

Supporting care professionals where they are most needed

Prof. Antoine Geissbuhler, MD
Dr. Georges Bédiang, MD
Geneva University and Hospitals

ITU Telecom World
Geneva, 2011

réseau
RAFT
network



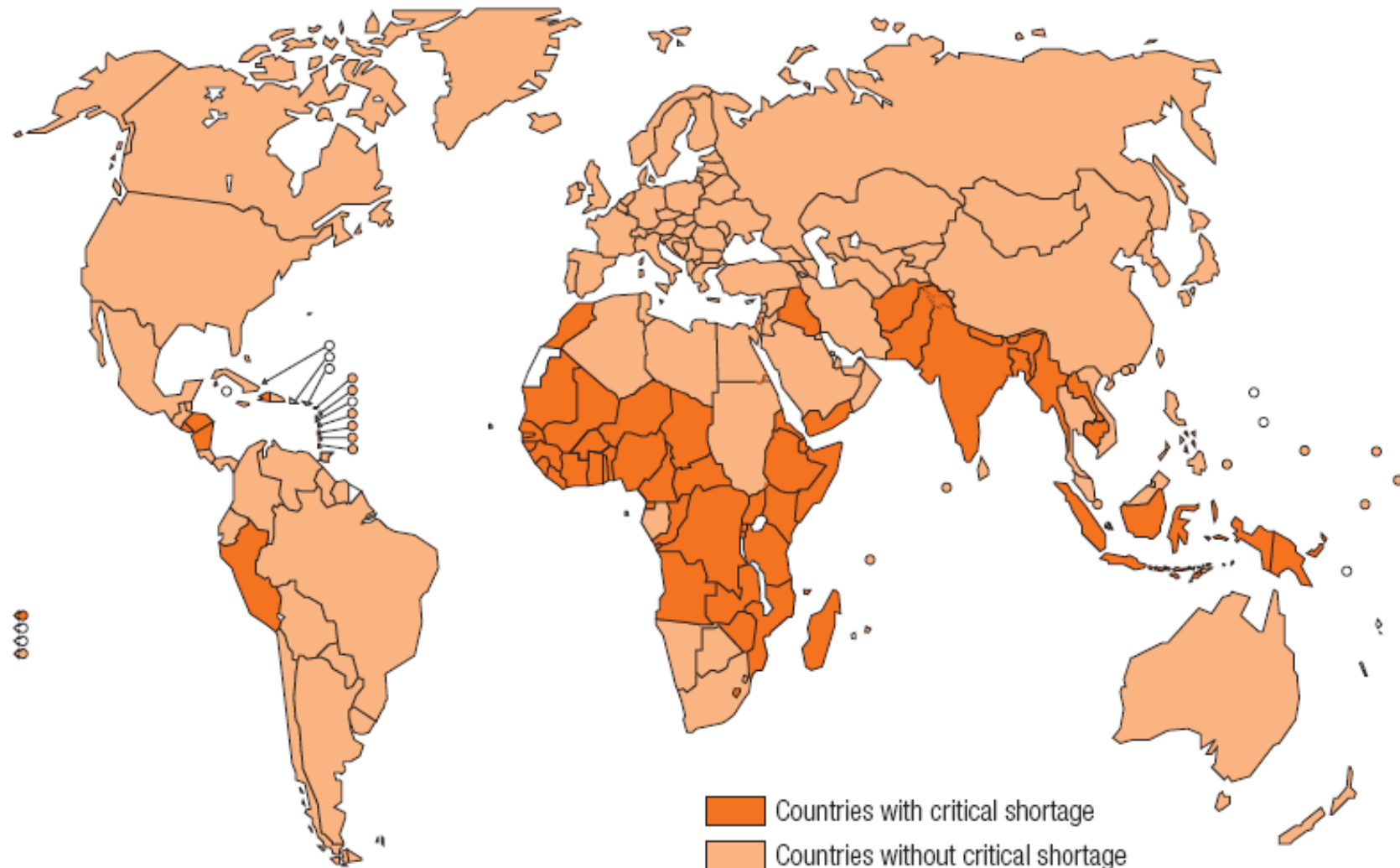
unfm
Université Numérique Francophone Mondiale

soutenir les professionnels de la santé là où on en a le plus besoin
supporting care professionals where they are most needed



« Supporting care professionals where they are most needed »

Figure 3 Countries with a critical shortage of health service providers (doctors, nurses and midwives)



Data source: World Health Organization. *Global Atlas of the Health Workforce* (<http://www.who.int/globalatlas/default.asp>).

De-isolating care professionals

Dr Diakaridia Traoré
Rural hospital in Dimmbal, Mali
800 km away from the capital
120 km away from the first Internet access
20 km away from telephone access





RAFT: a collaborative network



Université Senghor

- Project initiated at Geneva University Hospitals and Geneva University
- World Health Organization Collaborating Center for eHealth and Telemedicine
- UNESCO chair for telemedicine and distance learning
- Partnership with Francophone institutions

