OSE — OGÓLNOPOLSKA SIEĆ EDUKACYJNA

KPRM — KANCELARIA PREZESA RADY MINISTRÓW

NASK

ose.gov.pl

NATIONWIDE EDUCATION NETWORK (OSE) IN POLAND

Internet access in schools - 2017

Almost 10% with

no access

Only 10% with access

to >100 Mbps

The idea of OSE (Ogólnopolska Sieć Edukacyjna)

OSE provides **FREE OF CHARGE**:

- Internet access services of at least 100 Mbps symmetrical

- advanced cybersecurity measures

- assistance to digital skills' development

VIA a virtual network based on dedicated core and leased lines

On VOLUNTARY basis

22 500 schools
600 000 teachers
**5 000 000** students

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OSE core network & Internet security

Most essential tasks:

- IP/MPLS core network deployment

- OSE security systems deployment (Anti-DDOS, Web filtering, contents filtering, parental control etc.)

- Cloud computing

- Operations Support Systems

~100 tasks amounting to ca. 130 MLN EUR

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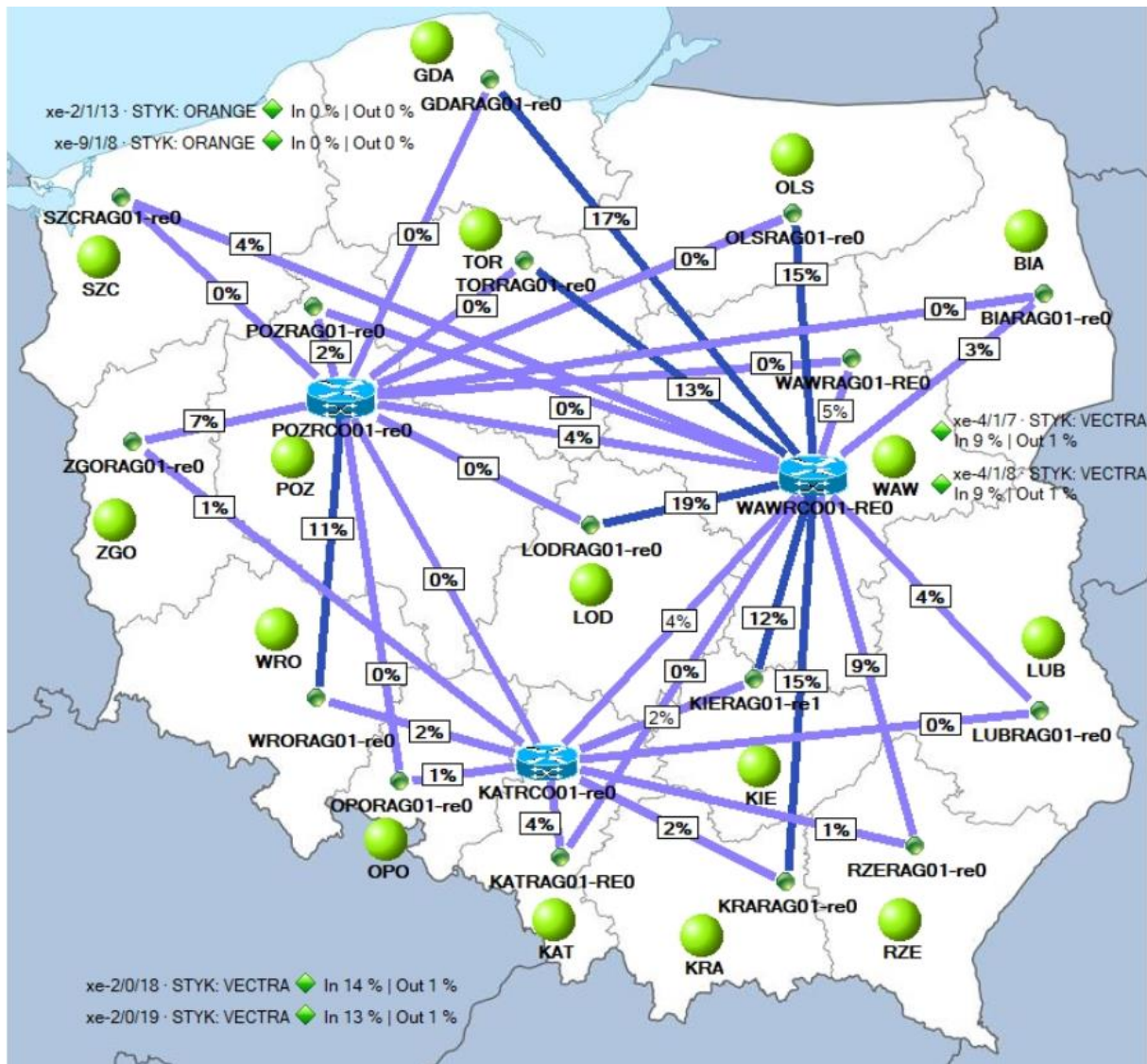
OSE core network

