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AUTORITETI I KOMUNIKIMEVE ELEKTRONIKE DHE POSTARE

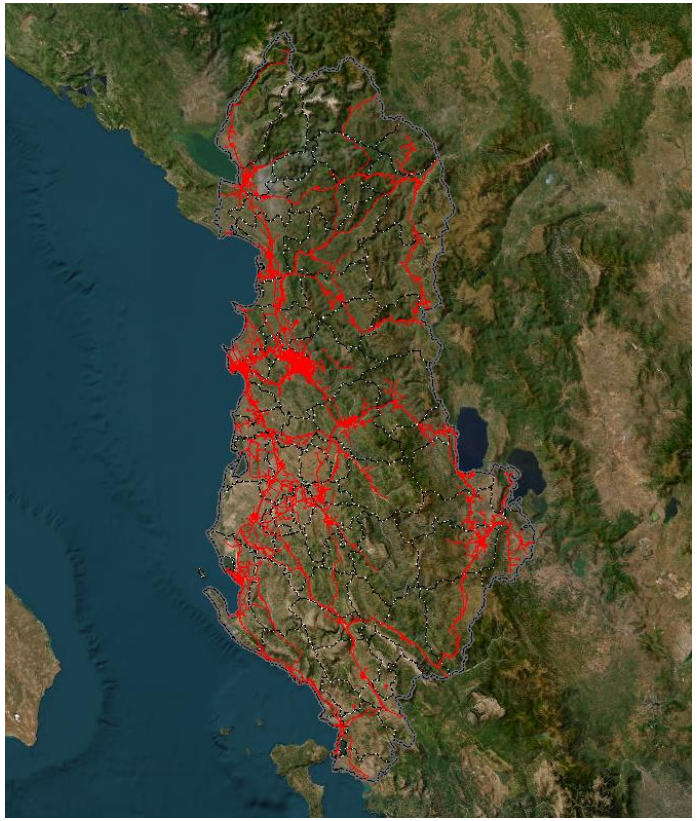
ITU

STRENGTHENING BROADBAND INFRASTRUCTURE AND SERVICES

FOURTH ITU-EMERG-EAPEREG JOINT WORKSHOP – 25TH OF JULY, 2024

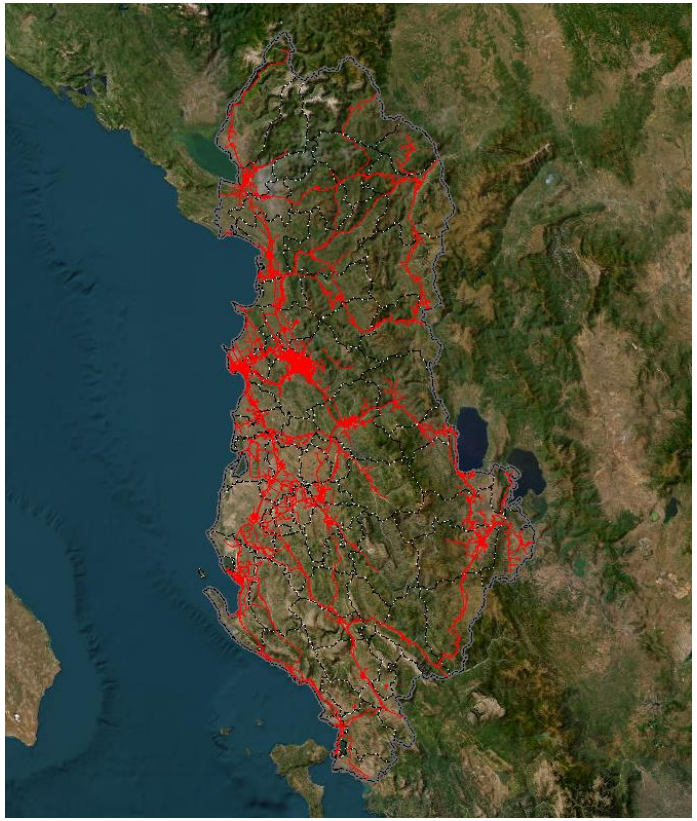
ATLAS – REPUBLIC OF ALBANIA

- The **ATLAS platform is an electronic geo-register for the entire electronic communications network in the Republic of Albania**. ATLAS stores all components of a network, according to self-declaration of data by Telco Operators.
- **Public Domain:** https://atlas.akep.al/smartPortal/AKEP

