RRT

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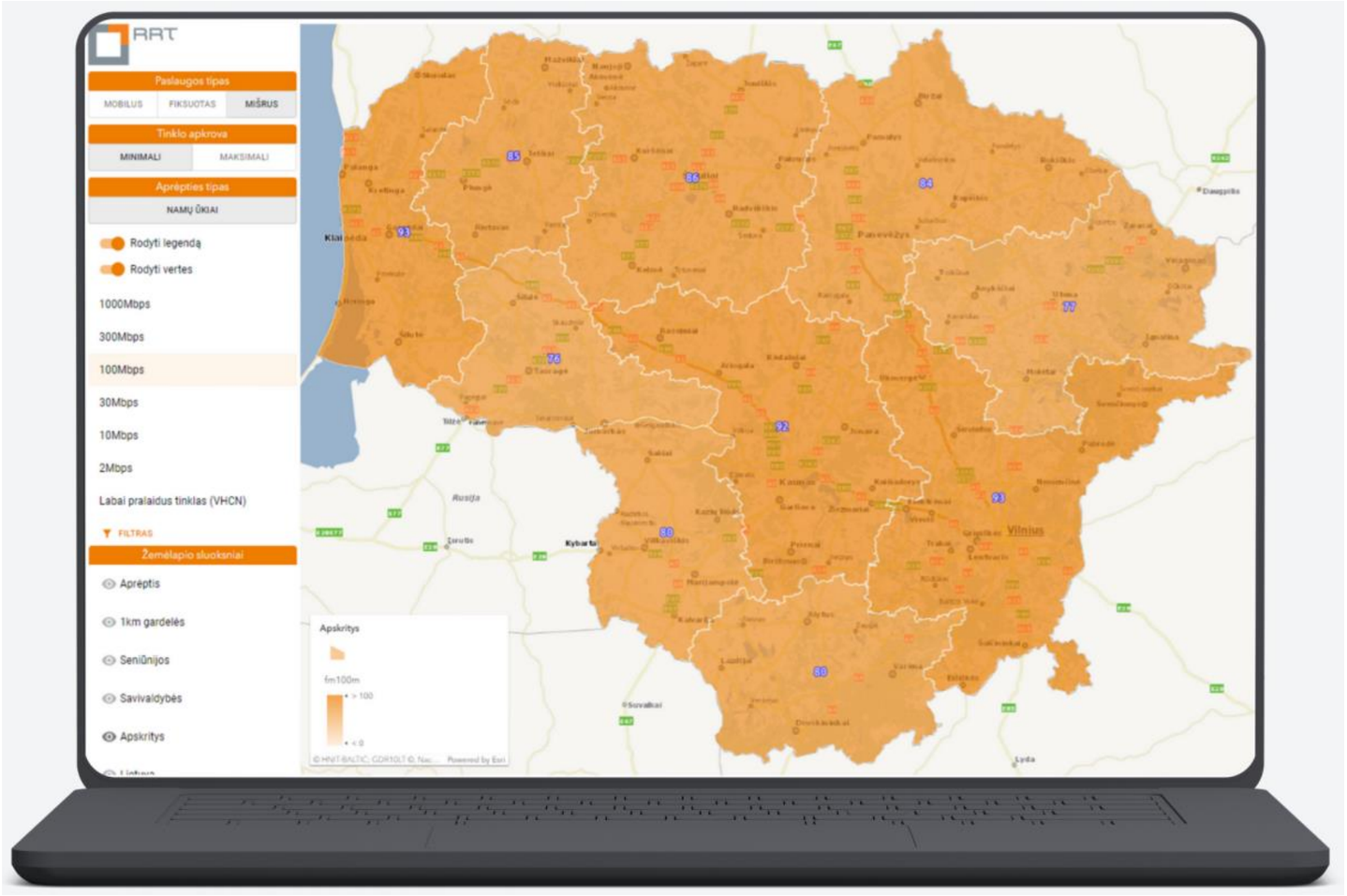
Broadband Survey Results in Lithuania

