



Creating Bioenergy Markets and the Africa Biomass Data Challenge

IRENA BIOENERGY SESSION

18 January 2018

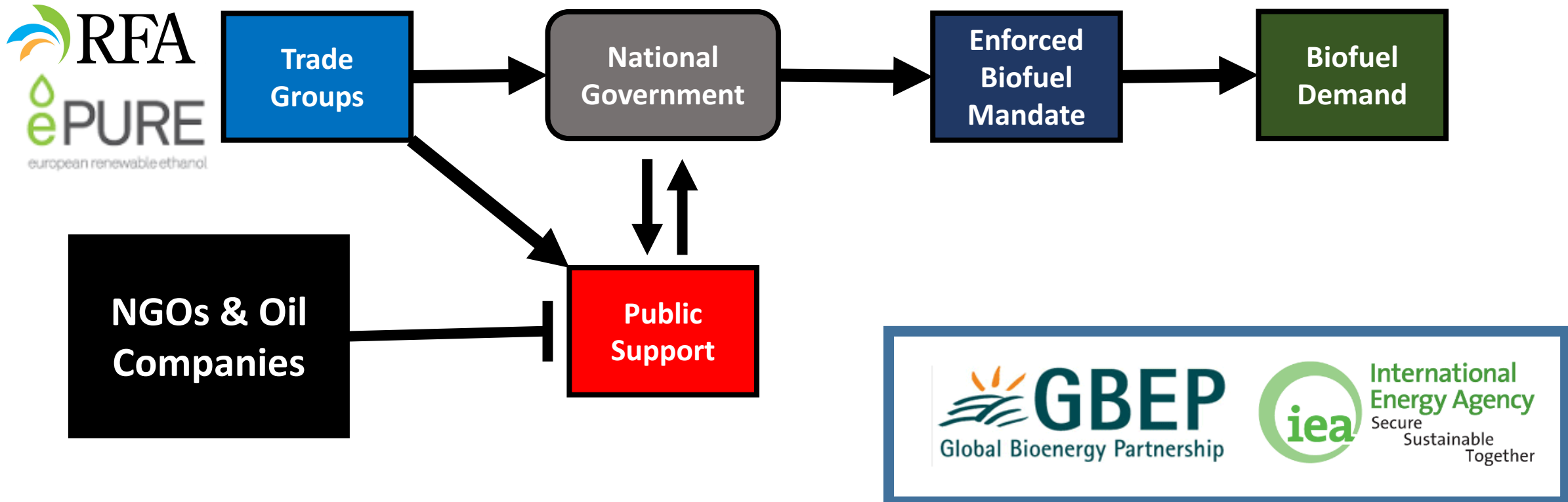
Gerard J. Ostheimer, Ph.D.

