

Project ECHO[®]

E_{xtension for} C_{ommunity} H_{ealthcare} O_{utcomes}

Strengthening Integrated Surveillance and Laboratory Networks in Africa

Addis Ababa, Ethiopia

March 27, 2017

Brian Wood, MD [bwood2@uw.edu]

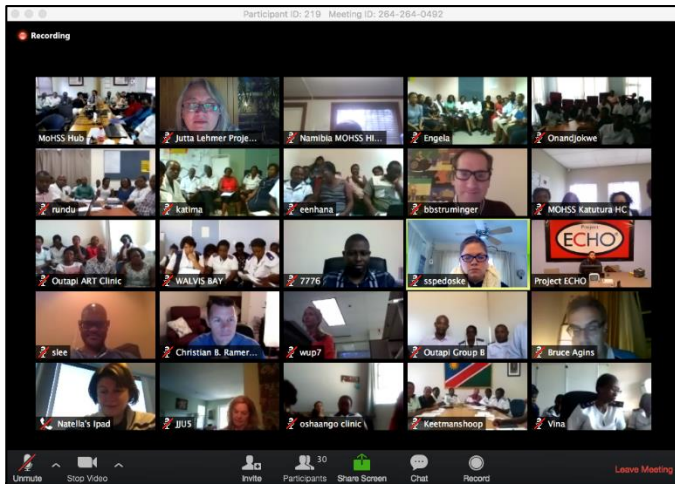
Bruce Struminger, MD, MA [bstruminger@unm.edu]

What is ECHO?

Team-based problem solving through virtual communities of practice



Goal: link multidisciplinary teams for guided collaboration across large distances

