

# GHANA ACADEMIC RESEARCH NETWORK(GARNET) PROGRESS SO FAR

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Mumuni Dakubu  
VCG Person for moving GARNET Next step



# Outline of presentation

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- GARNET formed
- Membership
- On going processes
- Challenges
- The way forward

# GARNET

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- GARNET has been formed now
- Location for now UG (VCG office in Legon).  
Space at new NCTE being sought
- Physical Address is as that of VCG



# MEMBERSHIP FOR NOW

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- KNUST
- UCC
- UDS
- UEW
- UMAT
- UG

# On Going Processes (1)

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- The Governance structure is in progress
  - NGO
  - TRUSTEE (chosen)!
- Registration (will depend on choice of structure)
- Physical interconnectivity model
- Costs

# On going Processes(2)

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## □ GOVERNANCE

### ■ Board of Trustees

### ■ Membership

- Chair:- Current VCG Chairman/ or nominated by VCG
- All VCs in VCG
- One/two other members from outside the Public Universities

### ■ GARNET SECRETARIAT

- CEO
- Membership

### ■ The envisaged Secretariat and NOC under discussion.

# On Going Processes (3)

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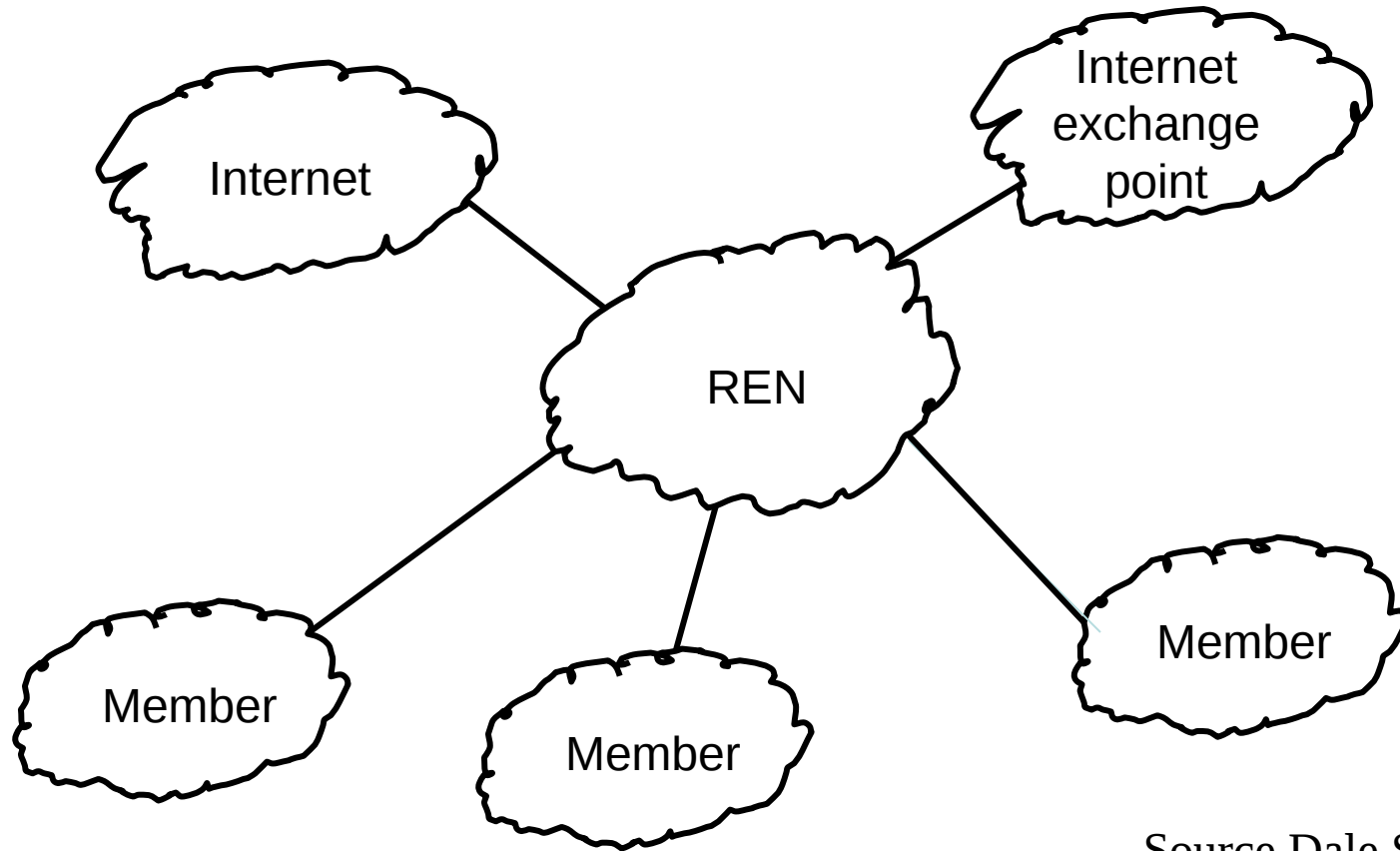
- Registration
  - Will depend on model (Trusteeship) after acceptance by VCG.
  - Then Account setup

