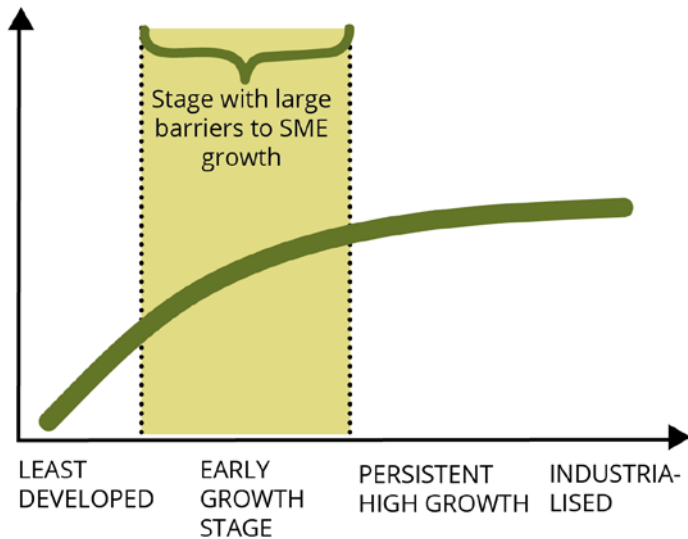


# THE IMPORTANCE OF ENERGY FOR MSMEs

SME sector potential

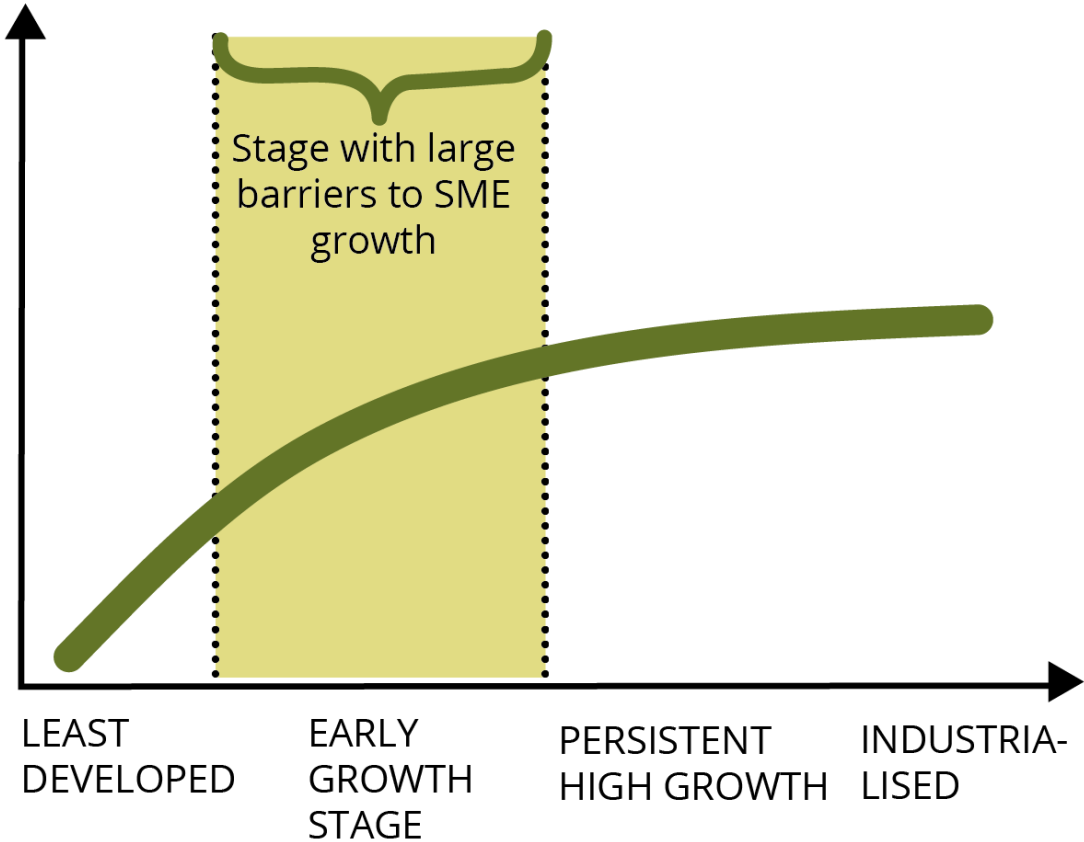
...energy-related limitations

THE ROLE OF SMEs IN ECONOMIC GROWTH