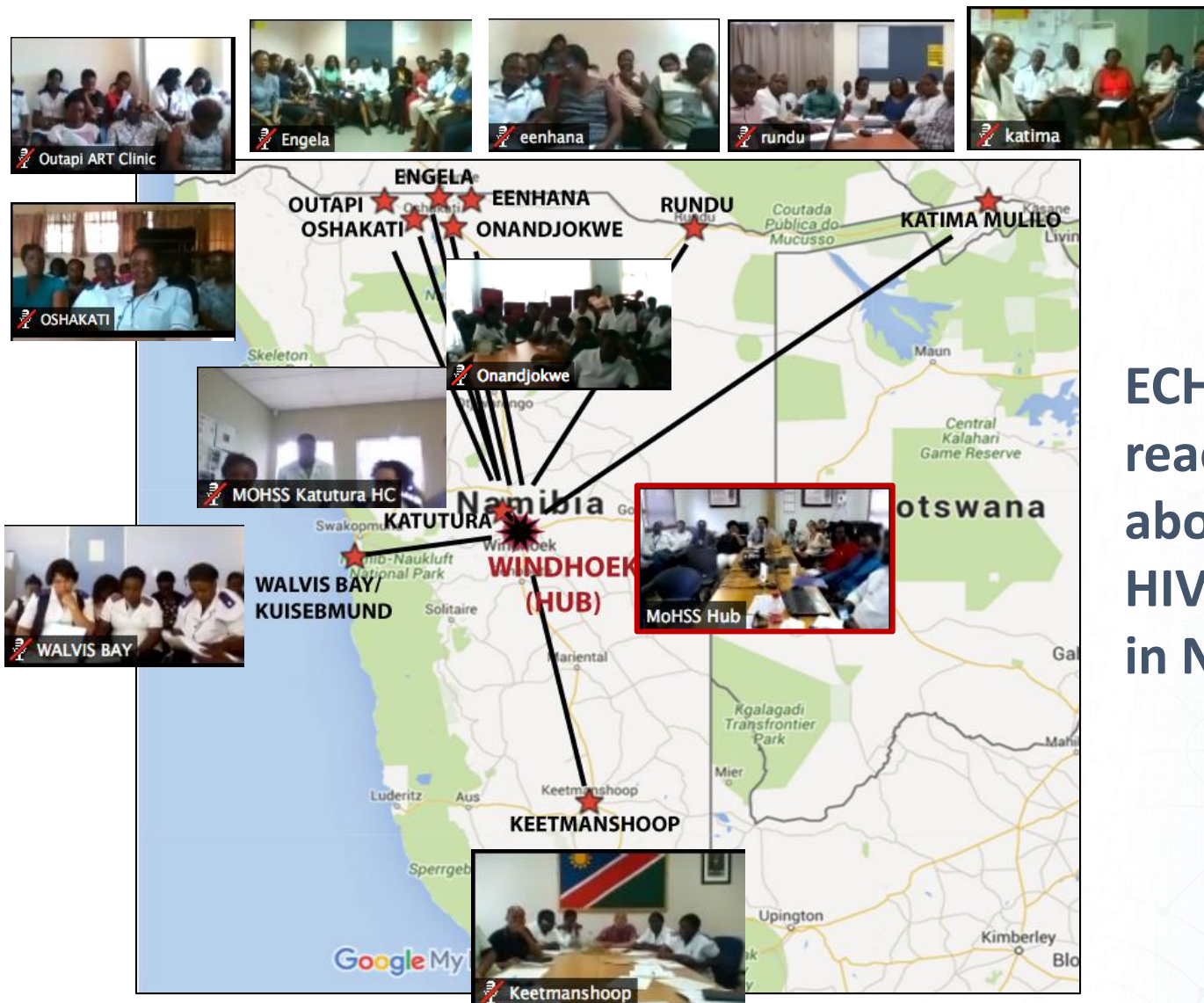


First ECHO Session in Namibia



November 24,
2015

Namibia ECHO Hub and Spokes



ECHO reaches about 60,000 HIV+ patients in Namibia

Does ECHO Work?

ORIGINAL ARTICLE

Outcomes of Treatment for Hepatitis C Virus Infection by Primary Care Providers

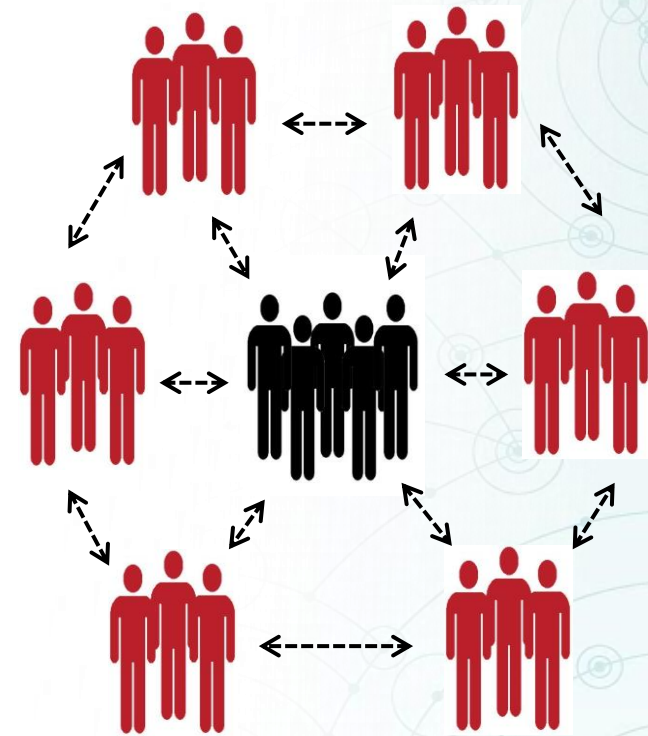
Sanjeev Arora, M.D., Karla Thornton, M.D., Glen Murata, M.D.,

	21 Community ECHO Sites (N=261)	University Clinic (N=146)	P Value
HCV SVR	58.2%	57.5%	0.89

✧ Cost-effectiveness: average ICER/QALY \$8,300²

ECHO Virtual Communities of Practice - Principals

- Use **technology** to leverage scarce resources
- Promote **collaborative problem solving**
 - Connect teams across large distance (no travel)
 - Facilitate continuous information exchange
 - Provide longitudinal mentorship to increase workforce competency
- **Promote evidence-based best practice** to reduce variations in processes
 - Brief lectures
 - Highly-contextualized cases
- **Reinforce protocols and guidelines**
- **Monitor implementation and outcomes**

