



Workshop on Satellites in IP and Multimedia

Geneva, 9-11 December 2002

« Overview of the ITU-D satellite activities focusing on IP issues in Developing Countries »

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Table of Contents

1. ITU-D Istanbul Action Plan (2003-2006)
2. Challenges of Change
3. IP satellite and Connectivity in Developing Countries
4. Conclusion



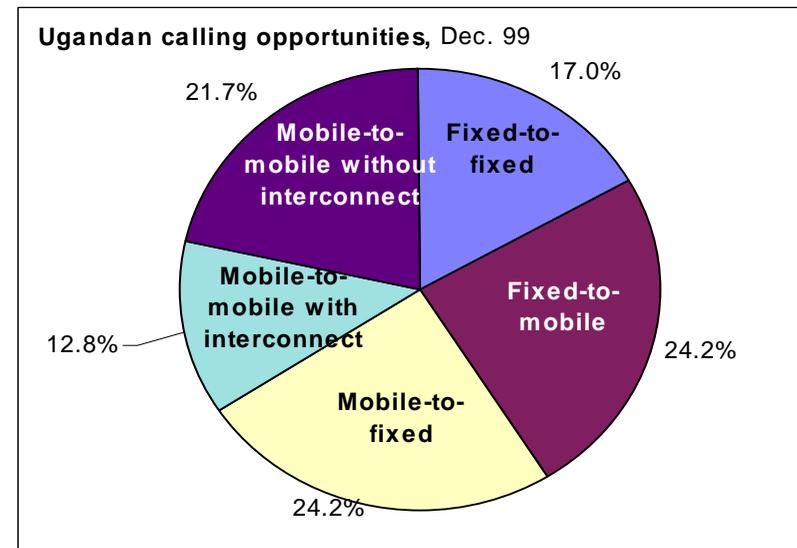
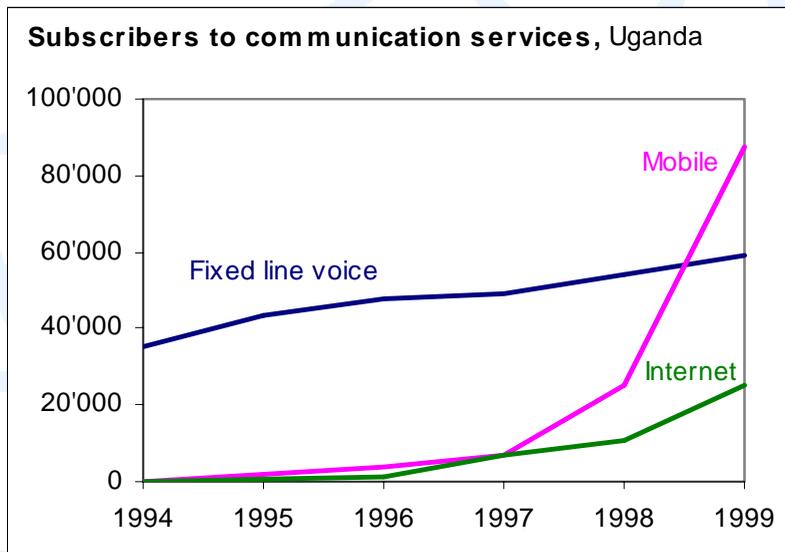
1. Istanbul Action Plan (2003-2006)

Programme 1:	Regulatory reform
Programme 2 :	Technologies and telecommunication /ICT network development
Programme 3 :	E-strategies and e-services/applications
Programme 4 :	Economics and finance, including costs and tariffs
Programme 5 :	Human capacity-building
Programme 6 :	Special programme for Least Developed Countries

