

Интернет вещей в рамках
развития сетей 4 поколения
мобильной связи

Олег Дементьев

ОАО «МТС»

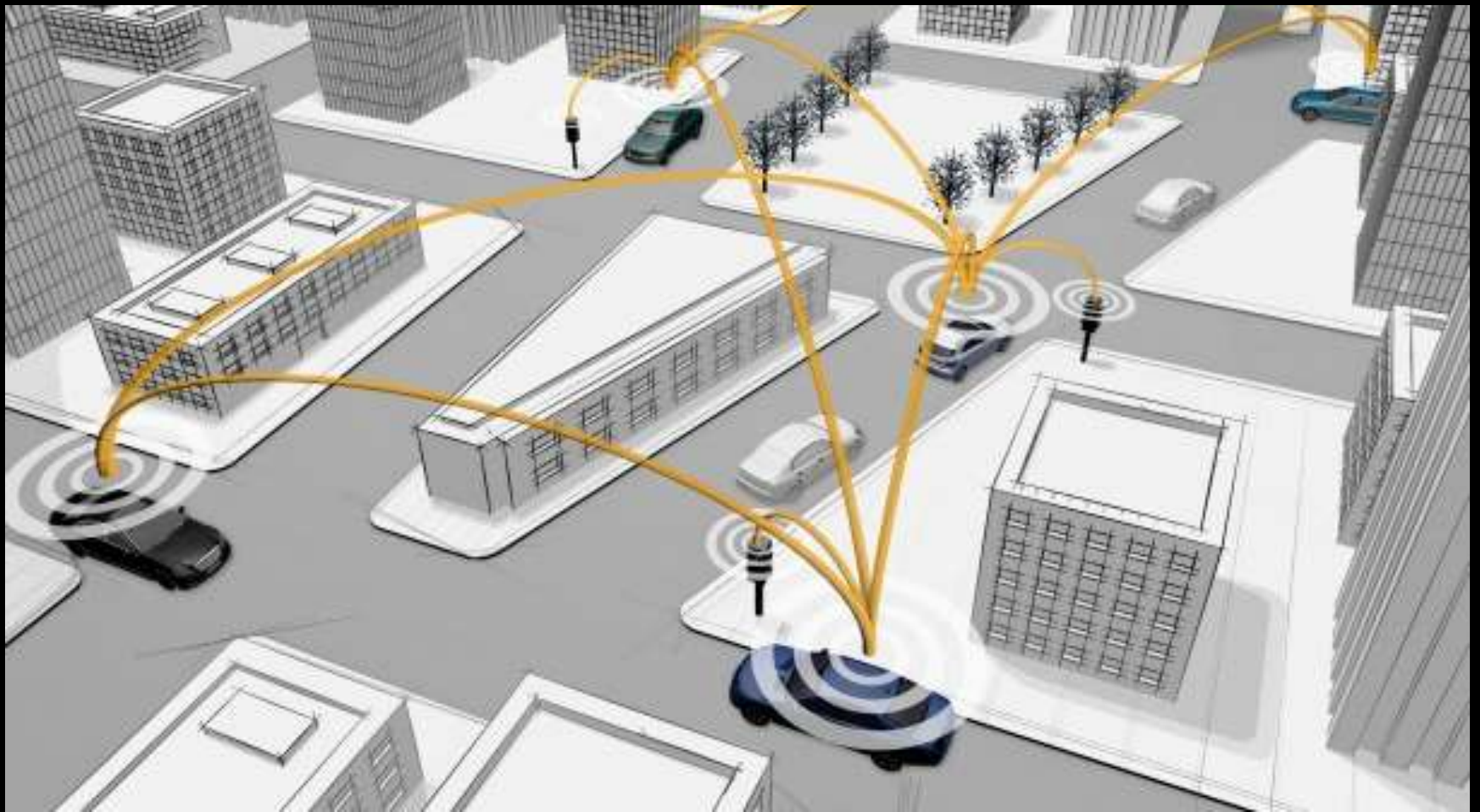
