

New Avenues in Spectrum Management and Broadband Measurement Methods and Tools

ITU Regional Seminar for Europe and CIS on Spectrum Management and Broadcasting 1-2 July 2020

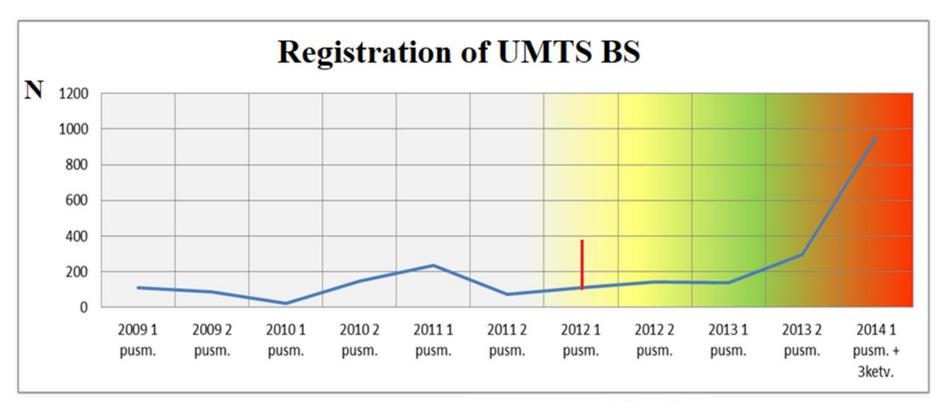
Dr. Mindaugas Žilinskas
Deputy of director
Communications Regulatory Authority of the Republic of
Lithuania