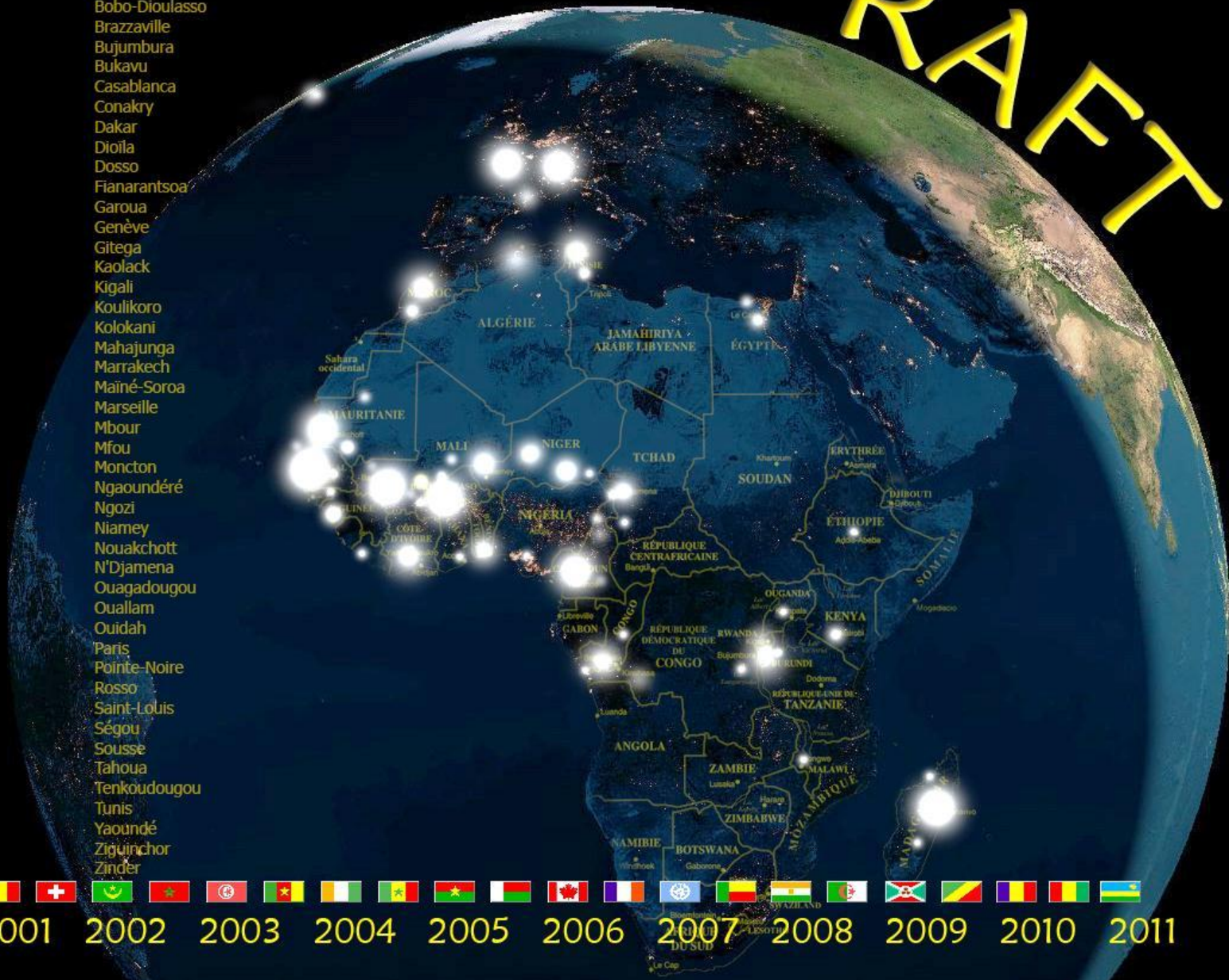


RAFT

Abidjan
 Antananarivo
 Bamako
 Bankass
 Bobo-Dioulasso
 Brazzaville
 Bujumbura
 Bukavu
 Casablanca
 Conakry
 Dakar
 Dioila
 Dosso
 Fianarantsoa
 Garoua
 Genève
 Gitega
 Kaolack
 Kigali
 Koulikoro
 Kolokani
 Mahajunga
 Marrakech
 Mainé-Soroa
 Marseille
 Mbour
 Mfou
 Moncton
 Ngaooundéré
 Ngozi
 Niamey
 Nouakchott
 N'Djamena
 Ouagadougou
 Ouallam
 Ouidah
 Paris
 Pointe-Noire
 Rosso
 Saint-Louis
 Ségou
 Sousse
 Tahoua
 Tenkoudougou
 Tunis
 Yaoundé
 Ziguinchor
 Zinder