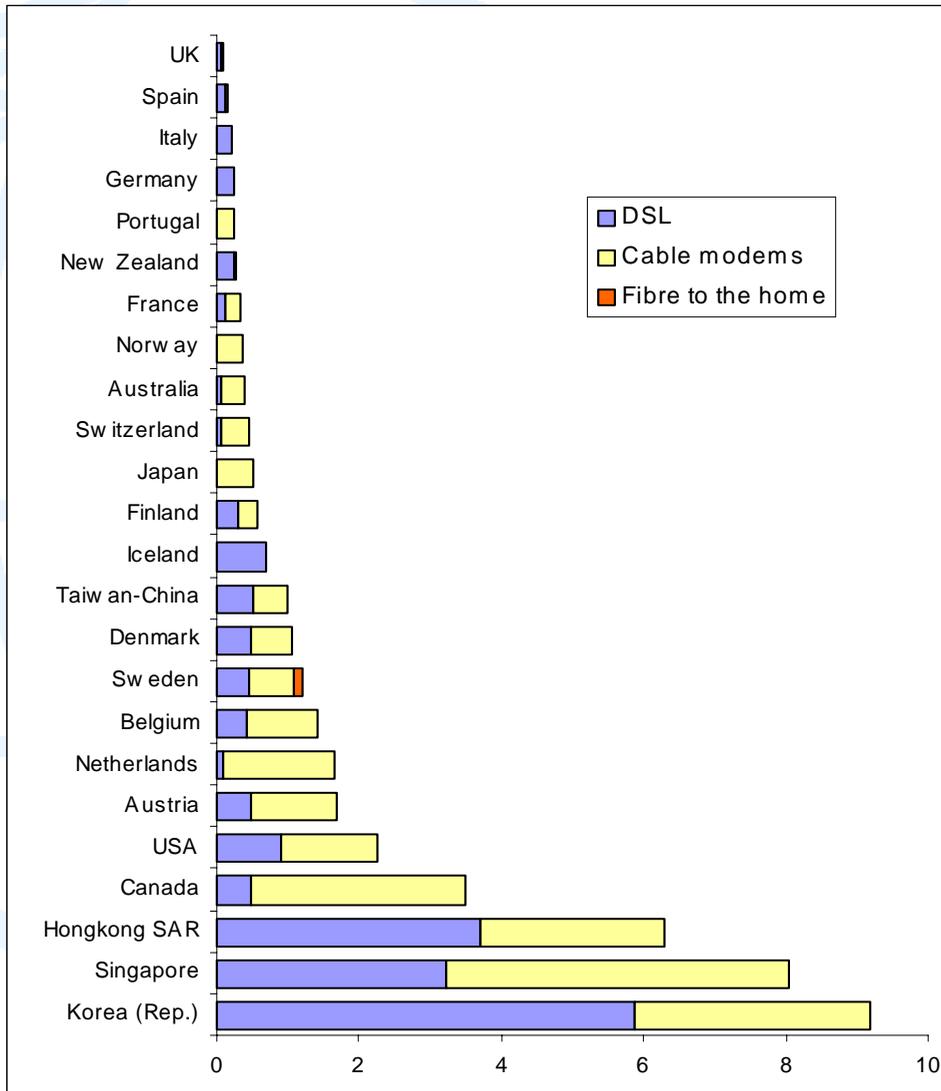
2. Challenges of Change

- Mobile overtakes fixed-lines

(Uganda)



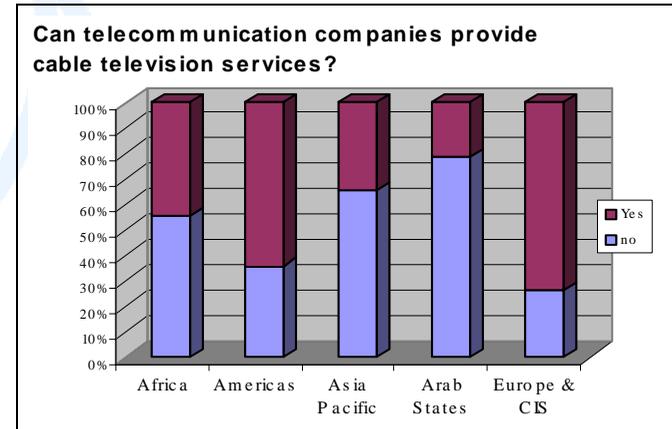
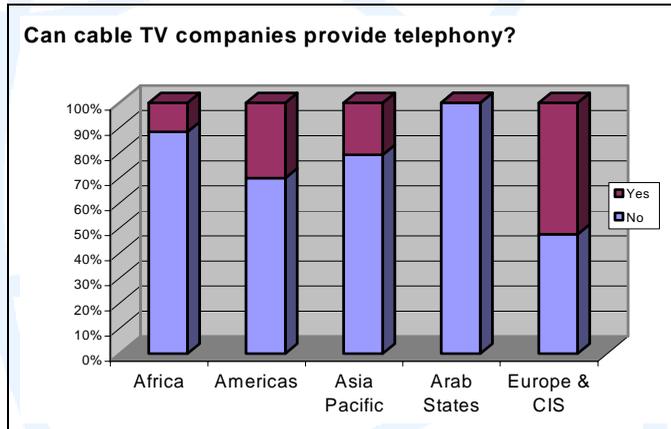
Broadband



IP Broadband
brings
convergence,
and
convergence
brings change
... **IP Telephony**

...Can TV companies provide Telephony?

