

# BB Development in Lithuania: Trends, Challenges, Lessons

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#### Intro: Market in Lithuania

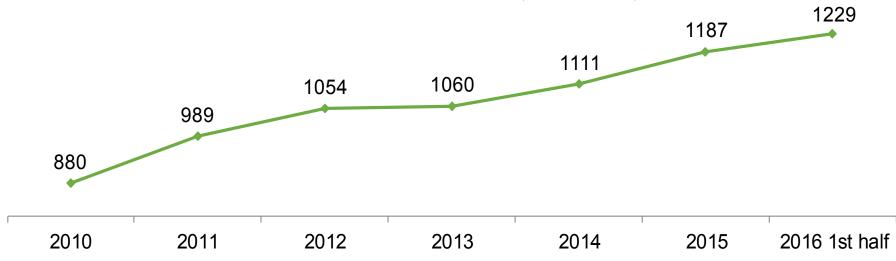
- Less than 3 million of inhabitants
- No. of e-communications providers
   135
- Penetration of mobile telephony 144,8 %
- BB penetration 41,1 %
- 30-100 Mbps 61 %, above 100
   Mbps 19 %
- Annual growth 3,1 %





#### **Trends: Internet services**



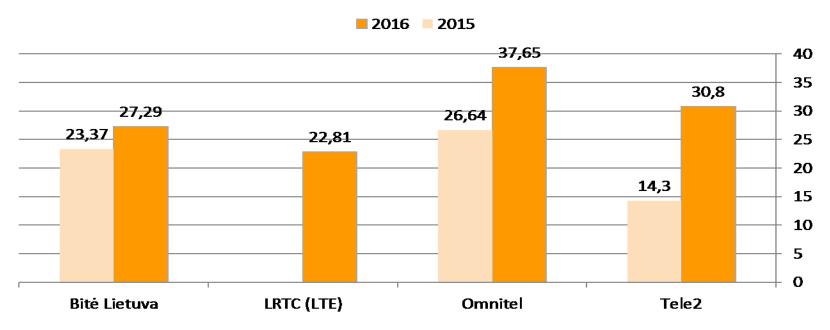


- ✓ Number of **broadband internet subscribers increased by +6,9%** in 2015 (to 1.187.000).
- ✓ At the end of June 2016 ~ 1.230.000 BB subscribers.
- √ 43% of Internet access subscribers are provided with optical fibre communication lines.
- ✓ Number of Internet subscribers using mobile Internet increased by +15% in 2015.
- √ 30-100Mbps connection 6.7 Eur per month (DESI) (highest price in ES ~50 Eur)



#### **Trends: wireless Internet access speeds**

Average wireless Internet access speeds on 4G/LTF networks. Mhns. 2015-2016

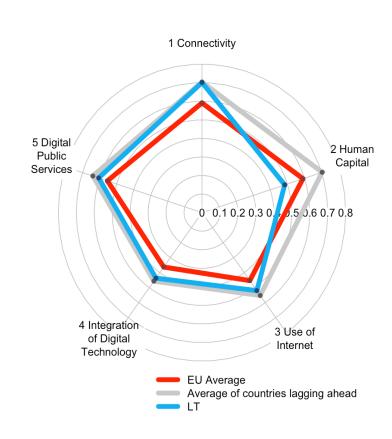


- ✓ Average speeds 2015 21.4 Mbps; Average speeds 2016 30.8 Mbps; Annual increase +44%.
- √ 5G tested



#### Success of the results vs further improvements

- Regulation timely adoption of legal acts, market analysis, obligations, etc.
- Policy general ICT and radio frequency auctions, etc...
- Fostering condition for competition
- But not public sector alone...
- Competition, choice for consumer and affordability



Demand is still low in Lithuania



### Ideal situation vs. reality

- Abundance of ICTs maybe in the future
- Reality competition drives choice and affordability
- Targeted investment to have and to use
- At the end of the day customers pay for it all





#### **Present and Future: challenges**

It's tough to make predictions especially about the future (Yogi Berra)

Present and Future roughly looks the same:

- To cope with growing number of bottlenecks is a constant struggle
- Bottlenecks: regulatory, political, technological, social, competition/competitive edge
- Awareness of users about the possibilities
- Diversity, consistency and adaptability is the key for the future activities





### **RRT projects:**

- http://e-infrastruktura.lt/
- www.raskinterneta.lt
- epaslaugos.rrt.lt/apreptis
- matavimai.rrt.lt
- www.matuok.lt
- www.skaiciuok.lt





### Regulatory excellence

How can we prepare ourselves for the future: attitude, regulatory excellence, regulatory culture

Alberta Energy Regulator and Penn University collaboration paper:

- Utmost Integrity. It is about the regulator's commitment to serving the public interest, to respecting the law, democracy, working with duly elected representatives.
- **Empathic Engagement.** How responsive regulator is? Transparency and public engagement, listening and also treatment of regulated entities and others concerned.
- **Stellar Competence.** Analysis and outcomes that maximize public value. Instruments and capacities built and actions taken to achieve a high level of performance.