# IMPORTANCE OF ENERGY FOR MSMEs

THE ROLE OF SMEs IN ECONOMIC GROWTH





# RESOURCES, TECHNOLOGY, EXPERIENCE

The African continent has:

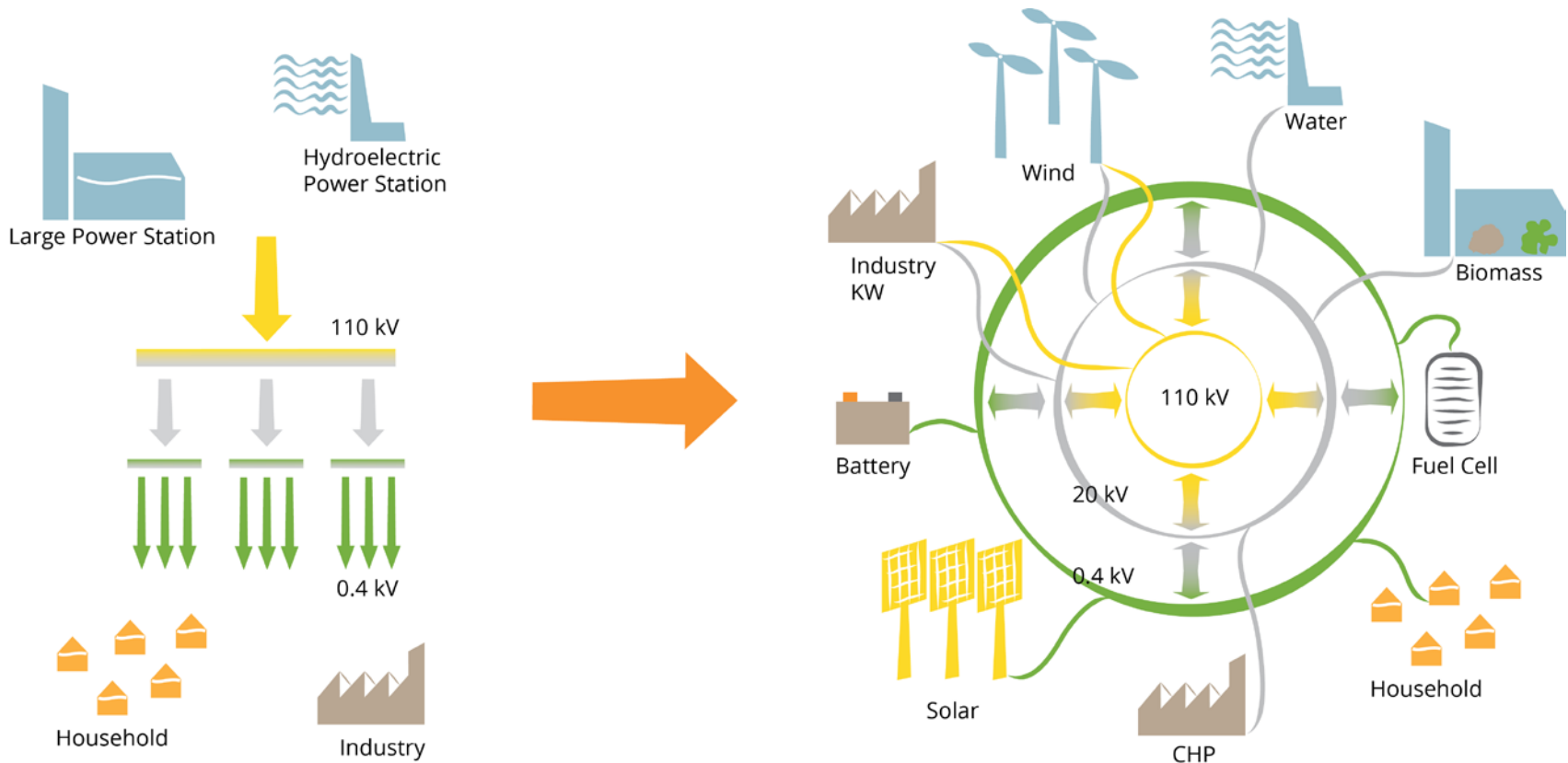
Immense RE  
resources:  
solar,  
geothermal,  
wind, small  
hydro

