

# The Status of National Mobile Services in Ireland

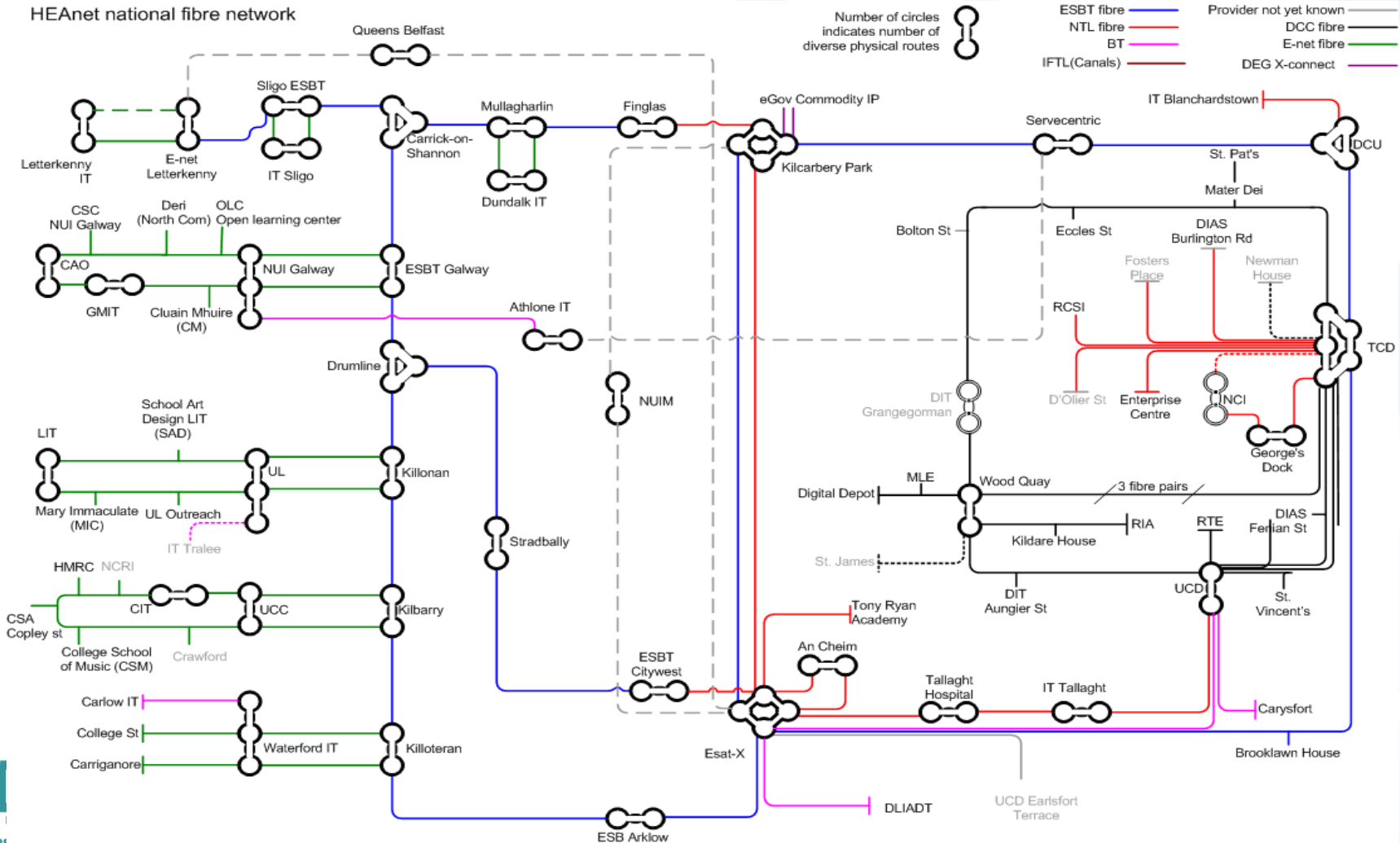
**Mike Norris**

**Head of Research and Innovation**

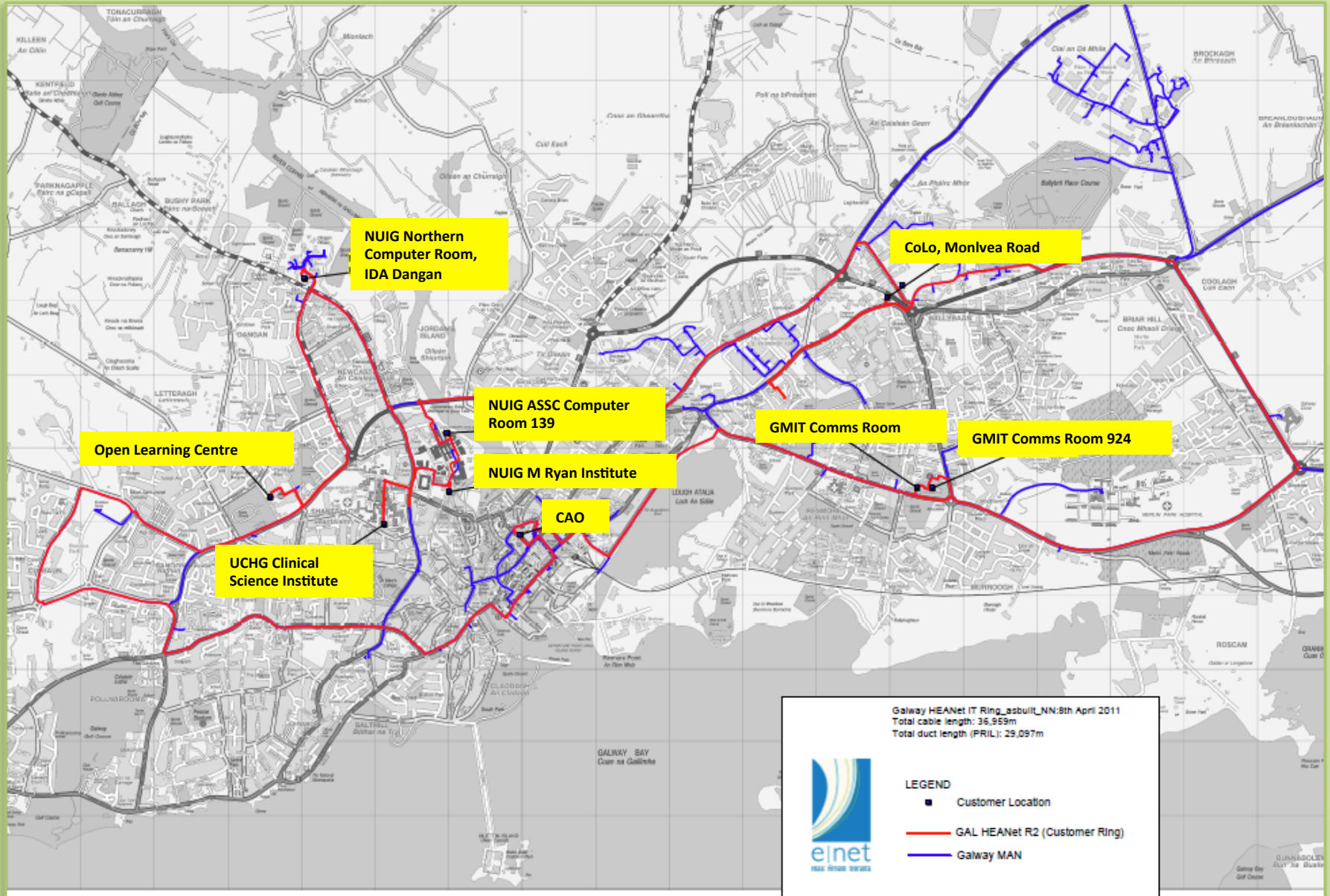
- **HEAnet background, fixed network**
- **Mobility Strategy v1**
- **Intervening changes**
- **Mobility Strategy v2**
- **Highlights**
- **Roles of NREN**

