IT Solutions Centre

New concept of informatisation
of territorial communities in Donetsk Oblast

Why is improving IT processes in territorial communities relevant?

Global trends towards informatisation of all social processes;

Ukraine's support for "A State in a Smartphone" concept;

Increase in the number and complexity of information procedures in social and political processes;

The need to formalise and unify organisational tasks with the maximum degree of automation;

The desire to introduce information technologies to support decision-making to improve management functions.

Prerequisites for creating the IT Solutions Centre

The study of the state and prospects for the development of information technologies in Donetsk Oblast included:

- Analysis of strategies and programmes for the territorial communities development;

- Assessment of the technical level and content of web resources of territorial communities;

- Analysis of the software used;

- Assessment of the technical level of hardware and communication tools;

- Analysis of available human resources.

Human resources

Level of IT proficiency
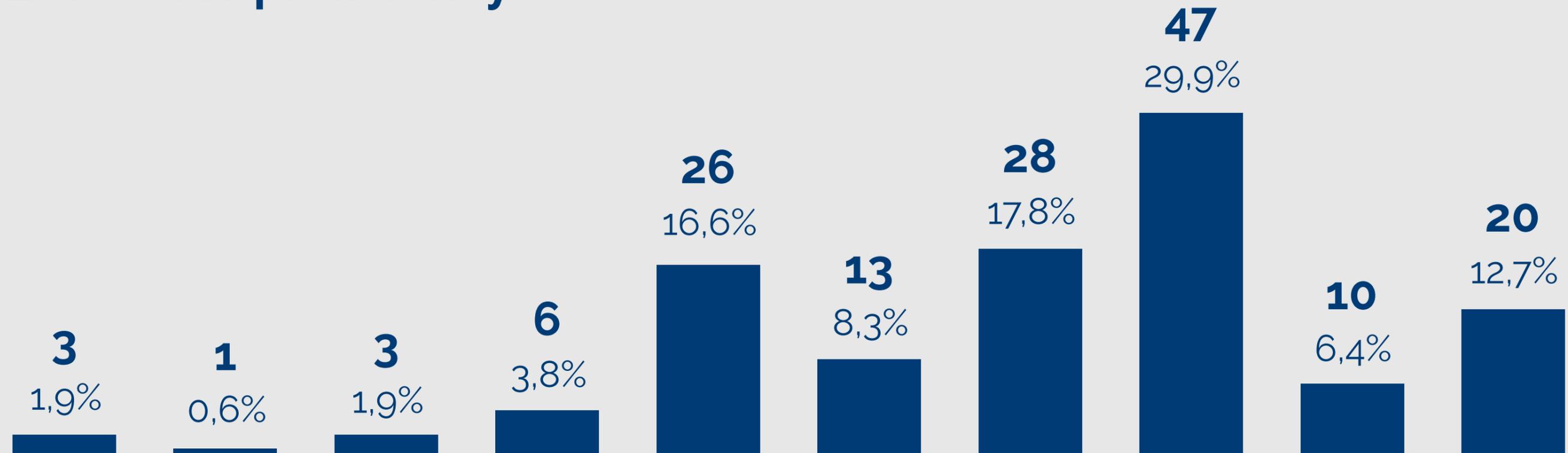
Employees rated their level of IT skills on a 1–10 scale, where 1 means 'have elementary skills' and 10 means 'have excellent skills'.