СПбГУТ им. проф. М.А.Бонч-Бруевича



Множество сценариев использования – вариативность требований к сетям 5G

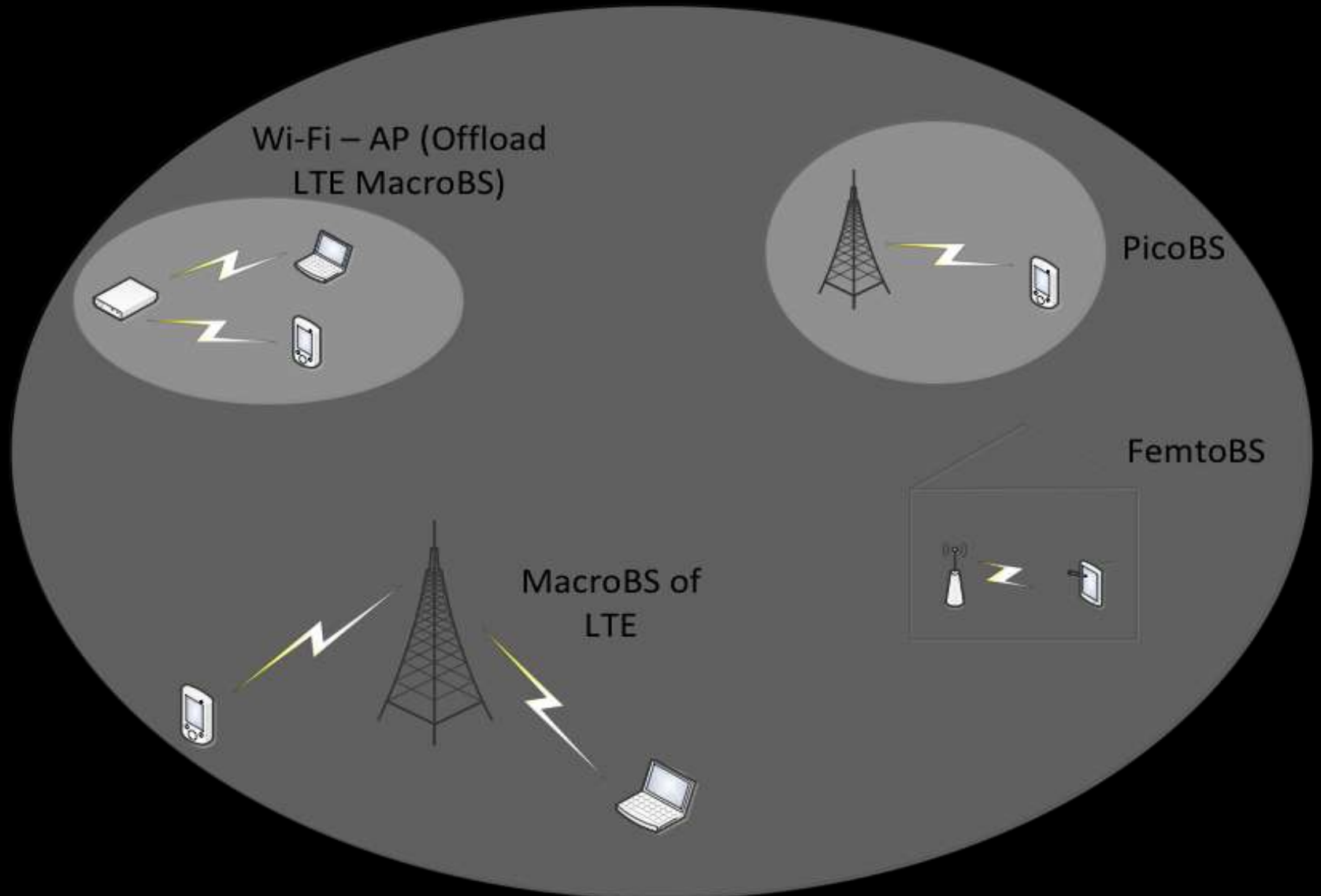


«Умный город»