GEOGRAPHICAL BROADBAND SURVEY



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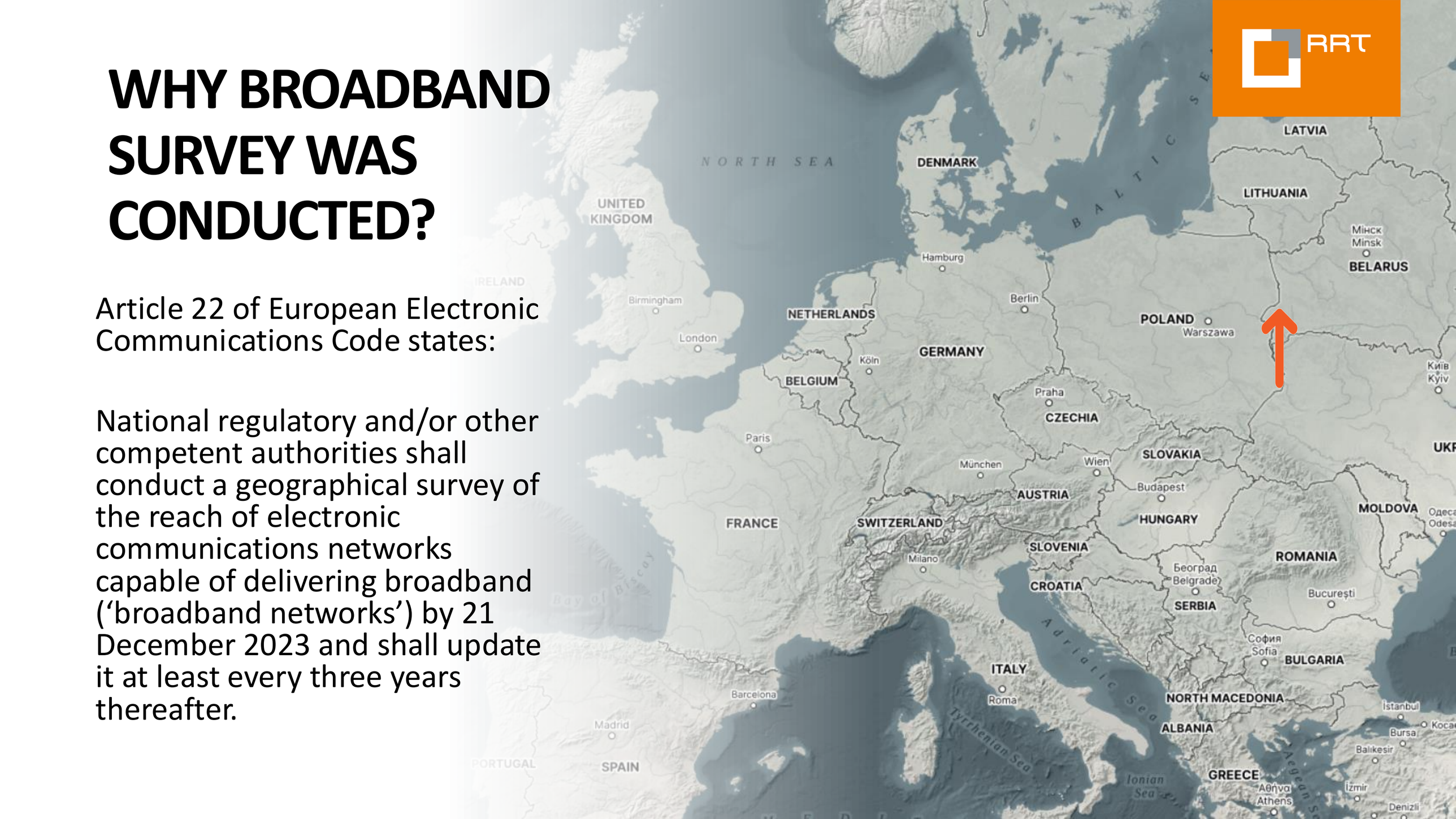
WHY BROADBAND SURVEY WAS CONDUCTED?

Article 22 of European Electronic Communications Code states:

National regulatory and/or other competent authorities shall conduct a geographical survey of the reach of electronic communications networks capable of delivering broadband (‘broadband networks’) by 21 December 2023 and shall update it at least every three years thereafter.



GOAL OF BROADBAND SURVEY

- Determine the coverage of existing electronic communications networks capable of providing broadband services, including the Very High Capacity Networks (VHCN)

START:
May 18th, 2023

1. METHODOLOGY

2. DATA COLLECTION & VERIFICATION

3. EVALUATION OF NETWORK COVERAGE

4. PUBLIC CONSULTATION ON RESULTS

5. PUBLICATION OF RESULTS

FINISH:
January 18th, 2024

BROADBAND MAPPING

METHODOLOGY

- Data collection:
  - Current situation & forecast;
  - Data collection resolution:
    - 60 x 60 meters grid for mobile network;
    - Address level for fixed network.
  - Required information:
    - Cells‘ load of mobile network (average, peak hours);
    - Download and upload speed of the fixed network (maximum, peak hours).
- Principles of data transmission speed calculation of mobile network (propagation modelling, outdoors, 1,5 m from ground, min. signal level -115 dBm, etc.).
- Multiple resolution of publishing aggregated results: from 60 x 60 meters to counties (NUTS3).

