

# Africa Forward

in **Sunshine** or **Rain**

# Dissecting Africa

We distinguish **North/South**, **East/West**,  
**Low/Middle** Income Africa

Why not **Sunny/Rainy**, **Dry/Wet**,  
**Desert/Forest**(/Ocean/Wind), or  
**Solar/Carbon** Africa?

A “natural” view of Africa...

Useful framework for other regions?

# Awash in misery and opportunity

- Energy-poor and culture- and biodiversity-rich, with high climate vulnerability (wet and dry)
- **World's best solar radiation** in Northern+Southern deserts > solar farms?
- Ecological creditor turned debtor
- **50% of world's forests lost** (1990-2005) in desperation
- In common for both (also for mitigation + adaptation perspectives): **agriculture, electricity**

Evolution/leap-frog: *solar/carbon agriculture and smart energy networks*

World Bank: Africa can save more carbon than it emits and **the world needs a carbon creditor!**

# Simplifying a complex issue

Two key solutions:

- **Renewable energy** (grid and non-grid) to provide much-needed access to energy, enabling rural and economic development; and
- **Land-based carbon** (avoided deforestation, restoration and holistic agriculture) protects existing, natural carbon stores *and* resiliency. Healthy landscapes are resilient.

# Risks in Trade

- Competitiveness? SA=Saudi Arabia in Africa
- 40% of SA emissions are export-related
- Border tax adjustments?
- Wine/fruit export industry first affected (by carbon supply-chain activism *and* climate change)
- Aluminium from coal or hydro? (or solar...)
- Tourism? SA is one of the single most carbon-inefficient destinations for global travel/events...

# Opportunities in Trade

- WTO EGS: RE is not dual-use, component imports are nett positive for jobs.
- CDM (in LDC's): automatically additional
- RE targets/FIT/subs are SD-PAM's
- IPR and tech transfer debate: too much competition in RE to make IPR exclusive. >> carbon is localized, as is the knowledge of how to protect it.
- Regional electricity trade

# Implications in domestic policy/enabling environment

- RE and carbon needs not just trade support, but also a **price guarantee** (Feed-in Tariff, carbon tax).
- **Accessible finance** (during a global credit freeze). Low-interest loans, government/multi-lateral guarantees; and
- **Market access**: purchase obligation, interconnection, a regulated market.

# Examples in RE

- SA Solar Waterheater and wind turbine imports from China (15% tariff)
- CSP and PV in SA: local innovation meets international experience.
- CSP: Desertec, mines
- African RE Supergrid? Inga...
- Key countries: **DRC** (hydro, forest), **Rep. of Congo, Cameroon, Uganda, Tanzania, Madagascar** (forest), **Algeria, Egypt, SA, Botswana, Namibia** (solar)...