

NREN Workshop

23 February 2007

Nairobi, Kenya

UbuntuNet's Thrust to connect to Géant



UbuntuNet Alliance

for Research and Education Networking

The idea

- Without waiting for broadband fibre connectivity...

Connect NRENs individual campuses to Géant using their existing Internet connectivity

– By “tunneling” through the Internet

- Only possible for NRENs and campuses that have their own routing identities (autonomous systems)
- *TENET’s Géant connection has worked this way since 2004.*



Advantages of early connection to Géant

- Immediate operational reward for preparation effort
- Actual service that UbuntuNet offers its member NRENs...
...and that NRENs offer to their institutions
- NRENs gain operational experience with BGP routing configuration and operations
- Makes each NREN part of the worldwide family of RENs

...and it works with VSATs too!

- In principle, tunnels can be configured through VSAT connections



Preparations: getting NRENs connectable

- Workshops and training events
 - *Explain and discuss development strategy*
 - *Training in inter-domain routing*
 - *Training in managing renumbering projects*
- Secure Internet network identities
 - *NRENs apply to AfriNIC to become LIRs*
 - *own ASN and IP address allocations*
 - *Renumber campus networks*

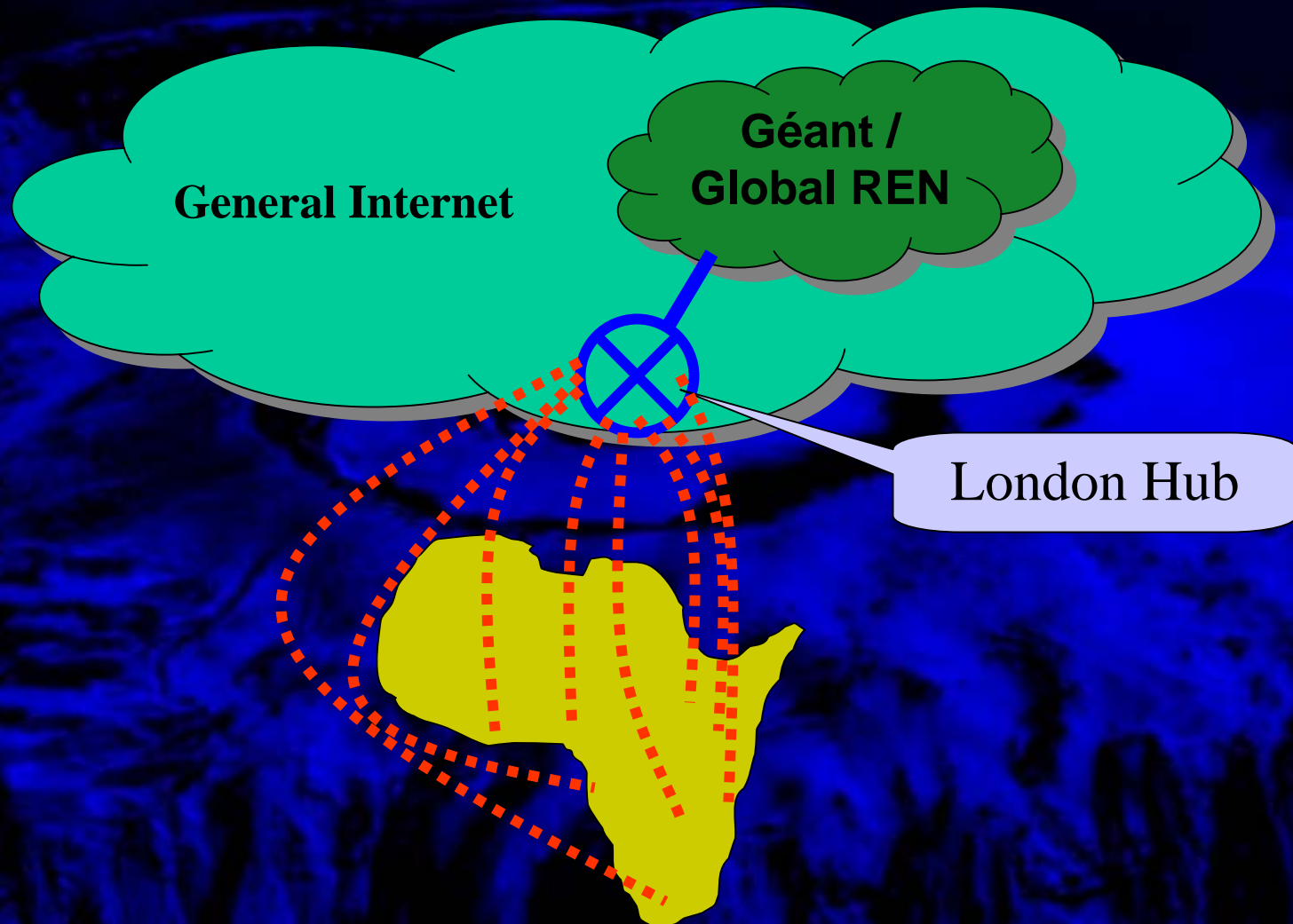
UbuntuNet's Hub in London

- *Géant Policy Committee has agreed to UbuntuNet's Géant connection !*
- Create UbuntuNet hub in London
 - *Procure router and colocation space in London*
 - *Procure ASN and IP addresses from Africa (for UbuntuNet's own use)*
 - *Establish connection to Géant (with DANTE)*

Connect the NRENs and campuses

- Connect connectable NRENs to the Hub
 - *Within IP layer, using tunnels*
 - *Routes announced*
 - *between NRENs and Hub; and*
 - *between Hub and Géant.*
- Expected early adopters
 - *KENET (AS 36914), MAREN, MoRENet, RENU, SUIN, TENET (AS 2018)*

The Hub and tunnels from Africa



Thanks for listening!



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