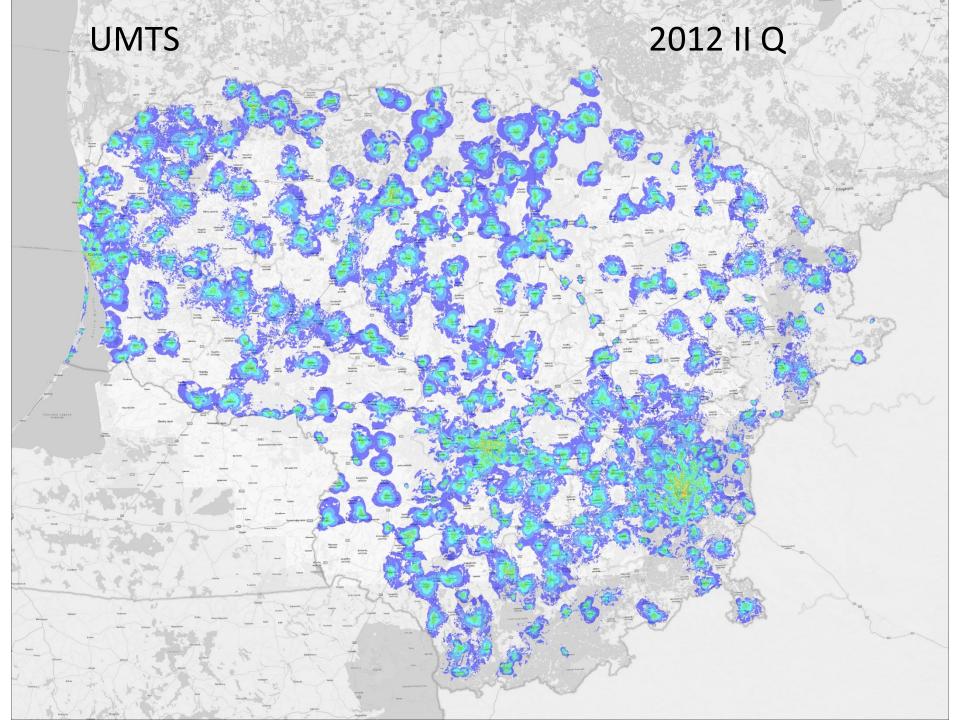
How to speed up competition among MNO

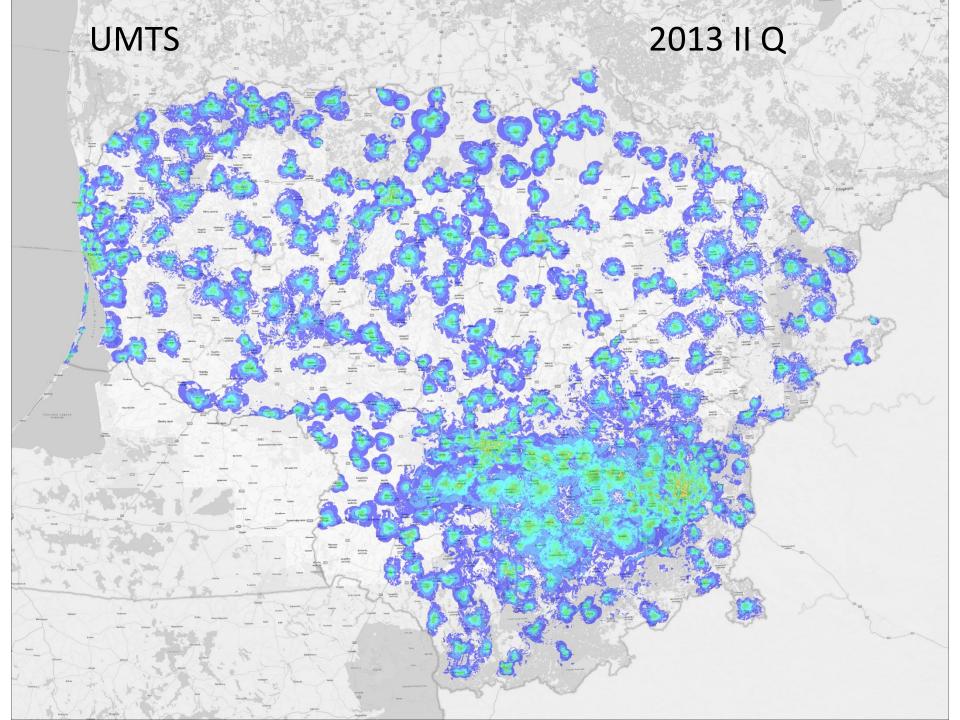
Development of UMTS networks

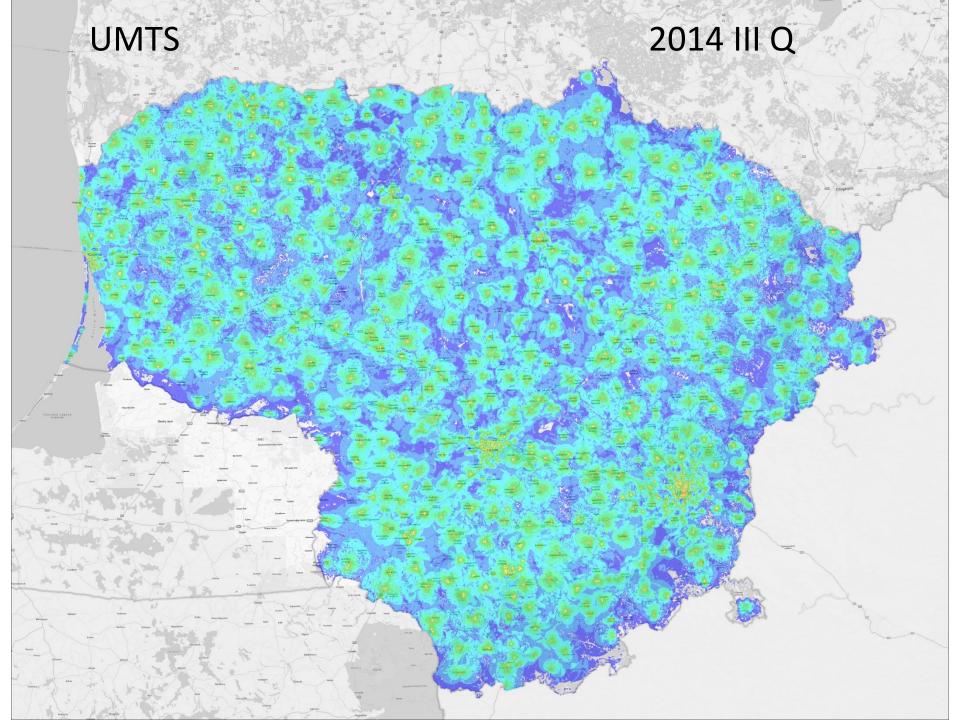
Licenses for UMTS were issued in February 2006 m.

