



# Challenge of Establishment of International Telemedicine in Nigeria.

..... a concise report.

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*Rome Business school, Italy.*

# THE CHALLENGE.

Atlas ehealth country profile, global survey on ehealth 2009 revealed :



- No national ehealth policy, no national telemedicine policy implemented in Nigeria.
- Capacity building for eHealth: no professional group offered ICT continuing education for healthcare Professionals in Nigeria.
- But, there was eLearning in health sciences at tertiary Level.

THE SET BACK.



- No eHealth Profiles.

# THE RIPPLE EFFECTS.



- Congested Hospital Wards.
- Increasing medical tourism and brain drain.
- Limited continuing remote medical education.
- Limited clinical services to the remotes

# The Action Plan.



Translation of telemedicine  
technology into clinical  
practice.

## THE CONTACTED INSTITUTIONS ON MAP OF NIGERIA.

UNIVERSITY OF JOS TEACHING HOSPITAL PLATEAU STATE

AMADUBELLO UNIVERSITY TEACHING HOSPITAL, KADUNA STATE

UNIVERSITY OF ILORIN TEACHING HOSPITAL, KWARA STATE

FEDRAL MEDICAL CENTER KEFFI NASARAWA STATE

UNIVERSITY COLLEGE HOSPITAL OYO STATE

A FEBABALOLA UNI. TEACHING HOSPITAL EKITI

OBAFEMI AWOLOWO UNI. TEACHING HOSPITAL OSUN STATE.

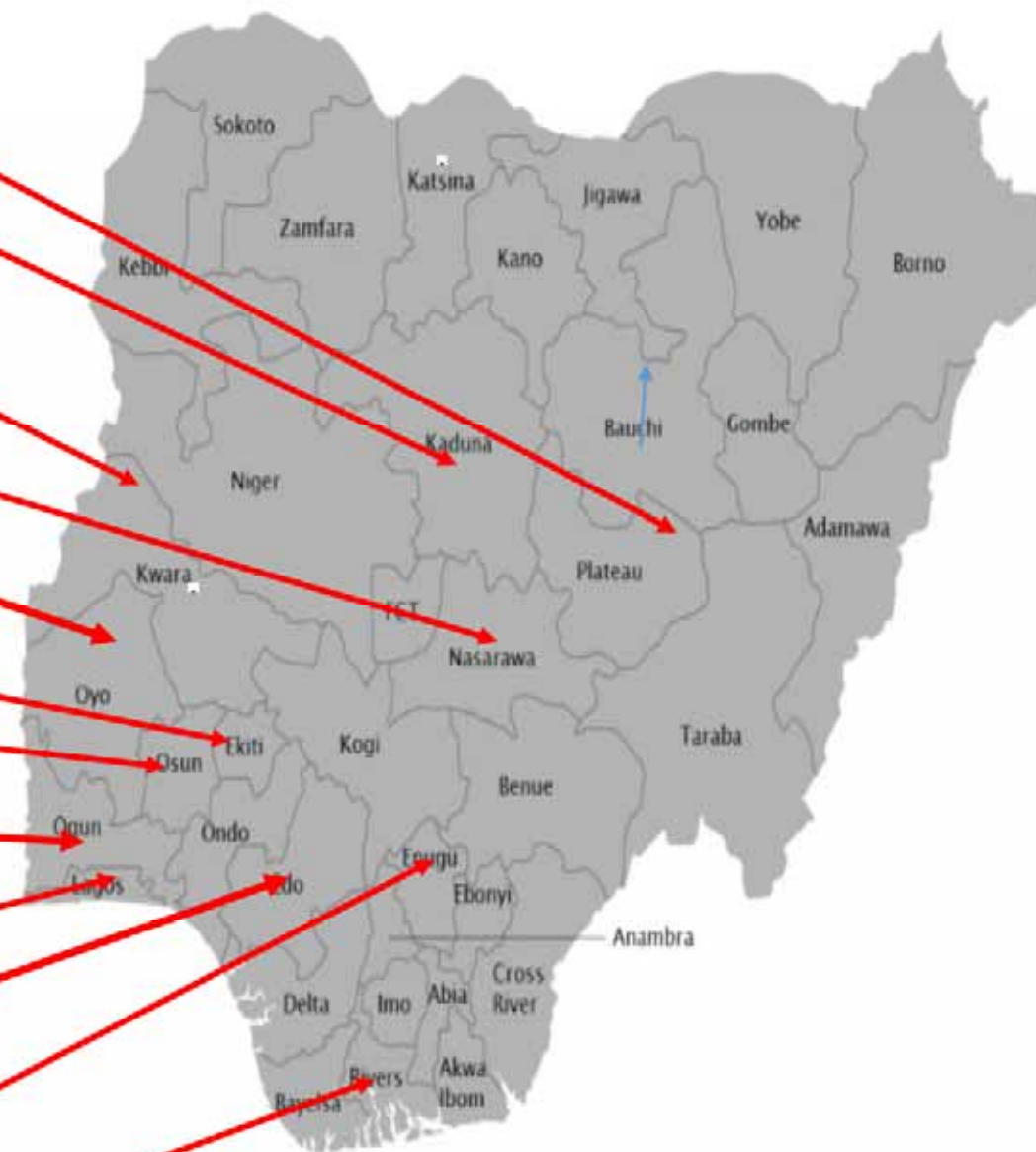
BABCORK UNIVERSITY TEACHING HOSPITAL OGUN STATE