# Human resources

Have measures been taken to increase the level of IT competencies?
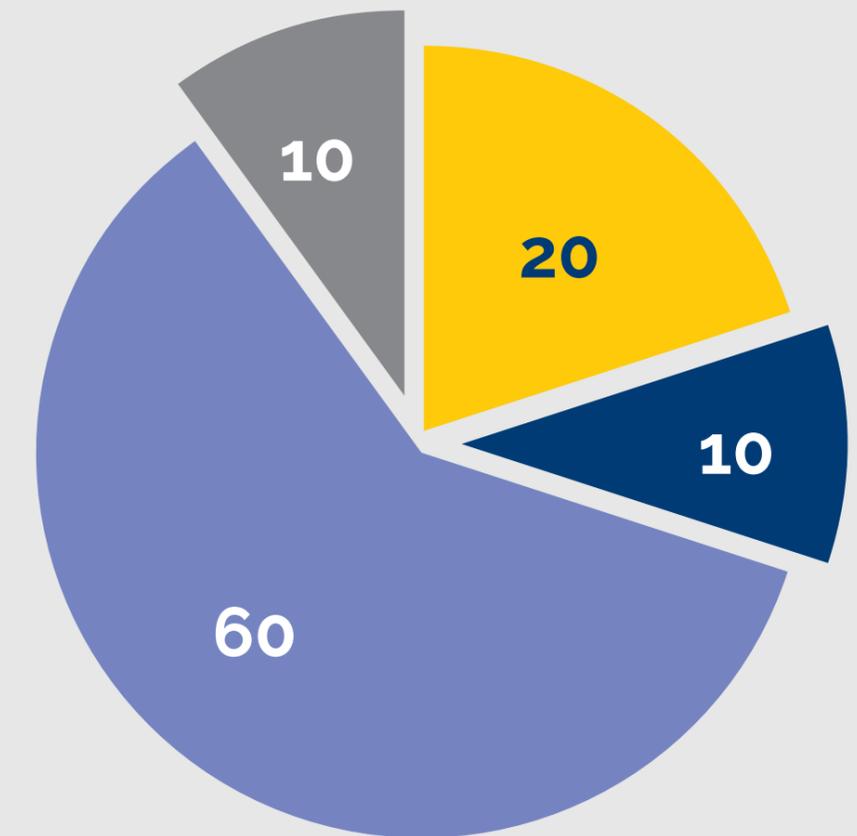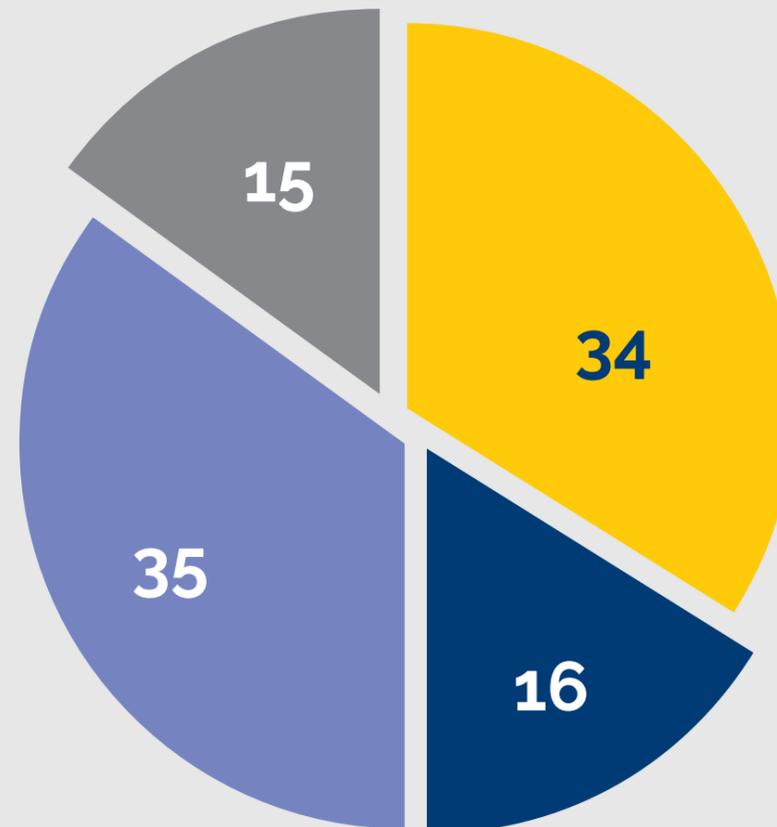