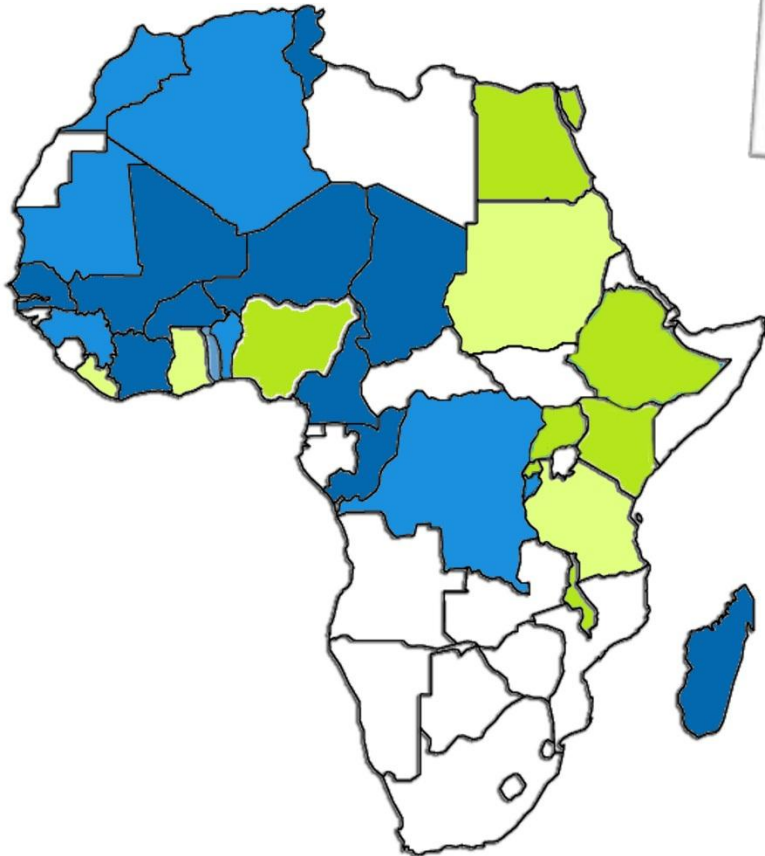


2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011



A network of people

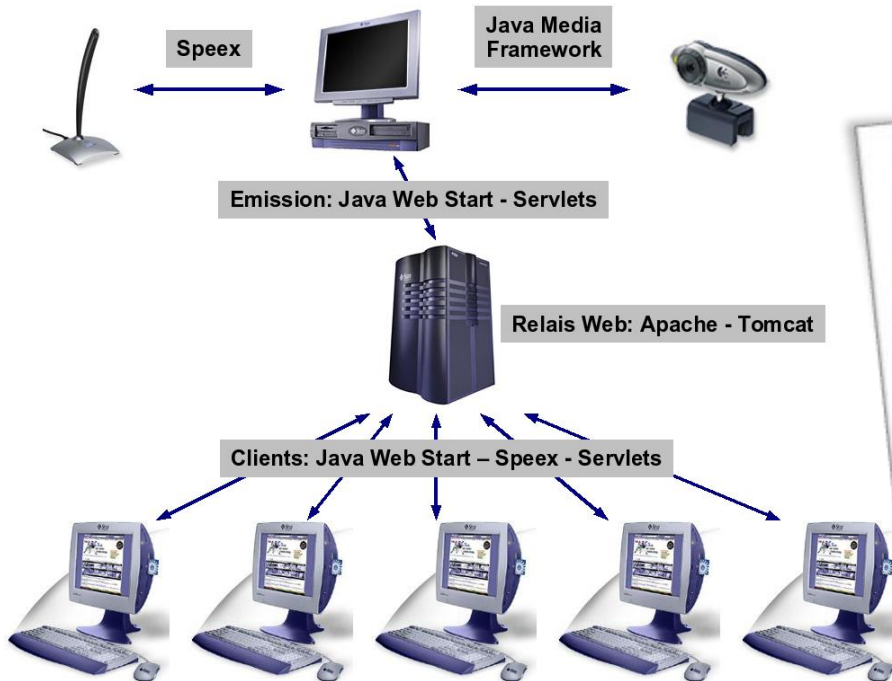
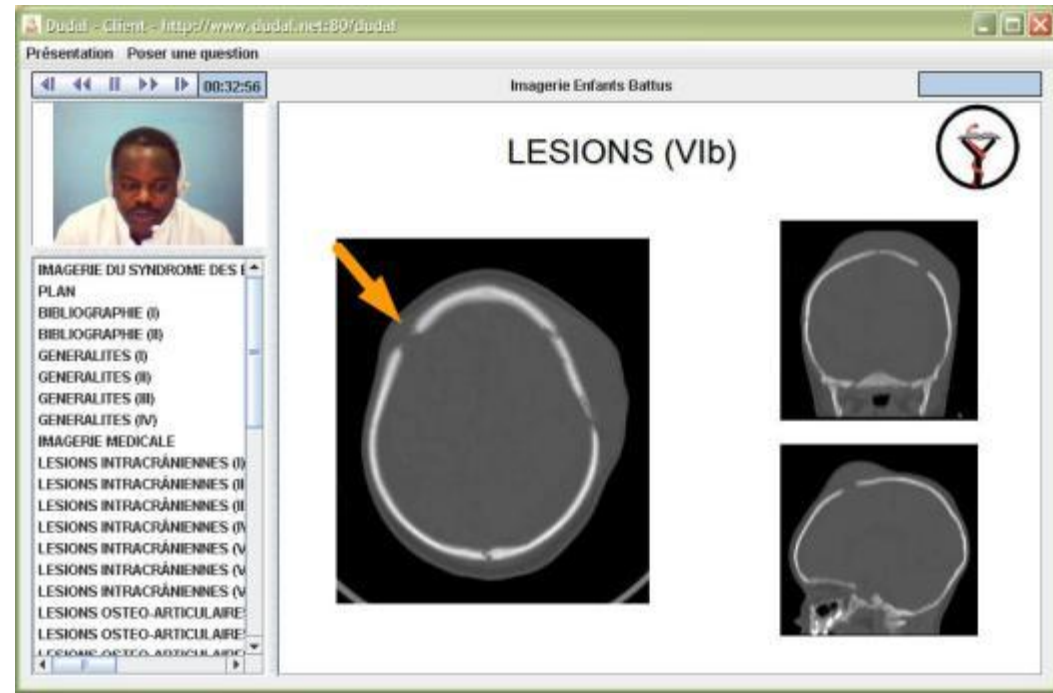
- National focal points
- Medical coordinators
- Technical coordinators



- Importance of social engineering
- Getting the buy-in from all stakeholders
- Initial workshop to launch activities in a country
- Annual meeting of all coordinators

