

Ministry of Trade, Tourism and Telecommunications

## CONNECTED SCHOOLS PROJECT

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**Connected Schools Project** 

## Objectives

- Equalization of the educational opportunities for all students in the Republic of Serbia (attending classes both in urban and rural areas)
- Fulfillment of infrastructural preconditions for further development of education ICT infrastructure development for educational institutions
- Competitiveness in the digital age
- Achievement of a higher level of safety in schools



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## Connected Schools Project WAN and WLAN Connectivity for all schools Description

- Provision of WAN connectivity to Academic Network of the Republic of Serbia (AMRES) for all schools
- Provision of the wireless local area network (WLAN) infrastructure to educational institutions (base schools and detached school units) in accordance with the established criteria
- AMRES central location systems and backbone upgrade



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## Connected Schools Project WAN Schools' Connectivity

• **Objective:** Provision of fast, stable and secure Internet access through the Academic Network of the Republic of Serbia (AMRES) to all base schools (already provided) and all detached school units (until the end of 2021) in the Republic of Serbia







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Connected Schools Project WAN Schools' Connectivity

#### Current WAN Schools' Connectivity

To be realized WAN Schools' Connectivity (end of 2021)

Current Link type				
Link type	<b>Base school unit</b>	Detached school unit	Total	
Dark Fiber	181	0	181	
L3 Fiber optic	271	0	271	
L3 GPON	9	0	9	
L3 xDSL over 40Mbps	576	0	576	
L3 xDSL under 40Mbps	563	2	565	
L3 LTE/4G	53	0	53	
Not Connected	3	2271	2274	
Total	1656	2273	3929	

Future Link Type				
Link type	Base school unit	Detached school unit	Total	
Dark Fiber	182	0	182	
L3 Fiber optic	413	0	413	
L3 GPON	181	69	250	
L3 xDSL over 40Mbps	492	382	874	
L3 xDSL under 40Mbps	335	628	963	
L3 LTE/4G	53	1194	1247	
Not Connected	0	0	0	
Total	1656	2273	3929	



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Connected Schools Project WLAN Schools' Connectivity

#### Criteria

1. Number of students attending classes in a school unit (school units with the largest number of students are connected first)

2. Size of a school unit (5 or more active classrooms)

3. Type of connection to AMRES/the Internet (speed of 30Mbps+)





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#### Connected Schools Project WLAN Schools' Connectivity

#### Timeline and Budget



- Connected Schools Pilot project realized in 2018
- Connected Schools Project Phase 2 realized in 2019 and 2020



- Connected Schools Project Phase 3 Realization in 2021



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#### Connected Schools Project WLAN Schools' Connectivity

Scope

- 1884 schools
- 763.820 students (95% of total number of students in the RS)
- 36.438 active classrooms (87% of total number of active classrooms in the RS)

The ratio of base schools and detached school units in the Republic of Serbia





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## **Connected Schools Project** WLAN Schools' Connectivity

**Results** (Pilot, Phase 2)

#### Connected Schools Project - Pilot, Phase 2, Phase 3



Total number of schools finished during Pilot and Phase 2 (2018+2019+2020)

Total number of schools to be finished during Phase 3 (2021)

934 School objects (both base units and detached units)

#### 49,6%

project

479.248 the percentage of The number of students finished schools that attending classes in the are envisaged by the finished school units

63%

the percentage of students attending classes in schools envisaged by the project



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Connected Schools Project WLAN Schools' Connectivity

Phase 3 - 2021

950

School units (both base schools and detached school units)

## **50,4%** the percentage of the

total number of

the project

schools envisaged by

total number of students attending classes at school units

248.572

37%

the percentage of students attending classes at school units that are envisaged for realization during Phase 3

## Connected Schools Project Realization -Active classrooms perspective



Total number of active classrooms encompassed by Pilot and Phase 2 (2018+2019+2020)

Total number of active classrooms envisaged by Phase 3 (2021)



Connected Schools Project WLAN Schools' Connectivity Building a Truly Connected National System

• Each and every Wi-fi user that gets registered and obtains an authorized access to the SSID (Service Set Identifier) "skolski\_wifi" within a single base school/detached school unit encompassed by the Connected Schools Project, automatically receives access to the Wi-fi network in all of the schools that are in the Project's scope

 Teachers and educators have the possibility to create a one-time access Wi-fi password (which grants Wi-fi access for the duration of 24 hours), when having visitors at base school/detached school units



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# Thank you!

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