- 16 regional nodes
- 3 central nodes

OSE Internet access services

56 nationwide tenders

Acquisition of last mile & transit lines

284 interconnections

585 line-lease contracts
~25 MLN EUR annualy

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Internet access in schools - 2021

ALL schools with access to internet
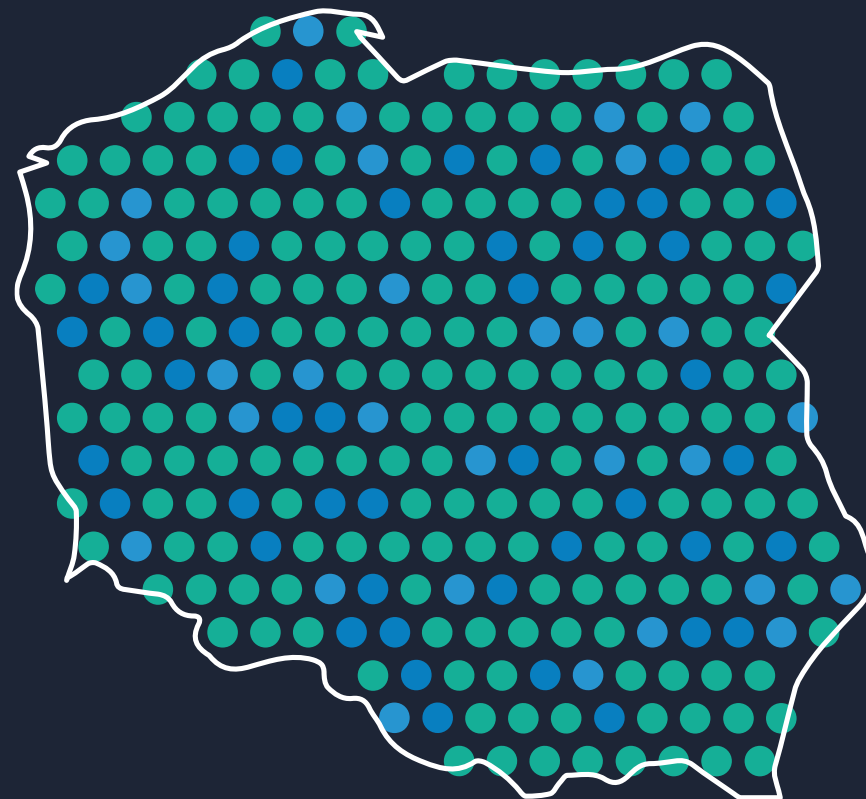
OSE Internet access services - 2021