Global Lead for Sustainable Bioenergy

Sustainable Energy for All

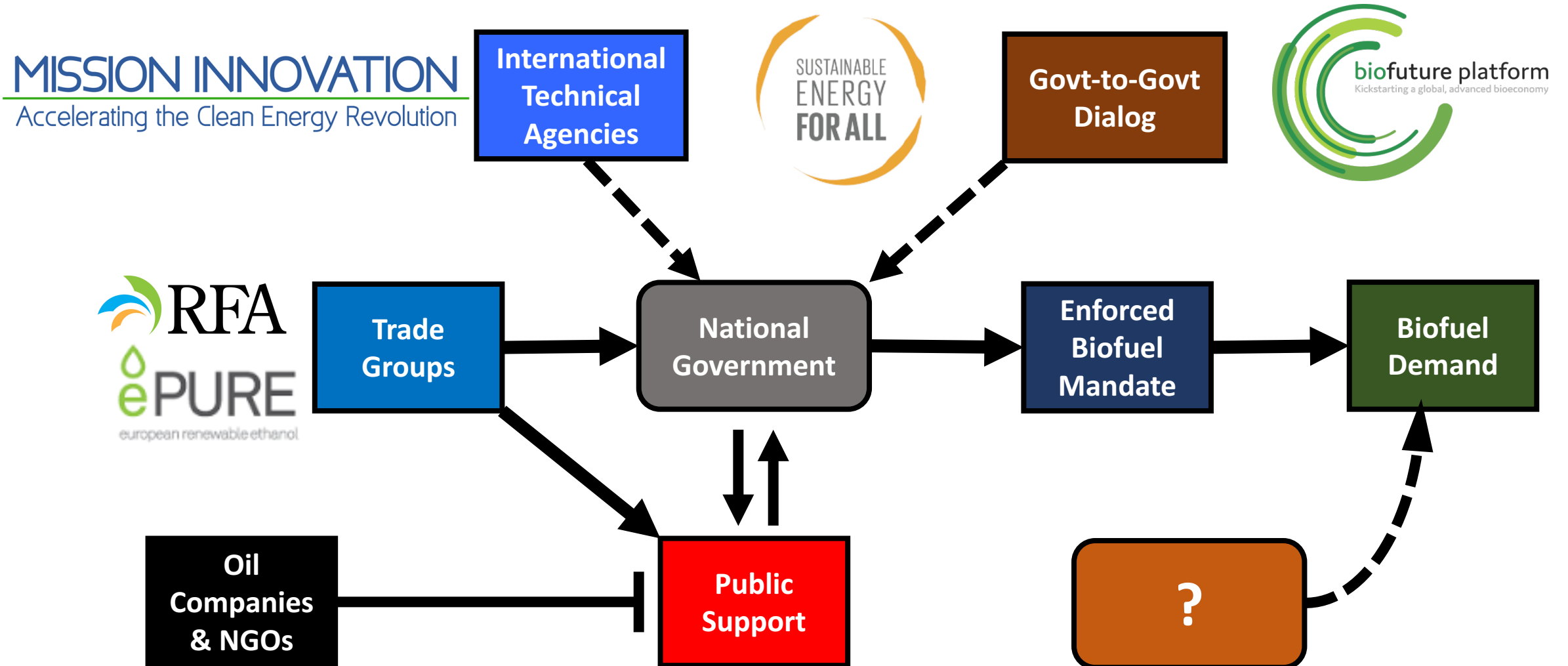
Biofuels Ecosystem from 2008 to 2015

- Demand was entirely policy driven.
- Producers and trade groups were the primary policy advocates.
- The international RE policy environment was typically hostile to biofuels from NGO input.
- The work of International Technical Agencies was **NOT** well connected to national policies.



New International Organizations are working to grow the Global Bioeconomy

- Better policies and R&D can facilitate supply.
- How can we grow robust demand not dependent on government mandates?
- How can we truly unleash market forces to drive innovation?





Sustainable Bioenergy Accelerator: Partnering for Growth

The Accelerator supports SEforAll and thru

- Knowledge enhancement and information sharing;
- Policy and sustainability support; and
- Deployment support.

The Group fosters **Public-Private Partnerships** that will encourage the sustainable production and use of

- Biopower from Agriculture Residues and Municipal Solid Waste;
- On-farm bioenergy for increased Agricultural Productivity; and
- Low Carbon Fuels for Aviation and Road Transport.

Novozymes created and has sponsored the Sustainable Bioenergy Accelerator to meet the goals of SEforALL.



