



# WirelessU and WNDW: An Approach to Capacity Building

**2012 ICTP-ITU/BDT School on Sustainable Wireless ICT Solutions for Environmental Monitoring**

**February 2012**

# WirelessU: Why?

- Education is the key enabler:
  - Technology is not limiting deployment
  - Policy generally OK now also
- Internet can be extended by local groups; telco's are not the groups that can grow the Internet
- Broadband in rural requires lower cost service
  - \$4/month broadband?
  - Moore's Law supports this

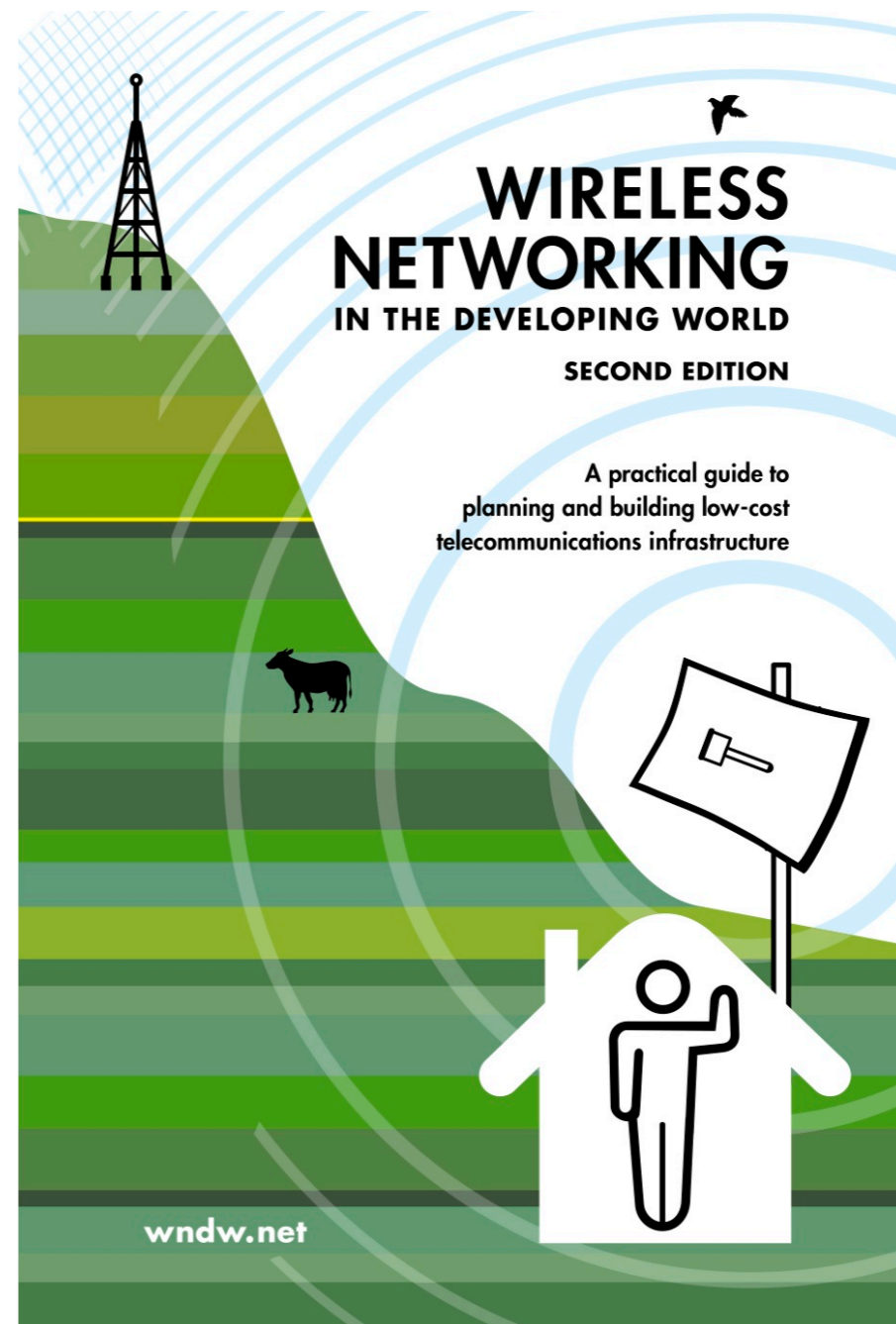
Locally-based deployment improves the local economy and creates good jobs





