

## Amphigean Consultancy Services

Amphigean provides a wide range of consultancy services for companies working in the telecommunications industry in both technical and non-technical professional areas. We take on consultancy projects in any global region and have considerable experience in European, Middle Eastern and North American markets. Amphigean is a flexible and responsive company; we complete short duration projects or longer ones involving a large and diverse team of experts. We can perform a supporting role within an ongoing project or we can provide a full project management and reporting service.

### Regulatory, Spectrum Management and Policy Issues

Amphigean's consultants have many year's experience assisting European and Middle Eastern regulators in spectrum and technology issues. Amphigean is fully conversant with the technical and commercial implications of 4G and can assist with:

- Determination of broadband radio access spectrum requirements
- Spectrum refarming requirements
- Release of digital dividend spectrum
- Licensing strategies and effective capitalisation of spectrum
- Analysis of future requirements
- Network interconnect – technical and commercial

### Radio Network Performance and Optimisation

Amphigean's consultants are world leaders in their command of technical issues relating to modern digital radio access networks. They are not only fully conversant with the emerging LTE technology but are also masters of all leading cellular technologies, including UMTS/HSPA/HSPA+, WiMAX, GSM/GPRS/EDGE and CDMA2000 1x and 1xEV. Amphigean can advise and assist with:

- Parameter identification and strategy determination
- Feature evaluation
- LTE SON strategies and feature evaluation
- LTE spectrum utilisation strategy determination
- 2G/3G/4G technology interaction strategy and parameter setting
- Bid planning including cost versus revenue evaluation
- Traffic classification and estimation
- Cell dimensioning
- Coverage and quality testing
- KPI setting, interpretation and evaluation
- Indoor coverage systems evaluation
- Femtocell integration

Let *Amphigean* put the pieces together

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+44 (0)1539 724497



## Vendor and Technology Evaluation

Amphigean's team have an excellent understanding of the capabilities expected of equipment conforming to all modern digital radio access standards, including HSPA+, WiMAX and LTE, and can assist operators in many aspects of vendor evaluation and selection for both network infrastructure and user equipment.

- Feature evaluation
- Comparative evaluation

## Forensic Analysis

Amphigean's consultants' in-depth understanding of modern radio access networks places them in an ideal position to perform or advise on matters relating to location determination as evidence from recovered CDR information. This includes consideration of the continuing rollout of new technologies such as HSPA, LTE and femtocells. In this respect Amphigean can perform:

- Impact analysis for new technologies
- CDR analysis
- Cell site location determination
- Presentation of evidence as expert witnesses

## Technical Support

Amphigean can provide direct or indirect technical support for our customers' engineering teams either as part of a consultancy project or as an independent project.

- Skill and knowledge development strategies
- Training needs analysis
- Technical workshops and seminars
- Question answering service
- Technical reports and white papers

## Product Launch and Sales Support

Amphigean has a unique mix of technical knowledge, business and commercial awareness and excellent interpersonal skills. We have considerable experience in assisting customers with the introduction of new products and services. We can help operators plan the rollout of new services by designing and delivering highly interactive and effective programmes to ensure that both direct sales teams and resellers maximise the sales potential. We are also excellent at providing non-technical professional staff at all levels of the business with the necessary insight into the capabilities and characteristics of the technologies upon which their products are based and upon which their customers depend:

- Product testing
- Sales channel development
- Assessment of sales teams and resellers
- Technology demystification

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