



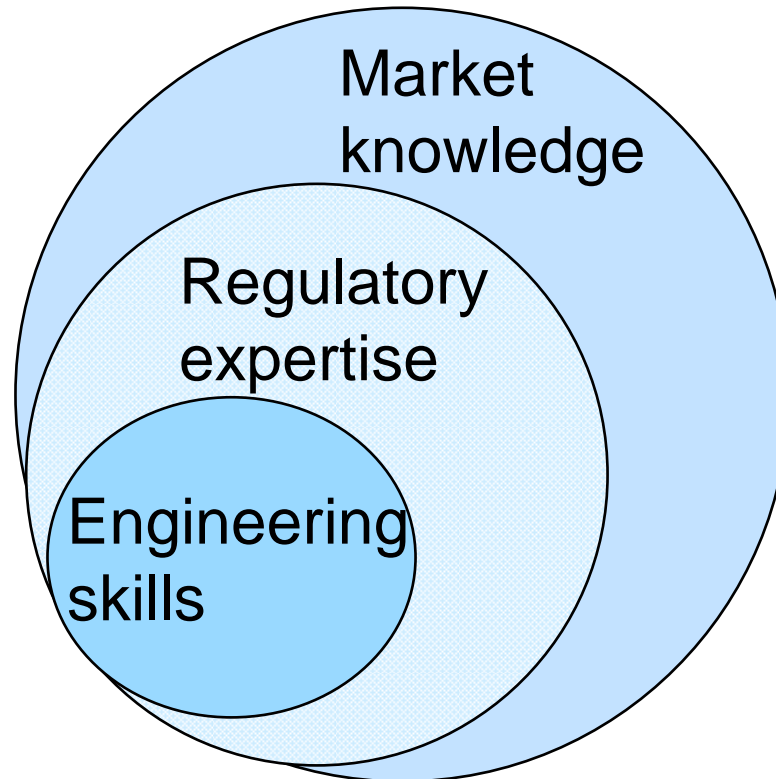
Introduction to Aegis Systems Ltd

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Company

- ◆ Founded in 1988
- ◆ Based in the UK with global client base
- ◆ Specialists in radio spectrum engineering and management
- ◆ Entirely independent and impartial
- ◆ Well established reputation for quality of work
 - ... core focus is upon excellence in radio

Professional Consultancy



... multidisciplinary team ensures all aspects (technical, regulatory, market and business) can be considered

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Capabilities

Engineering:

- ◆ radio interference and propagation modelling
- ◆ system sharing studies
- ◆ co-ordination and satellite filings
- ◆ terrain modelling / orbital dynamics
- ◆ measurement programmes for experimental work and field testing
- ◆ software development to support engineering activities