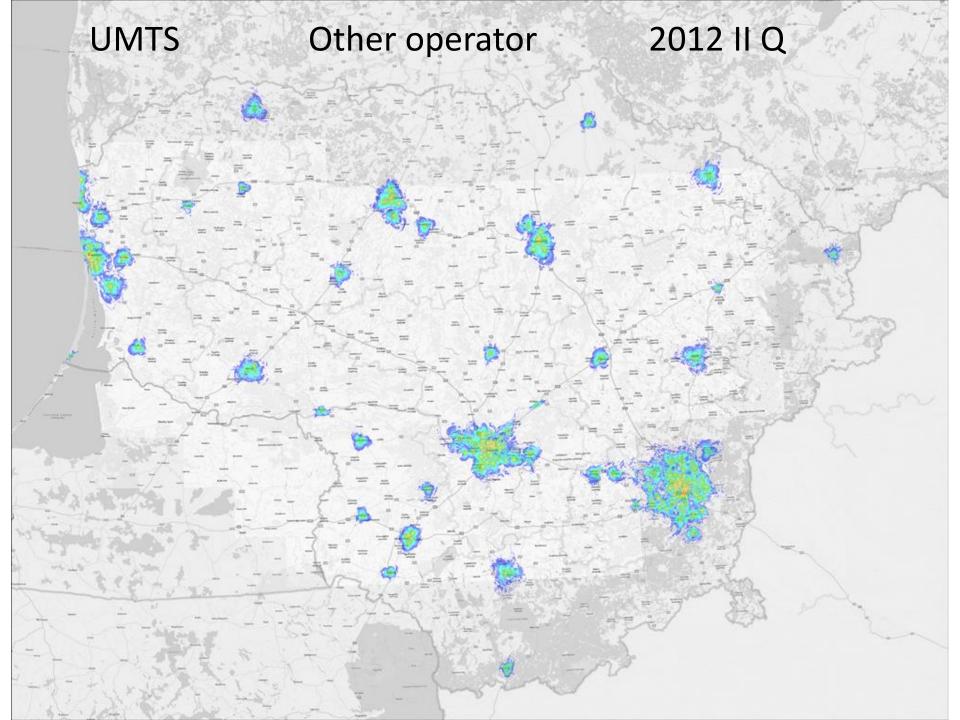


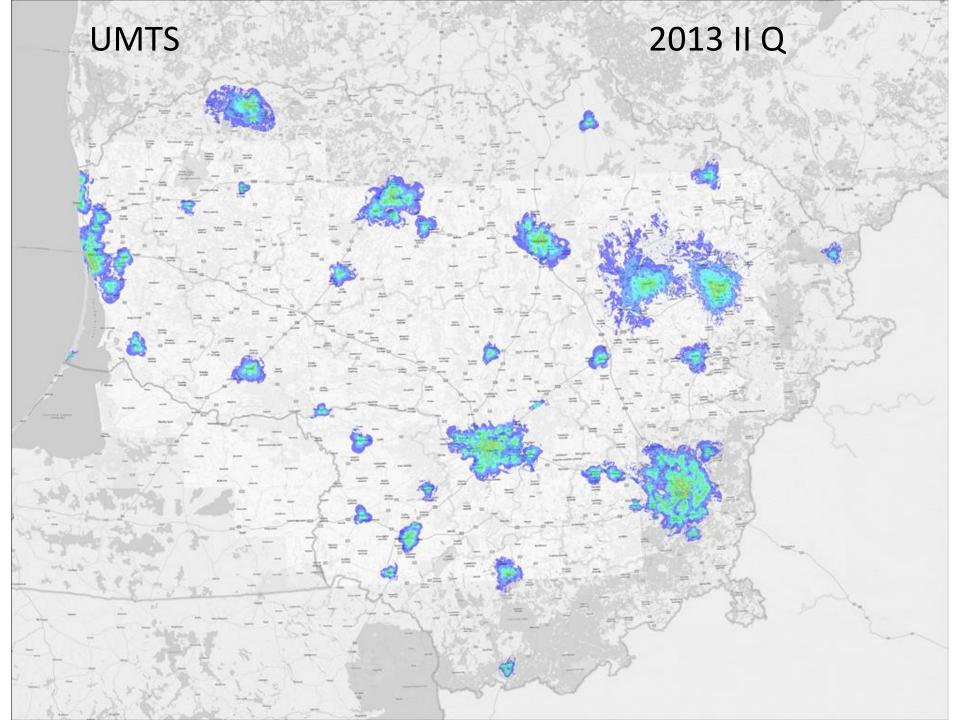
coverages publication

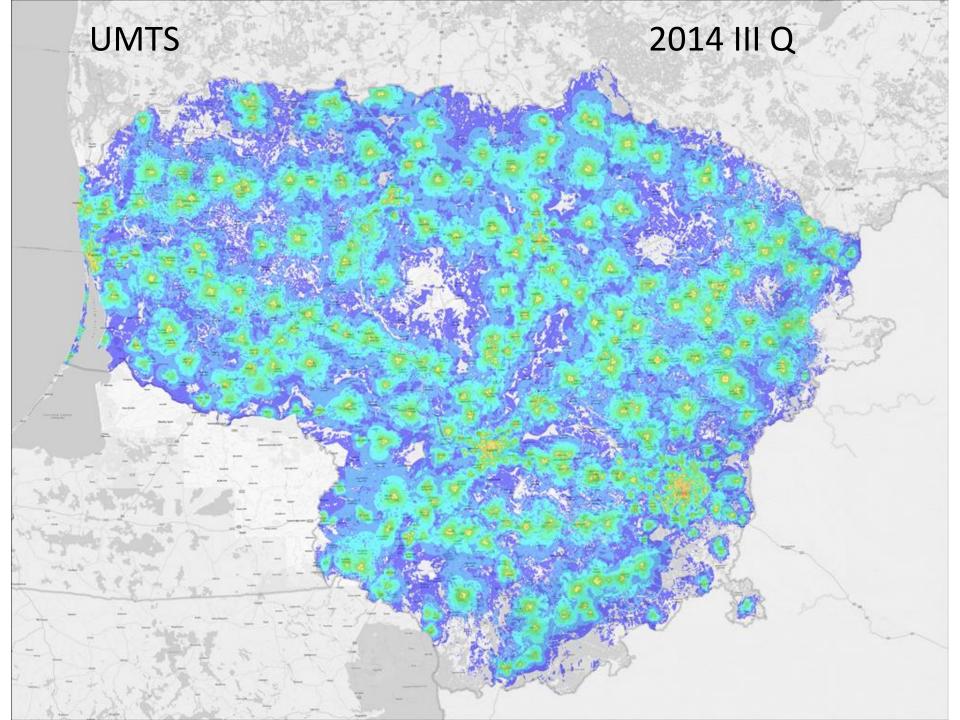






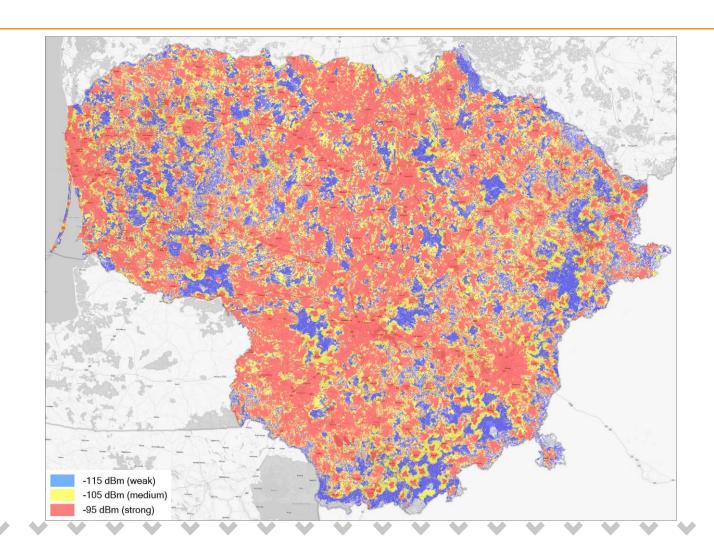






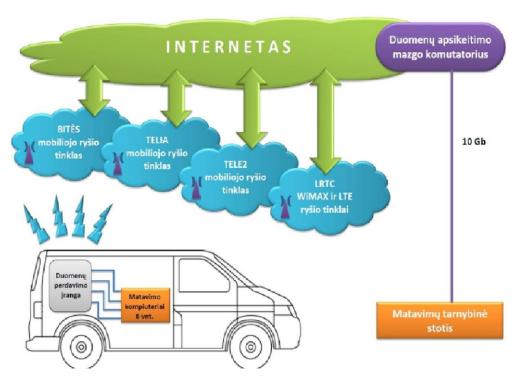
LTE coverage map 2019





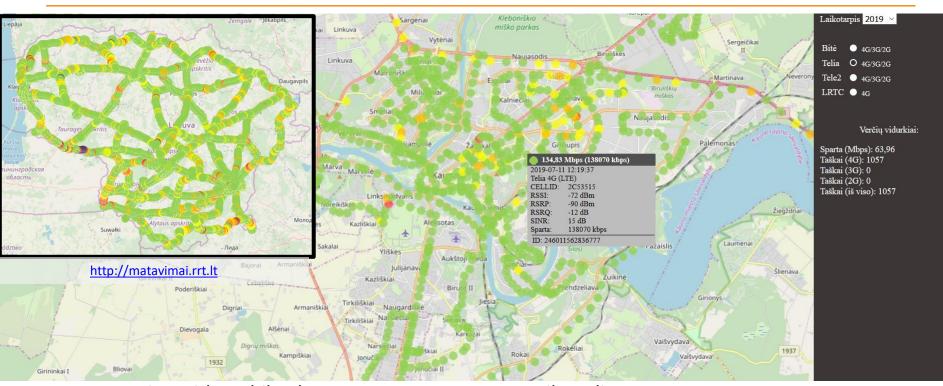