BROADBAND MAPPING

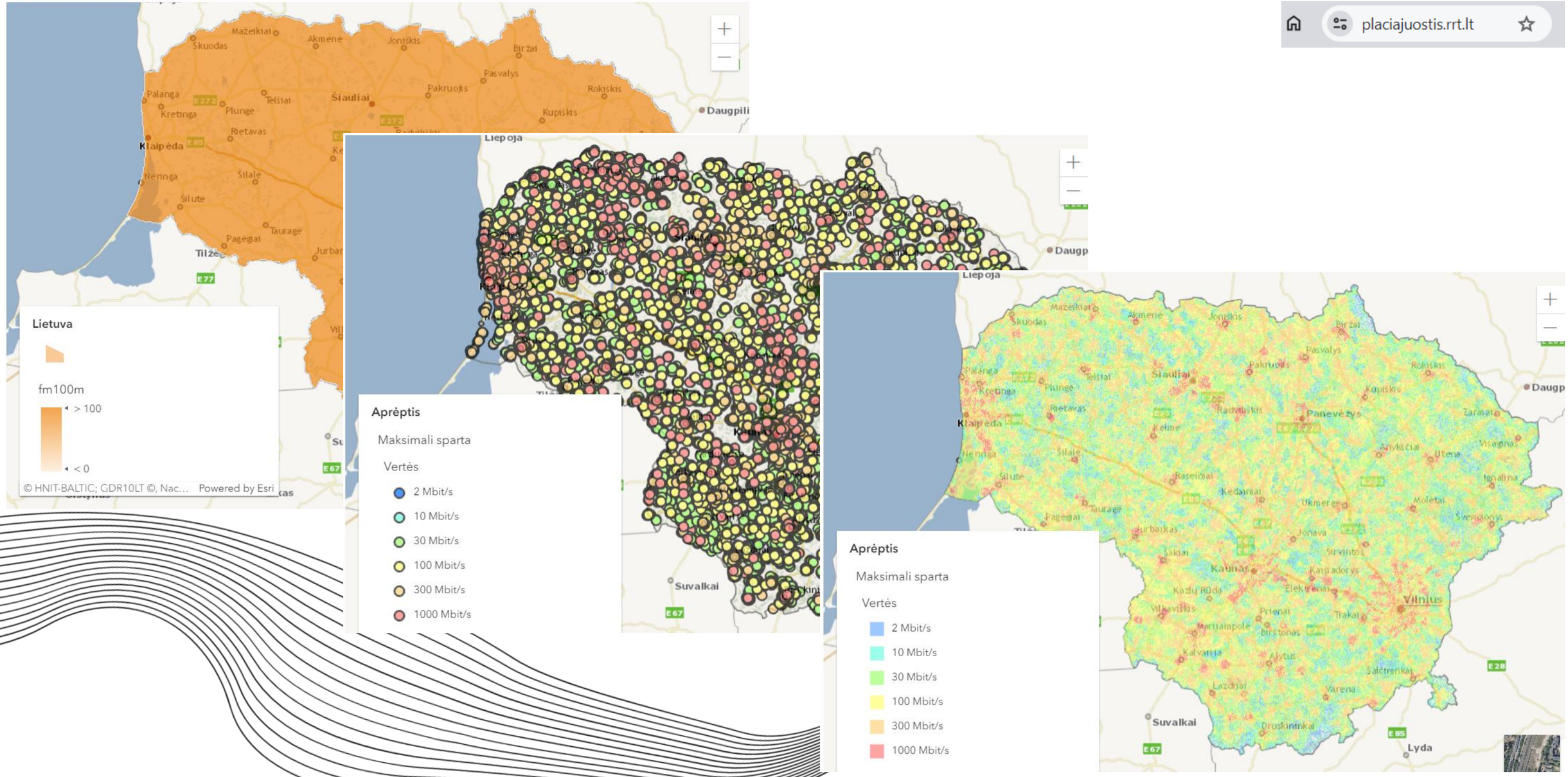
DATA COLLECTION & COVERAGE EVALUATION

- Coverage of fixed communication networks was assessed based on the data collected from public electronic communication service providers, available to RRT and data obtained during other studies or calculations on the development of fixed communication networks.