# On Going Processes(4)

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- Interconnectivity
  - Model Chosen (scalable)
  - Awaiting final design and costs from NCBC
  - Requested quotations for 100Mbit/s and 10Mbit/s

# REN as Internet Service Provider

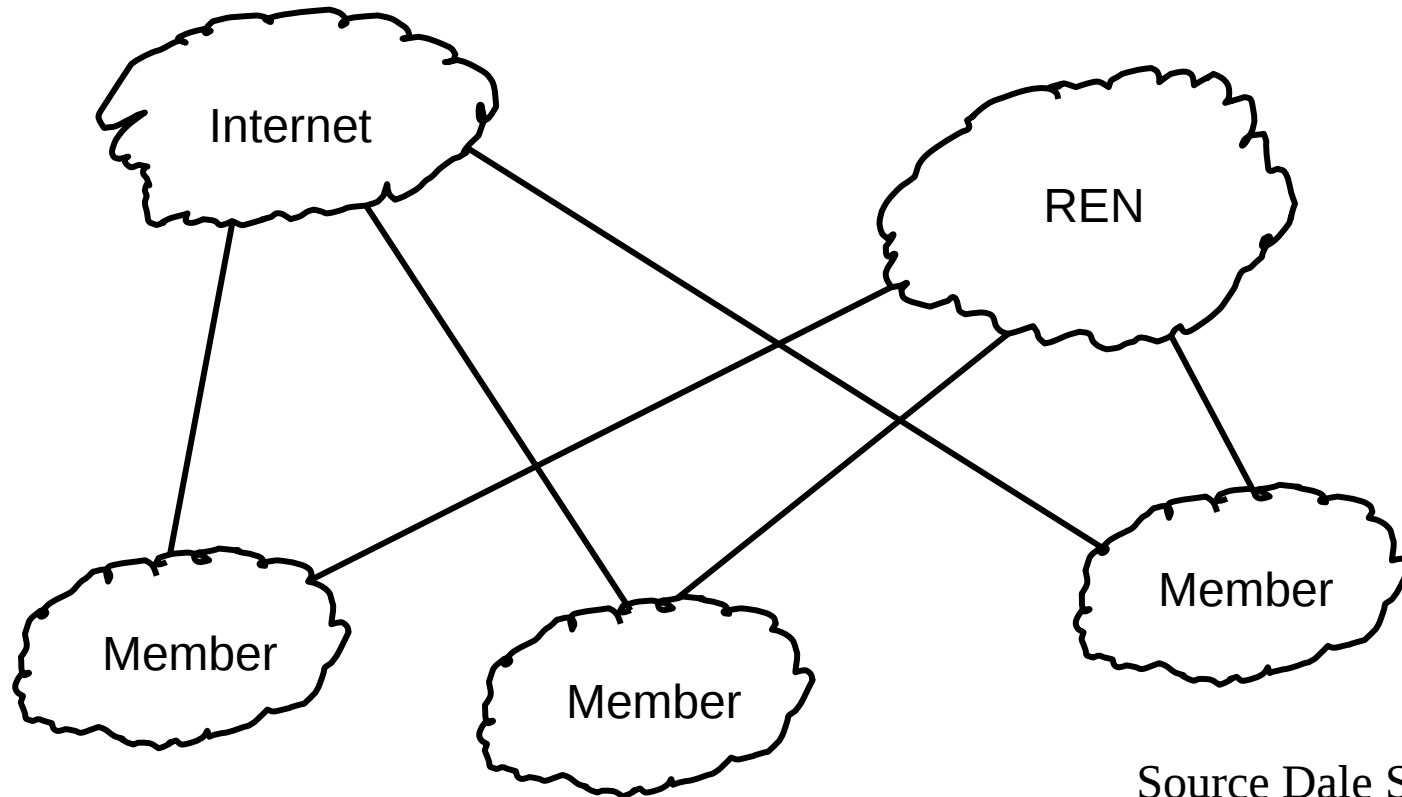


Source Dale Smith

Oregon

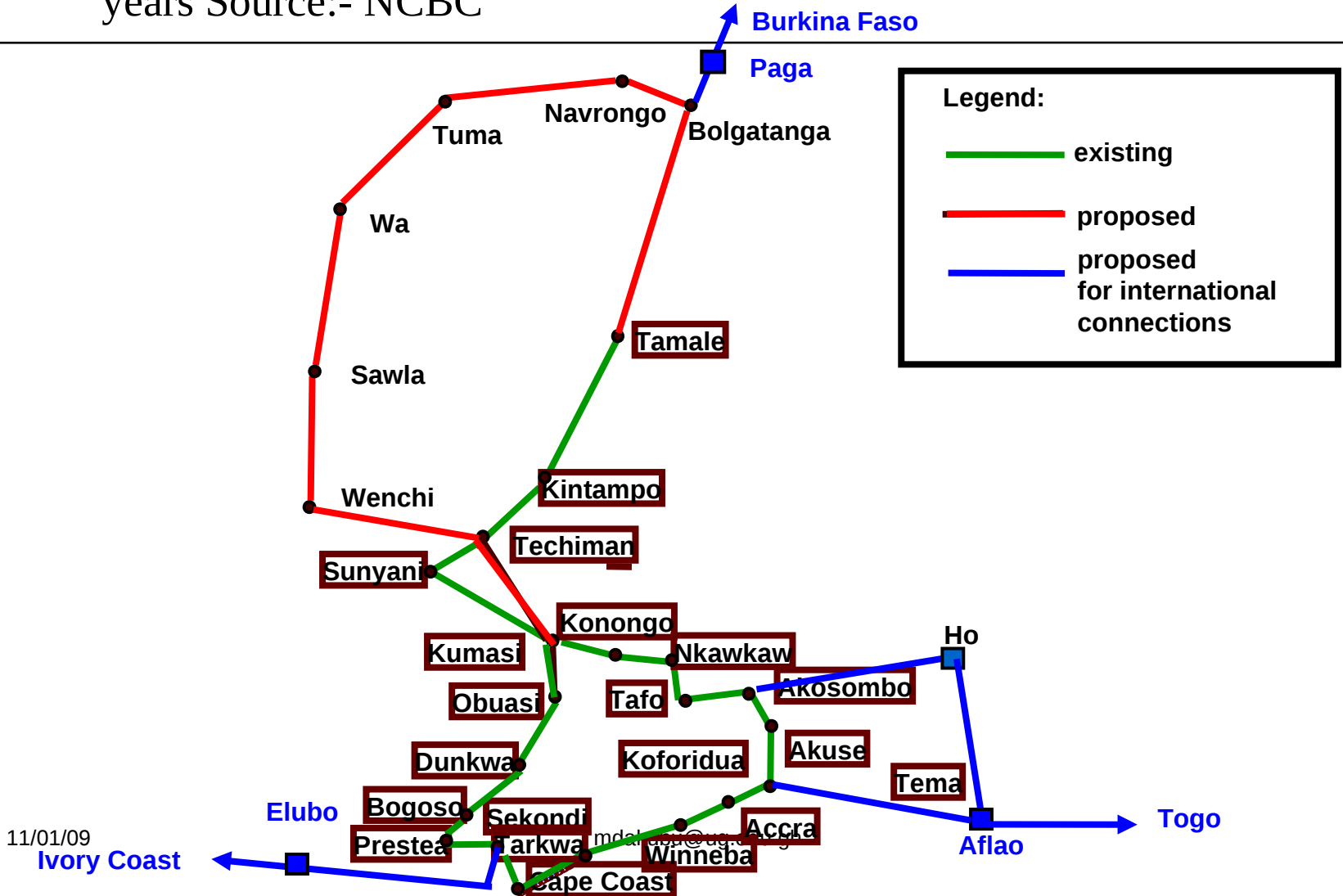
# REN as Peering Network

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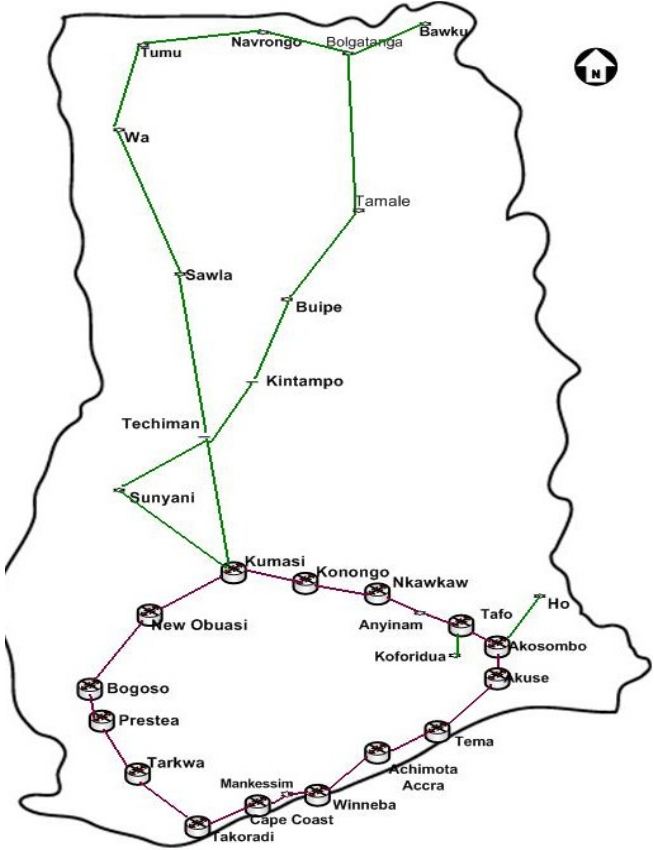


