

# Overcoming policy and regulatory challenges to NREN development

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UbuntuNet - Connect 2009:



#### Outline

- Research ICT Africa!
- Factors influencing the development of R&E Networks
- How the factors (are supposed to) come together
- In reality ...
- Development in spite of, despite ...

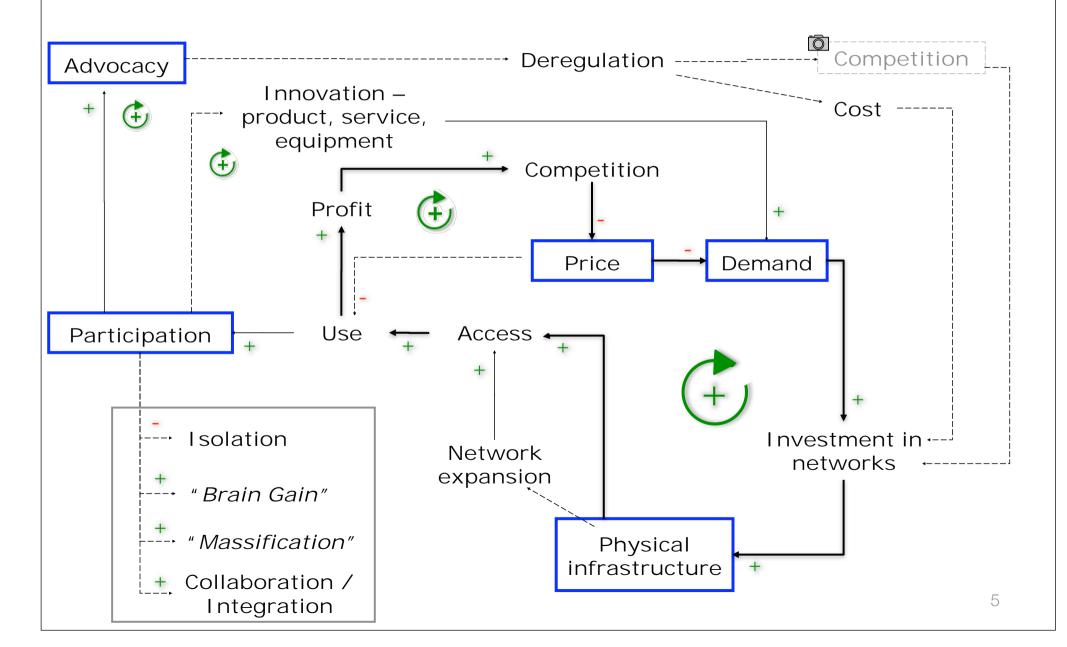
#### Research ICT Africa!

- Network of researchers conducting ICT policy and regulatory research in 20 African countries across the continent in the absence of data and analysis required for evidence based policy
- Policy research based on series of supply and demand side research undertaken by the network which is triangulated with a telecommunications regulatory environment perception survey
- Series of policy papers that provide decision-makers with an assessment of policy performance, provide oversight and identify points of intervention

# Factors influencing the development of R&E Networks

- Physical infrastructure: specifically relating to connectivity
  - Communications infrastructure
  - Power infrastructure/Supply
- Pricing & demand: that influence both access to and use of infrastructure, and the services that are offered to R&E communities
- Participation & coordination: including development of, and engagement between research and education communities
- Advocacy: raising awareness of the importance of R&E networking to Africa's development
  - Amongst the various levels and types of policy & decision makers
  - Reflected in relevant documents (National ICT Policies etc.)

### How the factors come together



#### In reality ...

Policy Paper: ICT Access and Usage in Africa 2008

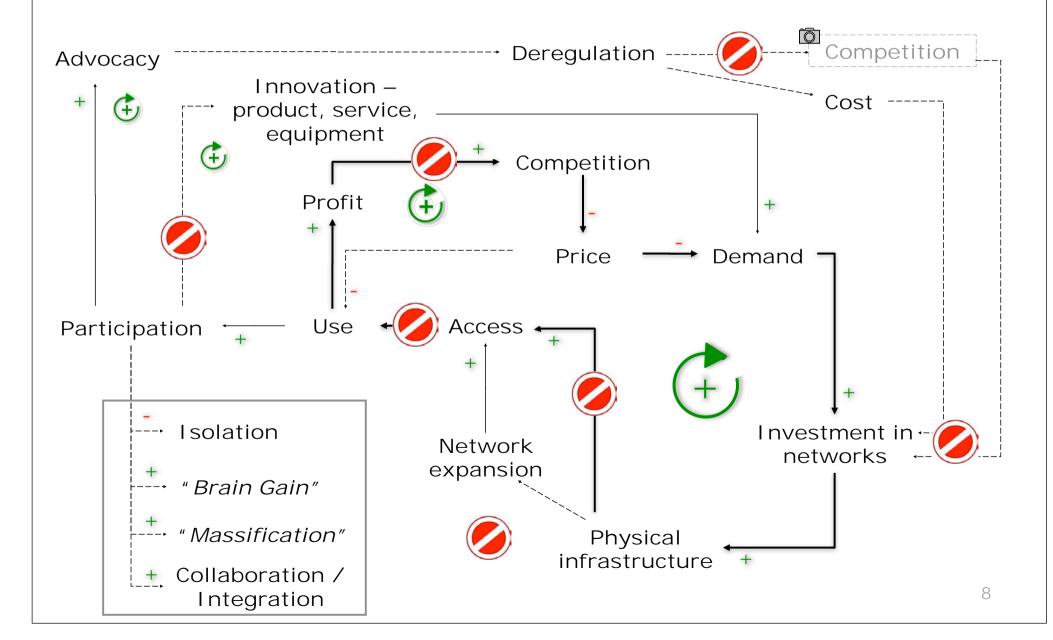
- Reform of telecoms' markets has been uneven
  - inequality and exclusion remain key characteristics of most markets
  - introduction of competition has been limited
  - some markets have not been fundamentally restructured
- Highly imperfect markets
  - dominant players extract monopoly rents
  - duopolies and oligopolies engage in price matching rather than competition

#### In reality ...

Policy Paper: ICT Access and Usage in Africa 2008

- "...failure to establish working markets"
  - behaviour of operators sometimes unchecked by regulators
  - some national/sectoral policies contribute to high prices (e.g. Retrogressive taxes on equipment and services)
- High regulatory risk/uncertainty
  - lack of capacity in regulatory agencies
  - existence of institutional arrangements that constrain autonomy of regulatory agencies
  - administrative processes not always transparent and participatory

#### In reality ...



## In spite of, and despite ...

Factor	Strategy
Physical infrastructure	Strategies that acknowledge that transmission routes are in the hands of a relatively small number of operators
Demand	Aggregate current demand (bandwidth) and create new demand: "not just about bandwidth"!
Pricing	<ol> <li>Use position as a significant market/customer segment in negotiation with operators.</li> <li>Adopt funding models that are conducive/</li> </ol>
Participation	<ol> <li>Build/reinforce trust relationships, and a culture of collaboration.</li> <li>Develop broader/wider range of services</li> </ol>
Advocacy	Use optimism of submarine cable project to promote NREN interest and influence discussions at national and regional levels

Thank You

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