IRENA BIOENERGY

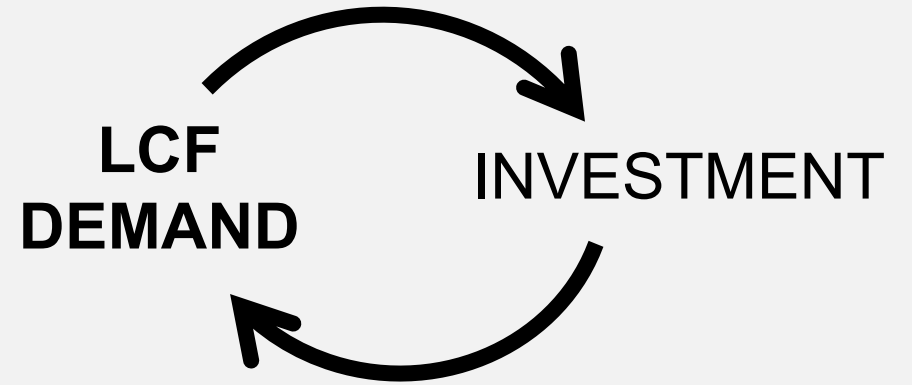
18 January 2018

below50 – Growing the Global Market for the World’s Most Sustainable Fuels

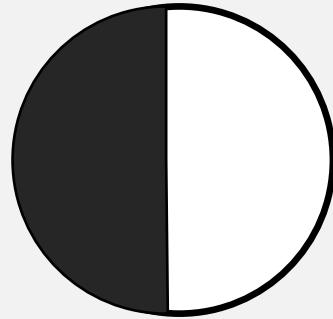


+  **wbcasd**
PRIVATE

PUBLIC



below50 fuels



Less than ½ CO2 emissions of fossil fuels



cebds



**Port of
Rotterdam**



below50 – Enabling the uptake of Low Carbon Fuels

- Convert the **global momentum on climate action** into national level policies, i.e. link Low Carbon Fuels to the NDCs
- Create cross-sectoral **B2B opportunities in new & mature markets** throughout the *entire* LCF value chain
- Create demand for below50 fuels by **recruiting corporate fuel buyers**



