(1) ENERGY IS A VALUE CHAIN

1.1 PRIMARY ENERGIES
renewables < = > fossile sources < = > nuclear fission

2.2 SECONDARY ENERGIES
electricity - hydrogen

2.3 INFRASTRUCTURES: ELECTRIC GRID SYSTEM
production – transmission – distribution – retail
• decentralised (« small is beautiful » - rural areas)
< = > centralised (« big is ugly » - urban areas and big industry)

2.4 ENERGY SERVICES (heating, cooking, domestic, industry)

Conclusion : go for energy mix (secure, affordable, sustainable)

ANY INITIATIVE SHOULD BE END-USER DRIVEN (services !)
TAKE AWAY MESSAGES (2/3)

(2) « RESEARCH and INNOVATION »

in ENERGY and DEVELOPMENT

+ « EDUCATION and TRAINING »
  (MOOC, doctoral, master-after-master, etc)

+ « STANDARDS and REGULATIONS »

+ « ENABLING ENVIRONMENT »

Role of public versus private sector

NB: Africa is ahead in daily life digitalisation e.g. « pay as you go »
TAKE AWAY MESSAGES (3/3)

(3) FOLLOW-UP OF THIS EVENT

The ball is in your camp! Next event in Africa?

**Bottom-up initiatives** (preferred at the beginning):

- Collection of qualified data (as opposed to « political data »)
- Public consultation on energy strategy (questions regarding security, affordability, sustainability)
- Join existing associations or create new ones (e.g. Ingénieux-Sud, Ingénieurs sans Frontières, etc)