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Oregon

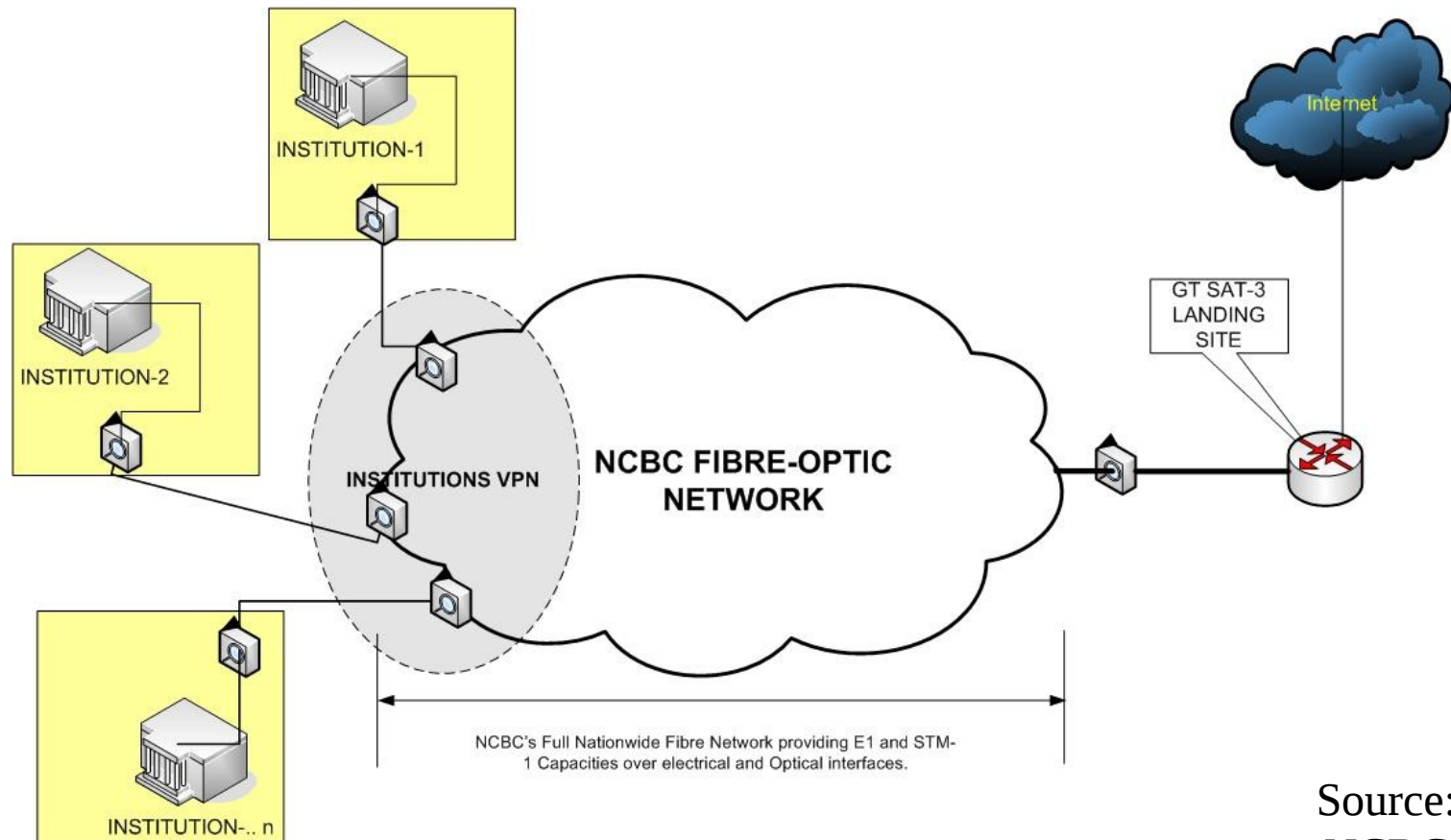
# Planned connections next 2 years Source:- NCBC



# New National Fibre Backbone



# INSTITUTIONAL CONNECTIVITY



Source:  
NCBC

# TYPES of Connections available

E1 (2MB)

100MB ethernet

1GB ethernet

STM-1

STM-4

Dark fibre an option to be negotiated



# Challenges facing GARNET

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- State of campus network, and policy.
- Human resource both quantity and quality
- Financial \*\*\* Start Fund
- Bandwidth issues (old problem)



# THE WAY FORWARD

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- ❑ BUILD SOLID CAMPUS NETWORKS
- ❑ GOVERNANCE
- ❑ BUILD NOC
- ❑ Pay attention to SAT-3 and GLOBACOM  
MainONE and WACS
- ❑ Develop critical manpower requirements

# Action Plan

No.	ACTION	RESPONSIBILITY	DURATION
1	Location of GARNET Office (Room) *	VCG Ghana	1 Month
2	GARNET physical Address	VCG	1 month
3	Account for GARNET	VCG	1 month
4	Task team meeting	M. Dakubu	1 month
5	Registration as NGO or Board of Trustees	Task Team/ M. Dakubu	2 months
6	Discussion with VODAPHONE/NCBC	Task Team/M Dakubu	2 months
7	AfrNIC IPs	Task Team/M Dakubu	3 months
8	Interconnectivity Model and Training with AfNOG, AriNIC and NRSC	Task Team (AfNog, AriNIC and NRSC) Frenia NCBC	4-6 Months
9	Funding/Budget	Task Team /M Dakubu	1- 4 months
	Identifying ISPs and Negotiation for bandwidth	Task Team	1-6 Months
5	Formation Committees within GARNET: eg- Network Structure, Funding, Library Resources, E-Learning and Research	Task Team	1-6 Months
6	Expansion of Membership	mdakubu@ug.edu.gh	Within 6 Months

THANK YOU FOR  
YOUR ATTENTION

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