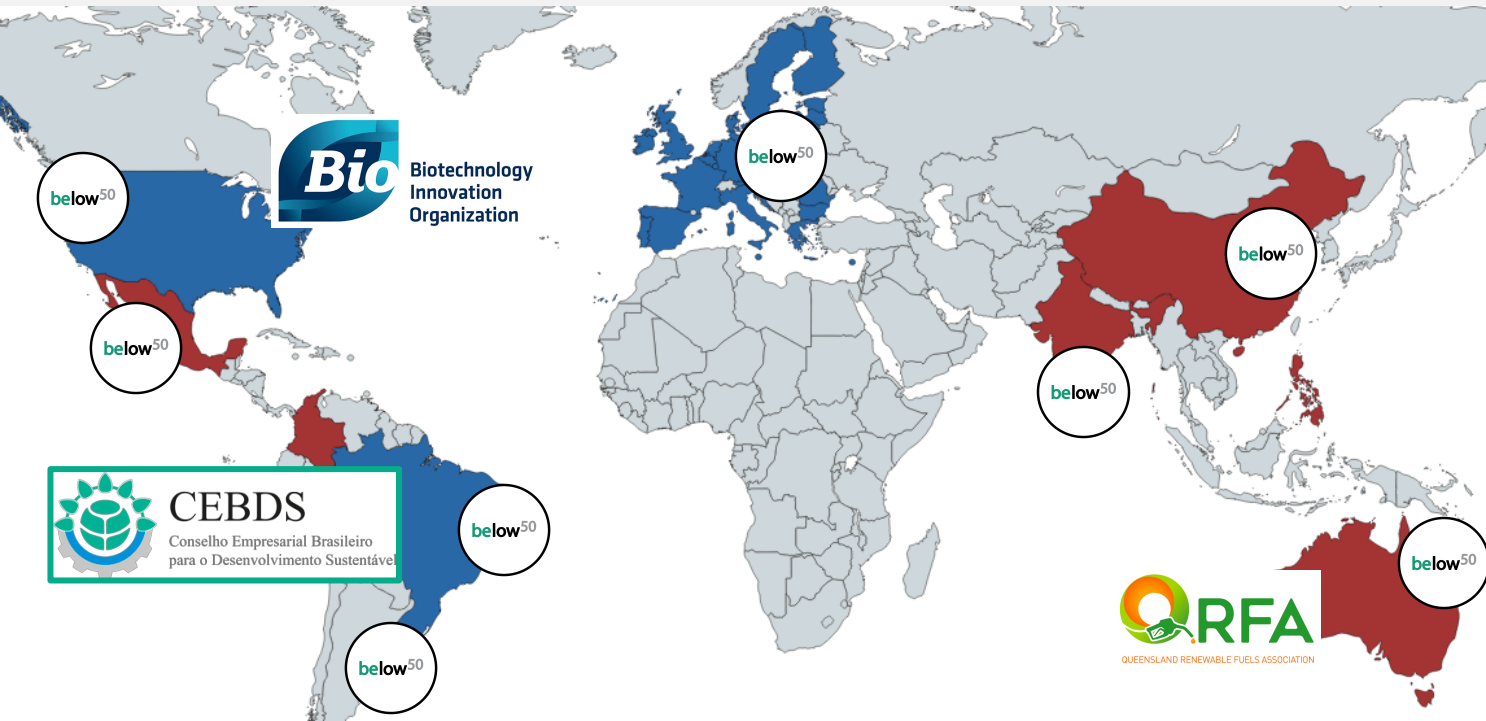
Movement



Action



- Establishing regional and national hubs
- Creating demand within national context



- ### 2017 Wins
- Launched below50 Australia, below50 Brazil & below50 North America
 - Australia membership growing rapidly
 - Strong partnership with Biofuture Platform, IEA, IRENA and Biofuels Digest
- ### 2018 Goals
- Launch below50 Argentina, below50 China and below50 Mexico
 - Deliver corporate LCF procurement guide
 - With WMB deliver "all of company" solutions for de-carbonizing business operations
 - With SkyNRG recruit 20+ corporate buyers to below50
 - With CA LCFC, enable SAF for SFO
 - Strong presence at CA Climate Summit, ABLC Next and COP24



below50 is recruiting leading corporates to commit to low carbon fuels

wbcsd Membership



below50 – Leveraging business climate commitments to drive LCF demand

WE MEAN BUSINESS

RE EP EV

100

100

100



THE CLIMATE GROUP



Below50 can augment the upstream work of the Biofuture Platform and the MI-SBIC by fostering corporate demand for its low carbon products