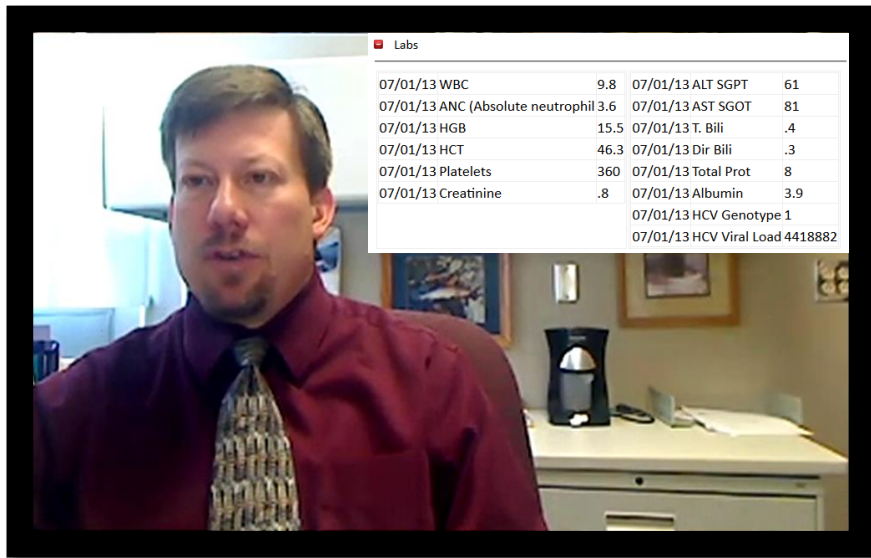


Examples: disseminate protocols, share resources, prepare for outbreaks



ECHO Programs at University of Washington

- HIV
- Hepatitis C
- Tuberculosis
- **Antimicrobial Stewardship**
- **Public Health**
(leadership, surveillance, field services)
- Heart Failure
- Geriatrics
- Psychiatry & Addictions
- Mental Health Counseling



Additional Applications of ECHO



Meshack Otworl

Bruce Struminger [UNM Projec...

Administrator

Sammy Rop

KIRINYAGA TEAM

Galaxy Core Prime

Lorraine Mugambi-Nyaboga

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Paul Lodi

Evelyn

Maureen Kimenye

Dr. Wambugu

Galaxy Note 5

MDR TB Program in Kenya

India MDR TB ECHO – Nov 29, 2016

Recording Speaker View Exit Full Screen

Row 1:
NITRD Echo | Dr. Bruce Struminger UNM Pro... | Dr. Ashok Kumar, DDUH | STDC Delhi | Dr Madhukar Pawar, Dy STO ,...

Row 2:
Dr. Pankaj Jorwal, AIIMS | Dr. Ashwani Khanna, STO Office | NITRD RNTCP | Dr. Vishal Khanna, DTO, LN C... | Dr. Anand Ch. Desraj Chest...

Row 3:
Dr. Puneeta Hyanki (GTBH Che... | DR RAMA BHATT,RKMISSION | Dr Sunil, Moti nagar | DR.CK.MATE, DTO/NDMC CHE... | Dr. Savita Singh

Row 4:
Dr Neeraj Sharma, Bijwasan C... | Dr. Neeta Singla | Dr Sengupta, Nehru Nagar. | Dr. S K SHARMA SPM PILIKOTHI | DR. SUPRIYA, CC BSA

Row 5:
Dr N. Taley, KCC,RBIPMT | Dr B B Sinha, RTRM | dr arun chest clinic gulabi bagh | Dr. Praveen, DTO, Patparganj | Dr. Nitu Singh, Malviya Nagar

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Unmute Stop Video Invite Participants 32 Share Screen Chat Record Leave Meeting

