

# Enhancements for Mobile M2M Communications

by

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- ▶ M2M communication is one of the main enablers of IoT vision
- ▶ One billion cellular M2M devices are expected in 2020 [GSMA-2020]
- ▶ The biggest issue is to support large number devices sending small payloads
  - *Inefficient PRB utilization, massive signaling overhead, and high power consumption*
- ▶ **QoS-aware data aggregation can significantly improve PRB utilization**
- ▶ **Effect of data aggregation on signaling overhead: modeling and analysis**
- ▶ **Evaluation of battery life modeling for mobile M2M in LTE-A networks**