MISSION INNOVATION
Accelerating the Clean Energy Revolution

International
Technical
Agencies



Govt-to-Govt
Dialog



Trade
Groups

National
Government

Enforced
Biofuel
Mandate

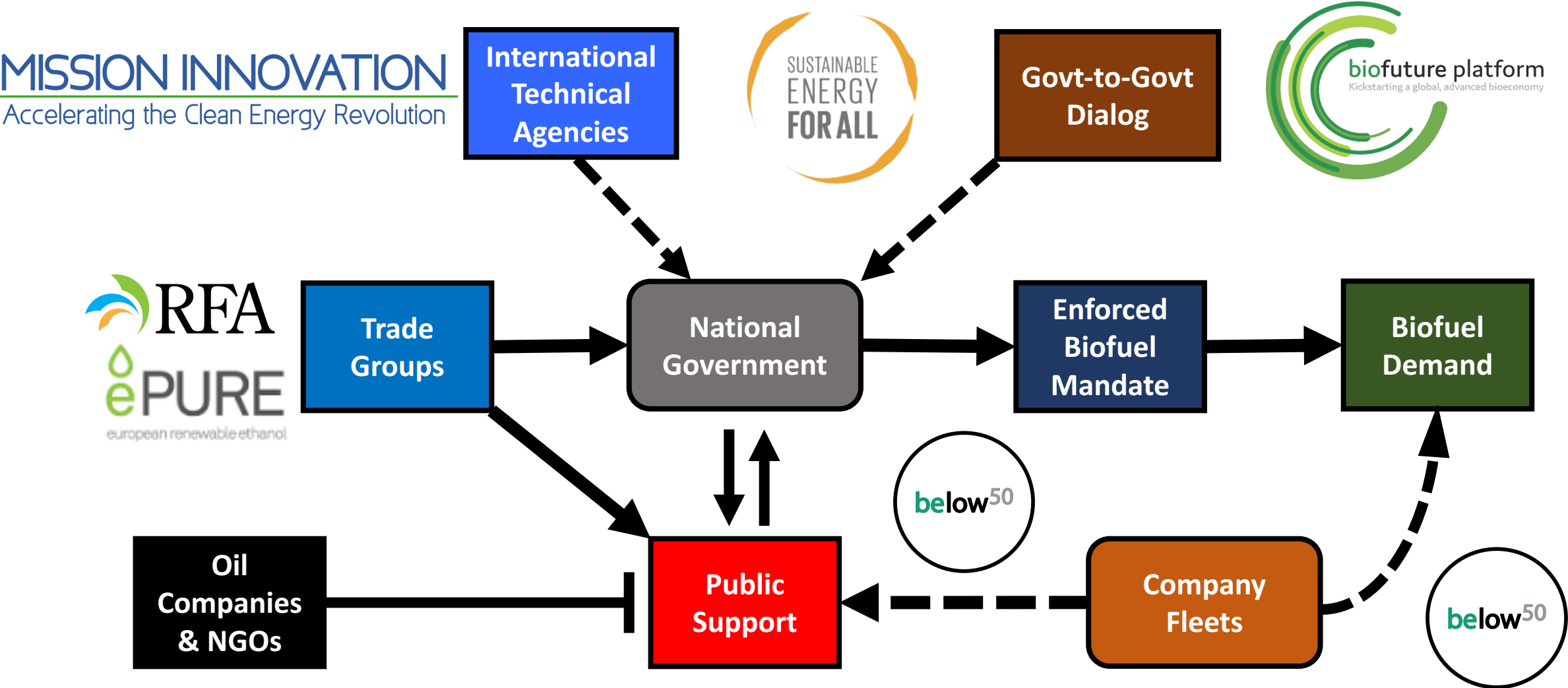
Biofuel
Demand

Oil
Companies
& NGOs

Public
Support



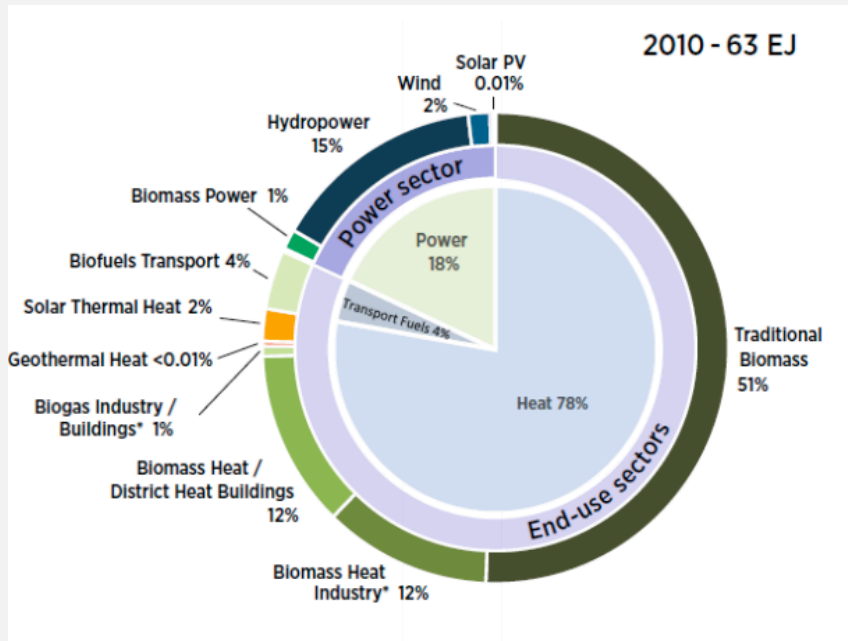
Company
Fleets



Africa Biomass Data Initiative (ABDI)

CHALLENGE

Data sources for biomass use for energy are sparse and uncoordinated.



“Traditional Biomass” use is a rough estimate.

PROBLEM

Not knowing current biomass use and the potential for bioenergy results in

- 1) Environmental degradation &
- 2) Missed economic opportunity.