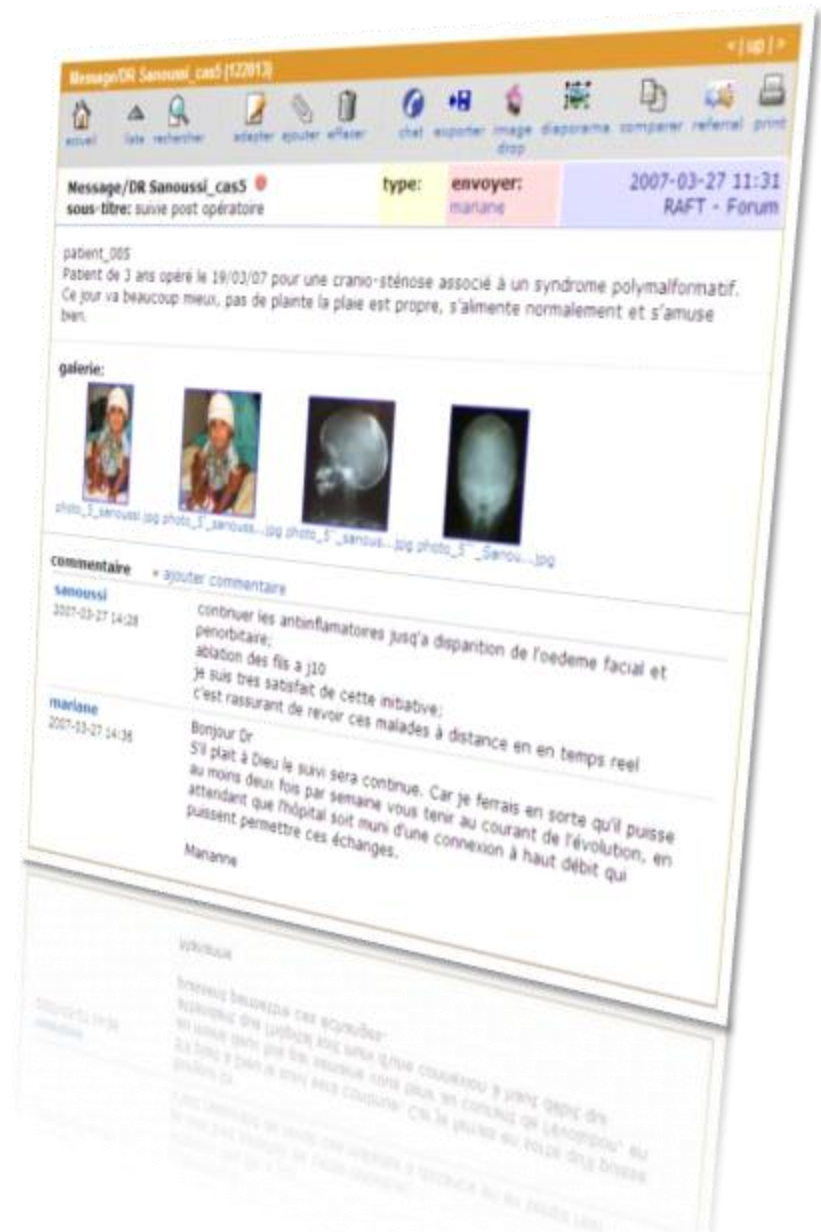
Low-bandwidth distance education

- Interactive webcasting
- 20-30 kbps bandwidth
- 100+ simultaneous sites



Teleconsultations via virtual communities of experts

- Asynchronous collaboration of identified and approved participants
- Secure access
- Mostly used for discussing difficult cases
- Specific applications in pathology, dermatology, ophthalmology, radiology, including tele-ultrasonography and tele-electrocardiography



Docteur DIARRA Mamadou Bocary
Cardiologue Hôpital du Point G
- Bamako -

Bamako, 18 octobre 2006

RESUME D'OBSERVATION MEDICAL

Date naissance : le 15 juillet 2000
 POIDS : 18kgs, TAILLE : 1,25m
 ASLO : négatif
 HIV : négatif
 GS RH : A négatif
 CRP : positif
 Ag Hbs : négatif
 HCV : négatif
 Type d'hémoglobine : AA

MOTIF D'EVACUATION :

Bilan complémentaire et cure chirurgicale éventuelle d'une cardiopathie

ANTECEDENTS ET FACTEURS DE RISQUES :

Né à terme,
 La maman de l'enfant absente, le papa n'arrive pas à satisfaire à l'ensem
 Enseignant de profession, niveau collège et à 500km de Bamako.

HISTOIRE DE LA MALADIE :

Cardiopathie manifestée par des dyspnées et squatting qui vont motivés d'où ils sont référés sur l'hôpital Mère-Enfant.

EXAMEN CE JOUR :

Etat général bon, Apyrétique, Eupnéique au toucher, Hippocratisme digit cyanosée.