Access to  
lower cost,  
more mature RE  
technologies

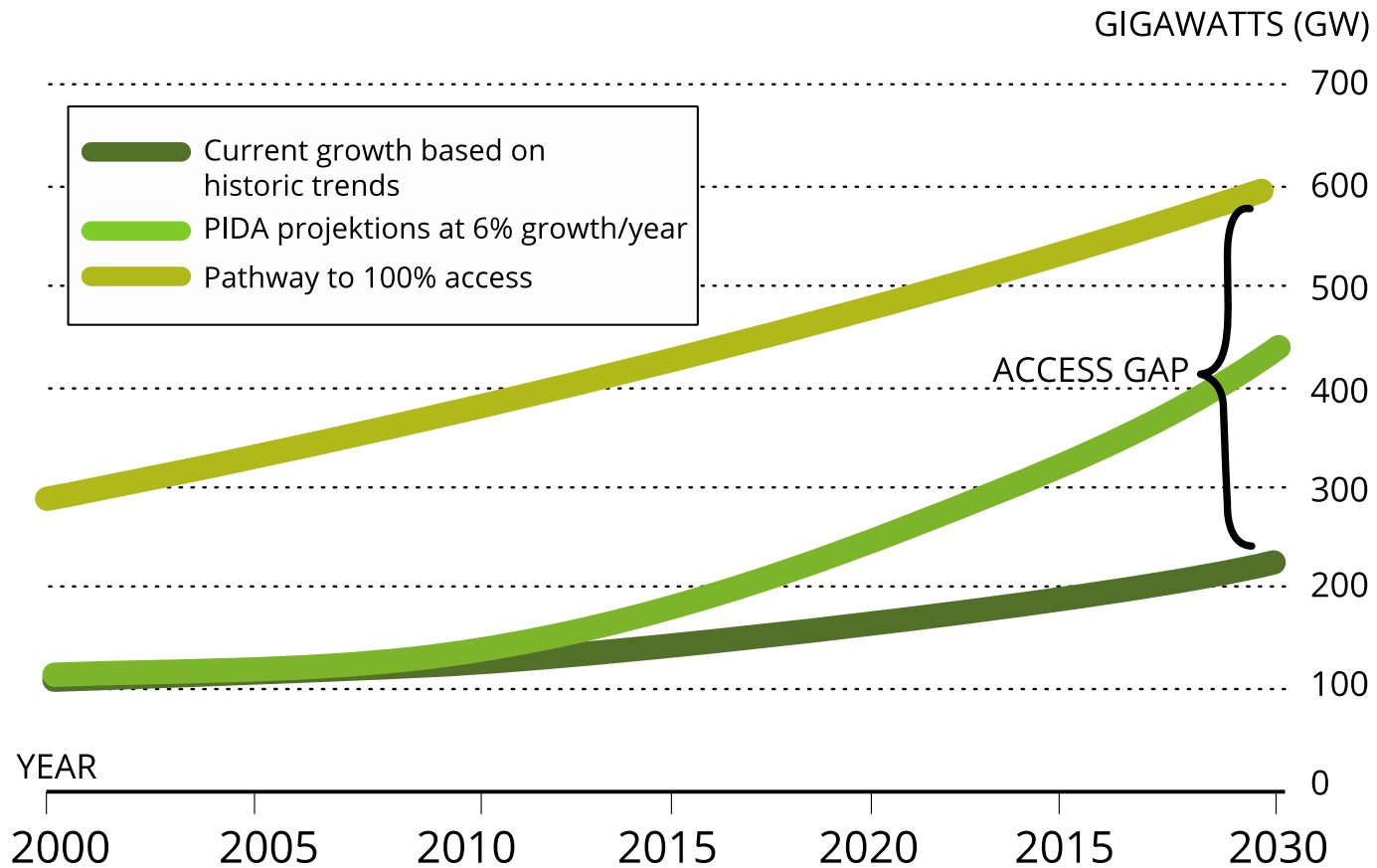
Growing  
experience  
in RE  
deployment

