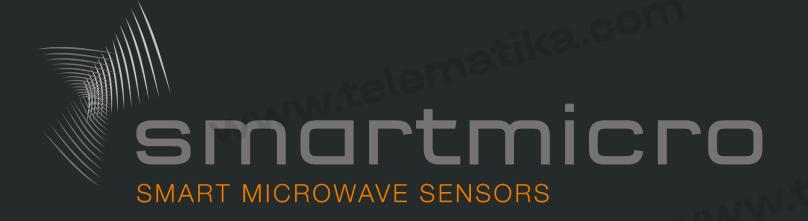


INTELLIGENT TRANSPORT SYSTEM OF THE CENTRAL RING ROAD





INTELLIGENT TRANSPORT SYSTEM OF THE CENTRAMRING ROAD



The main tasks considered for the traffic parameters monitoring subsystem:

- Traffic flow parameters collection
- Real time processing of the received data
- Data storage
- Data transfer to Apper Level ITS subsystems in the requested form



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Efficiency Key-Factors subsystem purpose:

- Ensuring road safety
- www.telematika.cc Ensuring the efficiency of services (increasing user comfort)



The following functions were implemented within the ITS subsystem:

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- Constant collection of traffic flows parameters on the Central Ring Road (counting, classification, speed control)
- Central Control Center Service Operator online notifications - traffic intensity witch check point location
- Decision algorithms support in according to the System Road rules
- Event card issuing for each fact of a critical change in traffic intensity
- Statistical analysis of traffic intensity data at the Central Ring Road, conditions of occurrence and timing of elimination www.telematika.com