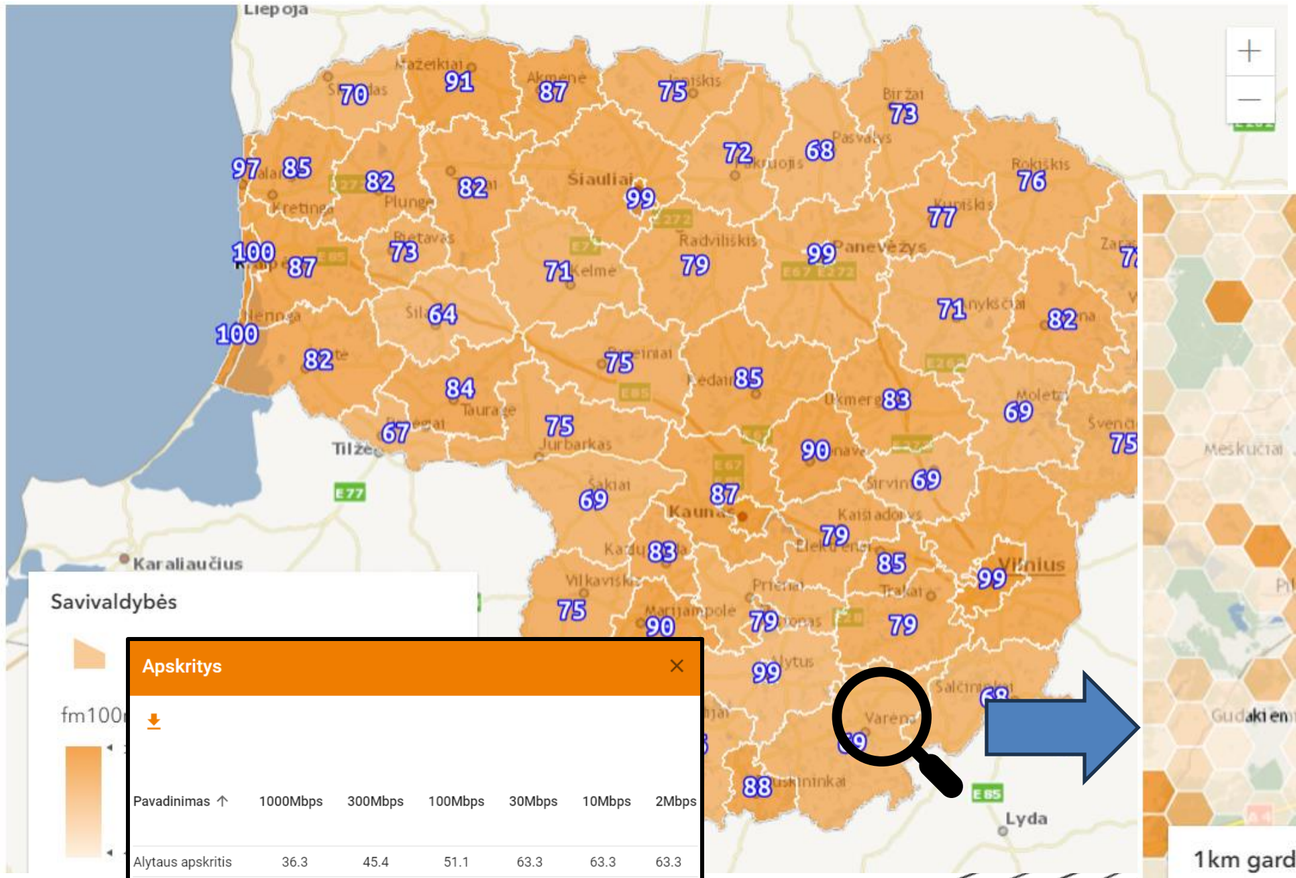
- Coverage of mobile communication networks was assessed based on the calculations performed by RRT, according to the information provided by the operators about the base stations they manage.

- Data collected from **65** operators of fixed networks and from **3** operators of mobile networks.