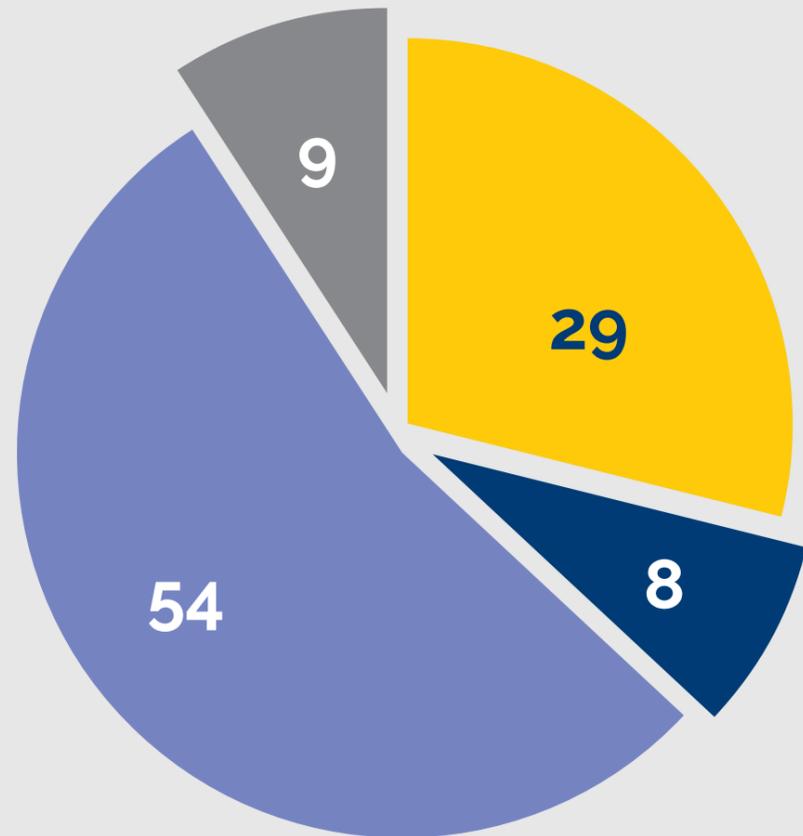
- Yes, there have been, and I took part
- Yes, there have been, but I did not take part
- No, there have been none
- Not sure