...Can Telecommunication companies provide TV services?



Source: ITU, Telecommunication Regulatory Survey, 2000 (Data includes all Member States that responded to the survey)

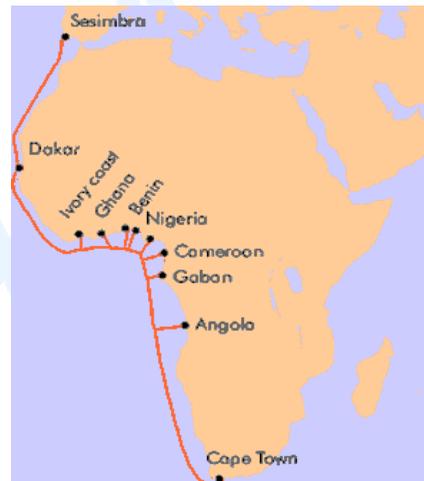
...Competition

...Broadband Wireless Access

Africa and South Atlantic Area: Route Map for SAT-3/WASC/

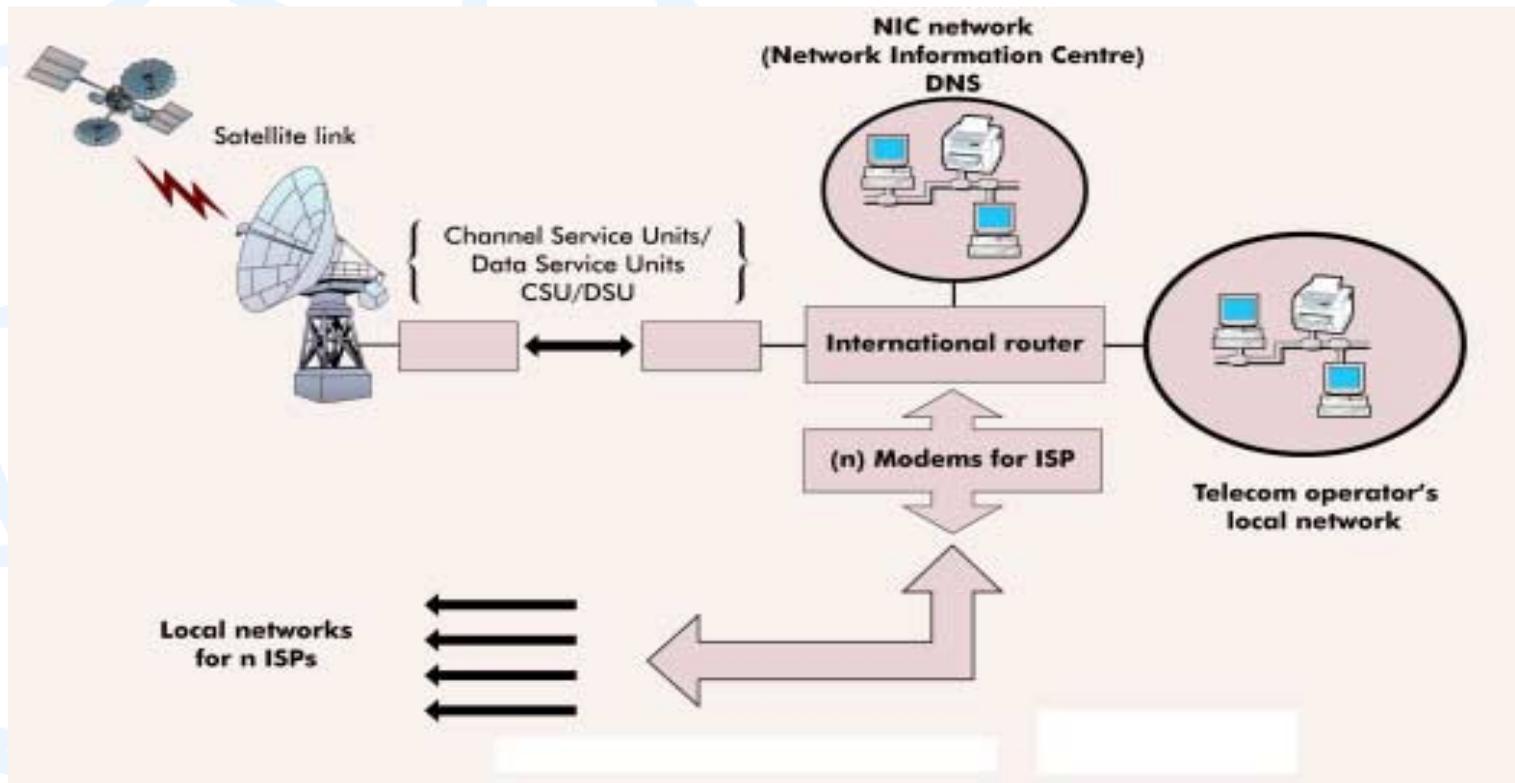


**Europe, Senegal and South
America: References Atlantis-2
(part)**

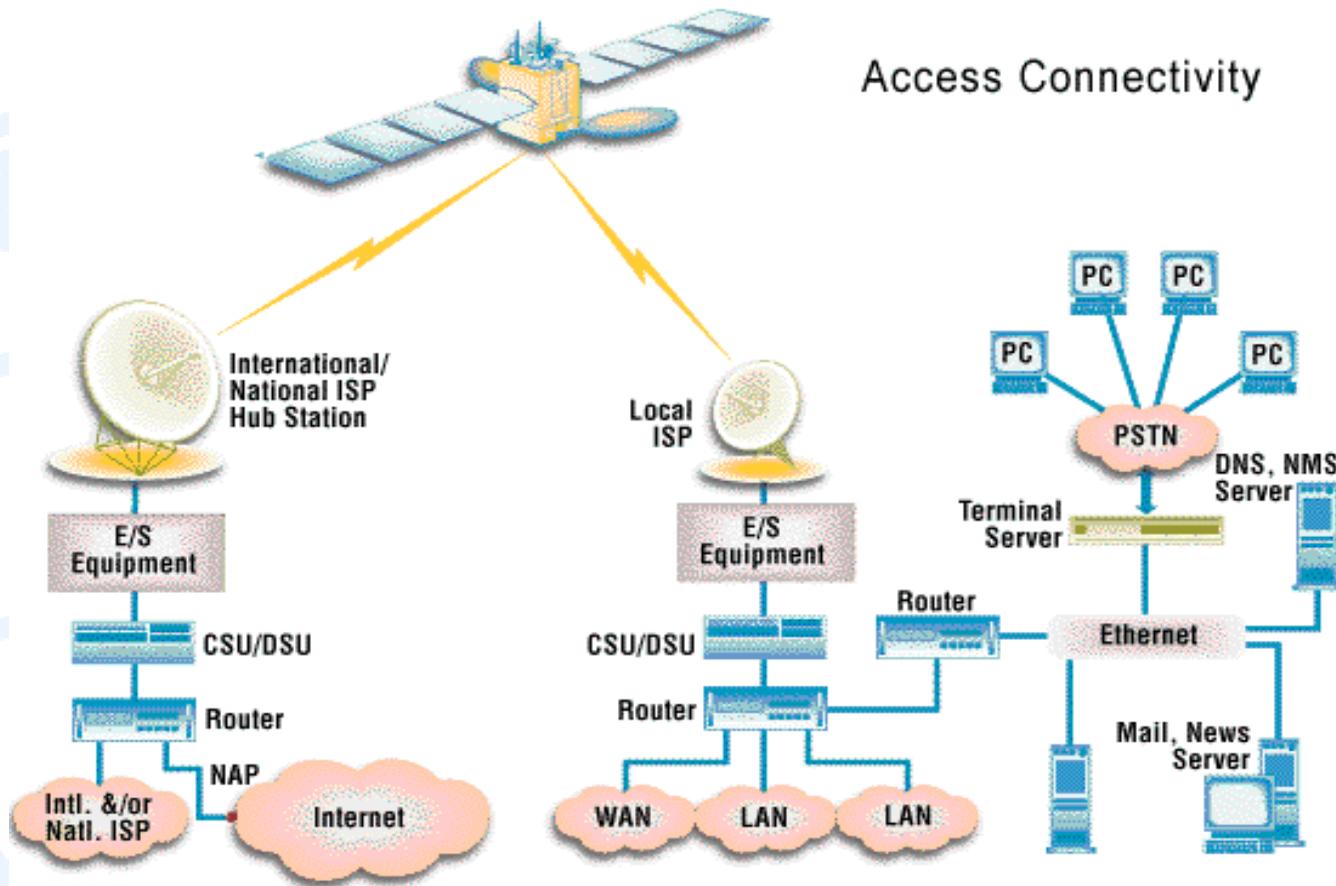