ONLINE APP OF BROADBAND SURVEY

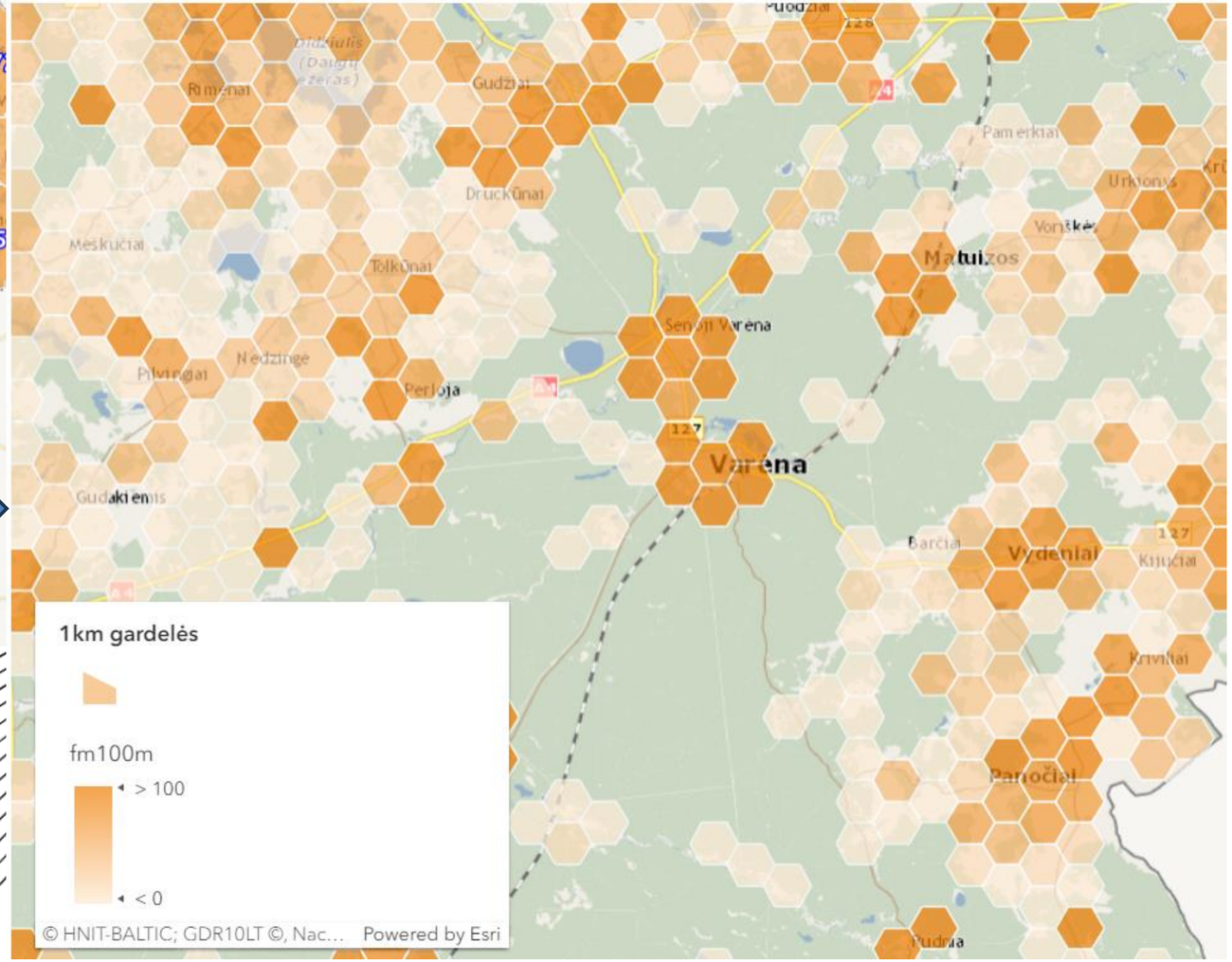


ONLINE APP OF BROADBAND SURVEY



Apskritys

Pavadinimas	1000Mbps	300Mbps	100Mbps	30Mbps	10Mbps	2Mbps
Alytaus apskritis	36.3	45.4	51.1	63.3	63.3	63.3
Kauno apskritis	45.6	68.4	72.3	82.3	82.3	82.3
Klaipėdos apskritis	40.4	73.9	76.9	84.8	84.8	84.8
Marijampolės apskritis	5.4	36.3	45.8	68.5	68.5	68.5
Panevėžio apskritis	13.3	50.4	56.8	70.1	70.1	70.1
Šiaulių apskritis	14.2	52.2	60.0	73.8	74.2	74.2
Tauragės apskritis	22.6	29.7	40.1	61.2	61.2	61.2
Telšių apskritis	51.8	55.8	61.8	75.1	75.1	75.1
Utenos apskritis	15.7	38.2	44.6	56.1	56.1	56.5
Vilniaus apskritis	39.7	73.9	76.2	82.5	82.5	82.5



RESULTS OF BROADBAND SURVEY
KEY TAKEAWAYS

National level

- Overall coverage of networks capable of providing low data rates (2, 10, 30 Mb/s) and VHCN is very good
- Decline in network coverage is visible when analyzing the development of networks capable of providing higher (100 Mb/s and more) speeds.

County level

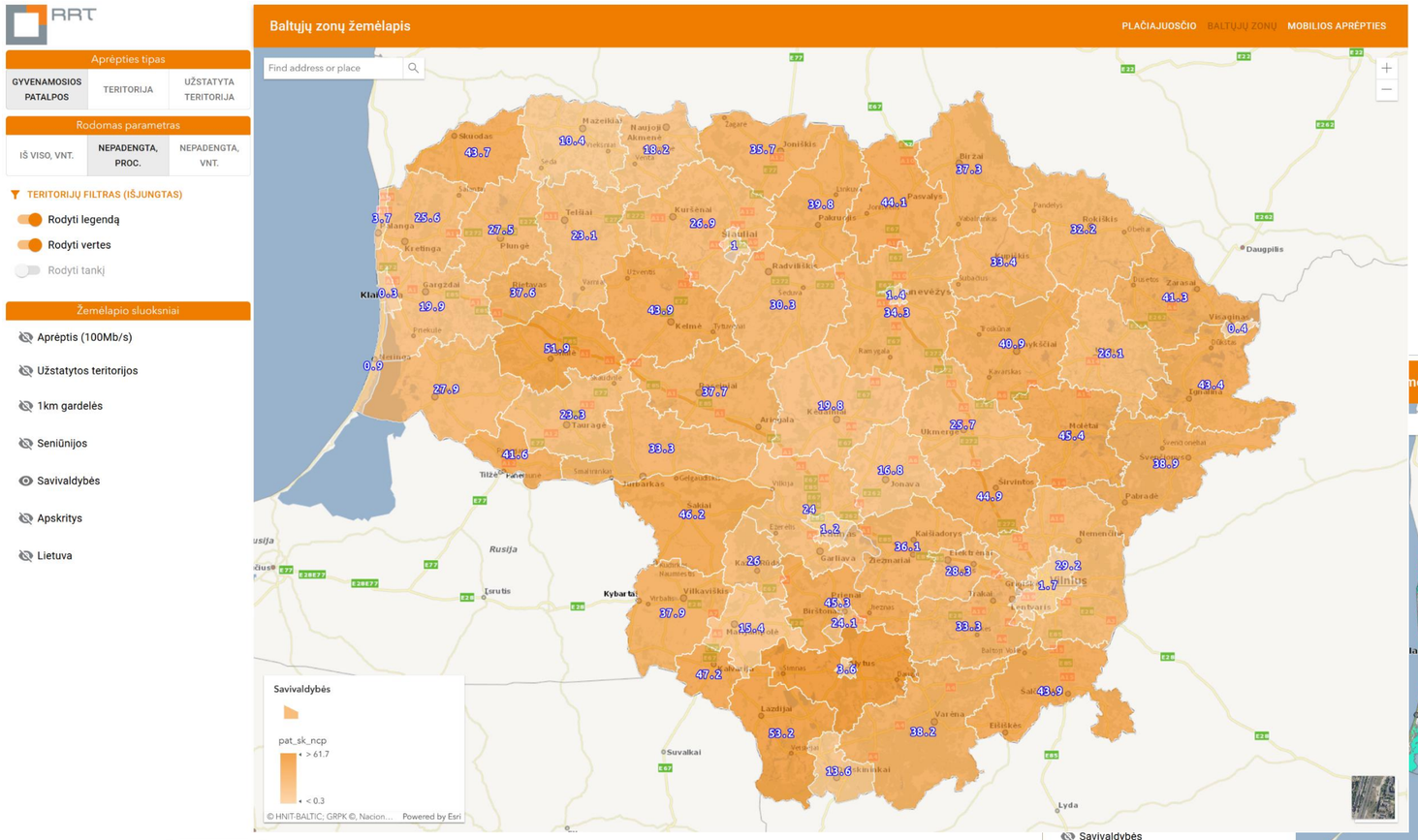
- Overall coverage of networks capable of providing low data rates (2, 10, 30 Mb/s) and VHCN is very good, covering at least 9/10 households in each county.
- Networks capable of providing at least 100 Mb/s data transfer speed cover at least 2/3 of the households in each of the counties.
- Development of networks providing over 1000 Mb/s high-speed data transmission is differs a lot from county to county. Depending on the network load, coverage of such networks varies from 10 percent to more than 50 percent of households in the county.

