5GEDGE4HEALTH transforms paediatric healthcare in Bulgaria

5G EDGE 4HEALTH

Project partners:

Municipality of Burgas

Vivacom

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South East Digital Innovation Hub

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Innovative, Smart and Connected

Paediatric ecosystem

Consultation-coordination center in paediatric hospital St. Anastasia in Burgas connected to

- 10 cities - stationery regional medical points
- 24 populated places - 5G equipped ambulances

Secured data analysis and trainings

- real time data analysis
- Development of prevention and monitoring algorithms
- Clinical validation of telemedicine workflows

Technical solution

- cloud and edge computing infrastructure connected to the Telemedicine Coordination and Consultation Centre, enabling secure real-time data exchange over high-capacity 5G connectivity.
- Telemedicine Lab for trainings

use cases shall be structured as transferable models to be reused within 5GSC ecosystem and EDIH network

Use cases and technical solution

5GEDGE4HEALTH in practice

Equal and timely access to paediatric care for remote areas in Burgas

1 **Permanent pediatric healthcare via 5G-equipped medical units**

- Online consultations with specialists
- Prevention through periodic screening
- Mobile units' visits on schedule

2 **Emergency services**

- Connected ambulances
- Real time consultation with specialist
- Adequate diagnosis and dispatch

Benefits for society

- equal access to specialized paediatric healthcare

- early diagnosis and prevention

- reduced pressure on hospitals

- more resilient and inclusive public healthcare system

- Replication across EU