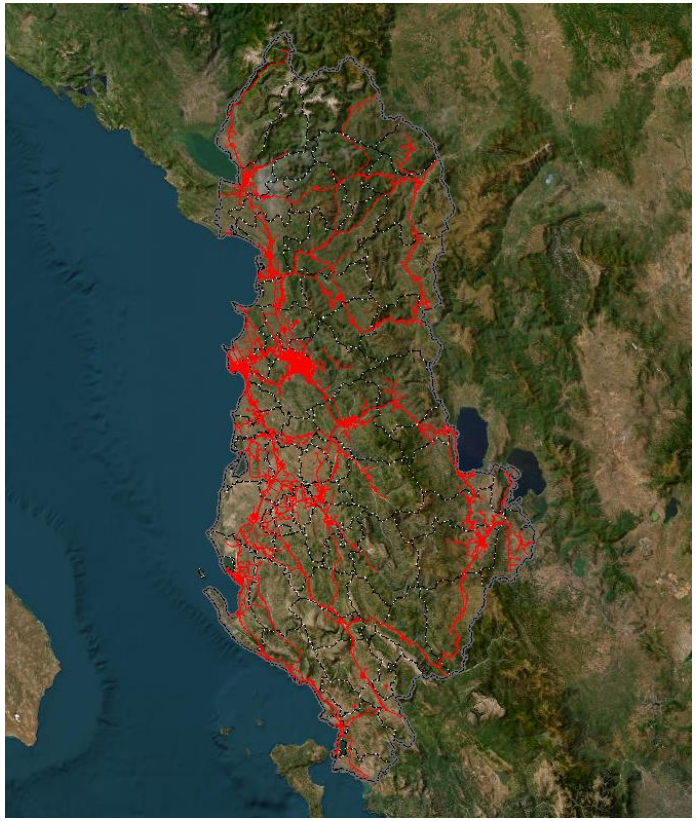


LEGISLATION

- **Law 9918**, dated 19.05.2008 – "*For Electronic Communications in Republic of Albania*"
- **Regulation no. 26** dated 16.08.2012, "*On the content, form and electronic functioning of the public electronic communications networks in the Republic of Albania*"



- Based on **Regulation no. 26** dated 16.08.2012, "*On the content, form and electronic functioning of the public electronic communications networks in the Republic of Albania*", **Telco Operators every 90 days are obliged to update their network** with the most accurate possible data.