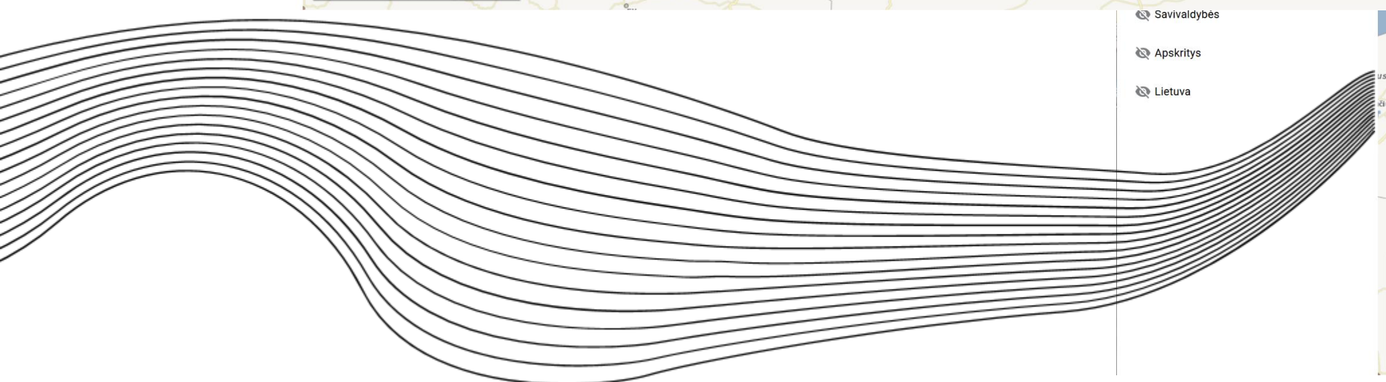
RESULTS OF BROADBAND SURVEY
KEY TAKEAWAYS (2)

