



Challenges and Opportunities in Mobile Telecoms Infrastructure: A Materials Perspective

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Outline

- ▶ **Mobile communications traffic is doubling every year, predicted to reach 9 Petabytes/hour by 2015. How will it be possible to provide sustainable, high quality, low cost broadband connectivity to a wireless world? What kinds of infrastructure will be needed?**
- ▶ **Network capacity is being filled by new subscribers with lower revenue per user, rapid current growth in smartphone use and the early roll-out of machine-to-machine wireless internet**
- ▶ **From a materials perspective, this talk offers an insight into how high permittivity, high Q, temperature stable dielectric ceramics can help to address the technical challenges and opportunities facing the wireless infrastructure industry**