EXAMEN CARDIOVASCULAIRE :

Pouls périphériques présents, absence de signe périphérique d'insuffisance percu sur la voie pulmonaire

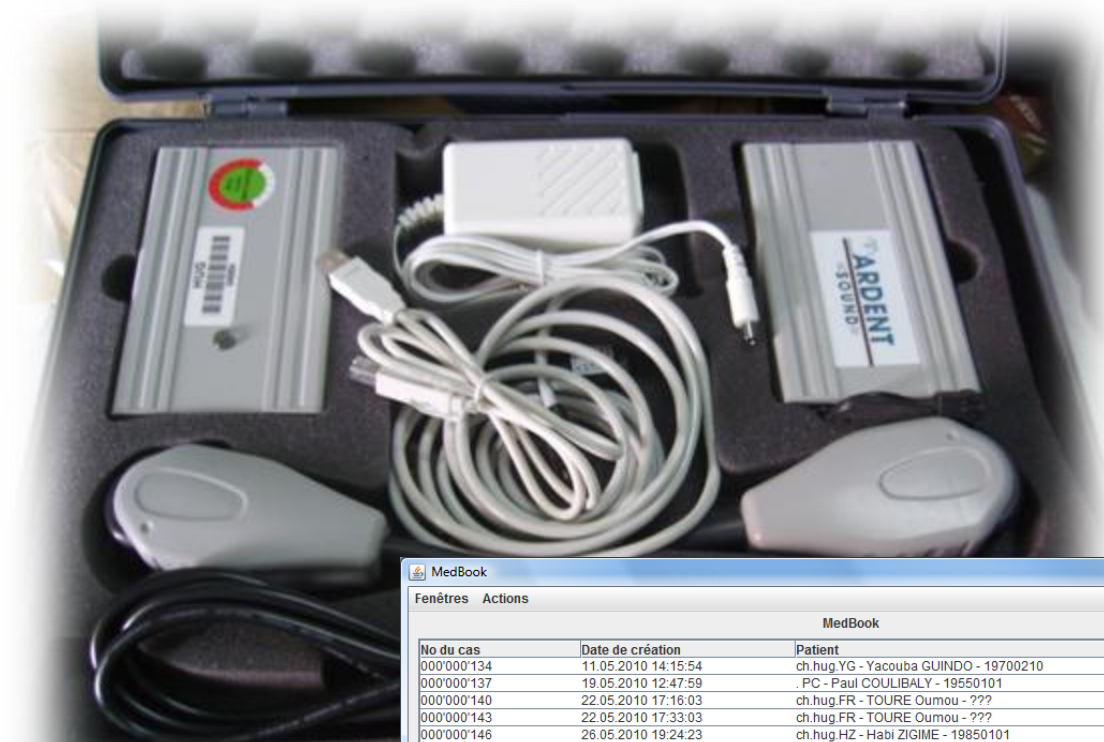


New diagnostic tools with remote expert support

- Obstetrical/abdominal ultrasonography
- Electrocardiography



Tele-echography



MedBook

Fenêtres Actions

No du cas	Date de création	Patient
000'000'134	11.05.2010 14:15:54	ch.hug.YG - Yacouba GUIINDO - 19700210
000'000'137	19.05.2010 12:47:59	.PC - Paul COULIBALY - 19550101
000'000'140	22.05.2010 17:16:03	ch.hug.FR - TOURE Oumou - ???
000'000'143	22.05.2010 17:33:03	ch.hug.FR - TOURE Oumou - ???
000'000'146	26.05.2010 19:24:23	ch.hug.HZ - Habi ZIGIME - 19850101
000'000'149	26.05.2010 19:26:13	ch.hug.HZ - Habi ZIGIME - 19850101
000'000'152	27.05.2010 23:32:01	.AF - Awa FOMBA - 19900101
000'000'155	27.05.2010 23:36:50	.AF - Awa FOMBA - 19900101
000'000'158	27.05.2010 23:44:14	.AF - Awa FOMBA - 19900101
000'000'161	27.05.2010 23:56:48	.AF - Awa FOMBA - 19900101

Patient: .AF - Awa FOMBA - 19900101
No du cas: 000000152
Date de création: 27.05.2010 23:32:01