Tanzania – First Laboratory ECHO Launched November 23, 2016



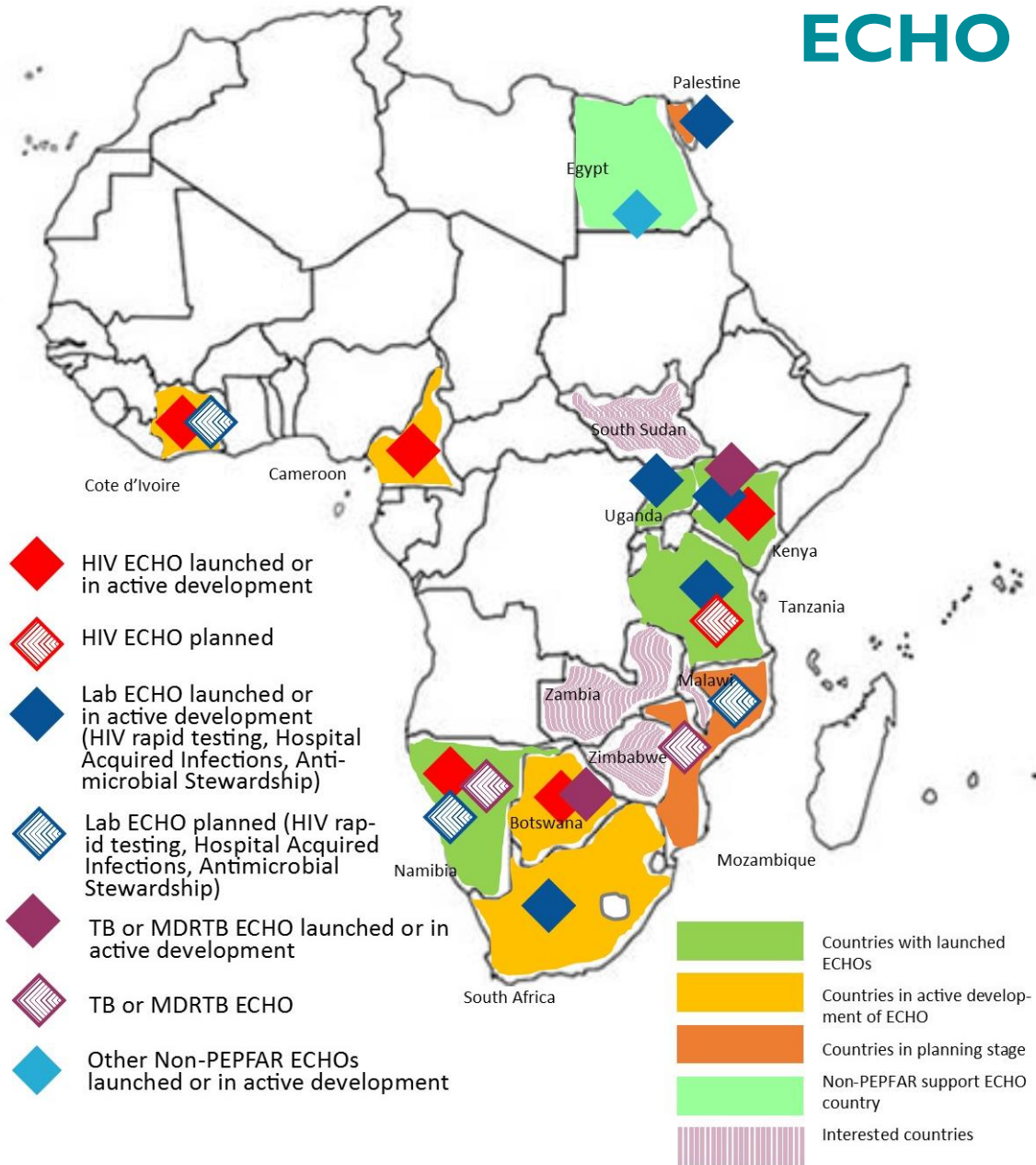
With guests from Namibia and Kenya via Zoom
Additional lab ECHOs in development: Namibia and South Africa