Electronic communications market

Measurements of download speed





Drive-tests of Mobile Internet Access Service

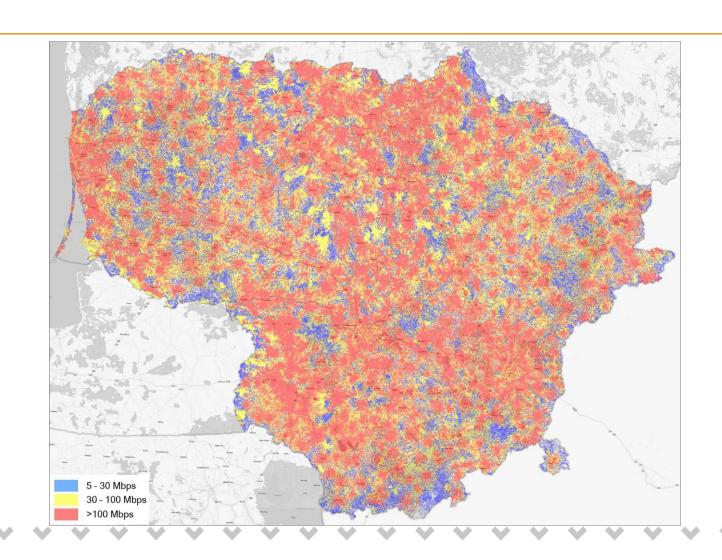


- Measuring with mobile phones
- All operators at the same time
- Automatic 4G/3G/2G selection
- Cities and major roads

- Railway lines
- Results on a public website matavimai.rrt.lt