LAGOS UNIVERSITY TEACHING HOSPITAL LAGOS STATE.

UNIVERSITY OF BENIN TEACHING HOSPITAL EDO STATE.

UNIVERSITY OF NIGERIA TEACHING HOSPITAL ENUGU STATE

UNI. OF PORTHACOURT TEACHING HOSPITAL RIVERS STATE



## THE PROGRESS REPORT.

NAME OF INSTITUTION.	STATUS.
UNIVERSITY COLLEGE HOSPITAL .	INTERESTED,TO CONNECT SOON.
UNIVERSITY OF ILORIN TEACHING HOSPITAL.	INTERESTED,COMMUNICATION IN ADVANCED STAGE.
UNIVERSITY OF LAGOS TEACHING HOSPITAL.	COMMUNICATION IN PROGRESS.
UNIVERSITY OF BENIN TEACHING HOSPITAL.	NO RESPONSE.
UNIVERSITY OF PORTHACOURT TEACHING HOSPITAL.	NO RESPONSE.
AFE BABALOLA UNIVERSITY TEACHING HOSPITAL.	INTERESTED, TO CONNECT SOON.
UNIVERSITY OF NIGERIA TEACHING HOSPITAL .	NO RESPONSE.
BABCORK UNIVERSITY TEACHING HOSPITAL.	NO RESPONSE.
AMADU BELLO UNIVERSITY TEACHING HOSPITAL.	NO RESPONSE.
FEDERAL MEDICAL CENTER KEFFI.	NO RESPONSE.
UNIVERSITY OF JOS TEACHING HOPITAL.	NO RESPOSE.
OBAFEMI AWOLOWO UNIVERSITY TEACHING HOSPITAL.	<b>CONNECTED.</b>

## THE BIGGER CHALLENGE.



- **Poor information flow;**
- Which translates to lack of knowledge and interest, with resistance to change,
- **is the major barrier!.**



# CONNECTIVITY TEST.





THE NEXT STEP!



- HOW DO WE BREAK THIS BARRIER?

# CONCLUSION.



# Let's start now.

# Challenges of Establishment of International Telemedicine in Nigeria.

... a concise report.



# INTERNSHIP IN TELEMEDICINE ENGINEERING AT TEMDEC;



.....MY EXPERIENCE.

Adebayo Eytayo. A. RBS,Italy.

# ▶ BACKGROUND.

- THE SEARCH.
- THE INTERVIEW.
- THE JOURNEY TO FUKUOKA.



