

**Science, Engineering and Regulation – Support for Future Radiocommunications
An Australian View**

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The radio spectrum used by a myriad of systems, providing a range of services to the public, is already crowded, and demand is growing. New approaches are needed to make better use of the spectrum. These approaches include extending our fundamental understanding of radiowave propagation through science, developing more effective and efficient radio systems through engineering, and managing the competing demands by innovative spectrum management techniques. This paper discusses the Australian context of radiocommunication use as well as the developments in science, engineering and regulation within Australia and elsewhere to support the continued growth of radiocommunications for future generations. The necessity for scientists, engineers and regulators to understand each other and work together is also detailed through examples.