Hardware and software

Age range of computerised workplaces

- ■ 1-3 years
- ■ 3-5 years
- ■ 6-9 years
- ■ 10+ years

Computer network

- ■ Yes, and it fully satisfies current needs
- ■ Yes, but it needs expansion and/or updating
- ■ No, but there is a need to create one
- ■ No, production tasks do not require one
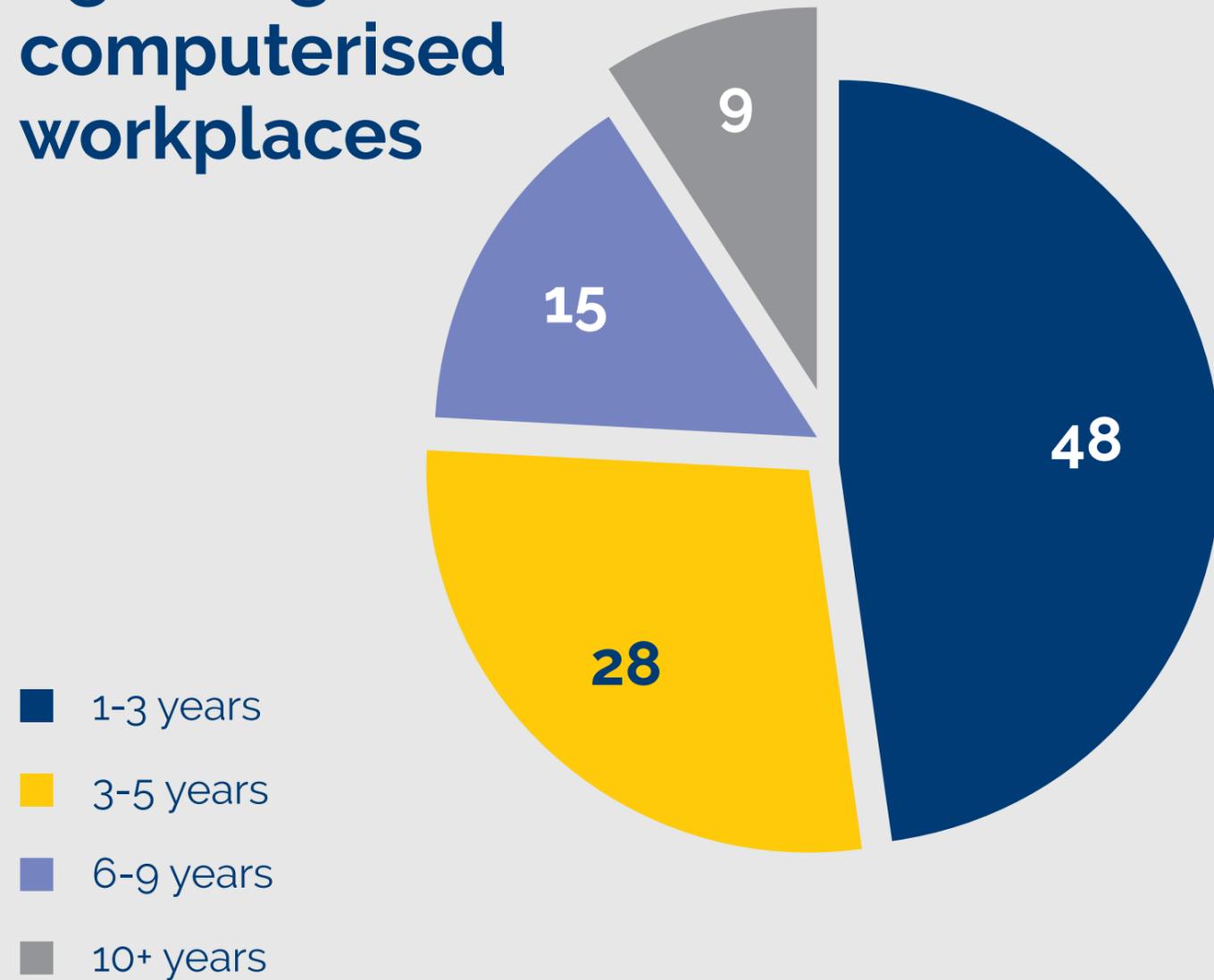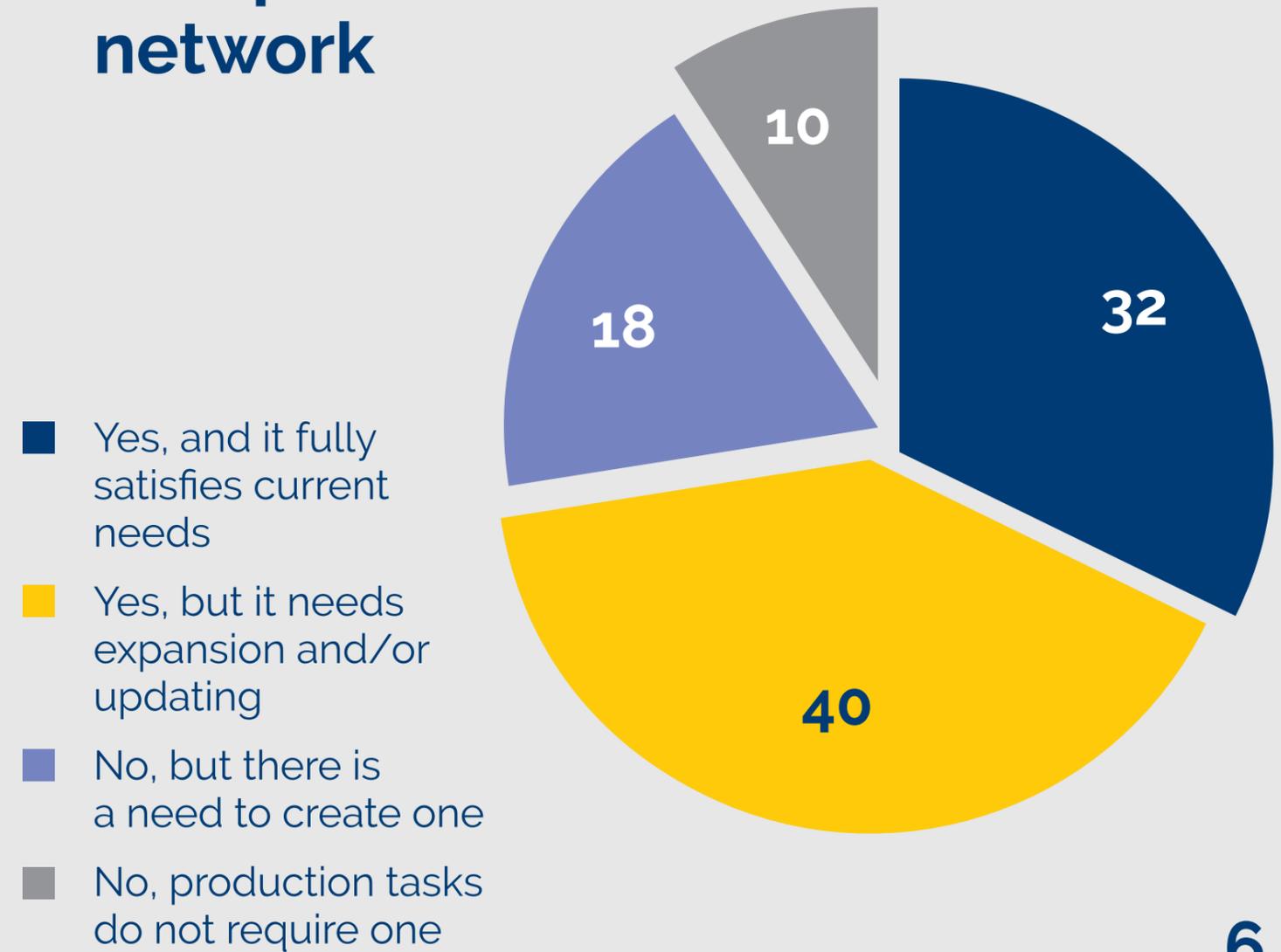
The IT Solutions Centre aims to