# ▶ THE CORE TRAINING.

## ■ TRAINING STRUCTURE.

THE TRAINING TEAM.

TELECONFERENCE DESIGN SKILLS.

## ■ EXPOSURE.

TELECONFERENCE PROJECT MANAGEMENT SKILLS.

LITERATURE RESOURCES.

EQUIPMENTS.

## ■ CHALLENGES.



# TRAINING STATISTICS IN SIX MONTHS .



Projections.	Actualizations.(numbers).
Number of internationally staged tele-conferences participated in	2
Overall number of tele-conferences managed, or assisted.	41
Number of technical Tasks Solved.	11
Number of unsolved Tasks	1*



# SAMPLE SCHEDULE OF TRAINING.

Tasks for the week Tuesday Oct.30th to Friday Nov.2nd, 2018.

1. Roland Video Switcher; operational use: V1, V40 MIX.  
Need to master with V1.  
\* How to use Professional switching.  
\* Learning of composing effect with Pic-In-Pic or Spiting effect.  
\* Learning of Audio Mixing with the switcher.  
\* Use of Remote control with USB or MIDI connection ERS.
2. ATS Africa session.
3. Zoom H.323.
4. Need to understand control of layout with VidyoDesktop.

## Schedule of Tasks

**Date: Tuesday 30th. 2018**

■ OBS

Time: 9:00am – 11:00

■ Connectivity test with Dr. Omo.

Time: 4:30 pm-5:30pm

**Date: Wednesday 31st.2018.**

■ Roland Video Switcher V1.

Need to how to set up the mixer, and use different features for switching of images from different sources, on preview and input this to a videoconference system for display.

Time: 9:00am -12:00pm

■ Russian Tele-consultation.

Time: 1:00pm -2:00pm.

**Date: Thursday 1st November, 2018.**

■ Experimenting with audio mixers

Need to know how to input audio from different sources into the mixer, and output this into a teleconference system to measure quality of production of the audio.

■ Connectivity test with Dr. Ganiyat & Colleagues for ATS.

Time: 4:00pm-6:00pm.

**Date: Friday 2nd. 2018.**

■ Controlling of Layouts with VidyoDesktop.

How the VidyoDesktop can be used to control layout of images among remote sites of different endpoints.

■ Connectivity tests for ATS.

## **Completed Tasks.**

1. H.323-Cisco, Polycom.

(i) Operationalization.

(ii) Point to Point connections.

(iii) Multipoint connection unit (MCU).

(iv) Contents sharing.

2. Join View.

-Annotation.