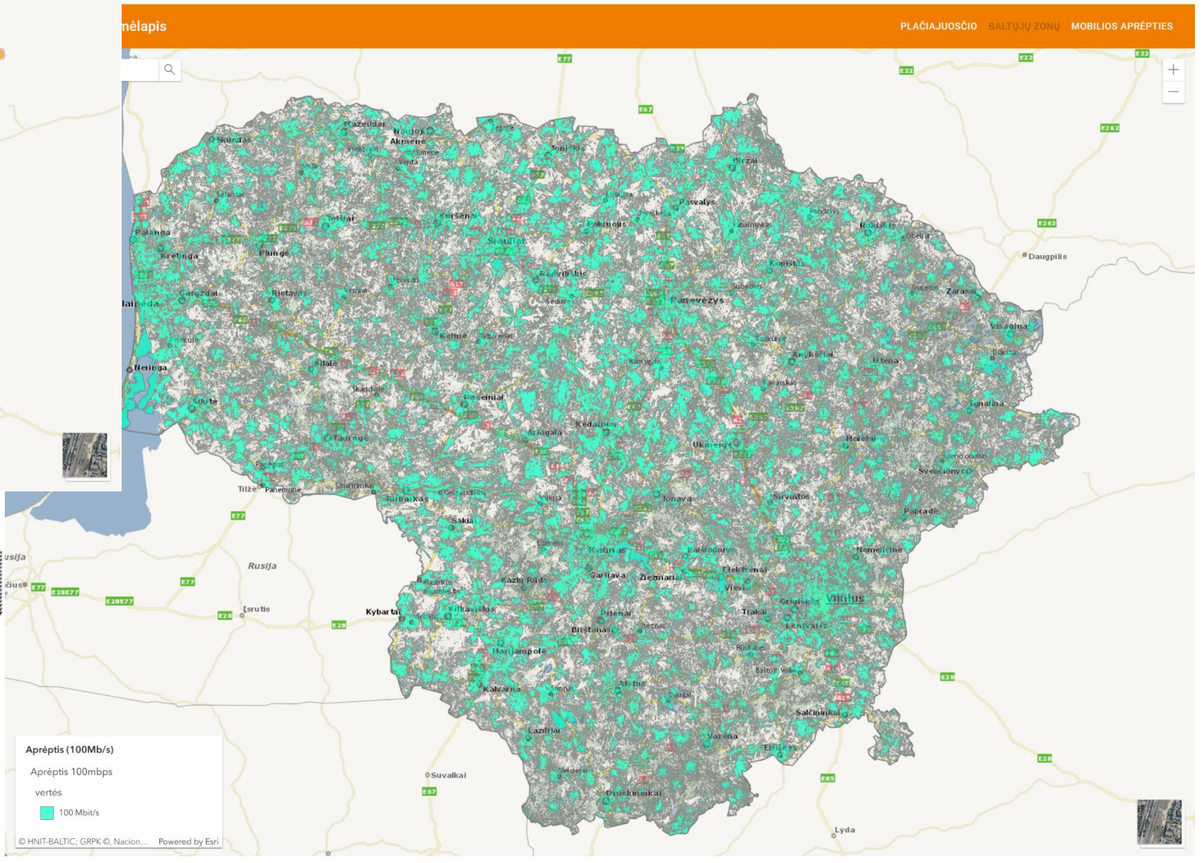
Municipality level

- Overall coverage of networks capable of providing low data transfer speeds (at least 2 Mb/s and at least 10 Mb/s) and VHCN is very good, covering at least 9/10 households in each municipality.
- Networks capable of providing at least 30 Mb/s data transfer speed cover at least 3/4 of the households in each municipality.
- Networks capable of providing at least 100 Mb/s data transfer speed cover at least 1/2 of the households in each of the counties.
- The development of networks providing 1000 Mb/s data transmission speed is very different in individual municipalities. Even with minimal network load, the values of this indicator ranged from 4.2 % to 96 % percent of households.
- The overall development of networks (comprehensively evaluated according to all speeds) is the best in the municipalities of Visaginas, Klaipėda, Vilnius, and the worst in Alytus.