# WNDW: Wireless Networking in the Developing World

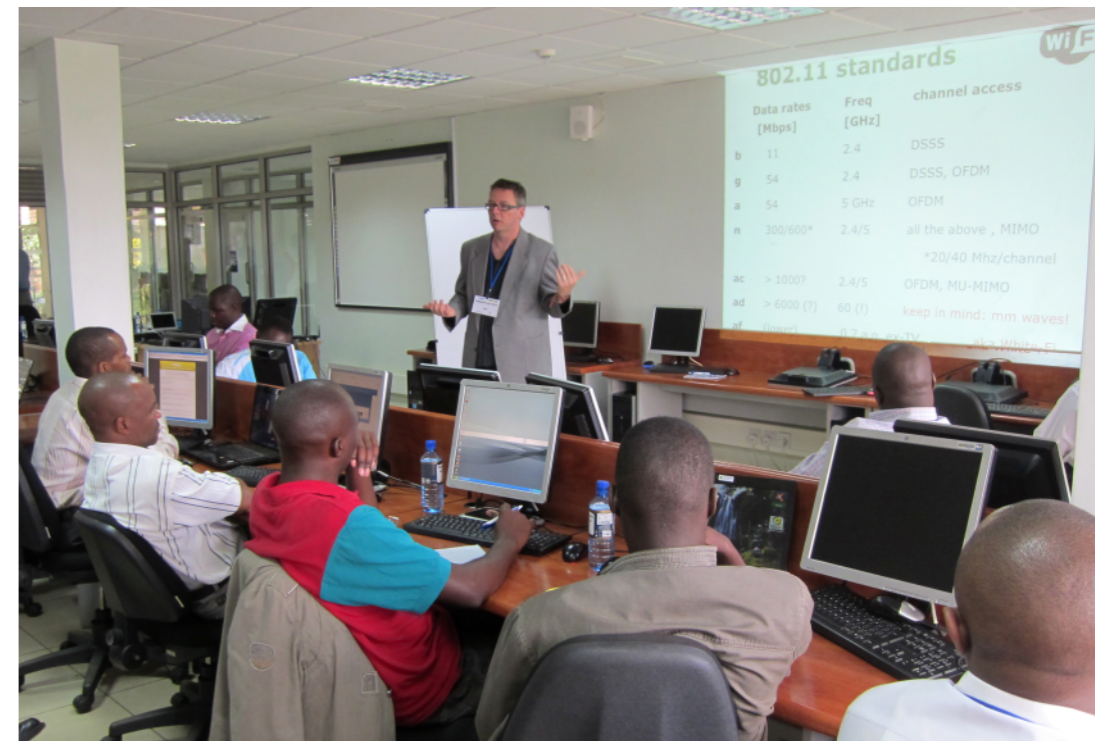
- An Open Source Book
- Started with a one-week 'Book Sprint', in Oct 2005
- Published (Creative Commons), via [wndw.net](http://wndw.net) and [lulu.com](http://lulu.com)
- 2nd edition, plus translations into French, Spanish, Portuguese, Arabic, Indonesian
- 3M downloads, 1000 hardcopy/year
- Version 3 is going to launch mid year 2012.



# WirelessU: A Concept for Local Training

- Training should be local and hands-on
  - Lectures, Labs
  - Local Projects
- WiFi is well suited for lower-income areas
- [www.WirelessU.org](http://www.WirelessU.org)
- WirelessU on Facebook - active support to students building wireless networks.

[https://www.login.facebook.com/groups/wirelessu/?notif\\_t=group\\_r2j](https://www.login.facebook.com/groups/wirelessu/?notif_t=group_r2j)





# WirelessU: What?

- Outcome: Students will know how to deploy WiFi for Broadband Internet
- Expert, experienced trainers
- Lectures, Labs
- Prerequisites:
  - TCP/IP, working knowledge of UNIX
- Options:
  - Three Day “Boot Camp”
  - One Week Basics
  - Two Week Advanced, with Local Installation Project



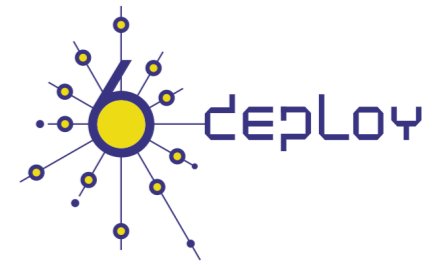
## WirelessU:

### 2 exciting new projects -

**Collaboration with 6Deploy to prepare a curriculum for IPv6 sensor nets. Workshops will begin delivering in 2012.**

**Collaboration with Inveneo to prepare and deliver the training curriculum for BB4G (Broadband for Good)**





## Collaboration with 6Deploy

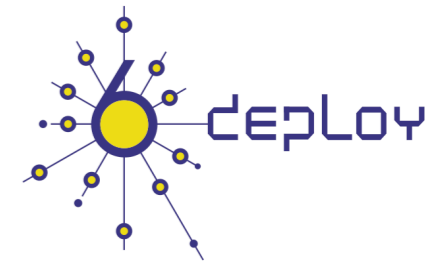
6DEPLOY-2 is funded by the EC as a Support Action for the deployment of IPv6 in:

- Countries such as Africa, Latin America, Asia and E. Europe, where there is/will be a huge demand for addresses
- Research infrastructures ... which support all fields of science and technology
- Other EU projects
- Commercial organisations

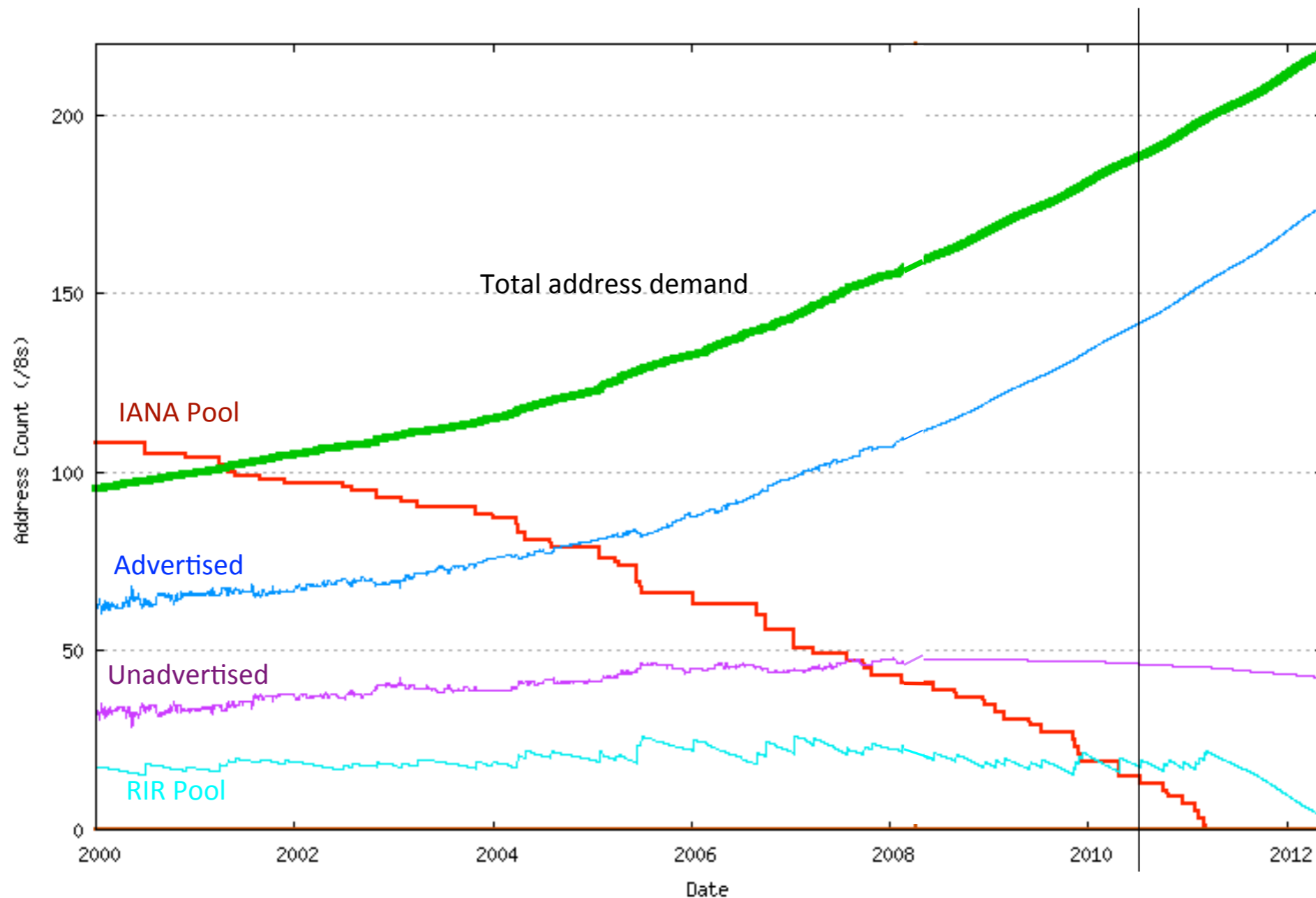
Started in 2008 (“6DEPLOY”) and now continues until 2013 (“6DEPLOY-2”)