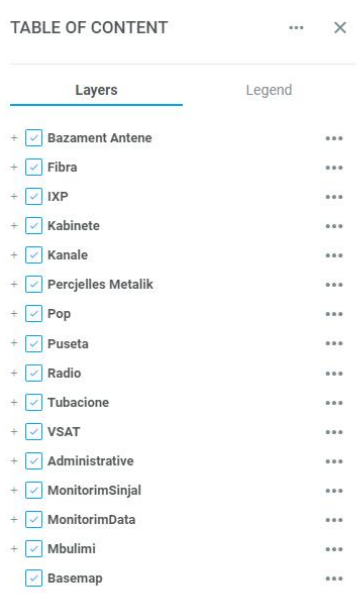
REPORTING

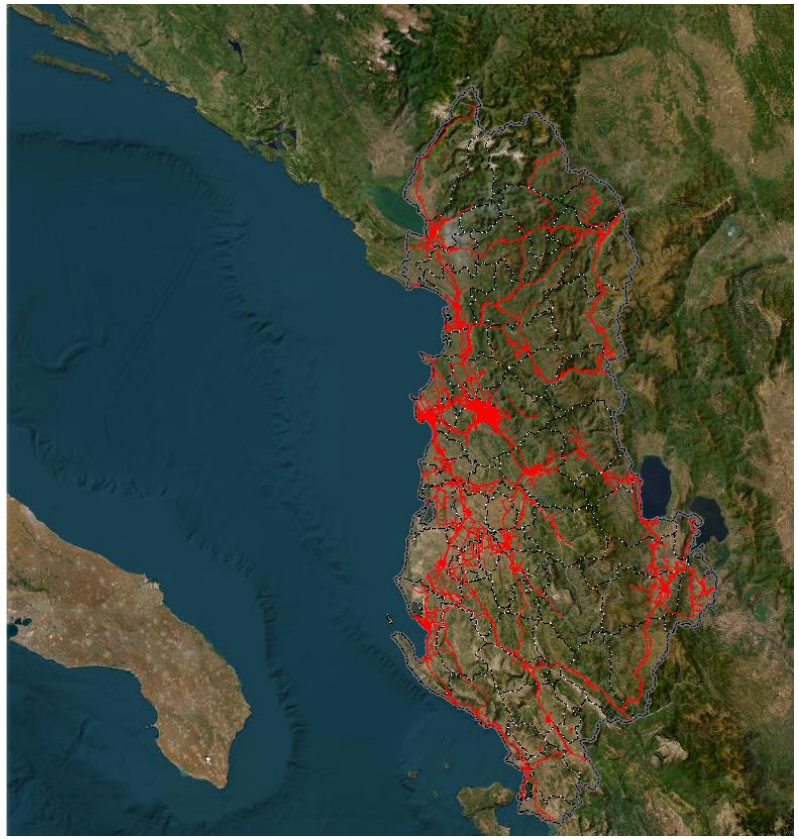
STAKEHOLDERS

- AKEP
- Operators
- Municipalities

COMPONENTS STORED

- Optic Fiber
- Antennas
- IXP
- Cabinets
- Radio transmitter
- Ducts, Pipes and PoP
- Channels
- Data and Signal Monitoring
- Coverage





