IT Solutions Centre

New concept on informatisation
of territorial communities in Luhansk Oblast

vseosvita.ua

Viktor Mykhaylovych Hlushkov,
Doctor of Physical and Mathematical
Sciences, Professor, Founder and
the first Director of the Institute
of Cybernetics of the National
Academy of Sciences of Ukraine

➜ When all information systems merge into a single system, it would work with the participation of a person and in the name of a person

Why is improving IT processes in territorial communities relevant?

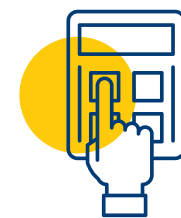Global trends towards informatisation of all social processes;

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 Luhansk 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.

The results of the study

The structure and staffing of key employees, who have mainly higher education and appropriate age for the widespread use of IT,

DO NOT REQUIRE IMMEDIATE REFORM

The hardware and software used by territorial communities to implement their activities meets the needs and for today

DOES NOT REQUIRE SIGNIFICANT MODERNISATION

Priority challenges for communities

Remake the Development Strategies and Programmes of communities in Luhansk Oblast to include the issues of regional IT development;
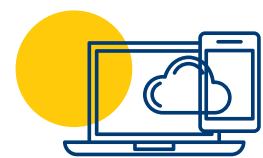
Improve community web resources and unify the software and data formats involved;

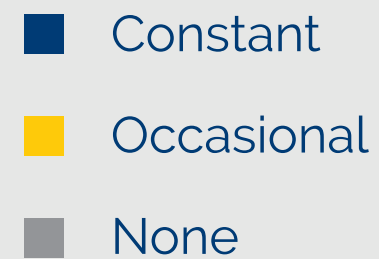Increase the level of community residents IT awareness;
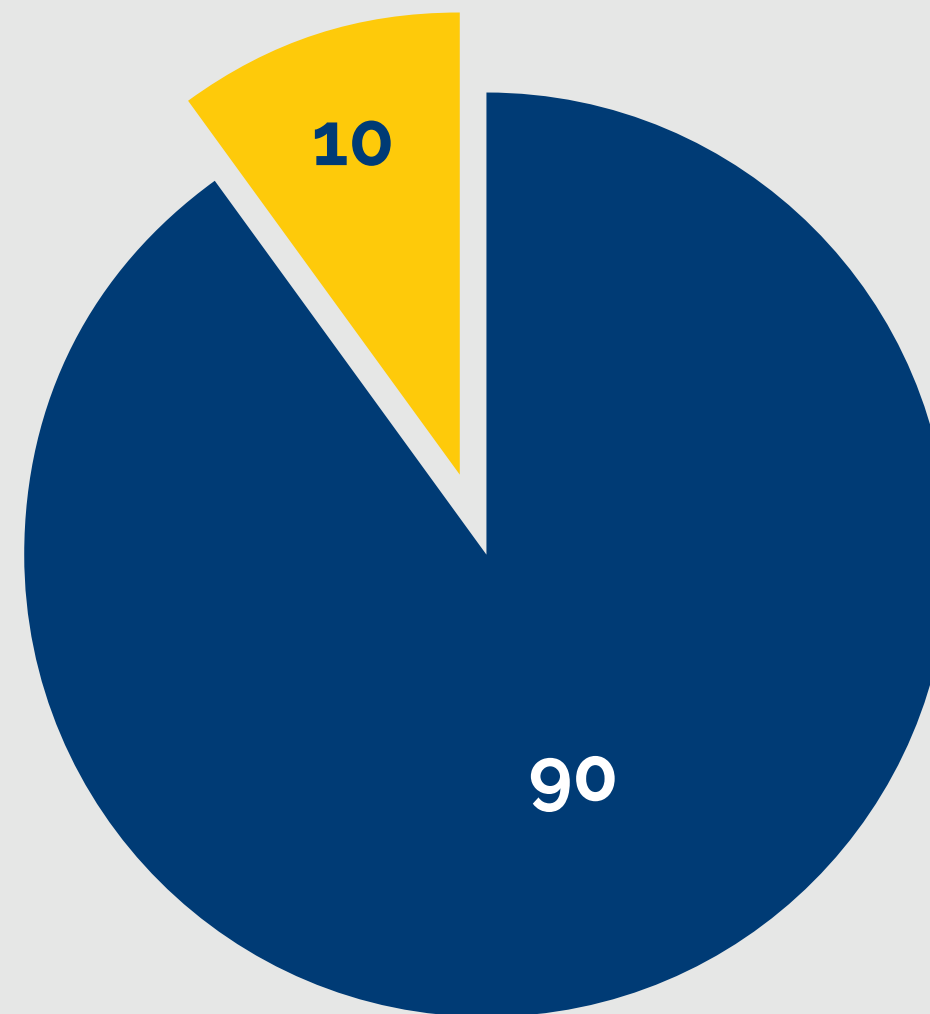
Deepen the communication of local self-government bodies with scientific and educational institutions of the region;