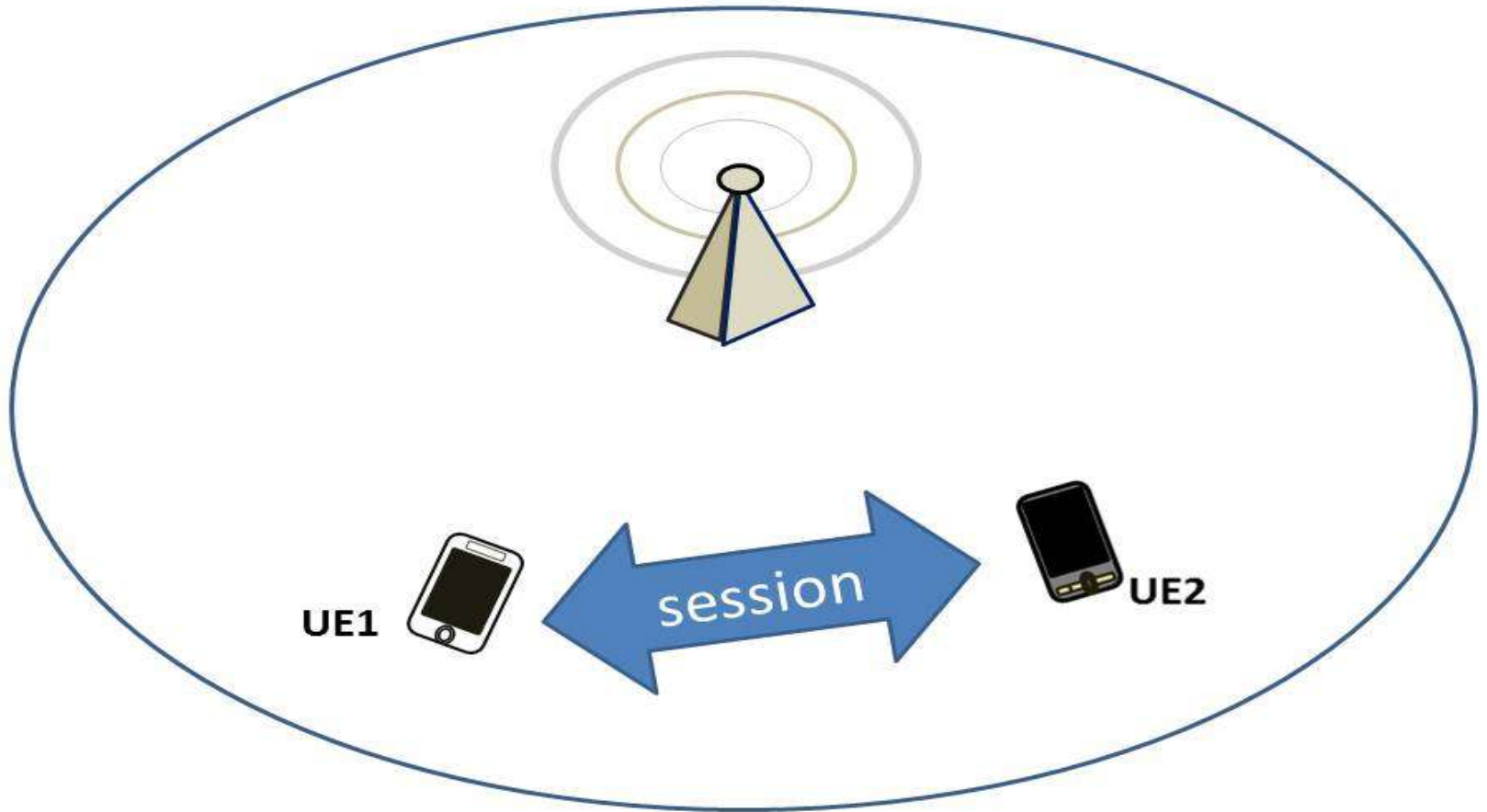


CETI BEYOND-4G

Гетерогенные сети

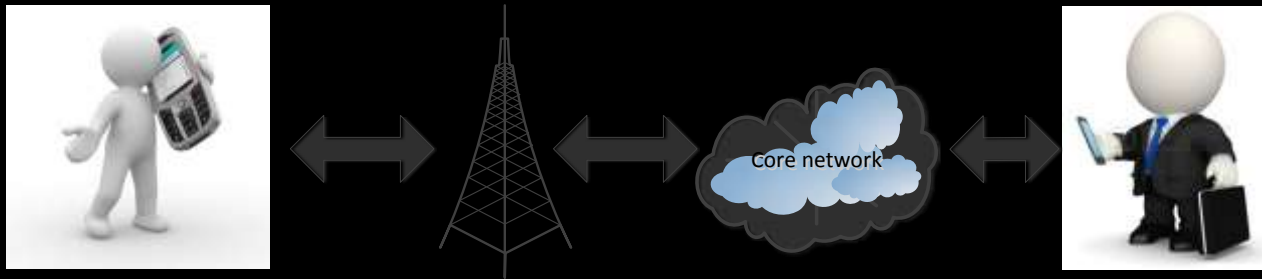


Device-To-Device

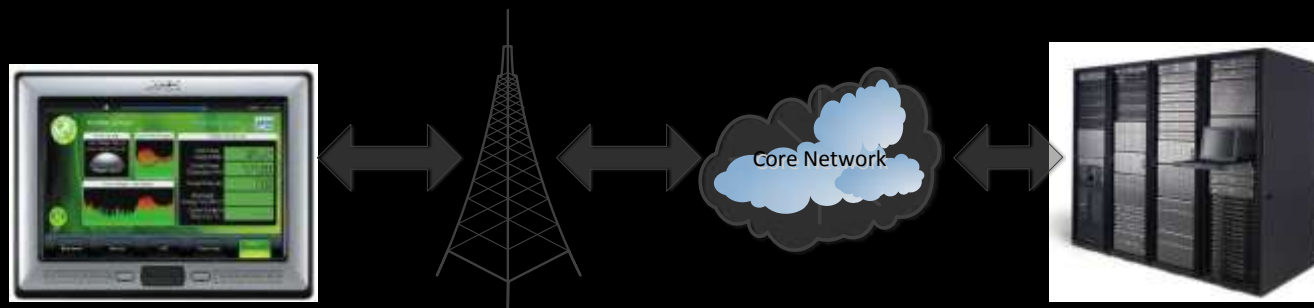


Machine-To-Machine

H2H Communication