## Fibre network April 2008 (~2300km)

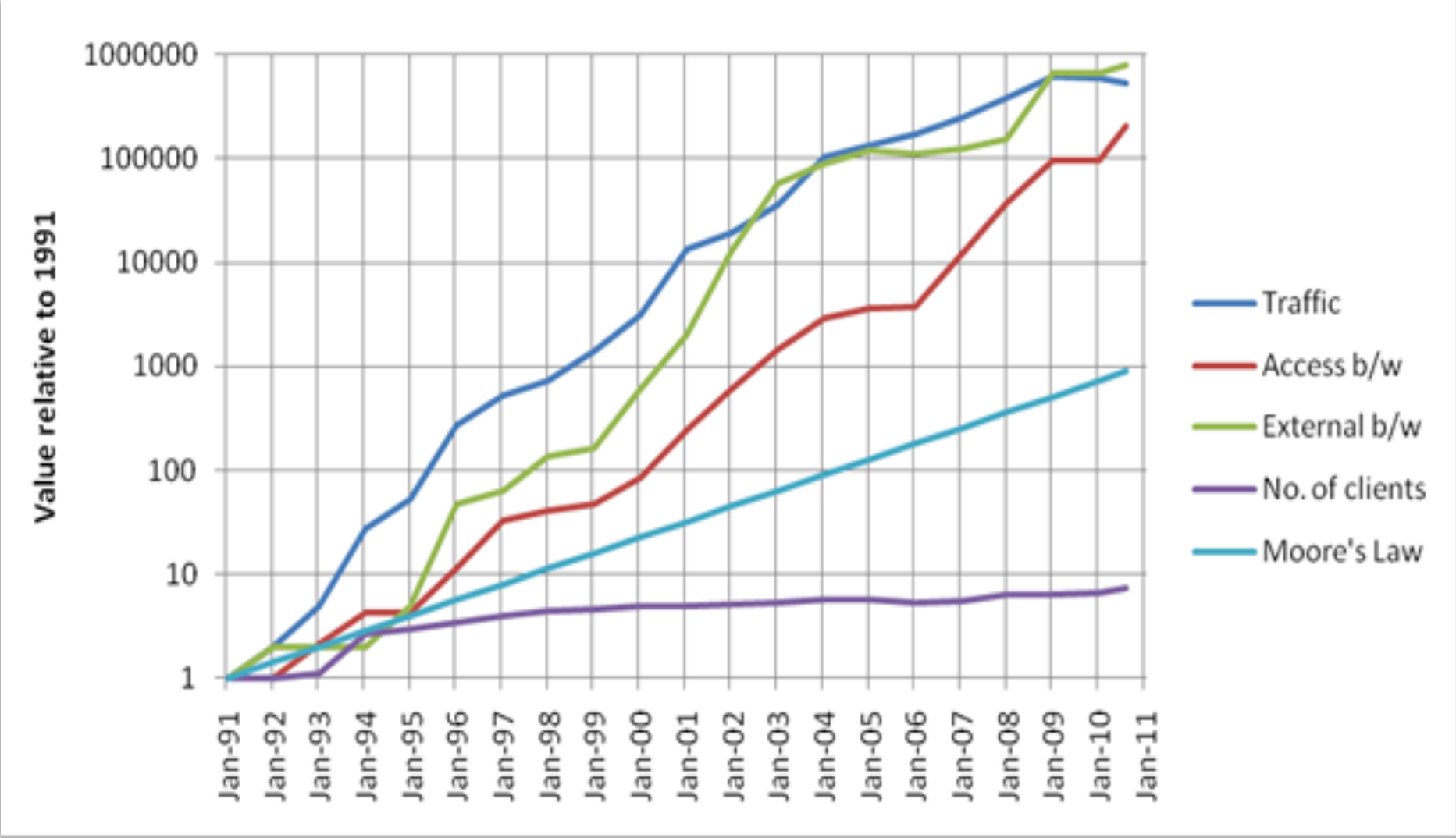
HEAnet national fibre network



# Galway Access Ring



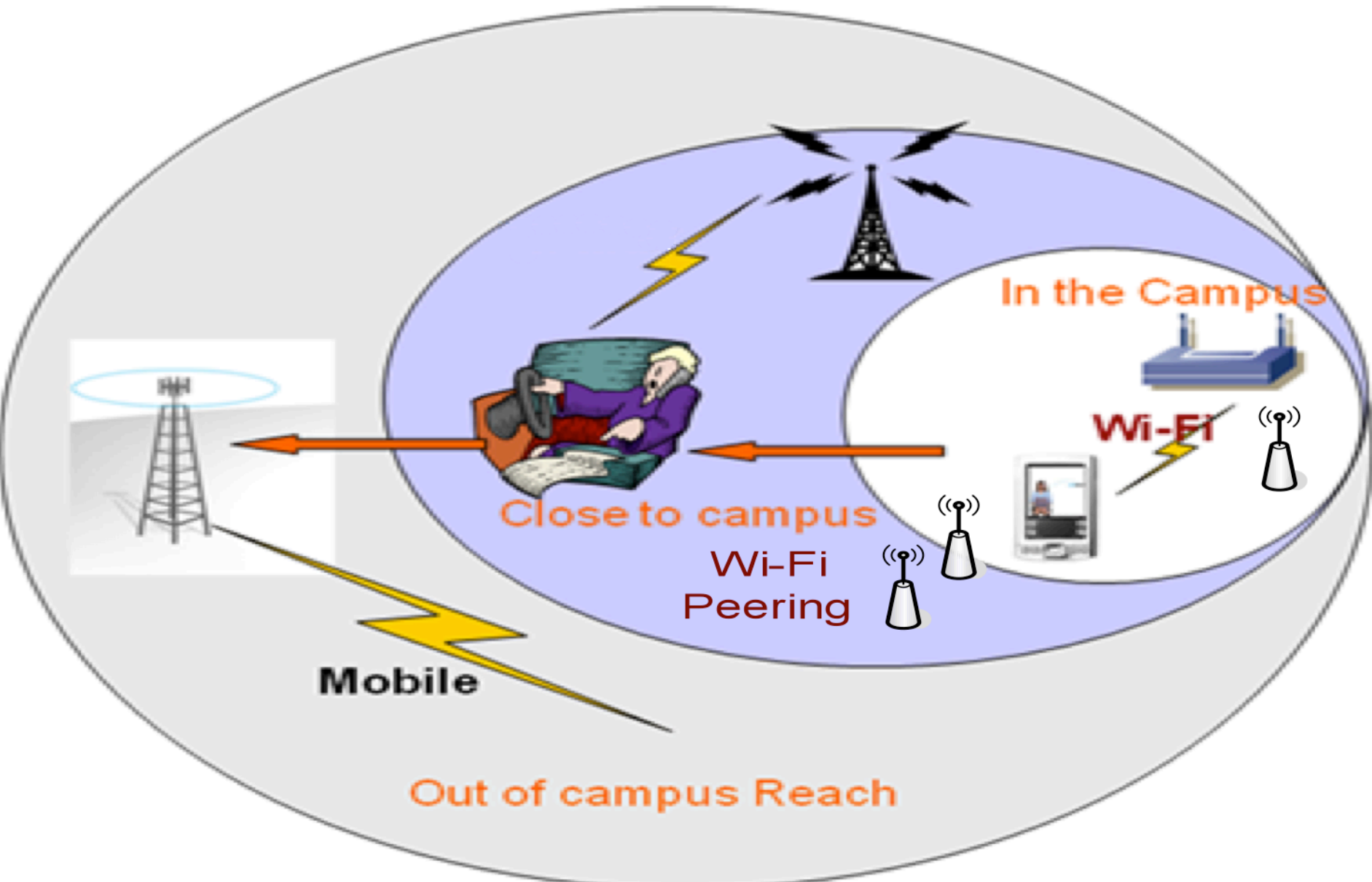
# Network Trends, since 1991



- **Dark Fibre**
- **Bluenet, Rednet, Greenet...**
- **IP, p2p**
- **IPv4, IPv6**
- **Campus LANs**
  - **Multiple devices per person**