3. Telepointer with PUMCH.

4. Connectivity test, and Real Teleconference with Myanmar.

5. Setting up of OBS Live Demo without a Webcam using three laptops

6. Setting up of interconnectivity, and content sharing among different Endpoints with different protocols.

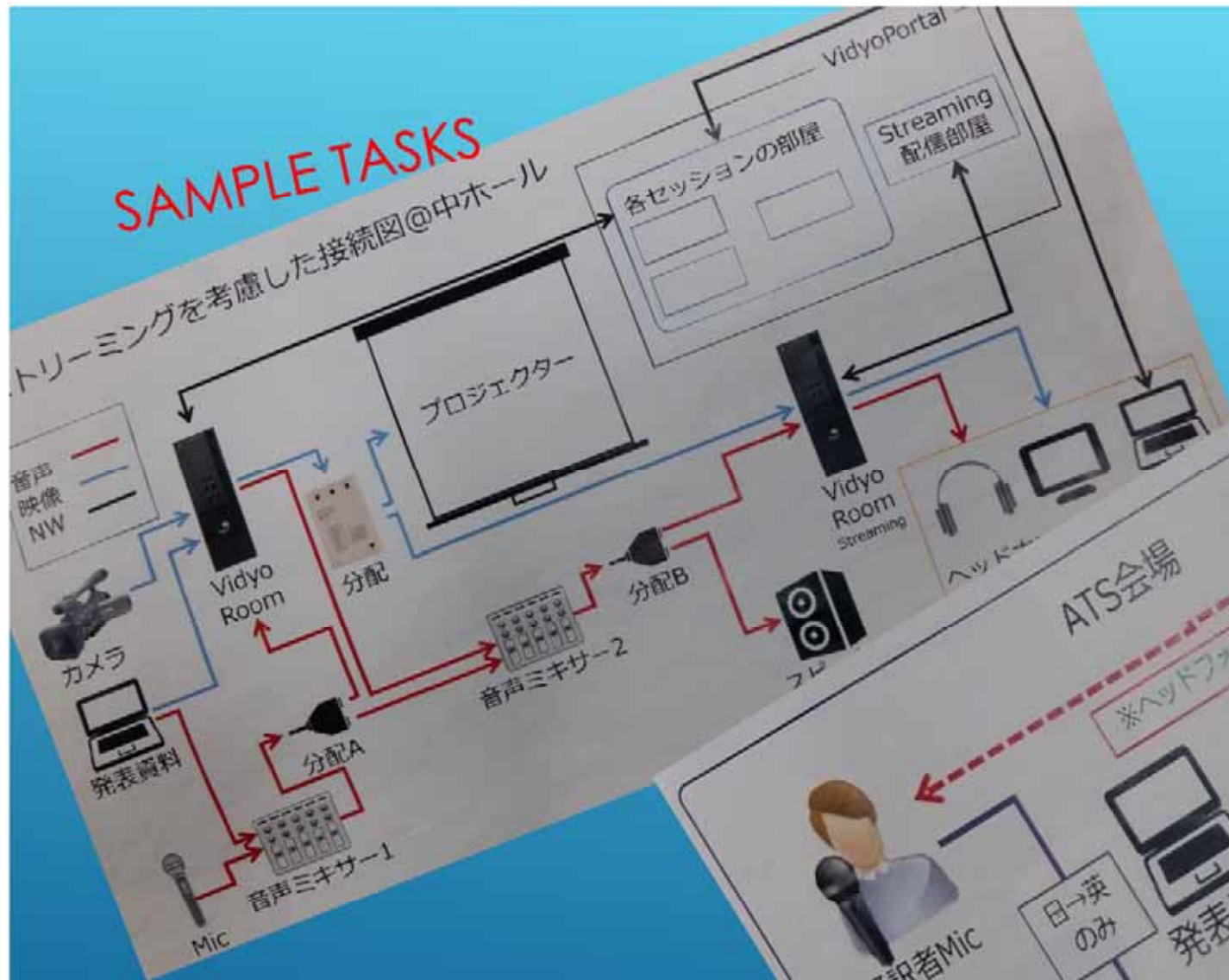
7. Audio mixers trial with Mayuko using the VidyoDesktop.