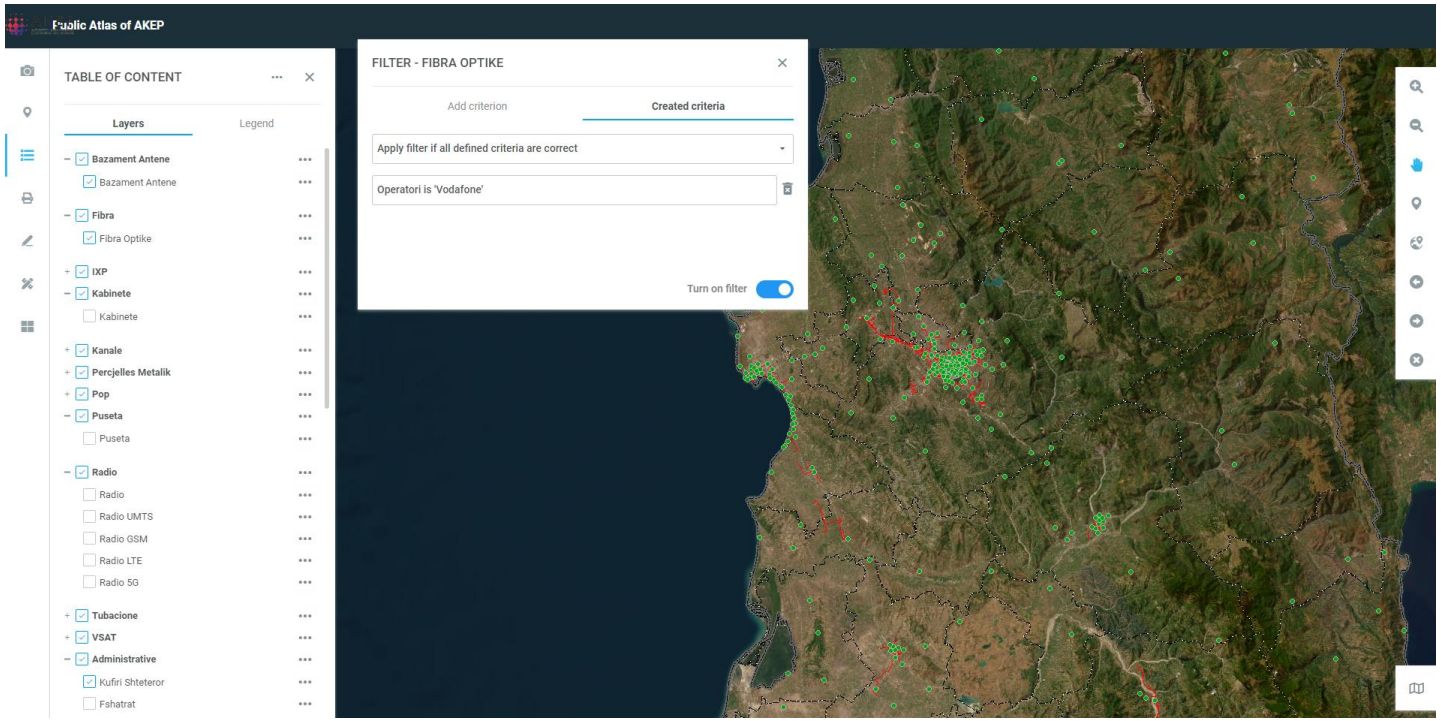
TECHNICAL DOMAIN

- 2 Virtual Machines
- Built on ArcGis
- Database & Application

USERS

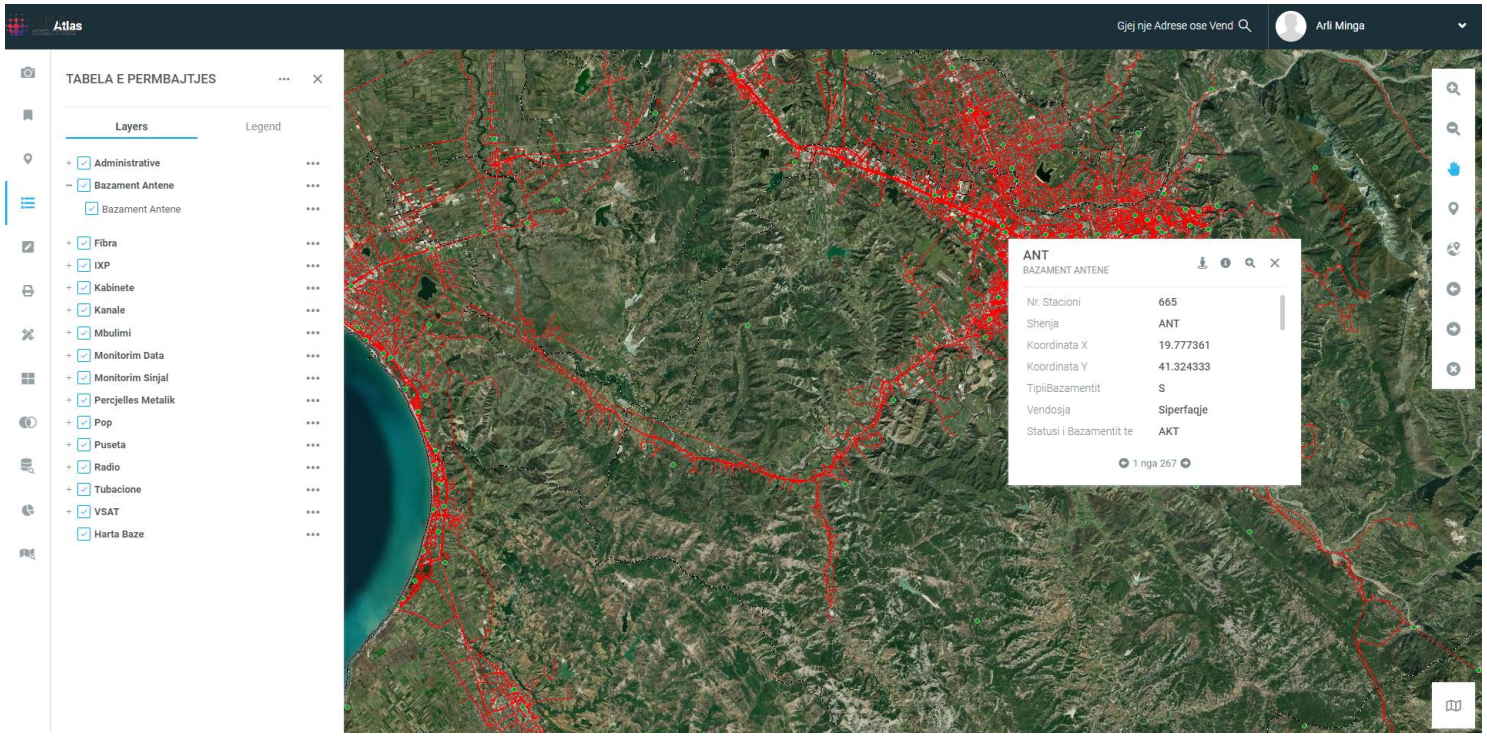
- AKEP – System Manager
- ~250 Operator users
- 61 Municipalities