Machine-Type Communication



REMOTE HOME CONTROL

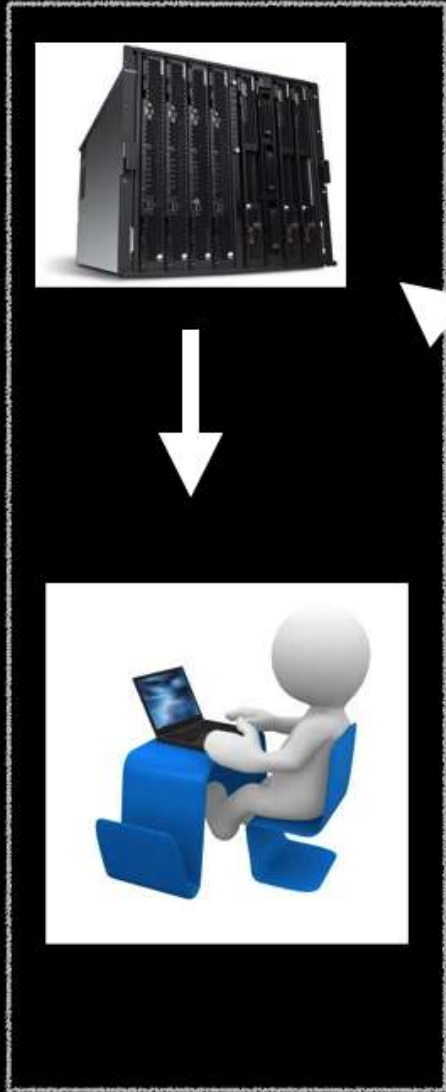
ONLINE HOME AUTOMATION

-  CLIMATE
-  LIGHTING
-  SECURITY
-  ENTERTAINMENT

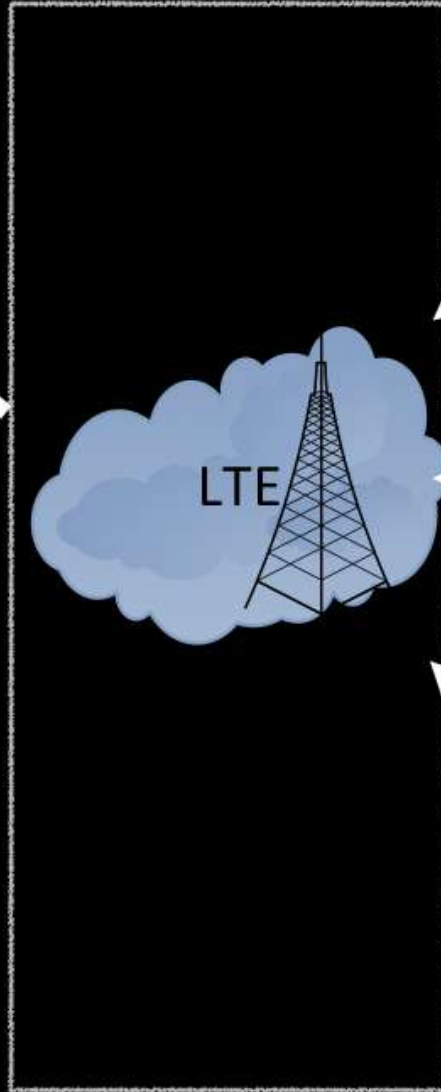