Capabilities

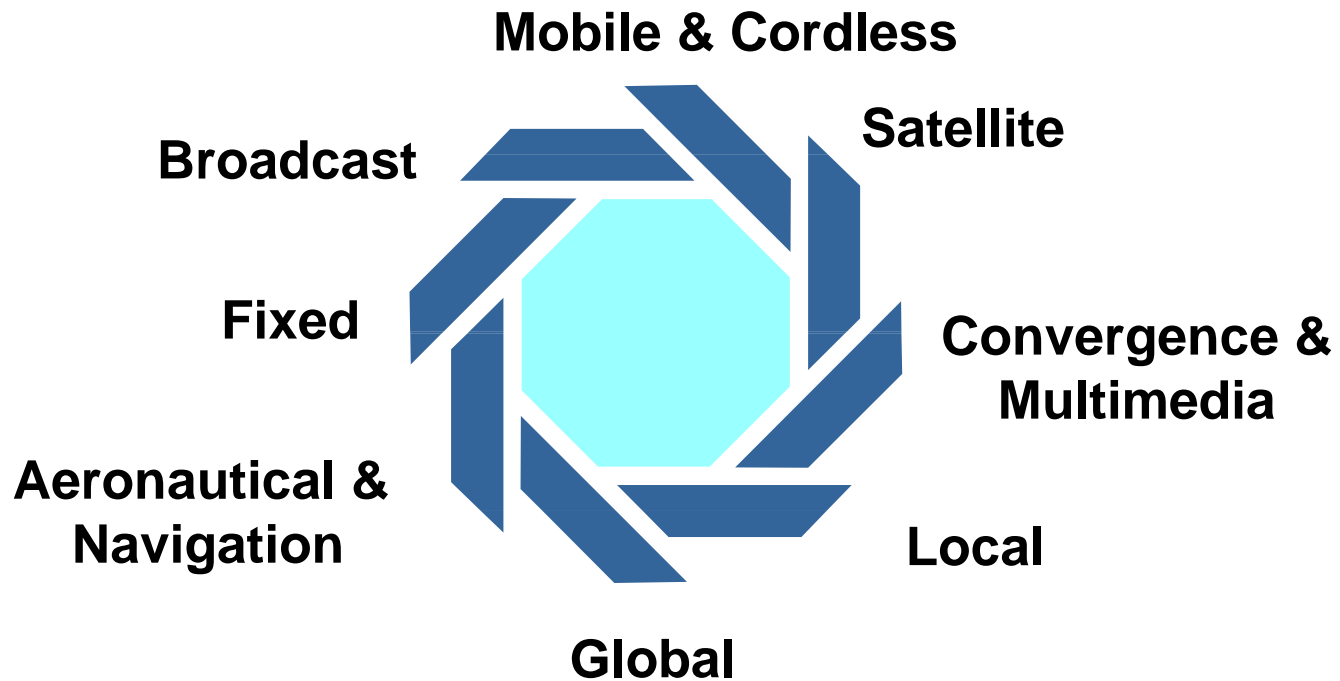
- ◆ **Regulatory:**
 - ◆ technical support to regulators and licensing agencies
 - ◆ representation in ITU, CEPT, ETSI
 - ◆ standards tracking, analysis and authorship
 - ◆ spectrum auctions and licensing competitions
 - ◆ spectrum trading

Capabilities

- ◆ **Markets:**

- ◆ interviewing operators, manufacturers, users
- ◆ data collection, collation and analysis
- ◆ market dynamics, relationships and forecasting

Applications



... we can provide expertise across the full range of radio applications

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Clients

Include:

- ◆ ASETA
- ◆ BBC World Service
- ◆ BNSC
- ◆ Boeing
- ◆ ComReg
- ◆ EETT
- ◆ European Commission
- ◆ Highways Agency
- ◆ Nomura Research Institute
- ◆ NPT
- ◆ Ofcom

Working Approach

Our clients request:

- ◆ Project teams
- ◆ On-site support (meetings etc)
- ◆ Long term support contracts

To undertake:

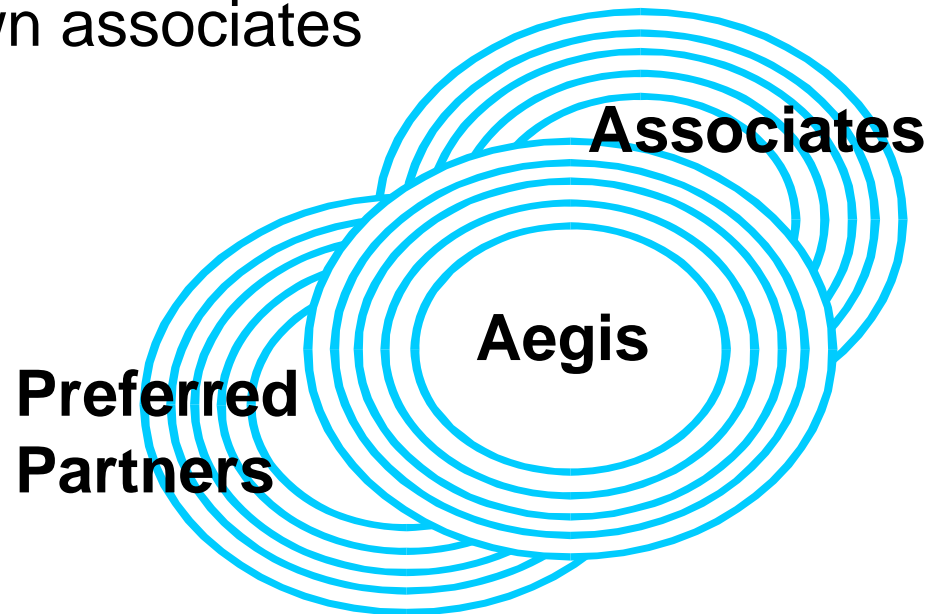
- ◆ Engineering analysis
- ◆ Representation & drafting
- ◆ Market consultancy
- ◆ Software development
- ◆ Strategy / policy development
- ◆ Project management