Auteur: AF
Date: 27.05.2010 23:32:01

csref de diolia

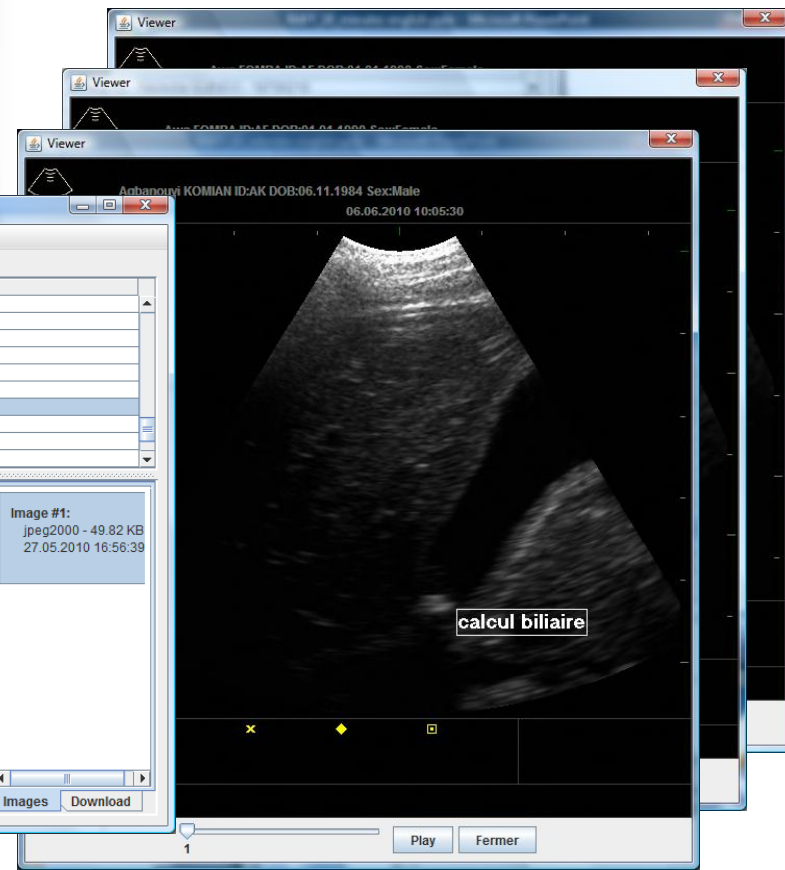
Dr Tiefolo/ Dr diabate

il s'agit des images d'une patiente de 20 ans venue pour douleur abdominale sur une amenorree de 6 semaines. les series conserment la meme patiente. force est de reconnaitre que que nous avons eut quelques difficultes pour la realisation de l'examen notamment le reconnaissance des structures anatomiques

Nous avons pense sur le premier image a la vessie en semi repletion

Image #1:
jpeg2000 - 49.82 KB
27.05.2010 16:56:39

Images Download



VIPS: a virtual patient simulator

- To develop operational skills in unfamiliar contexts
- Based on the « white page paradigm »



Deployment status as of 2011

- Project started in 2001, now active in 18 countries, with a network of 30 local coordinators and a team of five collaborators in Geneva
- 16 hours of e-courses per month, **80% of which are now produced in Africa**. On average, 15 different sites are connected for these courses (record to date: 42 sites with a total of 1000+ participants). E-courses are generally followed by 30 minutes of discussion involving all participants
- Currently, the network is mostly deployed in reference hospitals (35 active sites in national and regional hospitals), and in some remote sites (30 district and rural hospitals)



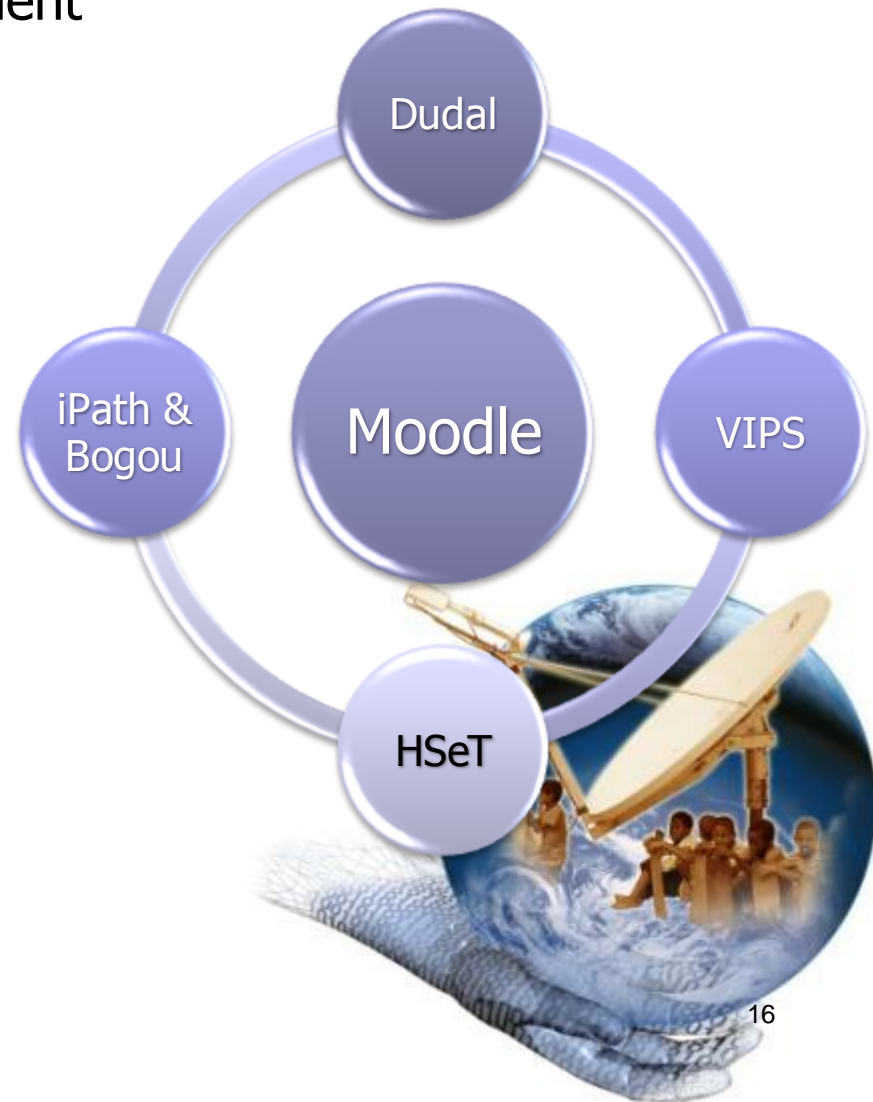
Towards certificates and diplomas

- Teaching activities are recognized by CAMES
- Pan-african training program for specialists (Jinou)
- CAS awarded by the Senghor University
- Development of a learning management system for evaluation and distance tutoring



Towards life-long learning

- Integrate e-courses, e-learning, patient simulator and teleconsultations
- Identify and track learners
- Couple training and evaluation
- Enable more sharing of professional experiences between learners
- Proximity tutoring
- Certification



The « scale-up project » in district hospitals

- Industrialize the deployment in district hospitals
 - Level of care and isolation most consistent with telemedicine applications
- Evaluate new diagnostic tools coupled with remote support
- Team-up for the implementation of public health and clinical information systems
- Experiment with portable platforms
 - To make use of the fast-growing cellular telephony infrastructure



