### Multiple IEEE 802 Technologies within IMT-Advanced

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Avi Freedman Voice: +972-3-9224420 **Hexagon System Engineering Ltd.** Cell: +972-52-5620002

Petach- Tikva, Israel E-mail: avif@hexagonltd.com

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Purpose:

To help develop a unified IEEE 802 Position towards IMT-Advanced and include multi-technology requirements within P802.16m

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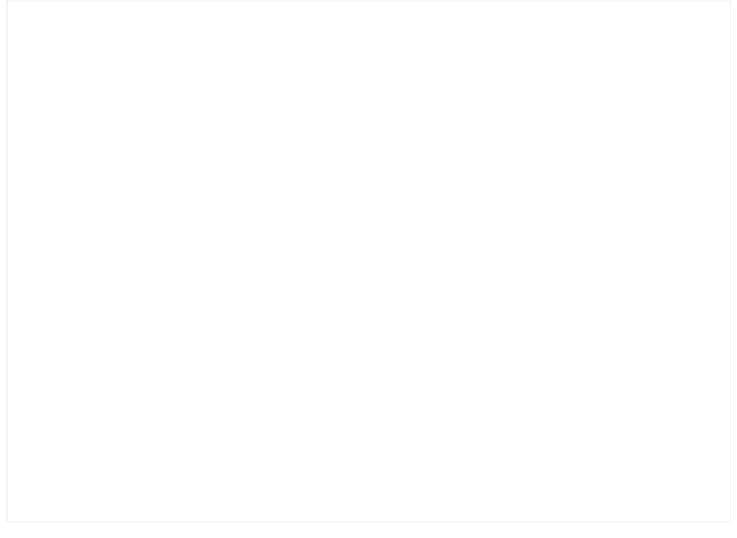
# Multiple IEEE 802 Technologies within IMT-Advanced

Dr. Avi Freedman
Hexagon System Engineering Ltd.

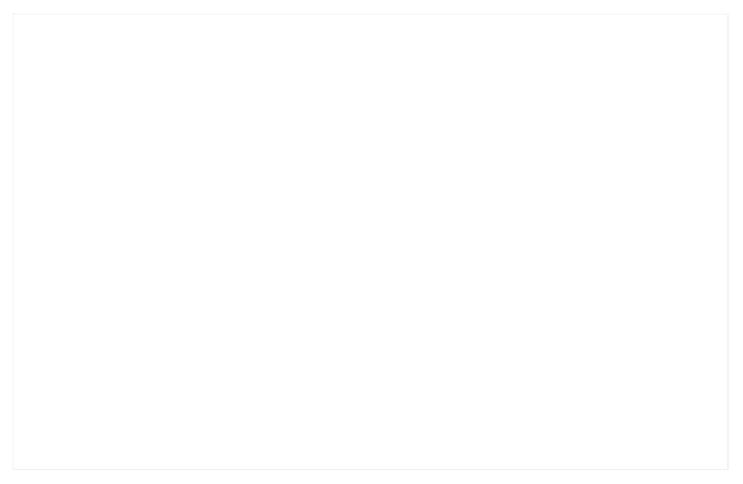
### Some IMT-Advanced Features

- Data Centric
- Packet based core
- Variety of air –interfaces
  - Seamless handover between air interfaces
  - Multi-technology terminals

## From ITU-R P.1645



# Multiplicity of local connectivity

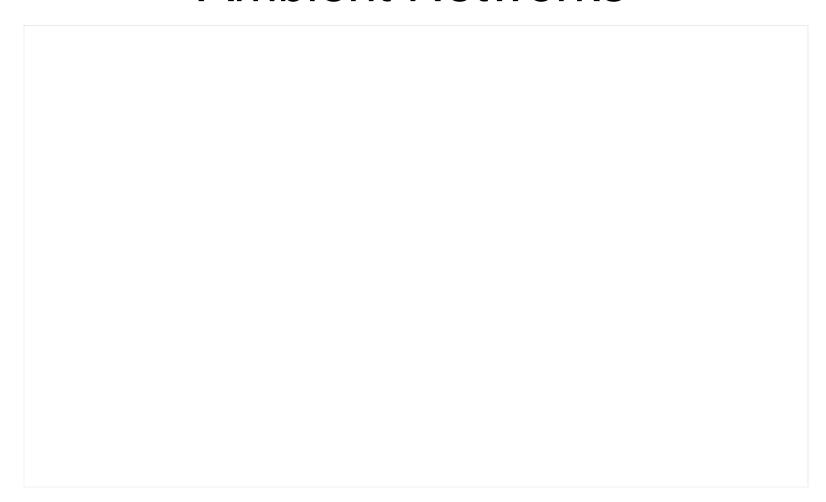


IMT- Advanced workshop, March 2006, Vodafone

### **IEEE 802 Towards IMT-Advanced**

- IEEE 802 is data centric
- IEEE 802 basic architecture is based around a packet core network
- IEEE 802 has a variety of wired and wireless interfaces
- IEEE 802 standards are an integral part of todays' devices and considered to be an integral part of IMT-Advanced devices

### **Ambient Networks**



IMT- Advanced workshop, March 2006, Vodafone

# Unique IEEE 802 Position

 All IEEE 802 working groups will benefit from presenting a unified IEEE 802 position towards IMT-Advanced

# Specific Requirements for 802.16m

- Include mechanism to provide seamless interoperation between different 802 airinterfaces (and others)
- Improve coexistence between different transceivers of the same device



### Conclusions

- P802.16m should include requirements of inter-operability with other air interfaces
  - On the network level
  - In the device level
- 802.16 WG should encourage other group to present a unified 802 position towards IMT-Advanced