# Why 6DEPLOY-2 is needed

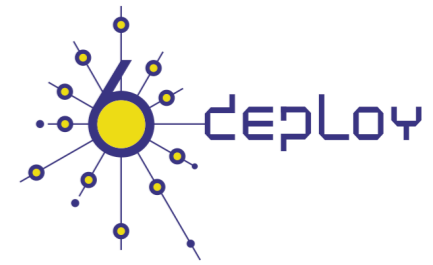


The pool of IPv4 addresses will be exhausted in 2011. Regional Internet Registries (Afrinic, LACNIC, APNIC, RIPE, ARIN) will not be able to ask for IPv4 address blocks afterwards

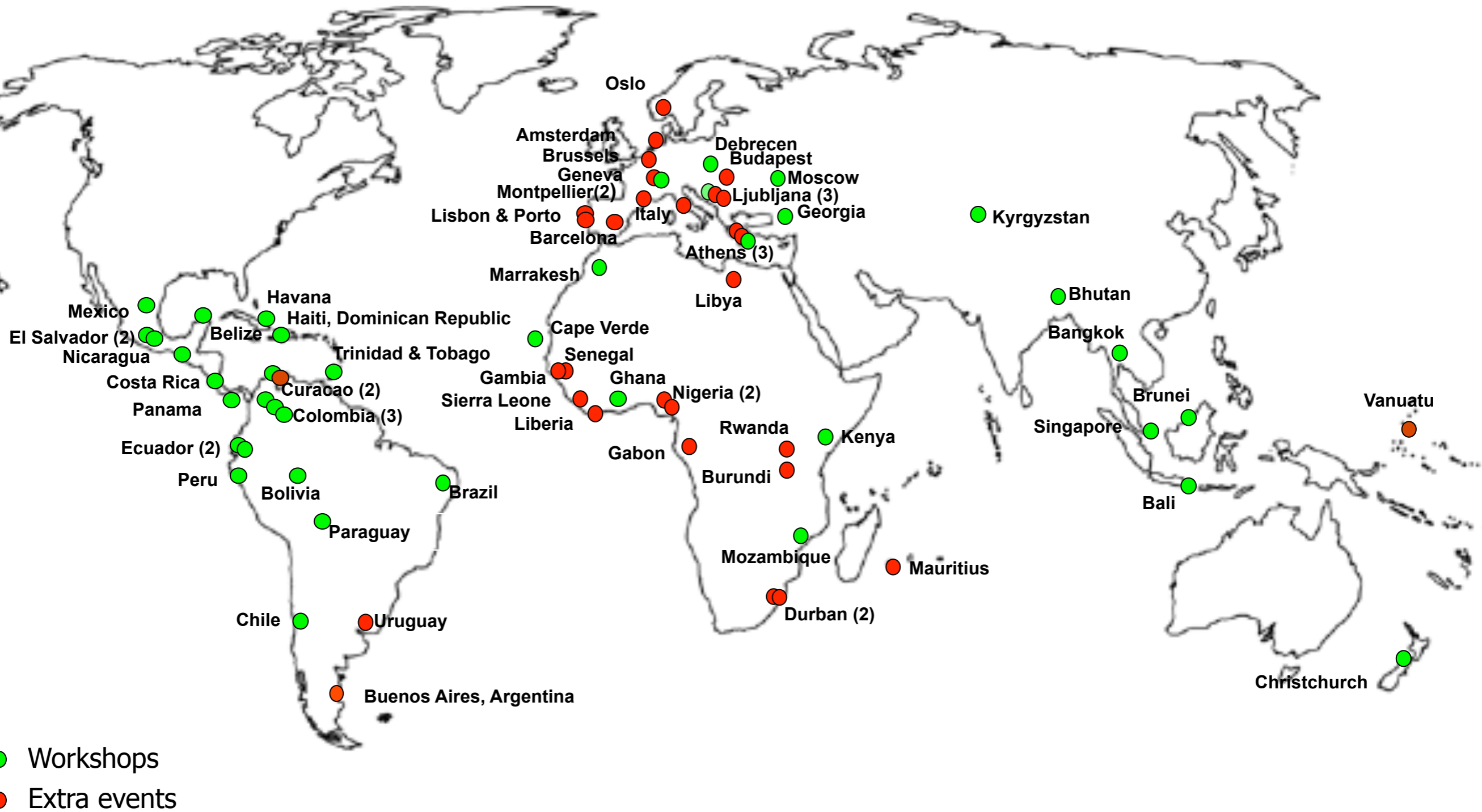


Source: Geoff Hosten  
<http://www.potaroo.net/presentations/index.html>





# 6DEPLOY - Training



**Collaboration with Inveneo to build a training curriculum for BB4G.**

**[http://www.inveneo.org/newsfeed/broadband\\_for\\_good](http://www.inveneo.org/newsfeed/broadband_for_good)**

**Training programme will be ready in a month. Delivery will be part of the BB4G field demonstrator projects.**

**Bob Marsh is here to give you a full update!!**

Thank You!