- You can make visible every element that you want to be shown in the front page (i.e below: we have chosen to show public data for optic fiber network and antenna). You can filter the data for each Operator (i.e below: we have filtered data only for Vodafone Albania, selecting it's fiber and antennas)



USING PUBLIC ATLAS – SELECTING&FILTERING DATA

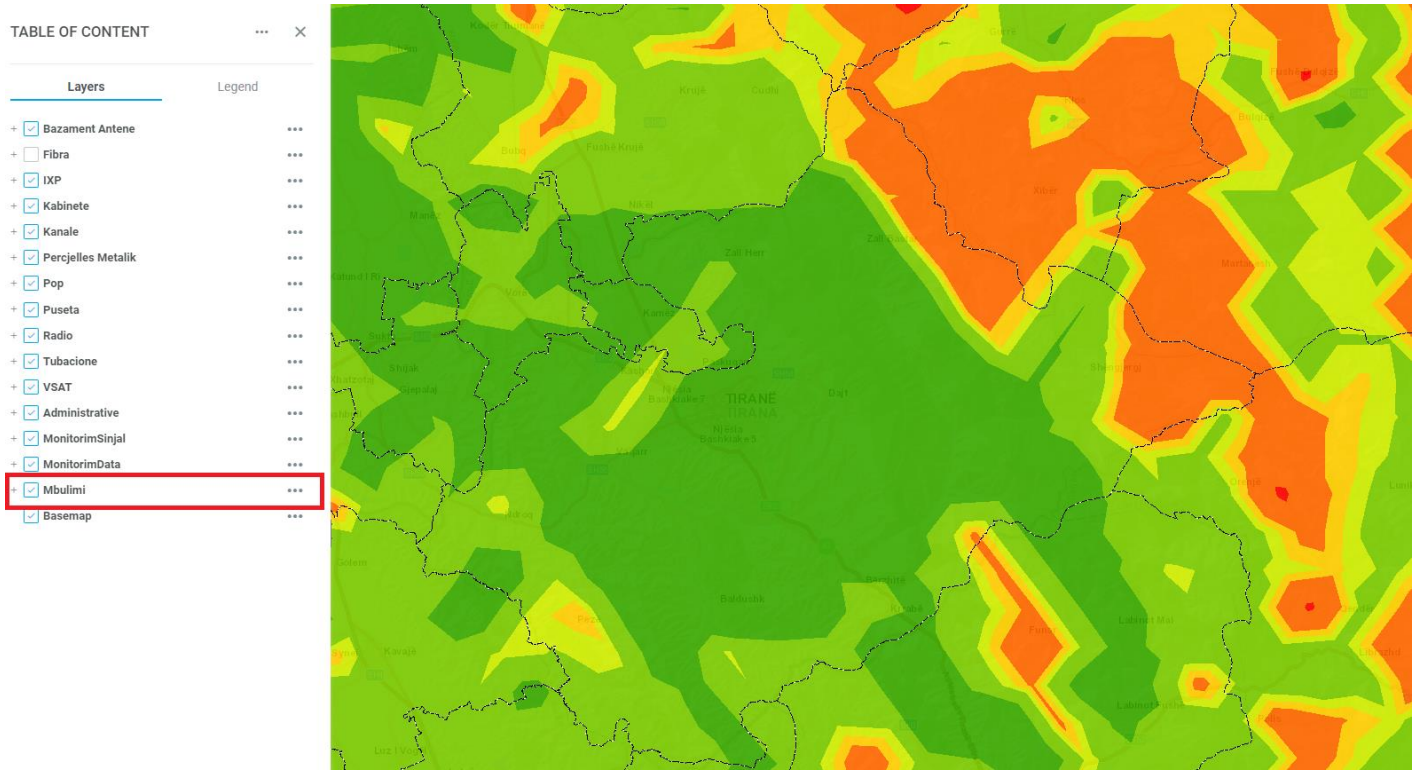
- You can read specific data for each element by clicking on it (i.e below: we are reading data for one antenna)