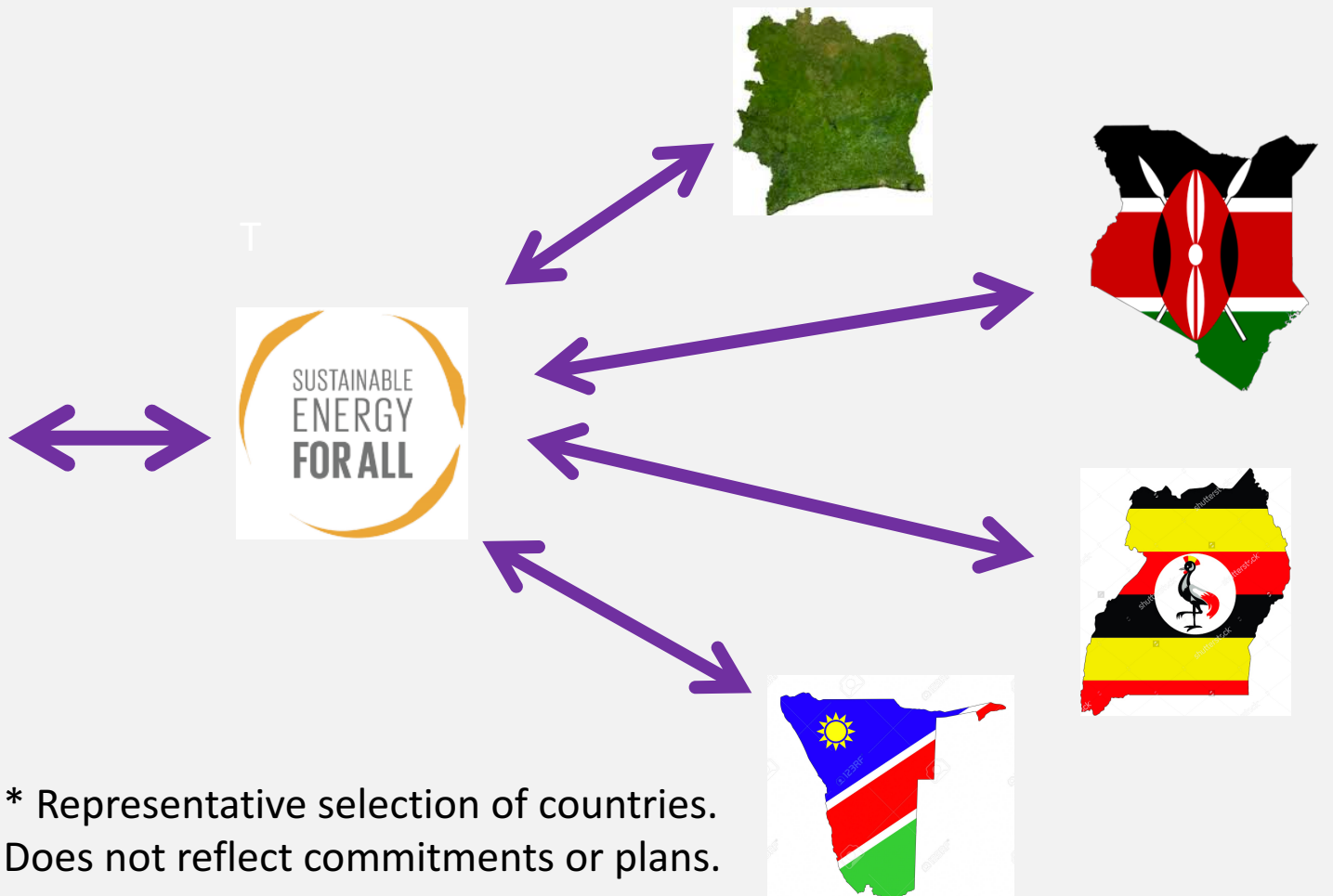


Several regions of SSA should be engines of the global bioeconomy.



African Biomass Data Initiative

GOAL: Leverage SEforALL's convening power to drive capacity building for biomass data acquisition, analysis and use in policy making at the national level*.



* Representative selection of countries. Does not reflect commitments or plans.



ABDI Proposed Outline of Activities

- Inventory of existing data sources and identification of data gaps;
- Evaluate biomass energy data challenges in Africa and how they are affecting energy sector management and performance on the continent and the global energy agenda in general;
- Assess of human, financial and institutional capacity constraints and the response needed to facilitate reliable data collection and dissemination; &
- Estimate and find the resources to launch a project that will fill these data gaps and explore options to secure such resources.

Gerard J. Ostheimer, Ph.D.

SEforAll Sustainable Bioenergy Partnership

Global Lead and Secretariat

GEOE@novozymes.com

below50

Senior Advisor

ostheimer@wbcSD.org



below50.org

below, bescience, bebetter, beinnovation