#### Lessons learned or more problems?

- After a good meal it is difficult to understand the hungry
- It is difficult to replicate best practices
- Rule One Size Fits All does not work. A lot of know-how and direct involvement with the problem
- Eastern Partnership project/TAIEX (recipient vs. donor)





### Thank you for your attention!



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## http://e-infrastruktura.lt/ - Infrastructure map – initiative for BB development





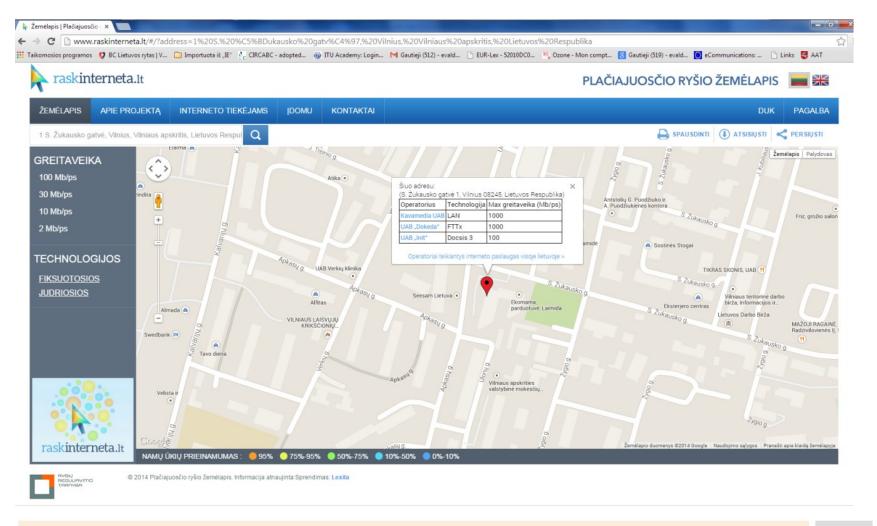
- 1. Vilnius
- 2. Kaunas
- 3. Klaipeda
- 4. Panevezys

#### **Project purpose: provide information for operators**

- •Information about existing electronic communication networks infrastructure in municipality
- •Information about prospects of building electronic communication networks

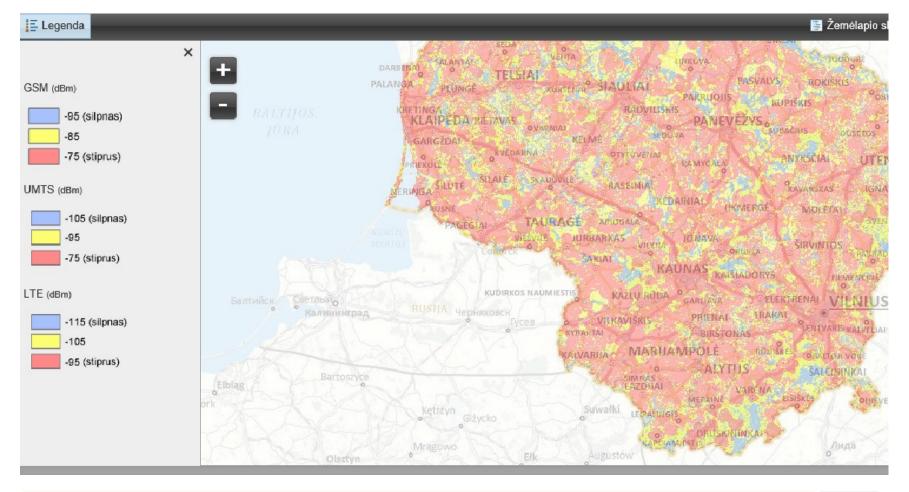
# Broadband map - www.raskinterneta.lt





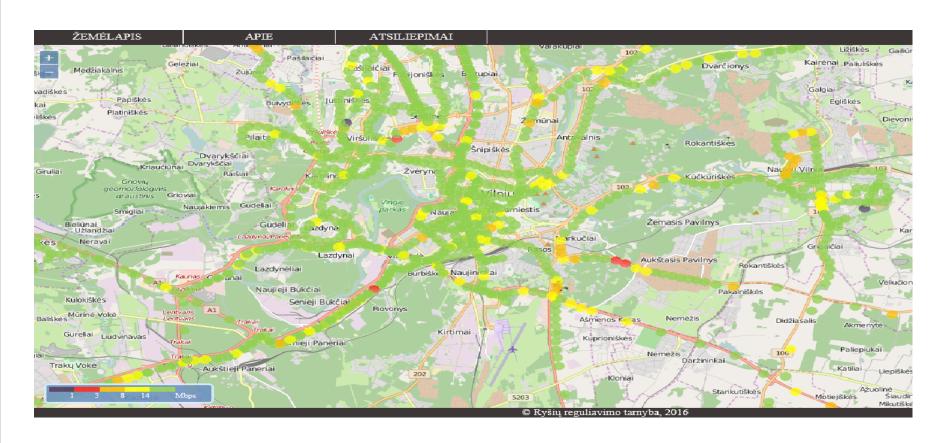
# epaslaugos.rrt.lt/apreptis - coverage map of mobile operators (2G,3G,4G)







# matavimai.rrt.lt – measurement system of wireless internet access data transmission



# www.matuok.lt – end user's measurement system of provided internet services

