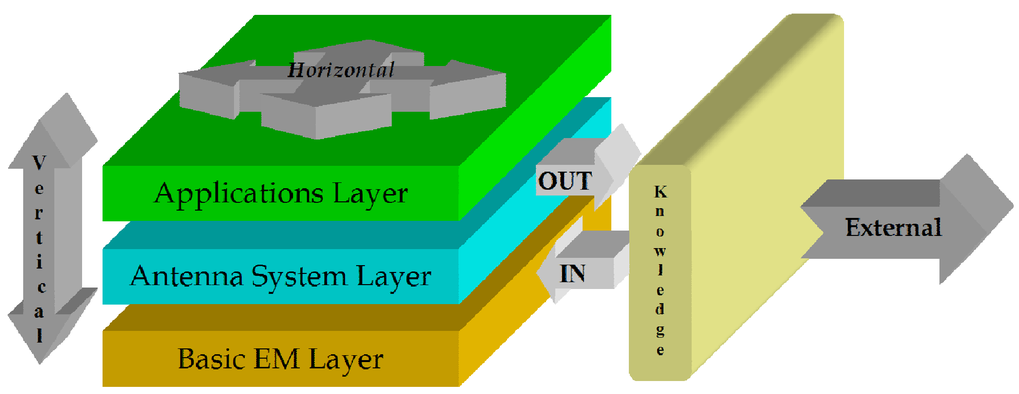
FP6-IST
Network of Excellence

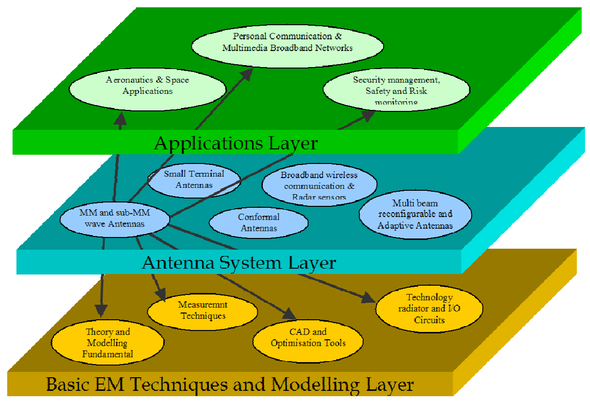
Information Society Technologies

ACE - Antenna Centre of Excellence

Project acronym :	ACE	**Contract type :**	NoE	**Total Costs:**	13.534.000 € (EC Contribution : 10.500.000 €)
Project name :	Antenna Centre of Excellence	**Start date :**	01/01/2004	**Researchers:**	384 (96 PhD) + 521 in ACE Community
Project URL :	www.antennasvce.org; www.ist-ace.org	**End date :**	31/12/2007	**Action lines :**	Mobile and wireless system beyond 3G
Project reference :	IST-2004-508009; IST-2006-026957	**Project duration:**	48 months	**Clusters :**	SB3G, B4ALL, BAI