- Boost the capability of local governance through the use of up-to-date approaches and tools of e-government

- Develop terms of reference for the implementation of new software in communities in order to move to digital interaction between the structural units of councils and starosta districts, the authorities and the public

- Guide e-programmes at the local level

- Provide services for interactive distance learning, advanced training, retraining etc.

- Arrange events on digital education of the public

- Expand cooperation between universities that train IT specialists with governmental and local authorities, partner institutions and organisations

- Introduce an effective mechanism for knowledge exchange between governmental and local authorities, the public, the media and the Centre.

The objectives of the Centre

Main

→ Interaction between community representatives and regional educational and scientific institutions for the implementation of IT programmes;

→ Develop "IT-community profile" based on its own hardware;

→ Provide technical, methodological and organisational support to communities for IT development;

→ Create a personal educational environment and implement educational programmes for community professionals on the issues relevant to their duties.

Additional

→ Implement regional educational programmes to promote and raise public awareness in the field of "IT;

→ Introduce educational IT programmes for children and youth, promote web security;

→ Facilitate the introduction of IT technologies in the activities of secondary education institutions.

8

The IT Solutions Centre is equipped with modern technical equipment
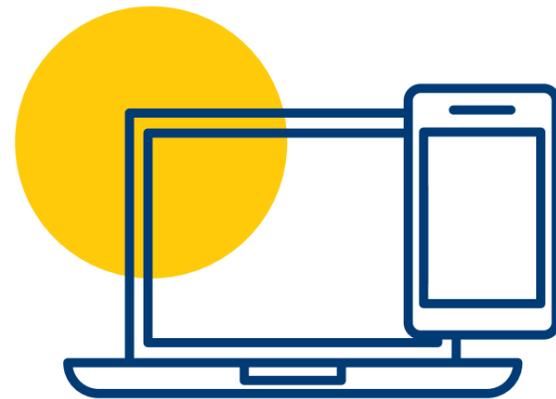
- PCs, monitors, webcams, headset, UPS, kits (keyboard, mouse) for 15 workplaces
- Server
- Networked storage, switch, access point, routers, cable organiser, switch cabinet, patch panel
- MFP, printer, scanner, graphics tablet
- Interactive whiteboard

- Multimedia projector
- Motorised projector screen
- Flipchart
- Laptop
- Surveillance camera
- Speaker system
- Radio system with microphones.

9

Priority challenges for communities

Remake the Development Strategies and Programmes of communities in Donetsk Oblast to include the issues of regional IT development;

Improve community web resources and unify the software and data formats involved;

Increase the level of community residents IT awareness;

Deepen the communication of local self-government bodies with scientific and educational institutions of the region;

Resolve the issue of the lack of IT specialists for the implementation of informatisation programmes in the region.

We want to engage

- Local governments

- State enterprises and institutions

- Educational institutions

- Health care institutions

- Law enforcement governmental agencies

- Individuals and legal entities (on a contractual basis), university students and postgraduates.
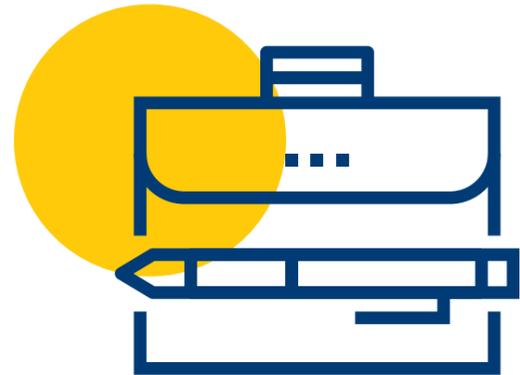
Upon completion of the training, a certificate of advanced training will be issued (for classes of 30, 60, 90 hours).

Long-term training can be arranged (3–6 months, 1–1.5–2–2.5 years).

We plan to organise training courses depending on the participants' level of competence and needs (basic, advanced and special courses), **or for a specific target audience.**

We suggest the following courses

- Architecture of computer systems and information networks
- Office software
- Web design and web programming
- Database design and implementation
- Programming languages
- Information security in computer systems
- Computer graphics and video processing
- Decision support systems
- Mathematical software packages

- Programming mobile devices
- Application of artificial intelligence methods
- Fundamentals of Data Science and artificial intelligence theories
- Fundamentals of virtual and augmented reality
- 3D printing
- CAD/CAM/CAE systems
- Diagnosis of technical systems
- Modelling of dynamic systems
- Programming of microcontrollers and microprocessor systems

When organising the courses, the IT Solutions Centre will use modern educational technologies and a flexible approach in the developing of topics and scope of training, which will take into account the needs of students to the fullest extent.

STEM is not just technical education. It covers a much broader concept, a successful combination of creativity and technical knowledge

Educational eco-system

Universities

Digital Competence Centres

Postgraduate Education Centres

Cybersecurity measures

Promotion of IT training

SMART projects

Qualification of

Competence Centres, support

Schools

Vocational education institutions

Regulation, involvement, administration

Donetsk Oblast State Administration

Administration of territorial communities

Ministry of Education and Science
Ministry of Digital Transformation
Ministry for Reintegration of Temporarily Occupied Territories

Developing programmes, methodical support, maintenance of Competence Centres, developing cybersecurity competences

Cases, tasks, challenges

STEM training

Management

Harmonisation

Mission, goals, activities

IT Solutions Education Centre

Support

International organisations

Creating awareness, support

Problems, challenges, needs

Sustainable Development Goals of Ukraine

Development strategy for Donetsk Oblast until 2027

Socio-ecodevelopmentnomic programme

Institutions staff

13

[Thank you!]