NEXT STEP: MAPPING WHITE SPACES







ANALYZING WHITE SPACES

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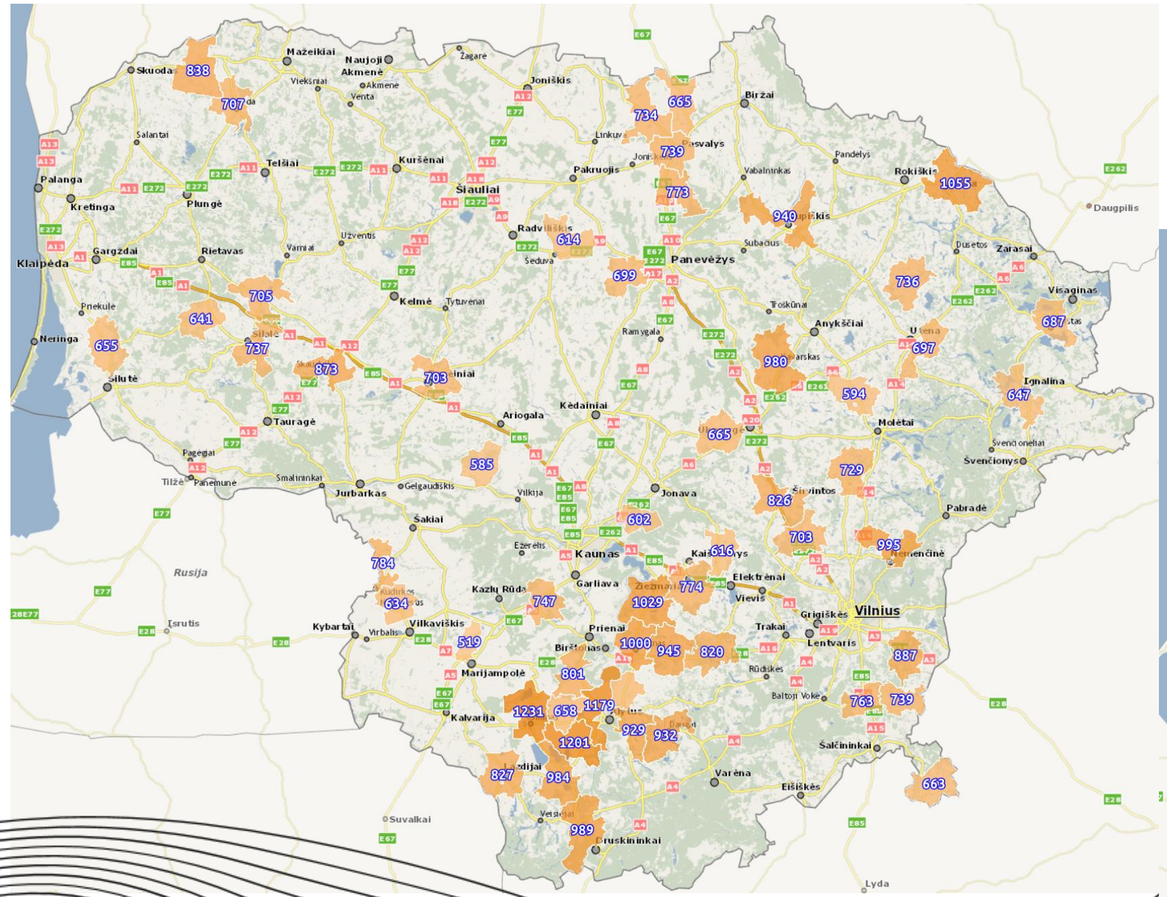
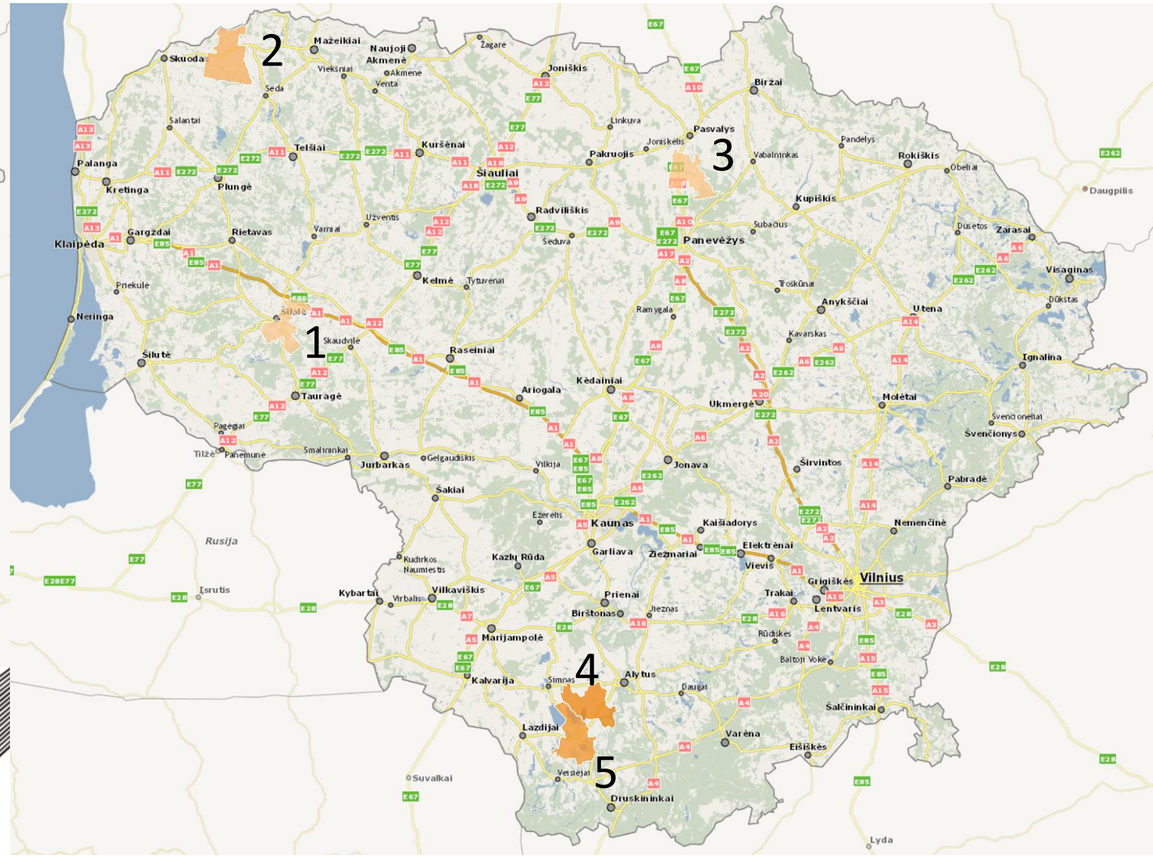


Filtering by: coverage type, values, percentages, density of households, etc.

Finding areas that need improvement the most.



Presented by
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