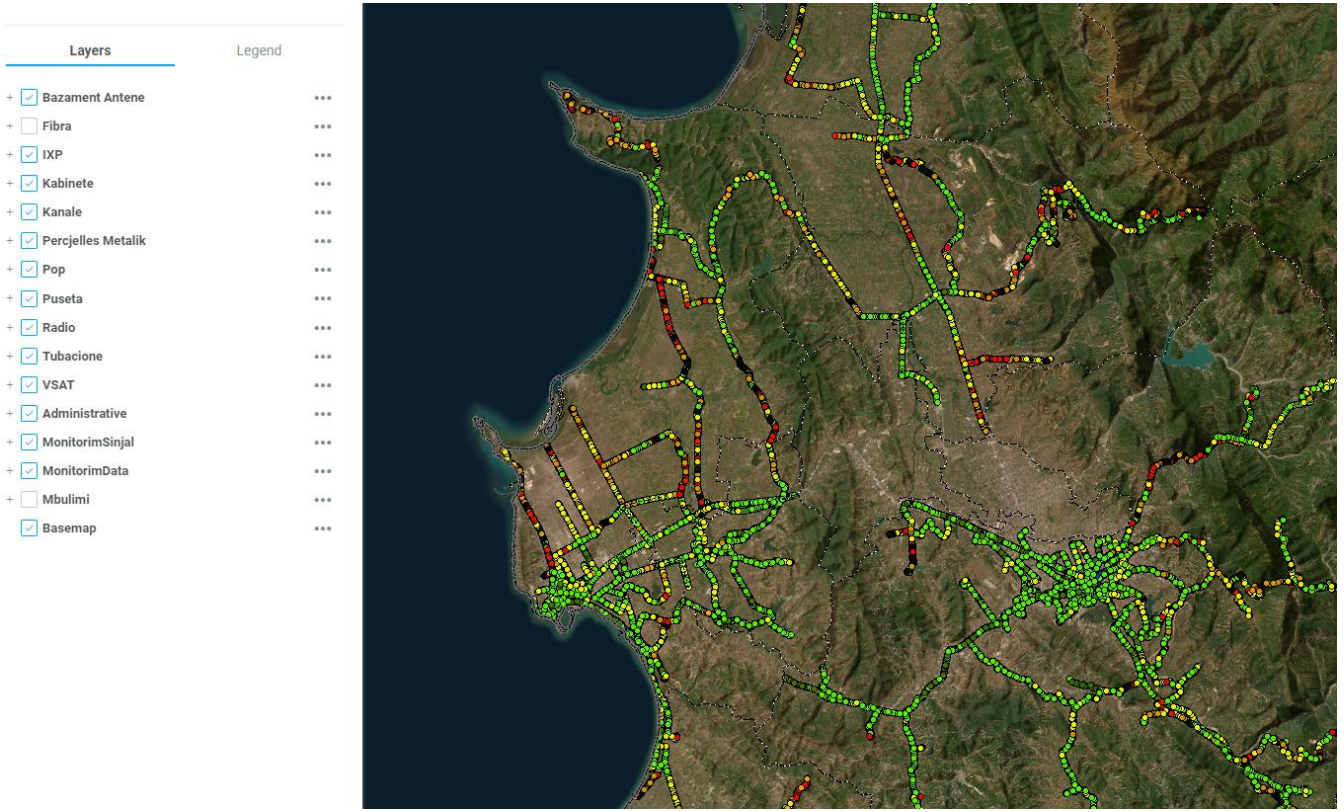
USING PUBLIC ATLAS – DATA FOR COMPONENT

USING PUBLIC ATLAS – COVERAGE

- How coverage visualization look like in our Public ATLAS. The example on the right side is for coverage in Tirana



- How data & signal monitoring visualization look like in our Public ATLAS. The example on the right side is for coverage in Tirana and Durrës



USING PUBLIC ATLAS – SIGNAL&DATA MONITORING

- To fill the gaps of the current ATLAS, make it more performant, add features, generate reports, store accurate data, this year we have been in close collaboration with ITU, to create the best idea of what the future broadband mapping system in the Republic of Albania will look like.

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REVISED ATLAS

REVISED ATLAS – TO FILL A BIG GAP FOR PASSIVE INFRASTRUCTURE

- One of the biggest gaps in our actual data stored in ATLAS is Passive Infrastructure. According to the system, we currently cannot say if a channel is technically and legally available for telco operators to store their network (optical fiber), apart from the data that are self-declared by operators.