*A renewable energy "rich" energy  
development path for Africa is entirely  
feasible!*

# DISTRIBUTED, DECENTRALISED, PEOPLE-CENTERED ENERGY SYSTEMS OF THE FUTURE



# A HUGE ENERGY ACCESS GAP



# AREI

## GOALS AND PRINCIPLES

# GOALS

ENERGY ACCESS...

help achieve the Sustainable Development Goals, enhanced well-being, and sound economic development by *ensuring universal access to sufficient amounts of clean, appropriate and affordable energy*

...CLIMATE

help African countries leapfrog towards renewable energy systems that support their *low-carbon development strategies while enhancing economic and energy security*

# EXPECTED TRANSITION

ACROSS THE CONTINENT...

*At least 300 GW  
by 2030 of new  
and additional  
installed capacity  
with an initial 10  
GW by 2020*



MORE SPECIFICALLY

- Increase **absolute number of users** connected to the national grids or new mini-grids
- Increase **absolute share of RE** of energy consumption in productive sectors: agriculture, industry, and services
- Increase in the share of **local/African firms** providing RE equipment & supply on the continent

# GUIDING PRINCIPLES

Contributing to  
achieving SD in  
Africa

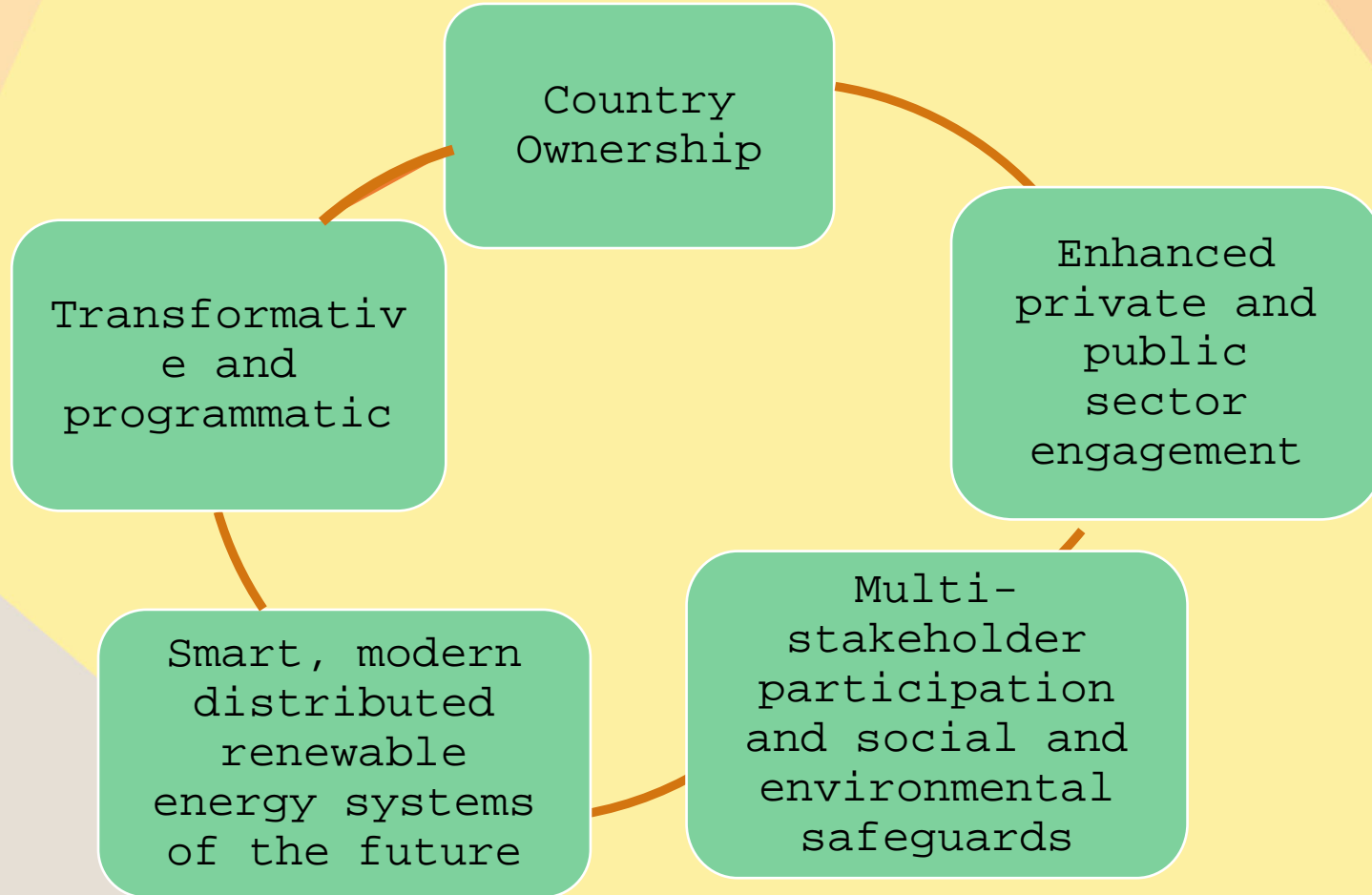
Promoting the full  
range of renewable  
electricity  
applications, as  
well as non-  
electrical forms of  
energy