- Easy data analysis for users
- Automatic averages with custom zoom



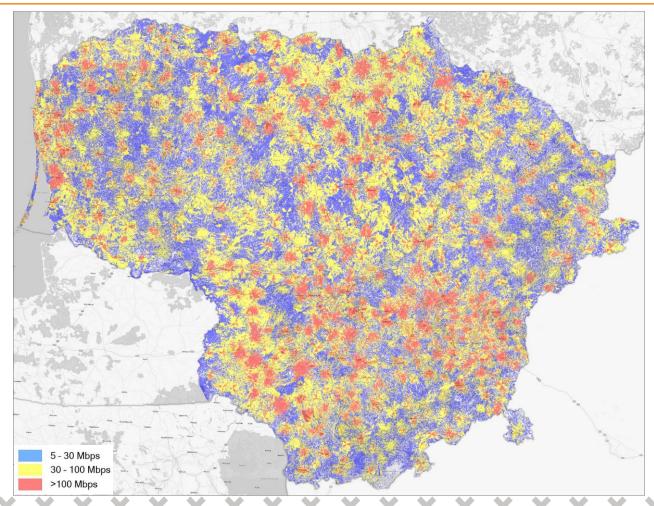
LTE throughput map (network load 10%)



LTE throughput map (network load 50%)



ECC Report 312 "Measuring and evaluating Mobile Internet Service Quality (Mobile IASQ)"





Thank you