1. Use of splitters.

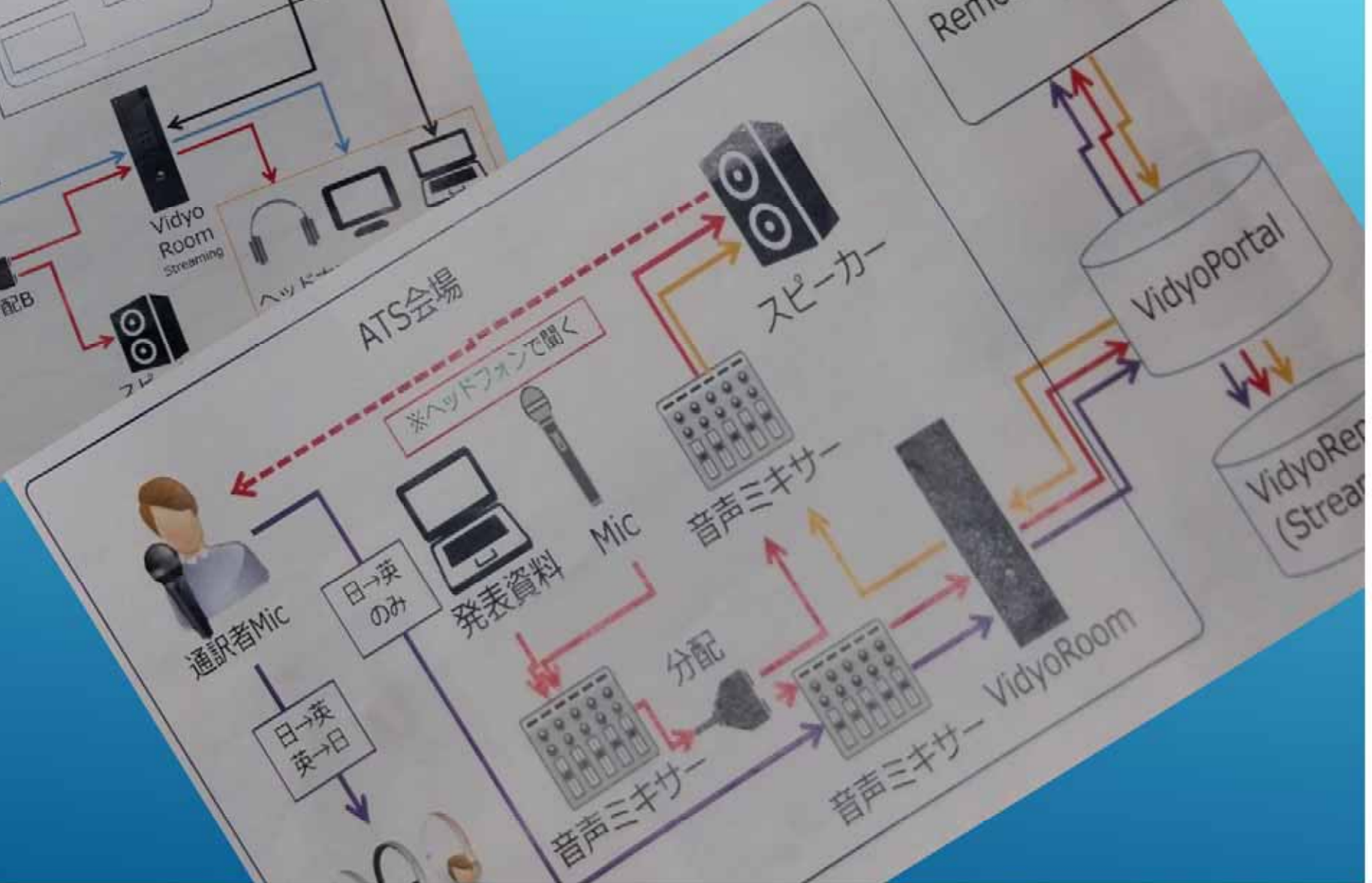
Nigeria Teleconference connectivity test.

# SAMPLE TASKS

トリーミングを考慮した接続図@中ホール



## ATS会場





# ▶ JUST THINKING AHEAD!

■ WHAT PLANS DOES TEMDEC HAS FOR AFRICA; IN TELEMEDICINE DEVELOPMENT ?.

# RECCOMENDATION.

- MOOC: Massive open online course, in Telemedicine Engineering.
- MOOC; is an online course aimed at unlimited participation and open access via the web.
- delivered through traditional course materials, filmed lectures, readings and problem sets.
- interactive courses with user forums to support community interactions among students, professors, and teaching assistants (TAs),
- immediate feedback to quick quizzes and assignments.



# THE NEXT STEP



JUMP INTO THE LABOUR MARKET !!!

## ACKNOWLEDGMENT.

- ▶
  - TO GOD.
  - TO MY WIFE .
  - TO THE TEMDEC TEAM; ASST.PROF. KURIKO,DR MORIYAMA,YOSHIKO, SHIN, MAYUKO, &MY COORDINATORS .
  - TO PROF. SHIMIZU.





**...for the love of telemedicine  
in AFRICA.**

**THANK YOU.**