- **VLEs**
- **Mobility**
- **Student as a content provider**
- **Context and location dependency**
- **Apps for everything (including project outputs)**

# Wireless/Mobility Strategy

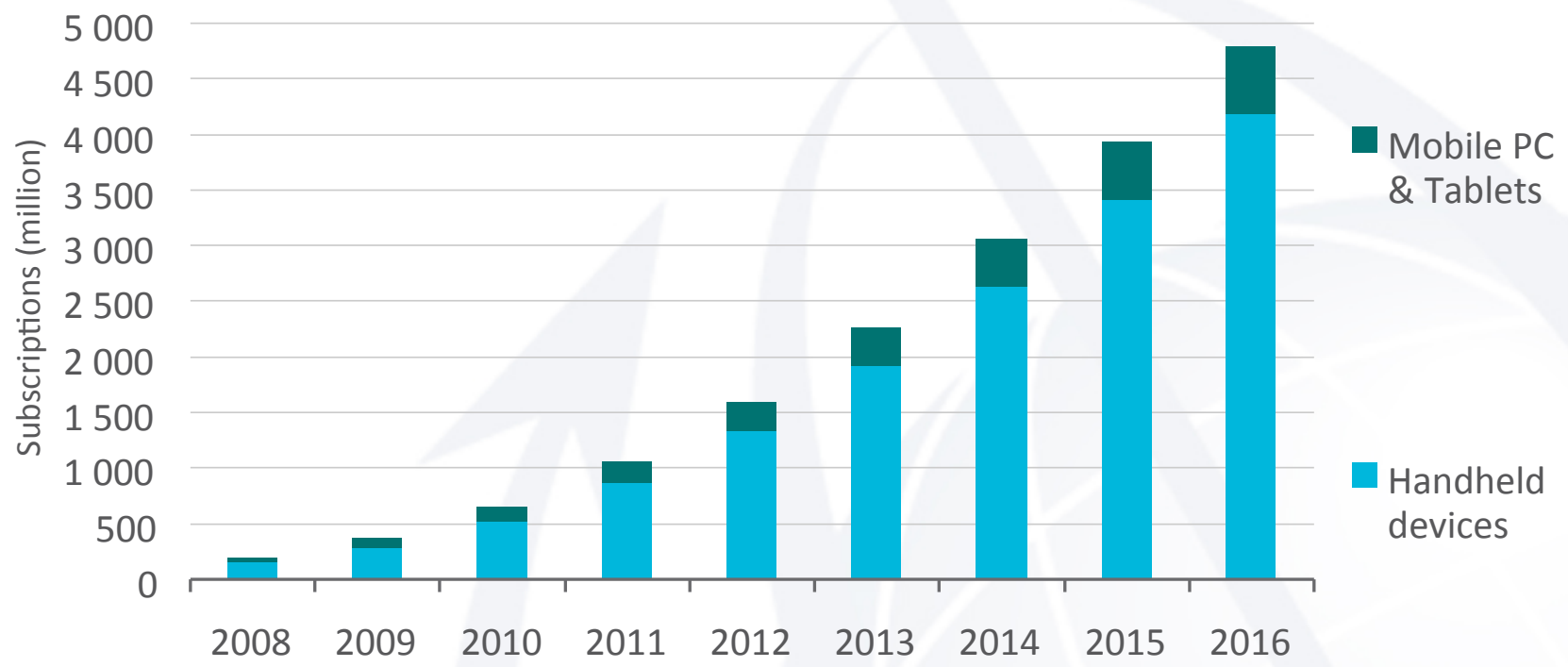


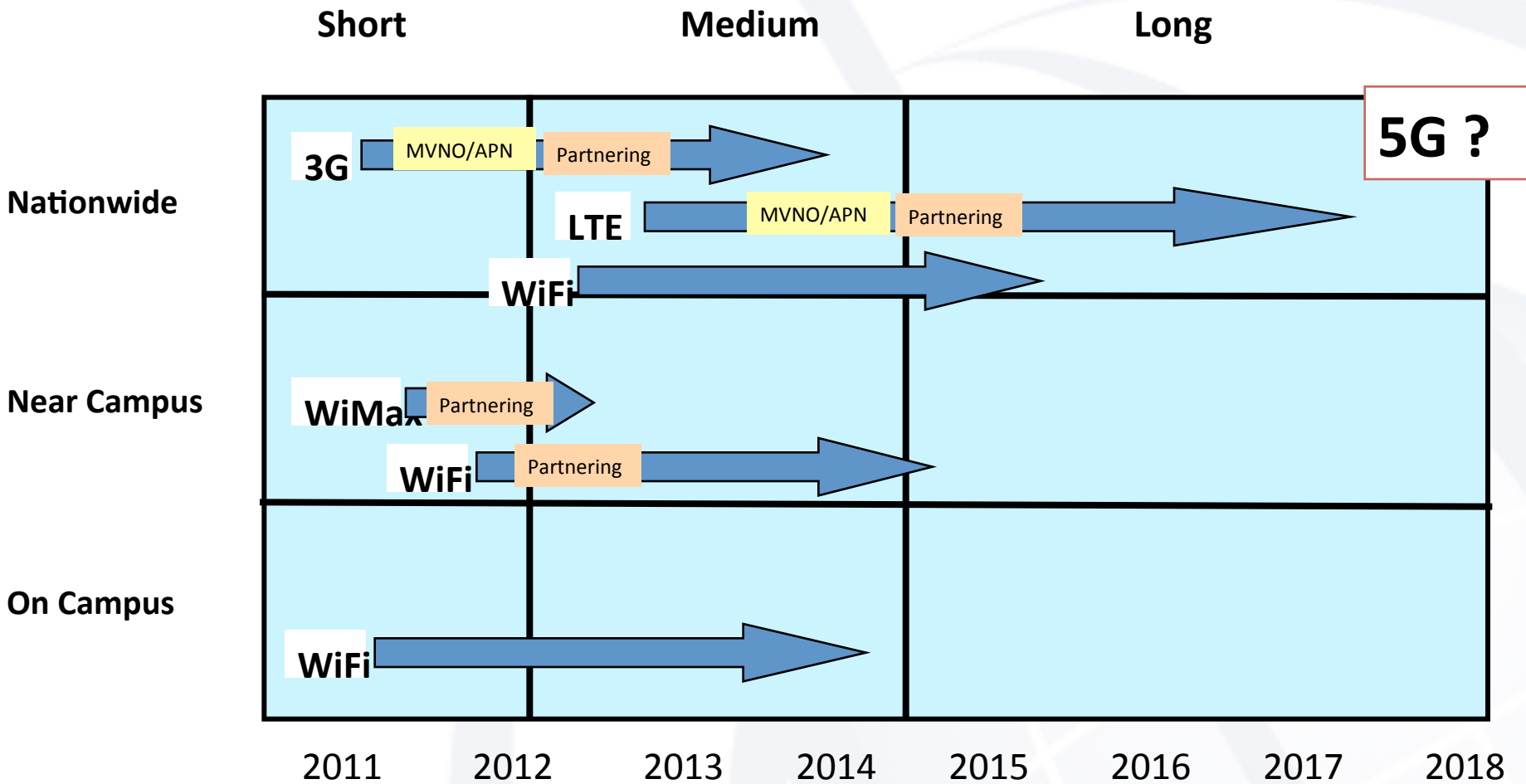


- **NREN support for Education & Research**
- **Ubiquitous service**
- **eduroam deployment**
- **3G service**
  - below market price
  - pre-pay and contract
- **No to WiFi off campus**
- **WiMax trials**
- **Engage with regulator**

- **Available in:**
  - 6 out of 8 universities**
  - 7 out of 13 institutes of technology**
  - 2 out of 4 other third-level institutions**
  - 3 other client institutions**
- See <http://www.eduroam.ie>
- See also <http://www.edugate.ie>  
as eduroam and Federation are loosely coupled