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

Need for using information technology

Community administrators

- ■ Constant
- ■ Occasional
- ■ None

Community workers

10

90

11

1

88
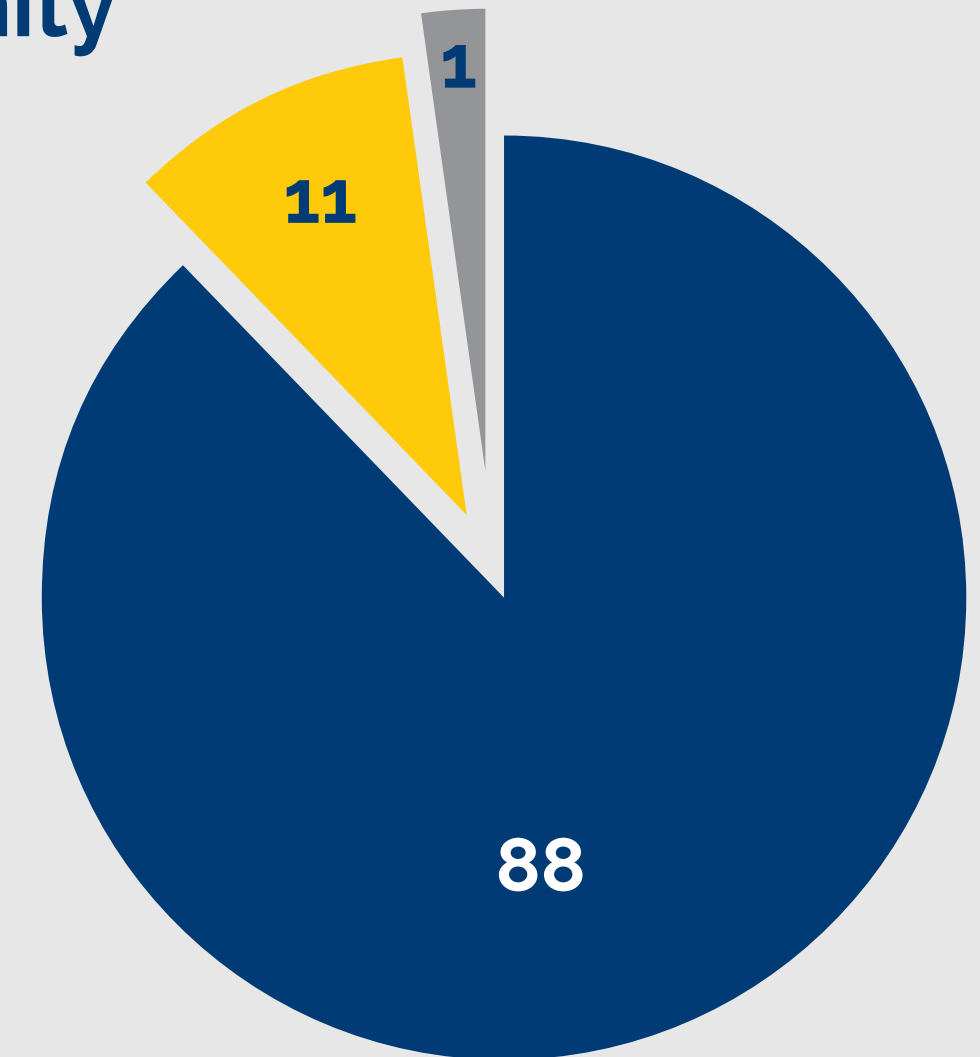
Employees' attitude to IT development

