

- Wireless Broadband Access Everywhere
  - *A forum to promote genuine, advanced broadband for all users and vendors, wherever they may be*
- Open to everyone
- Initiated by the EU Sixth Framework project  
**BROADWAN**

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24-May-05-1

- Continuing subscriber growth (all technologies)
- Faster Broadband service offers:
  - 16 Mbps+ In current infrastructures
  - Ultrafast (20 Mbps++ in Japan, Sweden, Korea) in improved wired architectures
- New applications and contents:
  - Audiovisual rich media content over IP
  - High Definition Video
  - Voice over IP enhanced features
- Need for seamless access through heterogeneous networks

- New decentralised architectures
- Need for lower cost standard systems
- Use of new frequency bands (critical issue)
- Need for mixed broadcast-telecom architectures
- Interworking / handover between networks (fixed-fixed, fixed-mobile, broadcast-unicast)
- Requirement for clear boundaries between network, service and applications

- A pan-European vision (not just UK or US)
- A forward looking perspective (not simply business today)
- Targeting genuine broadband services for all regions
- System view: Incorporation of fixed wireless access systems in a heterogeneous network architecture
- Investigation for higher frequency bands, but includes the lower bands (e.g., 3-5 GHz) as well.

- Efficient implementation of fixed and nomadic wireless access systems
- Media rich content capability
- Heterogeneous broadband network architecture
- Targeting user requirements for broadband services in all regions

- Disseminating the project results / achievements
- Promoting the wireless technology both on the technical and economical aspects
- Establishing a shared resource of information on , projects, products, deployments, actors
- contributing on harmonization between standards, and towards systems interoperability;
- Solving the issues which may occur

- Broadband wireless access roadmap
- Broadband wireless access architectures
- Next generation millimetre solutions
- How to provide rural areas broadband access
- Planning tool for automated planning of cost optimised hybrid networks
- Innovative radio technologies for low cost access solutions
- Propagation guidance for the design of broadband access networks in the frequency range 2-42 GHz

- Project dissemination
- Information sharing platform
- Wireless promotion
- Members' discussion area
- Links to standards bodies
- Liaison with industry consortia
- Both technical and economical aspects



- Cooperative networks
- Issues with delivery of AV services over wireless
- System issues (transport layers, resource reservation)
- Use of high frequency bands (40 GHz and above)

- General Assembly (all members)
- Steering Group (Telenor, Cegetel, Thomson, IBBT, Alvarion, JCP)
- Working Groups:
  - Technical Working Group (C. Howson, Thomson)
  - Marketing Working Group (B. Bortz, Alvarion)
- BROADWAN Partners are Founding members
- Full members

# What has happened

- New members recruitment (33 currently, discussion with +/- 50 additional)
- Technical and marketing working groups scope definition:
  - Satellite focus group
  - Cooperative network activity

- Positioning of satellite in broadband access (technical and economical aspects)
- Technical solutions for cost optimisation
- Satellite interworking in mixed architectures (cooperative networks, satellite/WIFI-WIMAX)
- Satellite roadmap
- Satellite promotion as broadband access

- Positioning of the different solutions:
  - Mobile broadcast-broadband:
    - DVB-H / X – 3G
    - DVB-H –WIMAX
    - WIMAX positioning
  - Fixed solutions
- Analysis of gaps in reference architecture / gaps in use cases and mobility scenarios
- Spectrum issues
- Analysis of remaining issues

# What is planned

- Refine working group activities
- Extend membership
- Consolidate activity related to digital divide
- Consolidate steering group with new members

- Forum statutes (non profit association): end of May
- IST mobile summit: booth within BROADWAN
- 23 June (Dresden): common workshop with BREAD and BBcluster
- First GA/working groups meetings: September, Paris.
- Broadband Europe (12-14 december, Bordeaux)

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- Alvarion
- Cegetel
- JCP-Consult
- Telenor
- Thomson
- IBBT
- BUTE
- CCLRC
- CNRS
- CoRiTel
- IDATE
- IIES
- InfoGLOBAL
- Joanneum
- Moviquity
- Navus
- Nera
- Telecom.CLM
- Telecoms Connect
- Thales

- Thales-Communications
- T-Systems
- Uni.comSpA
- Uni-Buckingham
- Uni-Cardiff
- Uni-Cluj
- Uni-Salzburg
- Euskaltel SA
- Jipo
- South Witham Broadband
- Uni-Bradford
- New potential members
- DLR
- SES-Global
  
- FT
- TDF

- Access to Broadband Campaign
- Agilent
- Antonello
- Uni-Brunel
- CIT-Adaptive Wireless Systems
- CNIT
- CRC Canada
- Hélène Abrand Consulting
- Independent Consultant
- Indian Institute of Technology
- TelikomPNG
- Tura 4i
- Wirksworth Connect
- UKERNA
- GET-ENST
- Motorola
- Motorola Labs
- Qualcomm Europe
- ST Microelectronics
- BCAMS
- NASK
- Siemens Mobile
- Alcatel-Evolium
- Andrew Corporation
- ARRIS
- DoCoMo Communication Lab Europe
- Embeddia
- Ensemble Communication
- Ericsson (B)
- Harris Corporation

Infineon Technologies AG  
Intracom  
Leeds University  
Nozema  
Pace Micro Technology  
RFI (Radio Frequency Investigation Ltd)  
RFsolutions Inc  
(ANADIGICS ?)  
Robotiker Fundacion  
Sequans Communications  
Teamcast  
Technical University of Delft  
Telecom Italia SpA  
Wireless Medium

AT&T Labs  
CATR (China Academy of Telecommunication research of MII)  
Chunghwa Telecom Laboratories  
CIISE Concordia Institute for Information Systems Engineering  
Crown Castle International  
Deutsche Telecom (TSN)  
Elektrobit GmbH  
Ericsson (S)  
Eurescom GmbH  
France Télécom  
Fraunhofer Institut für Sichere Telekooperation  
HW Communications  
IBM  
Institute for Infocomm Research (I2R)  
Intel Corporation  
Italtel  
King's College London  
LG Electronics Inc  
Lucent Technologies  
Mitsubishi Electric ITE-TCL  
NDS Technologies  
NEC Europe  
Nortel Networks  
Panasonic  
Philips; ROYAL Philips Electronics  
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