**Africa, Europe and Indian
Arabic Area:
SEA-ME-WE 3 (part)**

3. IP satellite and Connectivity in Developing Countries

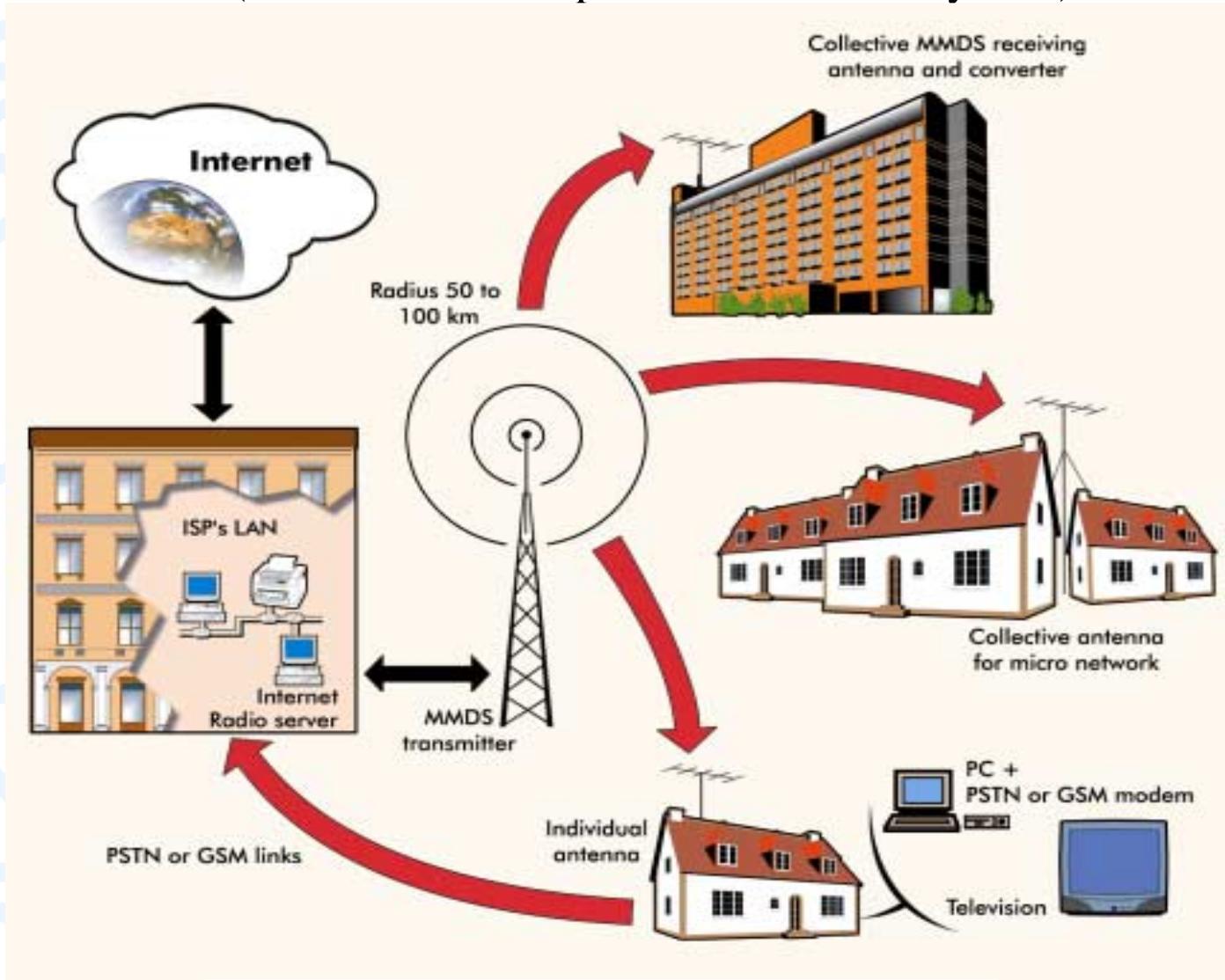


Outline of a typical Internet Node in Developing Countries

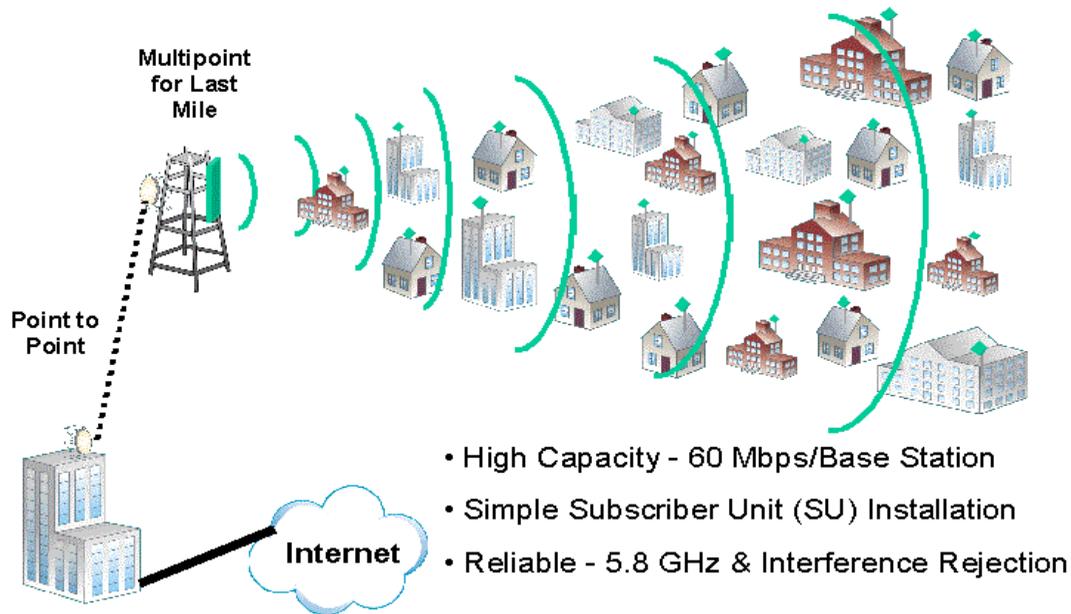


Intelsat and the International Telecommunication Union (ITU) signed a Memorandum of Understanding (MOU) in October 1999 to promote and develop Universal Access in rural and isolated areas.

MMDS Access (Microwave Multipoint Distribution System)



