



5G Initiative – “5G Roadmap” Working Group

Proposal for Contribution

Mohamad Ali El Hage, D2D technologies

Contribution “D2D Techniques”

- **Topic Field** ((internal communication among connected devices)
 - Caching and clustering techniques
- **Impact Horizon** (short, medium, long)
 - Increase Spectrum
 - Increase Per link spectral efficiency

Contribution “Estimation of active Clusters”

■ Specific Contribution/Thought/Idea

- estimate number of active users that are considered to operate using D2D , then compare activeness based on the used technique such as Direct D2D and Relaying, leaving us with a better option than traditional communications in terms of spectral efficiency.