... we have the flexibility to match your needs

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How We Deliver

- ◆ Aegis will undertake the full project or, as appropriate, work with preferred partners and/or with our own associates



... we match the team or individual consultant to your needs

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Benefits

Our clients benefit from:

- ◆ Reliable, accurate, practical and proven results
- ◆ Independent and impartial advice
- ◆ An immediate, informed and effective response to their needs
- ◆ Motivated, committed, knowledgeable and experienced staff
 - ◆ Who have hands on experience of working for administrations, operators and vendors
- ◆ Quality ISO 9001:2000 certified

... we can build on previous experience and bring an innovative approach to a range of complex challenges

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Our values:

- ◆ Accuracy & reliability in our work
- ◆ Quality & value for our clients
- ◆ Concern & fairness for our staff

... in short **Professionalism**

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Examples of projects

- ◆ Costs & benefits of harmonisation and standardisation in UK
 - ◆ Provided technical support to the economic analysis undertaken by Indepen
 - ◆ Examined a number of case studies
 - ◆ Undertook technical assessment to understand implications of using alternative technologies to deliver same service
 - ◆ Estimated cost implications
 - ◆ Established vendors views through interviews

Examples of projects

- ◆ Re-organisation of the spectrum management division of the EETT (Greek NRA)
 - ◆ Identified best practice for spectrum management in other NRAs
 - ◆ Reported on existing processes and areas where changes could provide efficiencies and greater transparency based on best practices
 - ◆ Proposed business processes for all activities
 - ◆ Developed plan for the organisation of the Directorate
 - ◆ Projected staffing requirements and provided job specifications

Examples of projects

- ◆ Digital broadcasting and convergence
 - ◆ Considered implications of digital switchover and growing convergence
 - ◆ Potential role for new market based approaches to spectrum management
 - ◆ Constraints of technical co-existence
 - ◆ Potential future uses of broadcast spectrum
 - ◆ Multimedia content delivery

Examples of projects

- ◆ Ultra wideband (UWB) studies
 - ◆ Detailed examination of state of research, compatibility issues and identification of areas that need further study
 - ◆ Sharing analysis between UWB automotive radars and fixed links in 23 to 26 GHz band
 - ◆ Potential for interference between UWB devices to fixed links, satellite and satellite earth stations

Examples of projects

- ◆ Licensing of 3G mobile and fixed wireless access
 - ◆ Provided support in licensing process to NRA in:
 - ◆ Development of initial consultation on award of spectrum and presentations to industry
 - ◆ Analysis of responses
 - ◆ Development of actual licensing process and documentation
 - ◆ Analysis of licence applications

Examples of projects

- ◆ Fees and charges for radio spectrum use
 - ◆ Undertook major market study and comparison of spectrum charges for European Commission
 - ◆ Developed, with Indepen, proposals for radio spectrum charges in the UK with emphasis on application of opportunity-cost based fees
 - ◆ Proposed options for determining charges for cellular spectrum for Far-Eastern regulator

Examples of projects

- ◆ Sharing studies:
 - ◆ Co-ordination procedures for BFWA systems at 28 GHz and 42 GHz
 - ◆ Co-existence of radiocommunications and ISM systems in the 2.4 GHz band
 - ◆ PFD and eirp parameters to allow sharing between Aeronautical Mobile Satellite Service and Fixed Links at 14 GHz
 - ◆ Mitigation techniques to improve sharing between Fixed Service and High Density Fixed Satellite Service



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