Development of local expertise centers

- Centre d'Expertise et de Recherche en Télémédecine et e-Santé
- Team of 10 people, based in Bamako, active in training, operational coordination, development and evaluation of tools for telemedicine and eHealth, involved in the large-scale deployment of hospital information systems nationwide
- Directed by le Dr Cheikh Oumar Bagayoko MD, PhD, lecturer in medical informatics at the Mali University Faculty of Medicine
- Able to obtain competitive funds



Towards quality and trustworthy online information

- Collaboration with the Health-On-the-Net Foundation
 - Certification of trustworthy web sites based on a code of conduct
 - Assistance to improve the quality of websites
- Representations in Mali and South Africa



The Africa Build project

- Develop excellence centers for healthcare, teaching and research in Africa
- Priority domains: AIDS and reproductive health
- Financed by the European Union
- Partners in Africa: Mali, Cameroon, Ghana, Egypt
- Partners in Europe: UPM (Madrid), Uni Geneva, WHO, Antwerp Tropical Institut

Africa BUILD



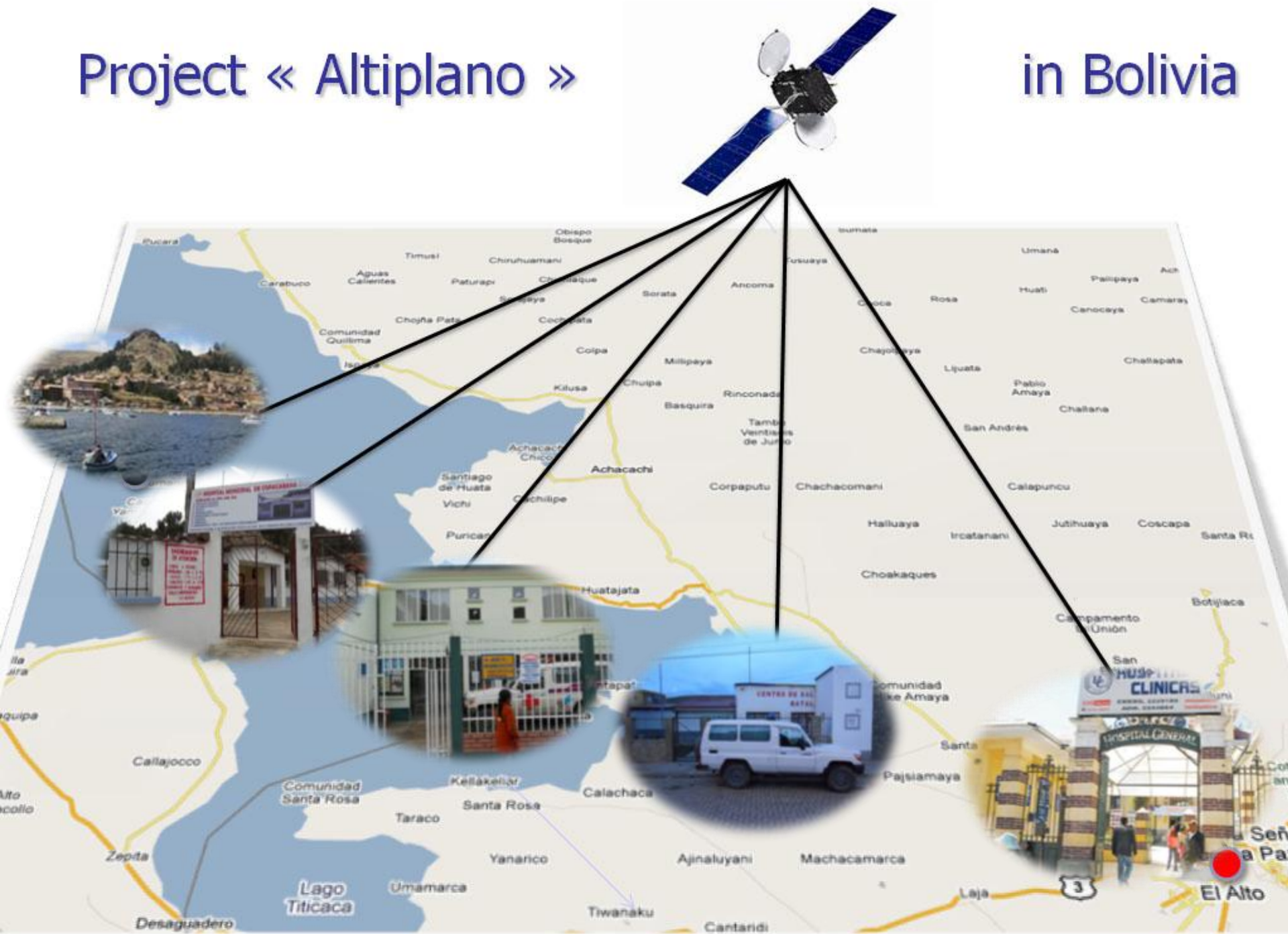
Telemedicine with Kandahar (Mirwais hospital)