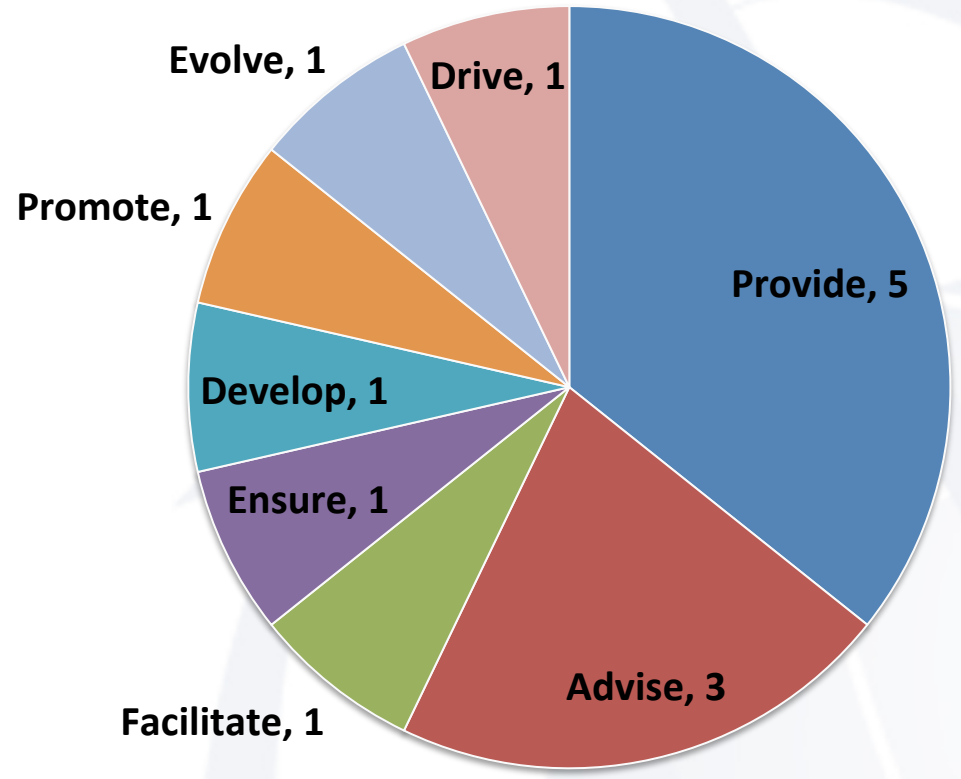
# Mobile broadband growth






- **3G service**
  - **added value**
  - **range of devices**
  - **framework agreement**
  - **pre-pay and contract**
- **WiFi + eduroam off campus**
- **5 x provide, 3 x advise, 1 x (facilitate, ensure, develop, promote, evolve, drive)**
- **Engage with regulator**

- **Mobile broadband service**
  - more than 1700 subscribers in first month
  - over 90% go for 1-year contract
  - range of devices, dongle most popular
  - collaboration on federation
- **Extracts from other strands of strategy**
  - off-campus WiFi/eduroam being explored
  - APN for schools successfully trialed
  - promote e-learning, options to support



- **Broker**
  - **Advocate**
  - **Technical Advisor**
  - **Provider**
  - **Other ...**
- 



**“GÉANT 2020 needs to be much more active in the wireless domain and the NRENS may even wish to consider delivering such services themselves.”**

**Report of the GÉANT Expert Group**

**October 2011**

- In the USA, the FCC has the [Educational Broadband Service](#)
- In Ireland, the Communications Regulator acknowledges the case for [spectrum reserved for education purposes](#)