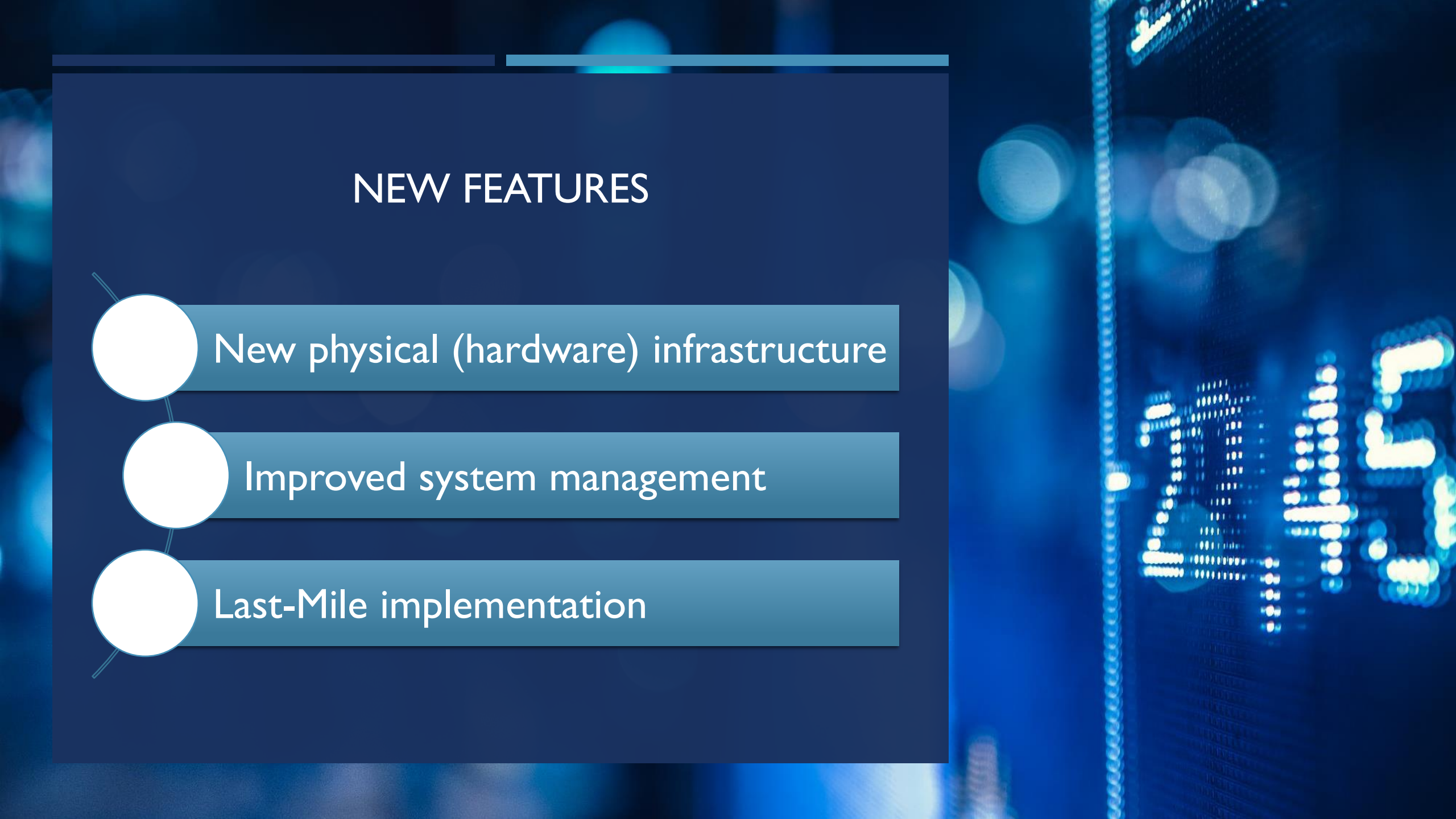
- We have to technically add this layer and we have to be in close collaboration with other public stakeholders, such as: ARRSH – Albanian Road Authority, Municipalities and even ASIG – State Authority for Geospatial Information.