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INTELLIGENT TRANSPORT SYSTEM OF THE CENTRAL RING ROAD



UMRR-OC TYPE 40 FORWARD+

Project timeline: Q4'2020-Q3'2021

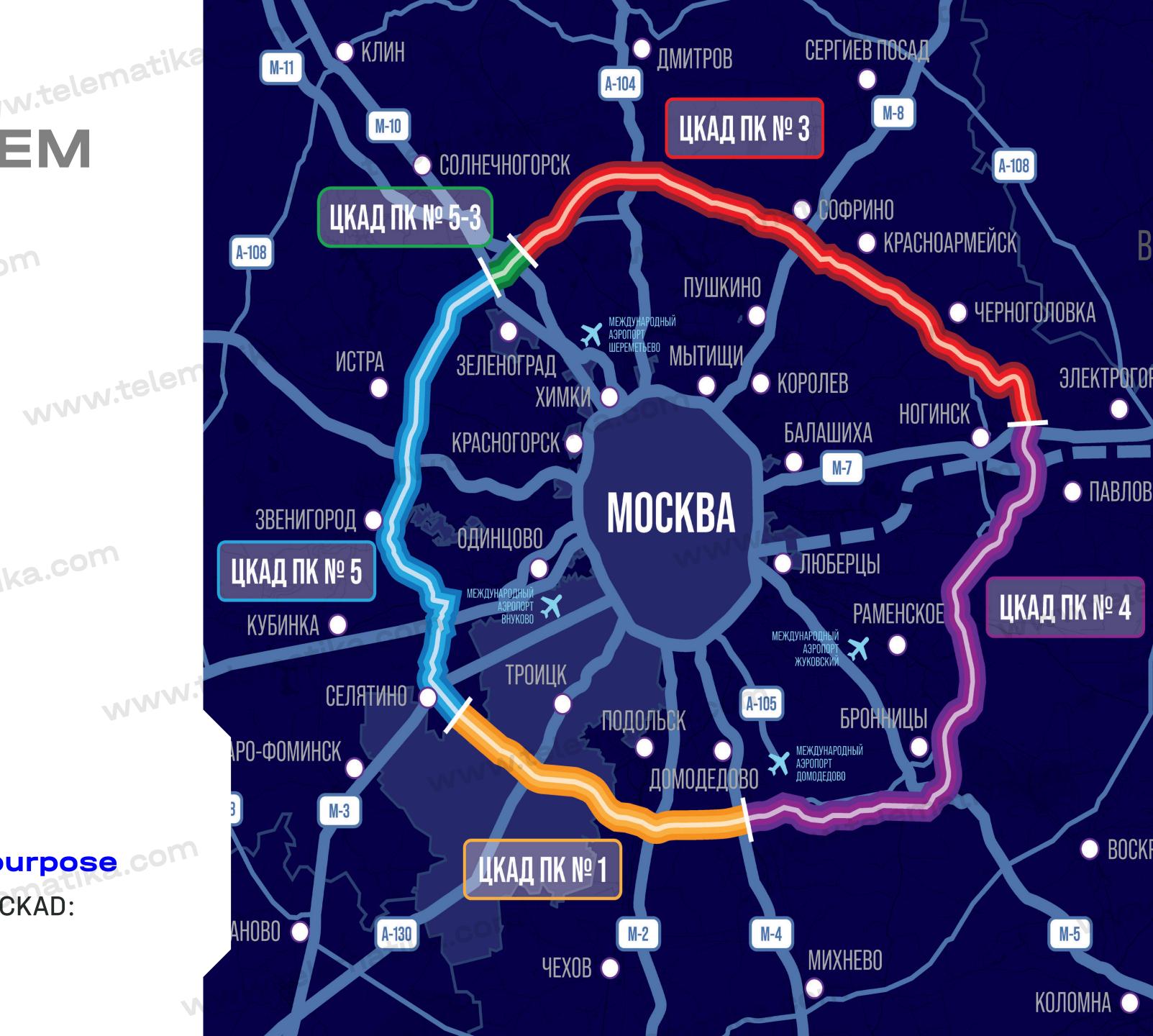
Road length: 336 kilometers

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Traffic counting and classification purpose

Total number of Radar sensors installed at the CKAD:

307



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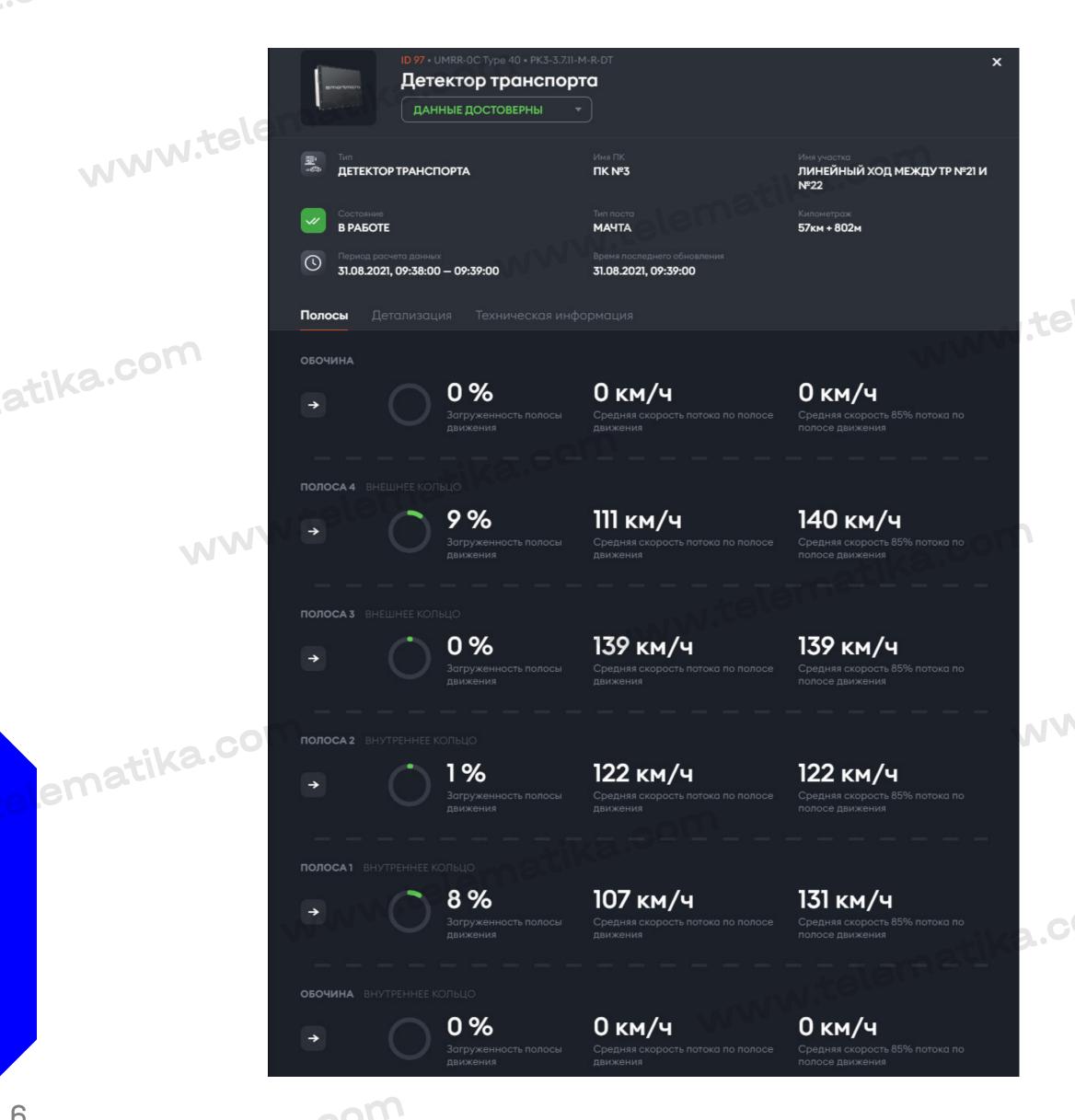
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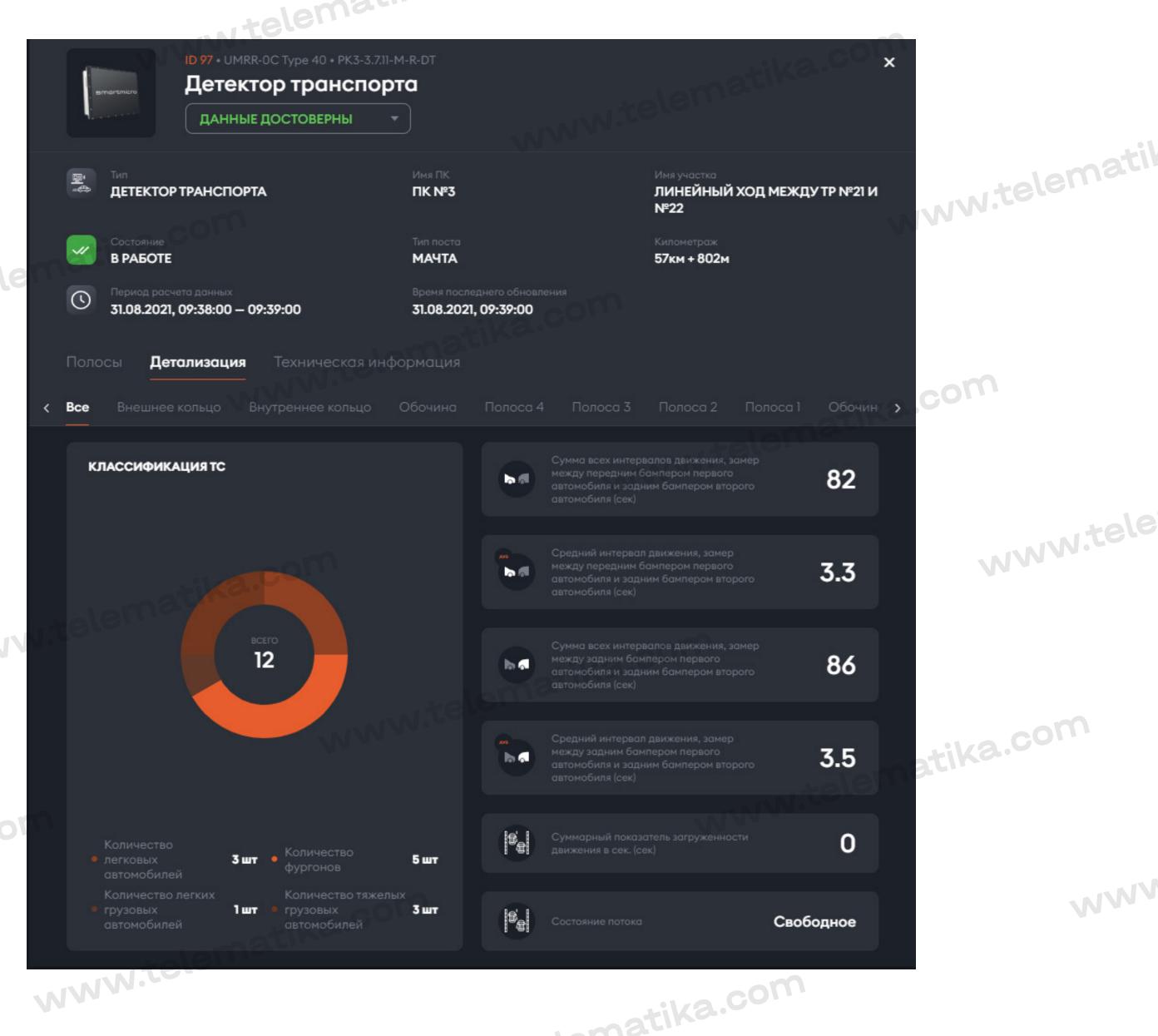
ROAD SECTOR TRAFFIC FLOW MONITORING



5

www.telelila EACH 2 KM TRAFFIC MONITORING DATA





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6

ITS SENSORS CHALLENGES

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Problems identified during installation and commissioning:

 Sound Barriers cause a traffic vehicle signal reflections and Ghost appearing

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- Big metal tracks with containers and handcarriges also did cause Ghost appearing
- Total percentage of Vehicle counting were 80-85%



Issues handling:

- Special sensors FW with Polygons releasing.
- ITS Central SW Special post-processing algorithms applying for correct counting.

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Further approach

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- In Q2'2021 a TRUGRD Stream sensor has been testes to compare results
- Better counting and classification performance
- Better Ghost handling number of failure cases has been decreased



THANKS FOR YOUR ATTENTION

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