Next Generation of Multi-point Wireless Ethernet System

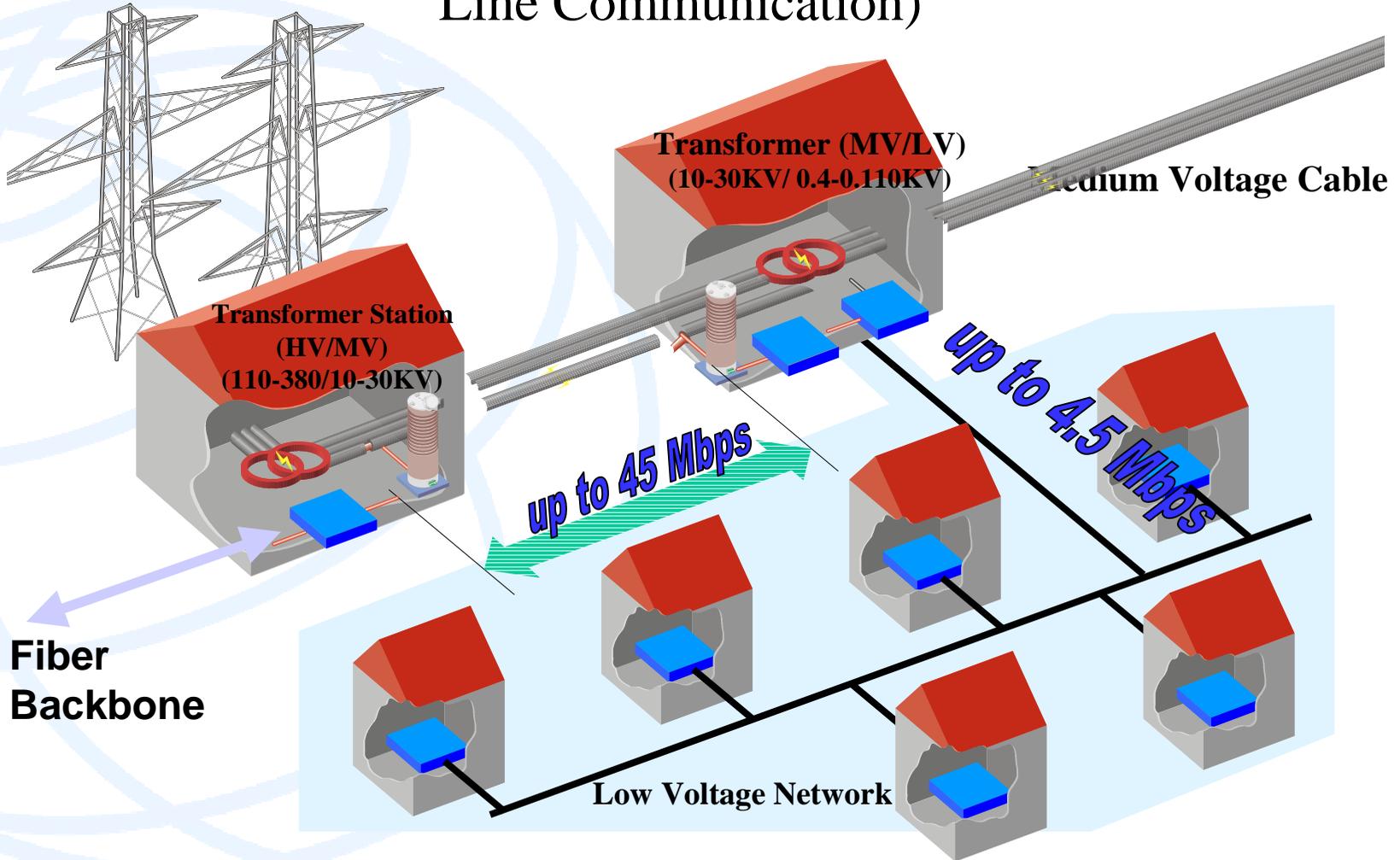


Six Base Stations provide 360-degree coverage, delivering up to 360 Mbps per hub site, and connections to Service Providers. The point-to-multipoint communications may range to 13 Km.

IP Applications

- Voice over IP offers considerable potential for both traditional carriers and new Internet Service Providers.
- Converged voice and data networks allow a more efficient use of infrastructure and considerable cost reductions.

IP Connectivity and PLC (Power Line Communication)





ITU - Intelsat MoU

MoU objectives:

- Establish a framework for cooperation and encourage other leaders in the communications industry worldwide to join their efforts. (Based on non exclusive partnership).
- Develop a program to assess the technical and financial needs of rural and isolated areas.
- Recommend satellite-based pilot programs for the development of commercial communications infrastructure.

Solution Set:

- 1) Simple PSTN Extension
- 2) Hybrid Voice & Internet
- 3) High Speed Internet Access