20 000
schools subscribed

18 000
schools with active OSE service

19 000
schools ready for the service

2 000
services are being activated

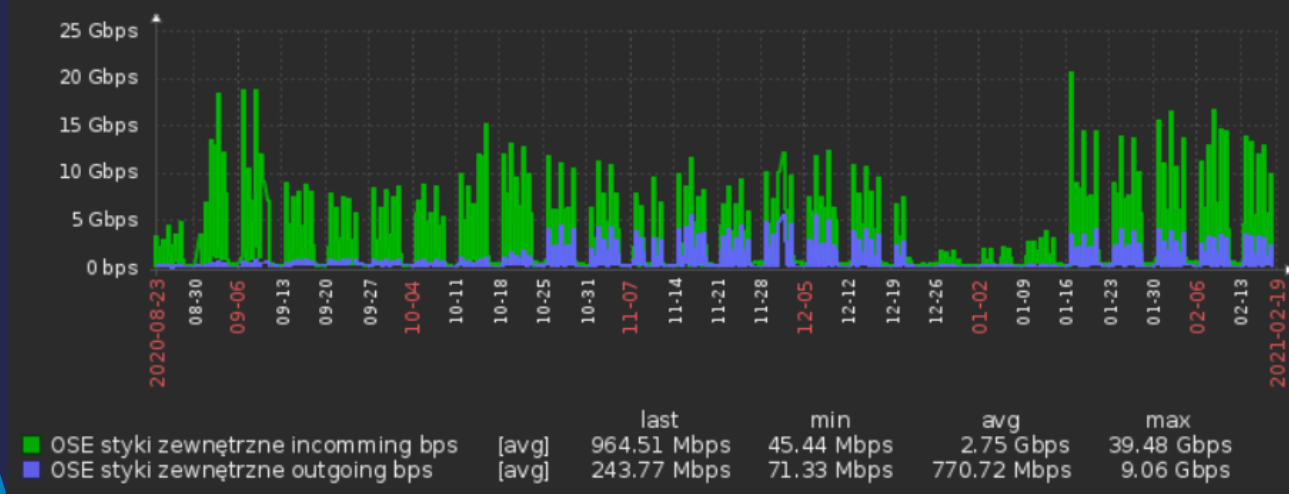**~2 000**
schools still may subscribe

Subscriptions still open

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OSE services monitoring – data consumption

- Avg. data flow (daily)

  17Gbps DN/4Gbps UP

- Avg. school (daily)

  0,38 Mbps DN/0,15 Mbps UP
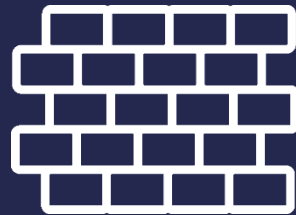
- Avg. school (monthly)

  6,39 GB DN/2,83 GB UP

Ruch w sieci OSE od 09/2020

OSE security measures - 4 levels:

- **I** – Firewall, prohibiting access to certain webpages cosidered as basic threats

- **II** – Antivirus and Web filtering, dynamic analysis of threats based on reputational data

LVL I
Firewall

LVL II
Antivirus & Web filtering

OSE security measures cont'd:

- **III** – data flow monitoring, dynamic analysis of contents (text, audio, video), detection of threats (incl. cyberbullying or data potentially noxious for students healthy development)

- **IV** – parental control app on smartphones

Each school voluntarily chooses the extent to which the security measures are implemented

LVL III
Dynamic analysis of contents

LVL IV
Personal devices

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OSE COVID-19 additional measures (homeschooling):

GOV.PL/ZDALNELEKCJE

A webpage sharing educational contents & tools, launched as a single contact point to help teachers & students maintain the implementation of curricula during homeschooling
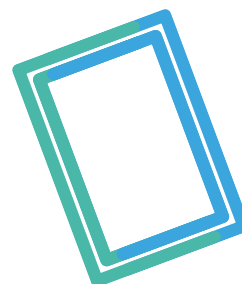
- **127 MLN** views

- **4,5 MLN** active users

- **8 500** lessons scenarios for different subjects & grades

- **39 300** electronic contents & tools for homeschooling

Devices for schools in need
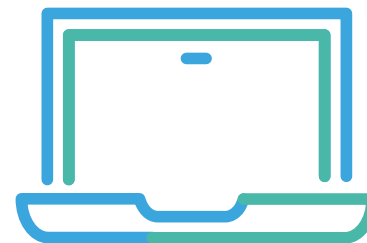
12 800
laptops

60 000
tablets

Thank You

Marcin Łukasiewicz

Senior Specialist

Telecommunication Investments Unit

Telecommunications Department

The Chancellery of the Prime Minister

marcin.lukasiewicz@mc.gov.pl

https://www.gov.pl/web/cyfryzacja

https://ose.gov.pl/