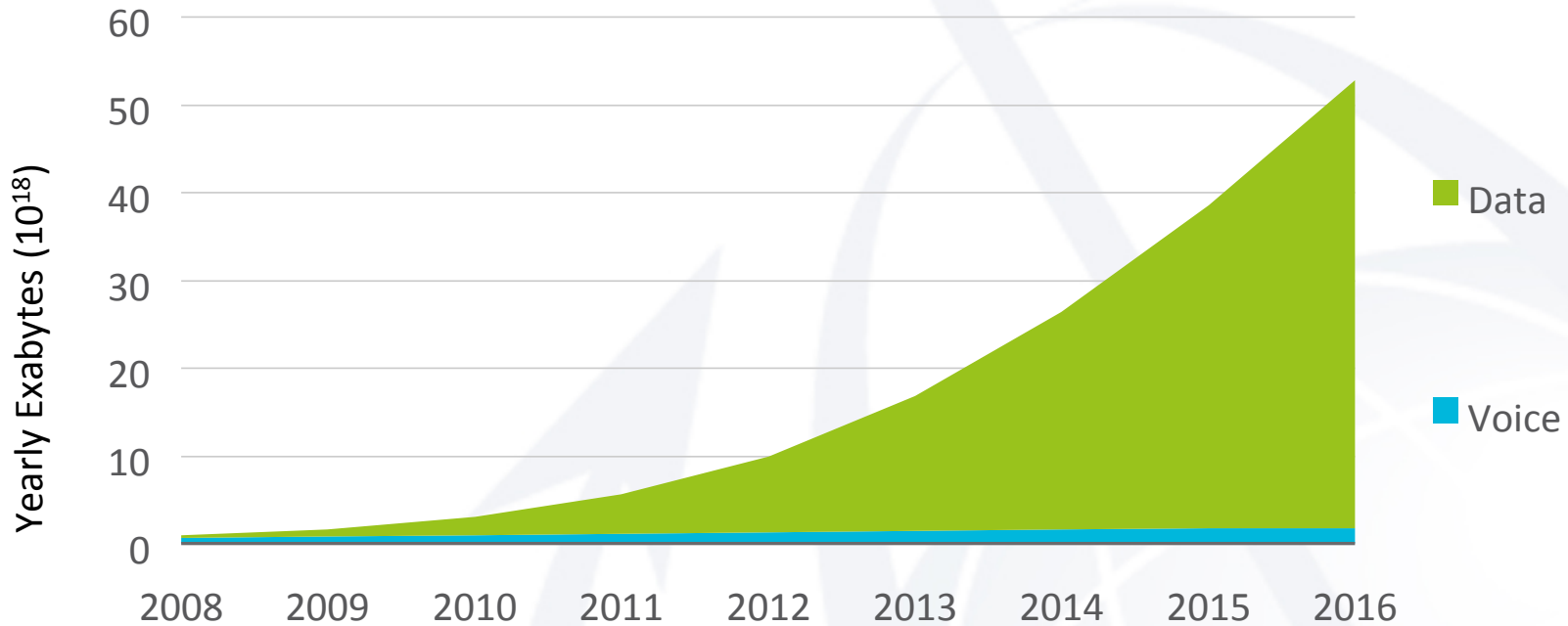
**Thank you**





# Mobile data growth

Subscriber traffic in mobile access networks



Source: Internal Ericsson  
 WiMAX and WiFi traffic not included.  
 M2M traffic to be added on top.  
 This slide contains forward looking statements

Mobile data traffic forecasted to double annually over the coming years due to Smartphones, laptops and tablets

- **Mobility**
  - **E-learning**
  - **Security**
  - **Organisation**
  - **Innovation**
- 

- **Mobile broadband service**
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  - range of devices, dongle most popular
- **Extracts from other strands**
  - off-campus WiFi/eduroam being explored
  - APN for schools successfully trialed
  - promote e-learning, options to support
  - lead NREN call for “E&R spectrum”

## 200 Million Facebook Mobile Users



### Facebook Mobile

Take Facebook with you wherever you go.

- **There are millions of stories, pictures, videos & events shared everyday on Facebook**
  - 30 Billion pieces of content (weblinks, news stories, blogposts, notes etc.) are shared per month
  - Facebook launched 'Messages' service (IM, SMS, email)
  - Facebook positioning as a communications hub (messaging, voice, document, content hubs)
  
- **Out of 500 Million users on Facebook, 15% (75 Million) of them are doing it on their mobile phone.**





*"He won't come in until he finds out if we have wi-fi."*