Addressing  
the entire  
African  
continent  
and benefit  
all African  
countries.

Promoting all  
kinds of  
renewable energy  
technologies

Boosting  
intra-regional  
cooperation

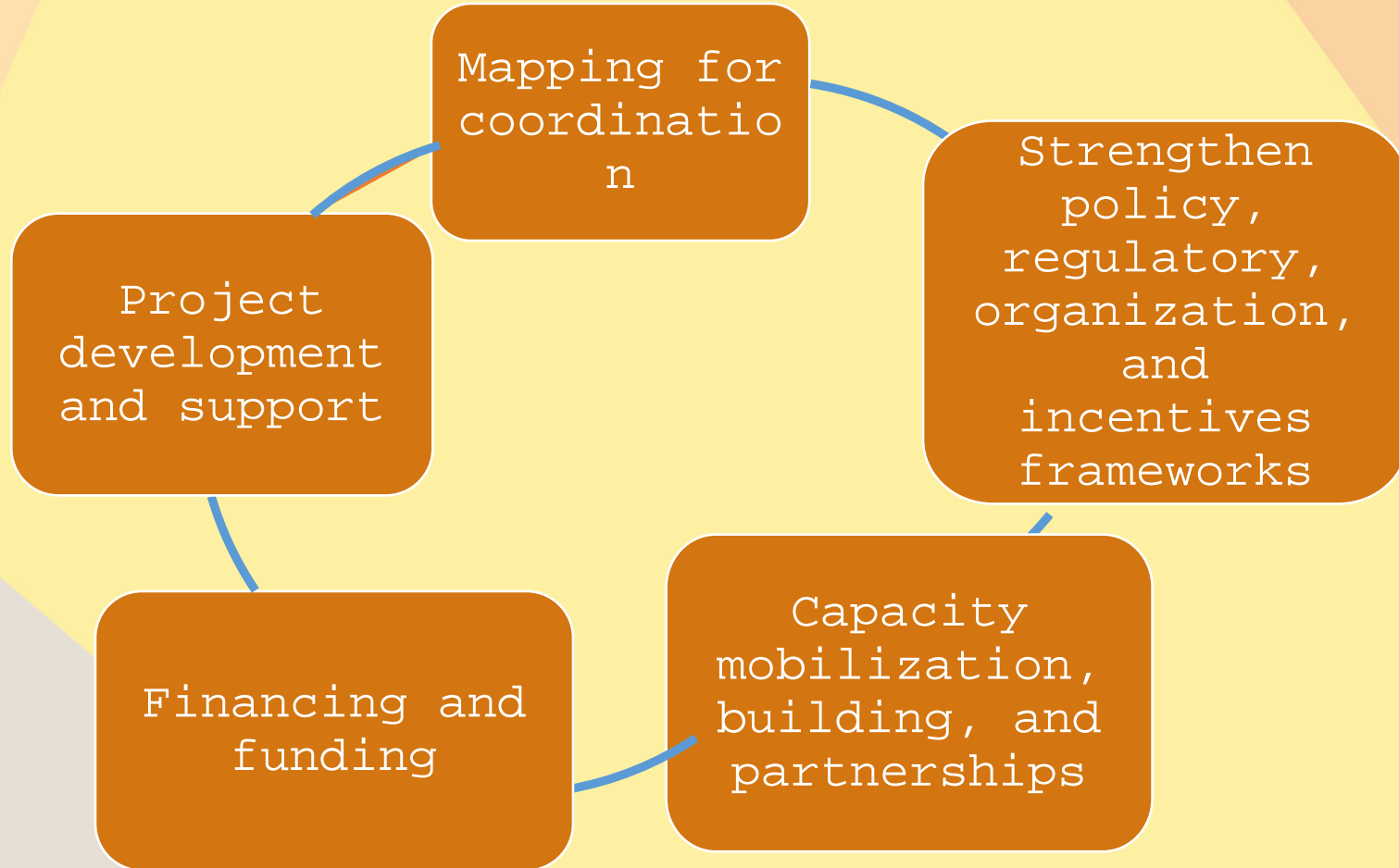
# KEY PRECEPTS





# KEY DRIVERS FOR TRANSFORMATION

# TRANSFORMATIVE CORE WORK AREAS



# TRANSFORMATIVE CROSS-CUTTING WORK AREAS

Work Area 6  
**Socio-Economic  
and  
Environmental  
Technology  
Assessment**

Work Area 7  
**Multi-  
stakeholder  
Engagement**

Work Area 8  
**Wider context  
monitoring**

Work Area 9  
**Communica-  
tions and  
Outreach**

# GOVERNANCE

- Board of Directors
  - At the level of Heads of State and Government (9 members with 7 African)
- Technical Committee
  - Composed of high-level experts with proven experience in relevant issues
- Independent Delivery Unit
  - Housed at AfDB but independent
- African Development Bank as Trustee

# TIMELINE

The Action Plan envisages a three-phase implementation process:

- The ***immediate establishment phase (2016-17)***: Formal implementation of the AREI, including establishment of the Independent Delivery Unit (IDU).
- ***Phase I (2017-2020)***: Assessments, preparations and critical enabling activities at the continental African level as well as in a number of pioneering countries, setting the basis for enhanced acceleration in phase II. Enabling of appropriate RE projects already in the pipeline. Achievement of at least 10 GW new and additional generation capacity.
- ***Phase II (2020-2030)***: Ambitious ,full-scale roll-out of nationally determined policies, programs and incentives as initiated under Phase I. Continuous assessments and revisions for further scaling up. Achievement of at least 300 GW new and additional generation capacity.

# SUCCESS FACTOR OF AREI

- Country commitment is fundamental
- Bottom-up thinking solves real challenges
- Active engagement of multiple stakeholders for embedding energy in society and productive sectors
- Pipeline projects from the countries based on their assessment of needs and conditions
- Phase 1 success will depend on how well the establishment phase is developed; and phase 2 is dependent on the quality of earlier phases as building blocks for transformational pathways.

# AREI STRENGTHS

- Strong Political Will with Clear Vision
- Required Institutional Innovation to Deliver the Vision
- Linkage of Short Term and Long Term Goals and Imperatives
- AREI development has gone through a consultative process and it seeks to work collaboratively with partners

THANK YOU!



Download brochure, summary, framework,  
action plan, criteria, at

[www.arei.org](http://www.arei.org)

**AREI**