Structuring Efforts

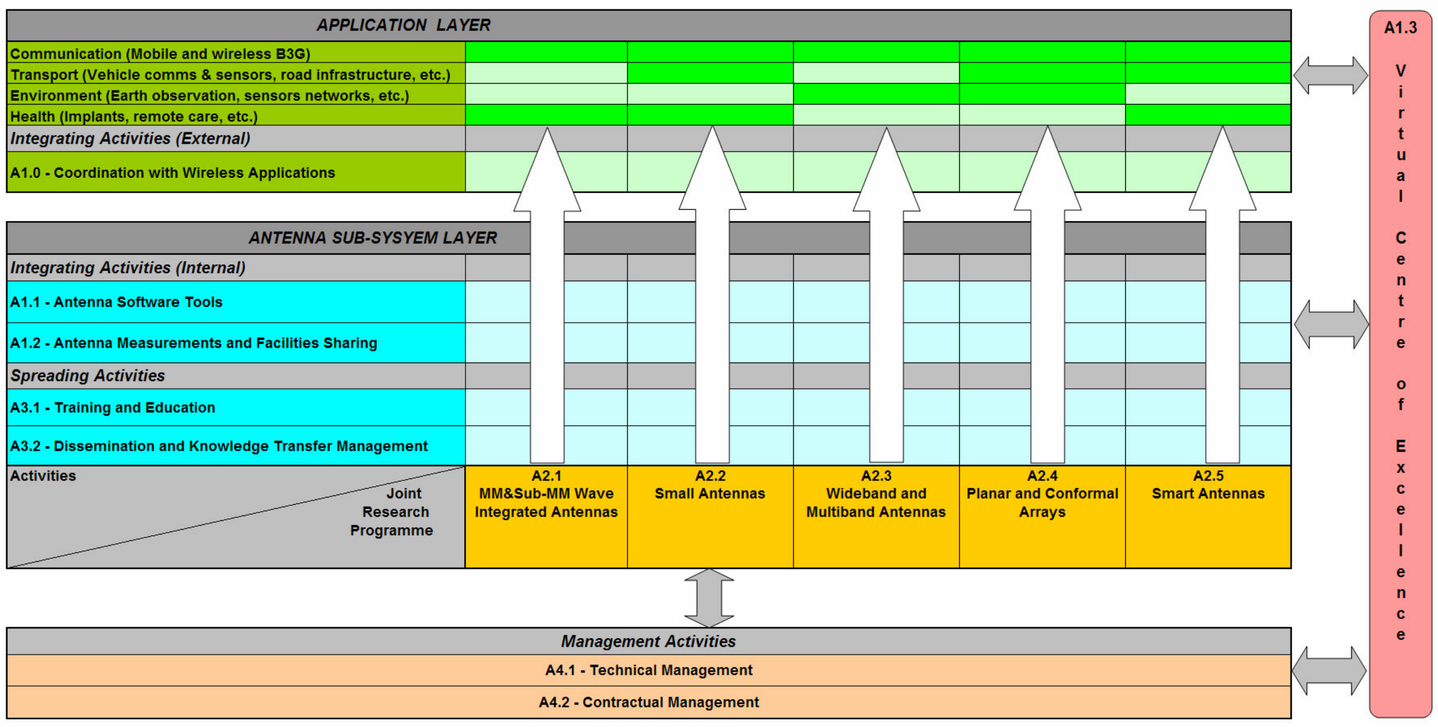




Joint Programme of Activities

Horizontal Activities

Coordination with Wireless Applications; to coordinate the Network effort with the external application Projects at National and European level.
Antenna software tools: to list the existing software for Antenna Design and make comparisons between them by using test examples; to select groups of software to be integrated and made available with documentation and support.
Antenna measurements and facility sharing: to list the available test ranges, their capabilities and performance; to obtain reference test objects to be used for test facilities evaluation; to optimise and standardise test procedures.
Training and education: to offer courses for doctor's degree combining the best available in Europe; to make available on the Web Antenna e-Learning; to improve the usage of the educational material already available in Europe.
Dissemination and knowledge transfer management: to spread knowledge, by Conferences and Workshops, towards users and industry; to establish suitable partners co-operation with organisations within and beyond the network.
Virtual Centre of Excellence: to create an Internet Portal focused on Antenna Research; scientific information, educational material, reports from the ACE activities, links to all ACE Participants well as software, will be available.



Vertical Activities

MM-& sub-mm waves/Integrated antennas:
- Active integrated antennas
- Passive mm and sub-mm antennas
- Benchmarking manufacturing facilities
- Design and test of mm and sub-mm/Integrated antennas

Small antennas:
- Small terminal antenna technology
- Benchmarking of measurement facilities
- Advanced, reconfigurable MIMO tranceivers
- System level smart antenna strategies

Wideband and multiband antennas:
- Wideband & multiband radiators
- Reflector surface models
- Antennas for surface penetrating radars

Planar and conformal arrays:
- Optimisation of active antennas architecture
- Beam-forming techniques
- Structuring research on conformal antennas

Smart Antenna Systems:
- Space-time processing for next generation wireless systems
- MIMO channel modelling
- Deployment issues and business models

Consortium (51 Participants)

Contacts

Network Co-ordinator

Dr. Bruno Casali
IDS Ingegneria dei Sistemi spa
Via Livornese 1019
56010, Pisa Italy
Tel: +39 050 3124 241
Fax: +39 050 3124 201
Email: b.casali@ids-spa.it

Technical Co-ordinator

Dr. Per Ingvarson
Saab Ericsson Space AB
Delsjoemotet
40515 Goteborg, Sweden
Tel: +46 31 735 4002
Fax: +46 31 735 4000
E-mail: per.ingvarson@space.se

ACE VCE: www.antennasvce.org **ACE : www.ist-ace.org**