



5G Workshop between Regional initiatives (Lisbon)

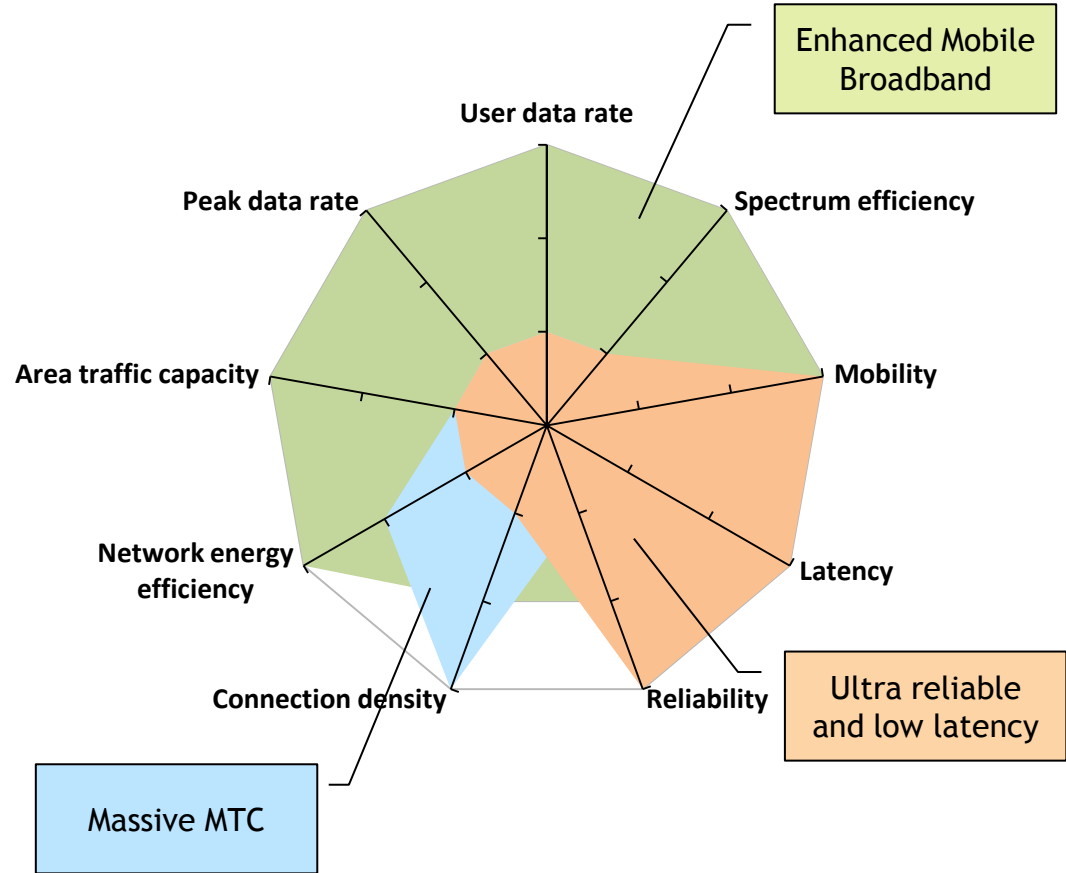
Conclusion session

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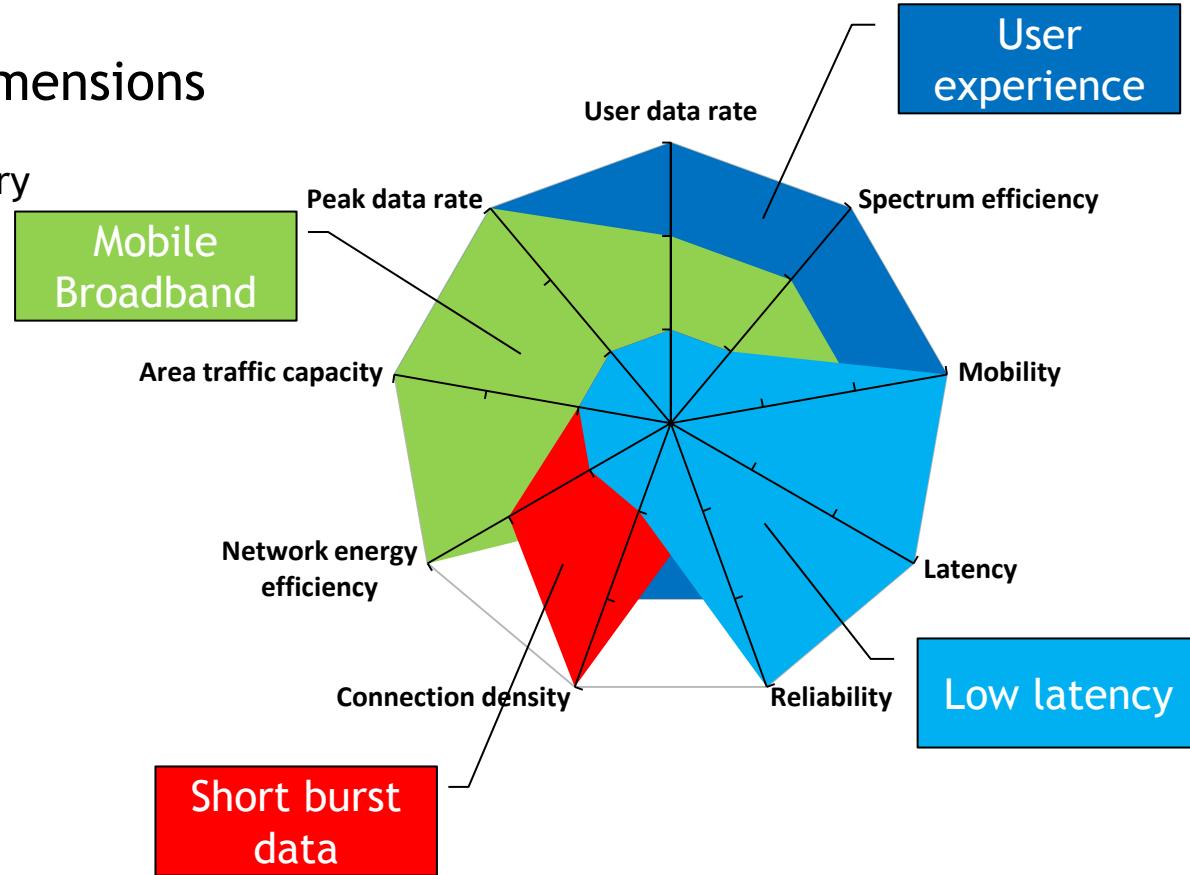
Triangles have three corners

- Use cases often described in terms of
 - Enhanced Mobile Broadband (eMBB)
 - Massive MTC (mMTC)
 - Ultra reliable and low latency (URLLC)
- Issues
 - Doesn't offer clear mapping to network requirements
 - Encourages prioritization in terms of "which corner first"
 - Lack of differentiation between peak and user bitrates



An alternative view ... maybe we need more dimensions

- May be better to consider 4 primary network capabilities
 - Mobile Broadband
 - User experience
 - Short burst data
 - Low latency
- Offers more direct mapping onto:
 - Use cases
 - Network requirements
 - Business drivers



Open issues

- Business drivers..

- New Revenues: New services vs. Market sharing growth
- Cost Reduction: Peak traffic density zones vs. network wide

- Network evolution drivers..

- Which radio band first?
 - Increase Peak bitrates and/or capacity >>> upper end of low band vs. high band
 - Build out Coverage of new services >>> lower end of low band
- Carrier bandwidths: 100 MHz in low band? 500 MHz in high band?
- 5G under LTE vs. LTE under 5G >>> when do we need 5G control channels?