In Kandahar, many wounds of

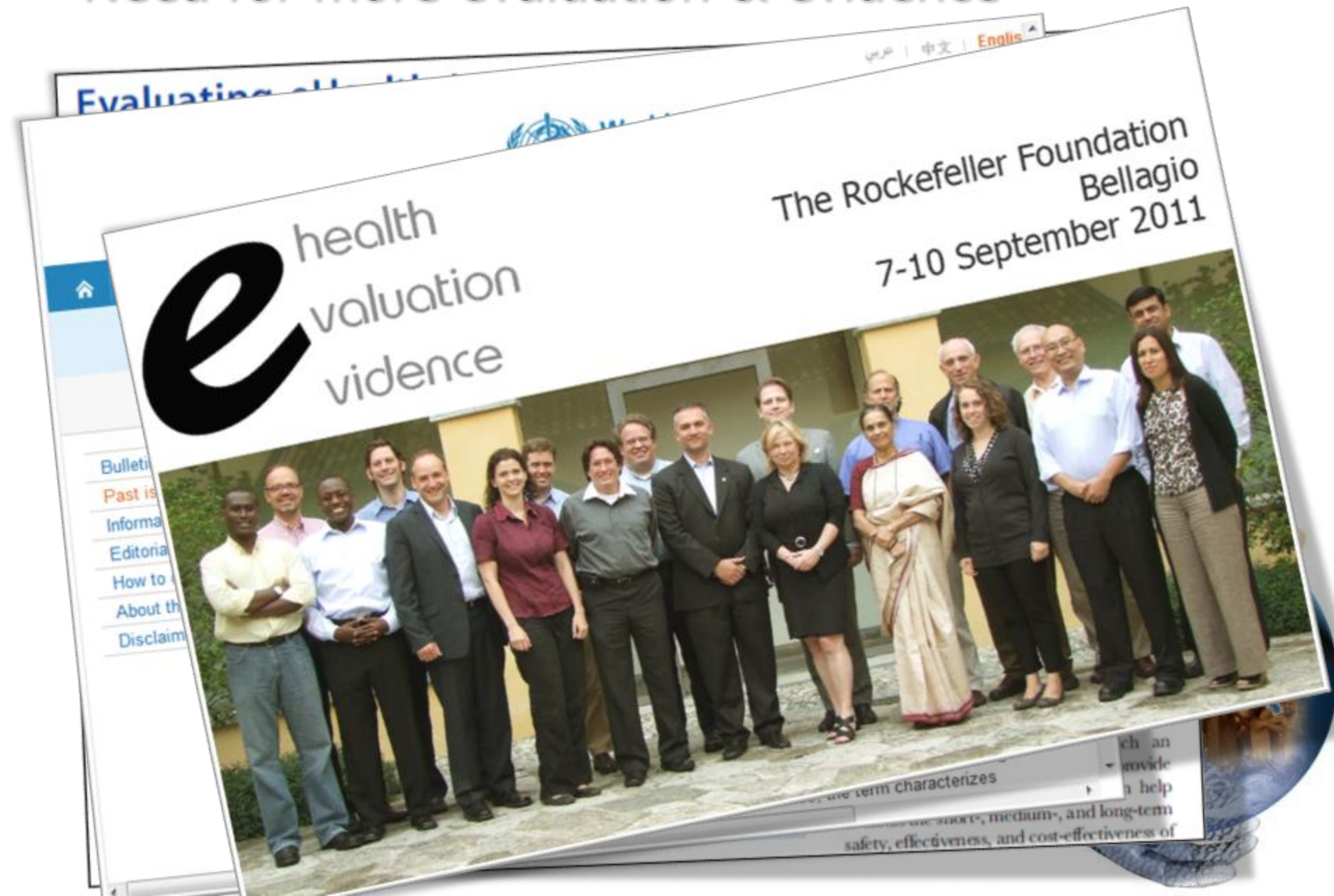


Project « Altiplano »

in Bolivia




Need for more evaluation & evidence





GENEVA HEALTH FORUM

APRIL 18-20 2012

[Conference Overview](#) - [Participate](#) - [Practical Information](#) - [Programme](#) - [Media Room](#) - 



Search...



Contact us

 [Send a message to the GHF12 team](#)



Follow us on Twitter



Welcome Message

The Geneva Health Forum (GHF), a key event for those wishing to hear the voice and insights of the



Submissions

Geneva Health Forum invites you to submit your project or research abstract



GHF12 Calendar

Important dates for the up and coming Geneva Health Forum 2012



Geneva Health Forum
Genevaforum

What Happened at the UN HLM on NCDs?
CSIS Live Webcast Sept 29, 2011 12:30pm - 1:00pm

RAFT

http://raft.hcuge.ch/

réseau RAFT network

soutenir les professionnels de la santé là où on en a le plus besoin
supporting care professionals where they are most needed



Nouveautés: le réseau, actif depuis 2001 et présent dans 15 pays d'Afrique francophone, a, depuis octobre 2008, étendu ses activités en anglais, afin de répondre à la demande de nombreux partenaires. Des émissions en arabe débiteront en 2009.
Toutes les nouvelles...

News: the network is active since 2001 and currently present in 15 French-speaking African countries. Since October 2008, it has extended its activities in English.
More news about the RAFT...

Les sessions de formation continue sont diffusées chaque semaine sur l'environnement Dudal qui fonctionne avec une faible bande passante. Le programme est défini par un comité de lecture international. L'accès est libre:

- programme des **cours en français**
- programme des **cours en anglais**

Distance continuing education sessions are webcast on a weekly basis using the Dudal low-bandwidth environment. The program is defined by an international educational committee. Access is free:

- **Dudal installation guide**
- program of **French-speaking sessions**
- program of **English-speaking sessions**




Web: <http://raft.hcuge.ch>

e-mail: antoine.geissbuhler@hcuge.ch