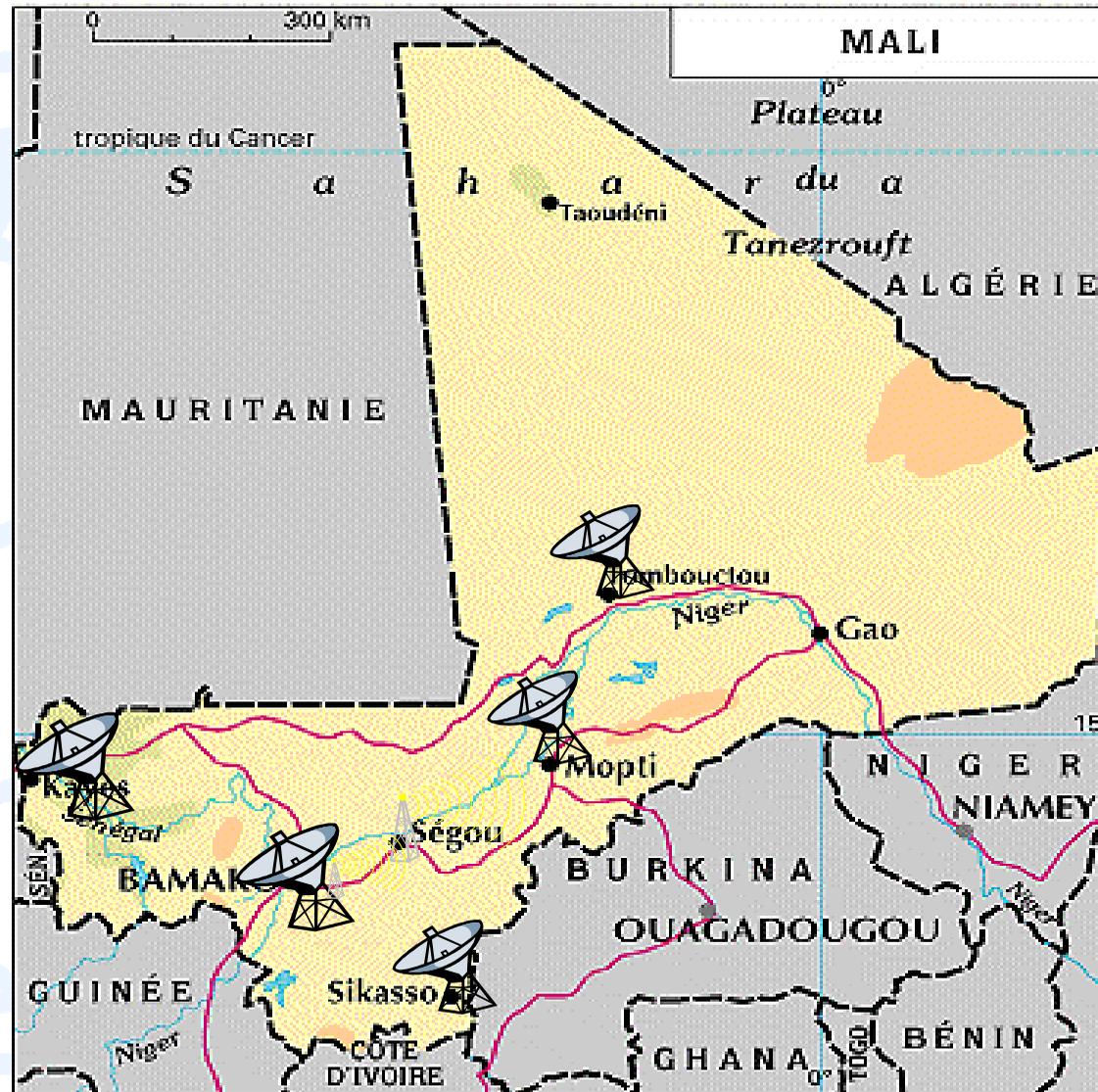


COSTA RICA



IP Network covering the territory of the country

100'000 customers (IP penetration : 0.4 per inhabitant)



4. Conclusion

"The ITU's Telecommunication Development Bureau has well-established programmes of activities to facilitate connectivity and access, foster policy, regulatory and network readiness, expand human capacity through training programmes, formulate financing strategies and e-enable enterprises in developing countries. This is indeed a winning combination for bridging the Digital Divide."

Mr. Hamadoun I. TOURE, Director, BDT

BDT is collaborating with ITU Member States and ITU-D sector members to promote and implement Universal Access to telecommunications through the accelerated deployment of cost-effective and reliable satellite-based telecommunications networks that will increase teledensity and extend IP and Broadband Connectivity to underserved populations.



Many Thanks for your attention

For more details:

<http://www.itu.int/ITU-D/e-strategy/>

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