- ECO MODE**
- NORMAL
- OFF





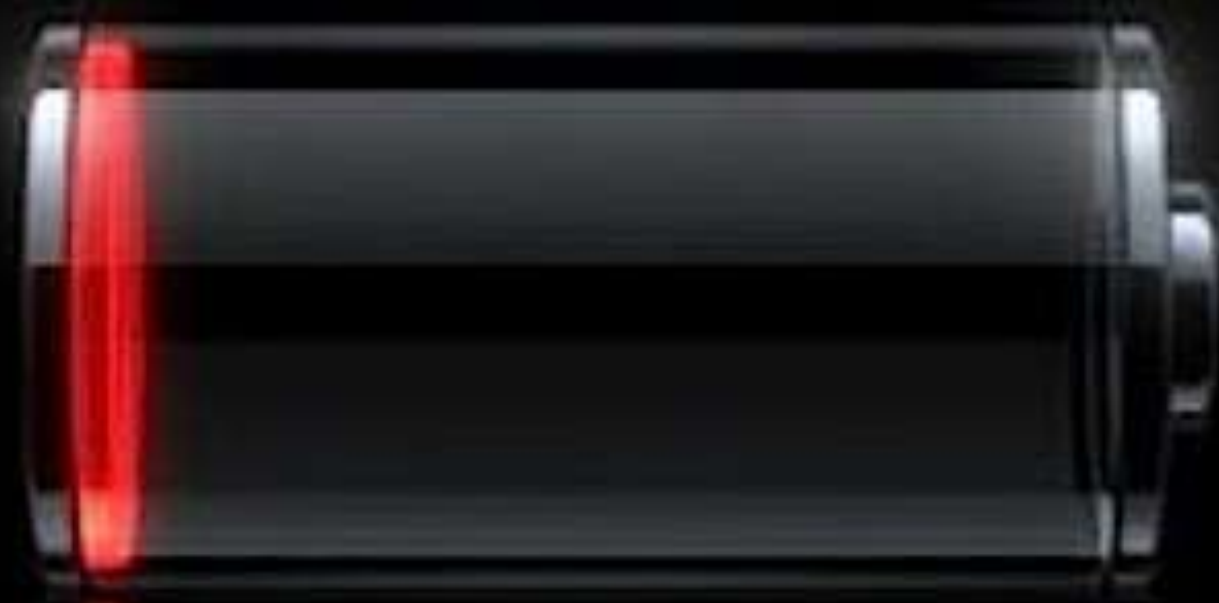
Область приложений



Область оператора



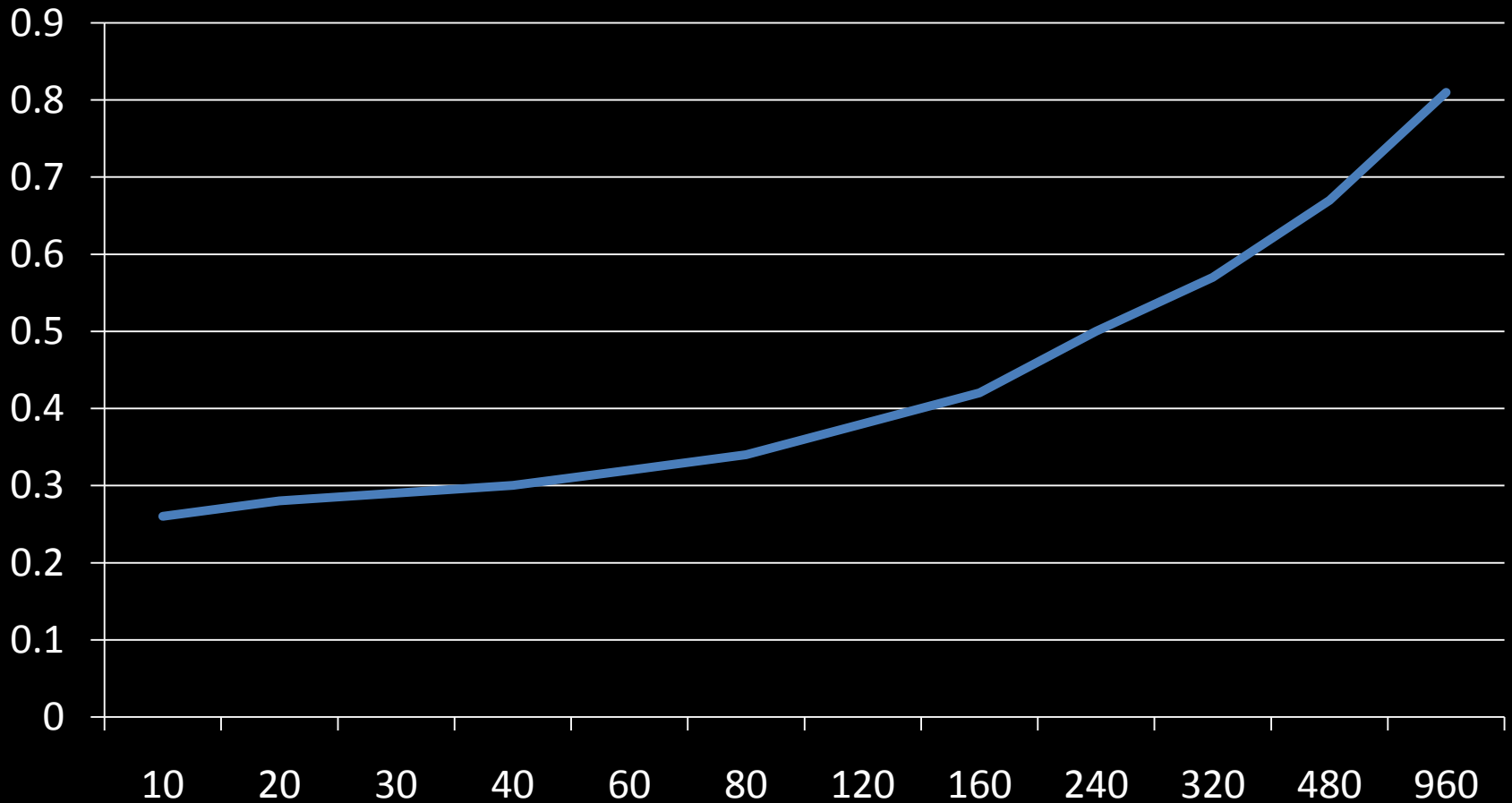
Область устройств



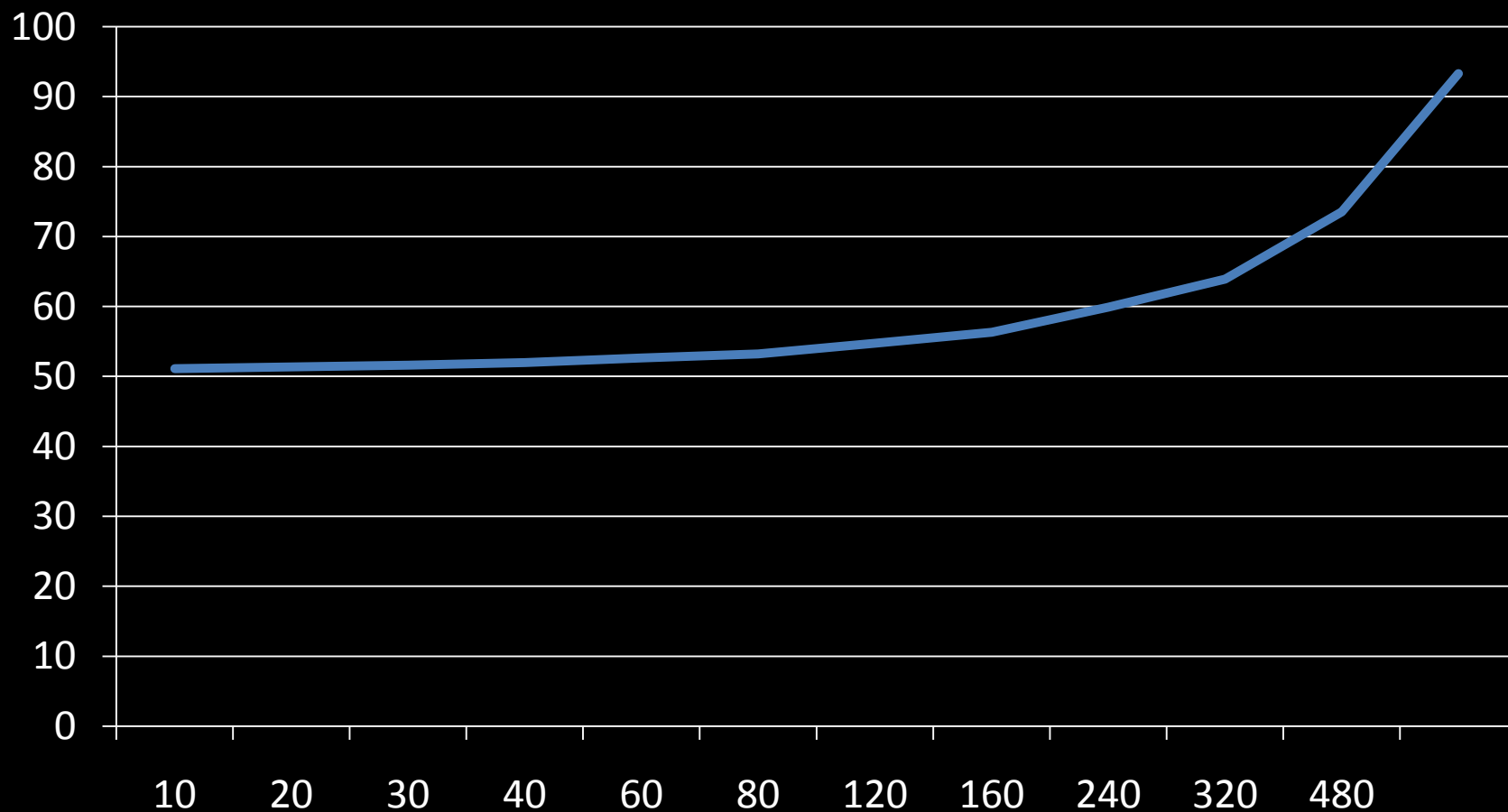
Модель

- Устройств в сети – 70 000
- Срочных – 20 000
- TR 37.868

Зависимость затраченной мощности от длины backoff



Зависимость вероятности успешного доступа от длины backoff



Публикации

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- D. Astely, E. Dahlman, G. Fodor, S. Parkvall, J. Sachs, “LTE Release 12 and Beyond”, *IEEE Communications Magazine*, July 2013.
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