- **Physical infrastructure (hardware) – Building performance**
- **Generating reports**
- **Automatic validation of Data**
- **Passive infrastructure**
- **Better visualization**

REVISED ATLAS – PROBLEMS TO TACKLE

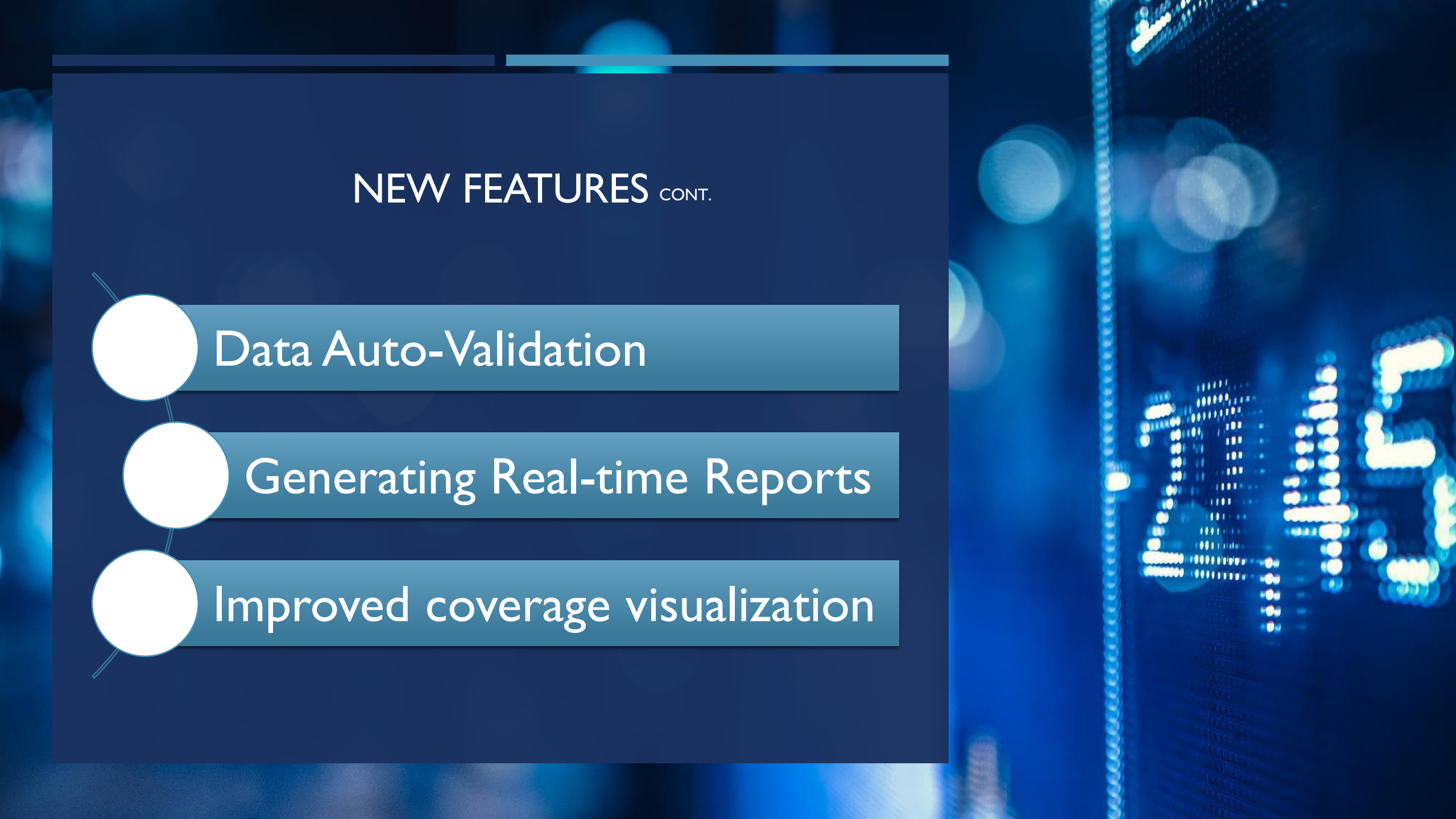
NEW FEATURES

- New physical (hardware) infrastructure
- Improved system management
- Last-Mile implementation



NEW FEATURES CONT.

- Data Auto-Validation
- Generating Real-time Reports
- Improved coverage visualization



THANK YOU!

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