Uganda – Laboratory ECHO Launched March 6, 2017



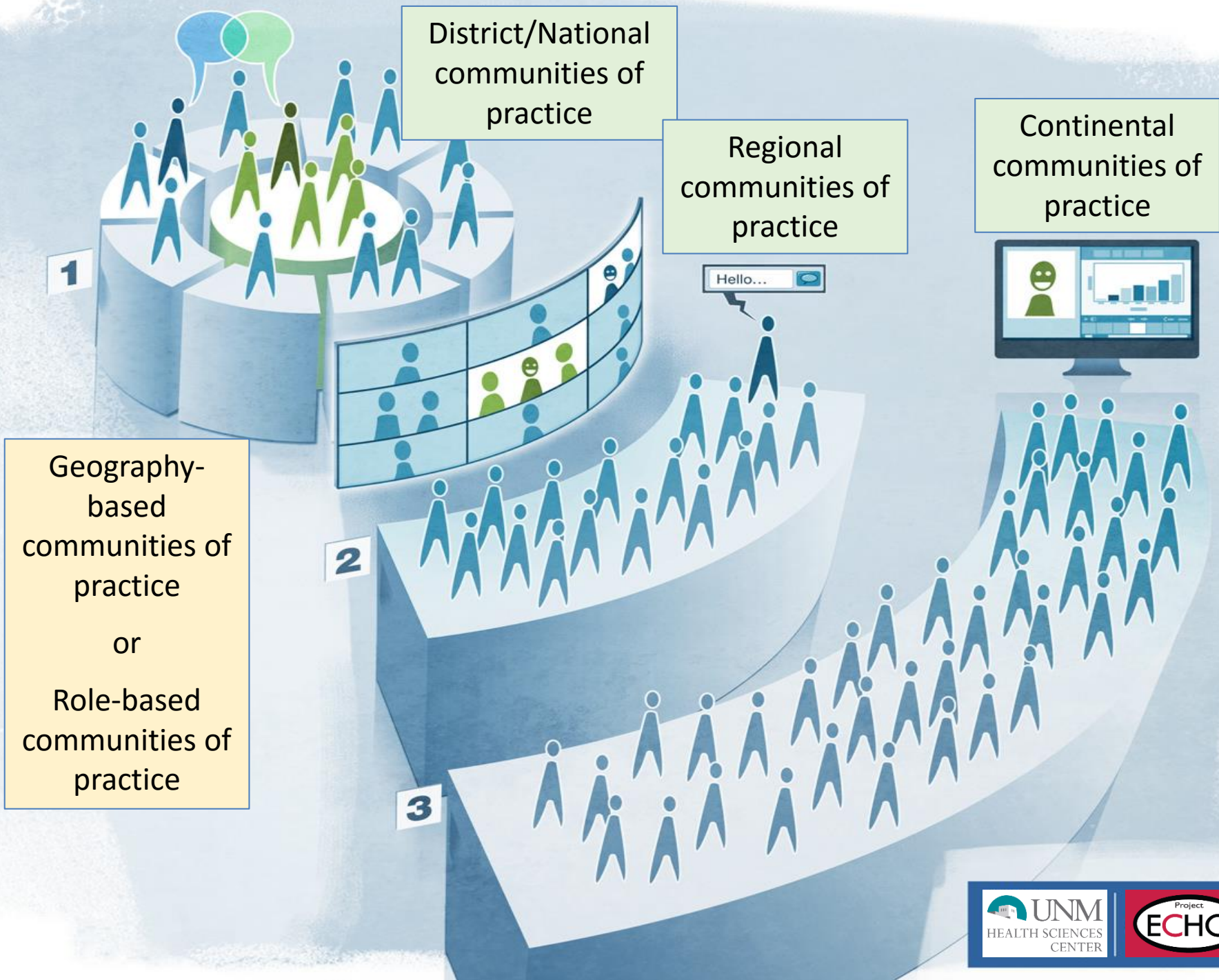
With guests from Tanzania
Additional lab ECHOs in development: Namibia and South Africa

ECHO Programs in Africa



Africa Launches:

- **Namibia** – Pilot completed, now in post-pilot phase (since November 2015)
- **Kenya** -- MDR TB (July 2016) and HIV (October 2016)
- **Tanzania** – first lab ECHO for HIV RTQCI (November 2016)
- **Uganda** – HIV RTQCI ECHO (March 2017)



Potential Benefits of Applying the ECHO Model to Laboratories and Surveillance Networks

Build local expertise in laboratory workforce

- Continuous training and mentoring of laboratory staff
- Enhance problem solving and workforce development

Improve communication, coordination, and collaboration

- Strengthen connections between local lab staff and national and international lab experts and peers
- Decrease laboratory staff isolation and promote continuous information exchange & rapid dissemination of protocols

Significant cost and time savings related to reduced travel for trainings

- Increase time for education and training (CME/CNE)
- Reduce absence of lab staff from their posts due to attendance at trainings

Opportunity to engage in CQA/CQI activities

- Highlight programmatic challenges and find solutions through collaborative problem solving
- Monitor implementation of protocols and outcomes; strengthen infrastructure for efficient outbreak response

ECHO is a dynamic and interactive longitudinal distance network that allows efficient sharing of information, data, and evidence-based best practices



Move Knowledge Instead of People