Interest

- 28 (No)
- 63 (Yes)
- 9 (Other)

Availability of conditions for development

- 45 (No)
- 55 (Yes)

Availability of incentives in the field of IT development

- 87 (No)
- 7 (Yes)
- 7 (Other)
- 8

Legend:
- No
- Yes
- Other
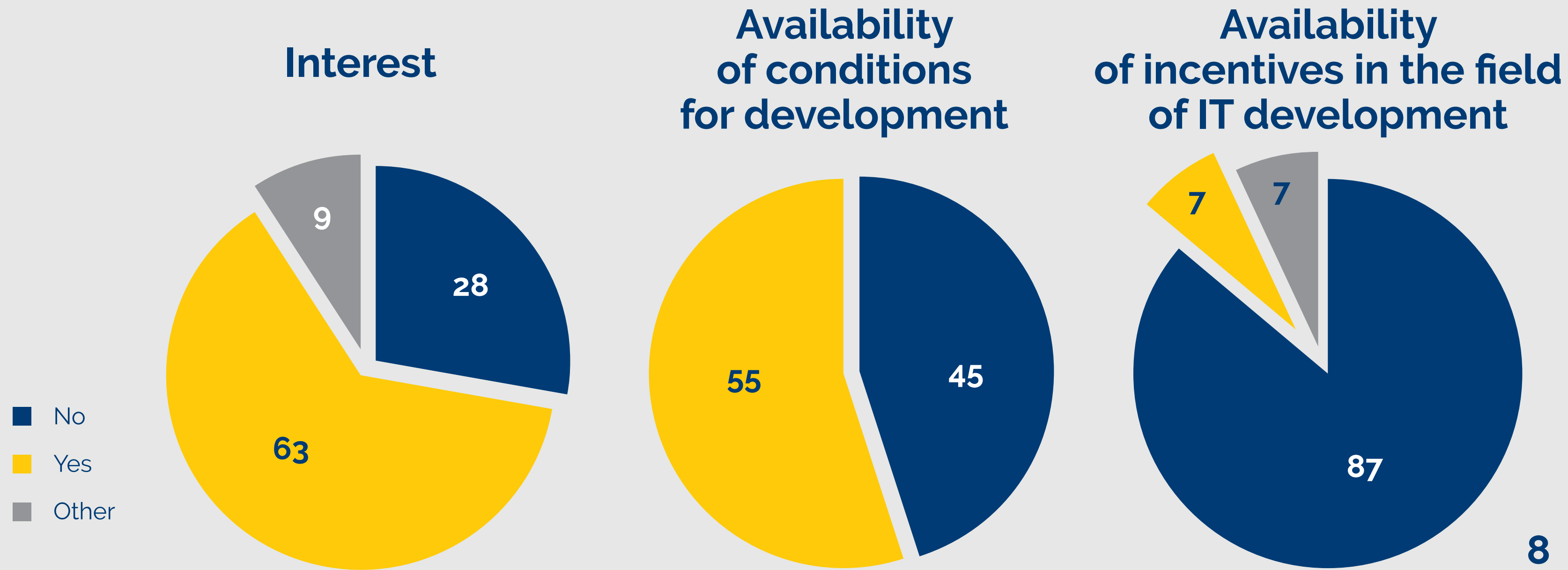
IT training according to the qualification requirements passed

- No
- Yes
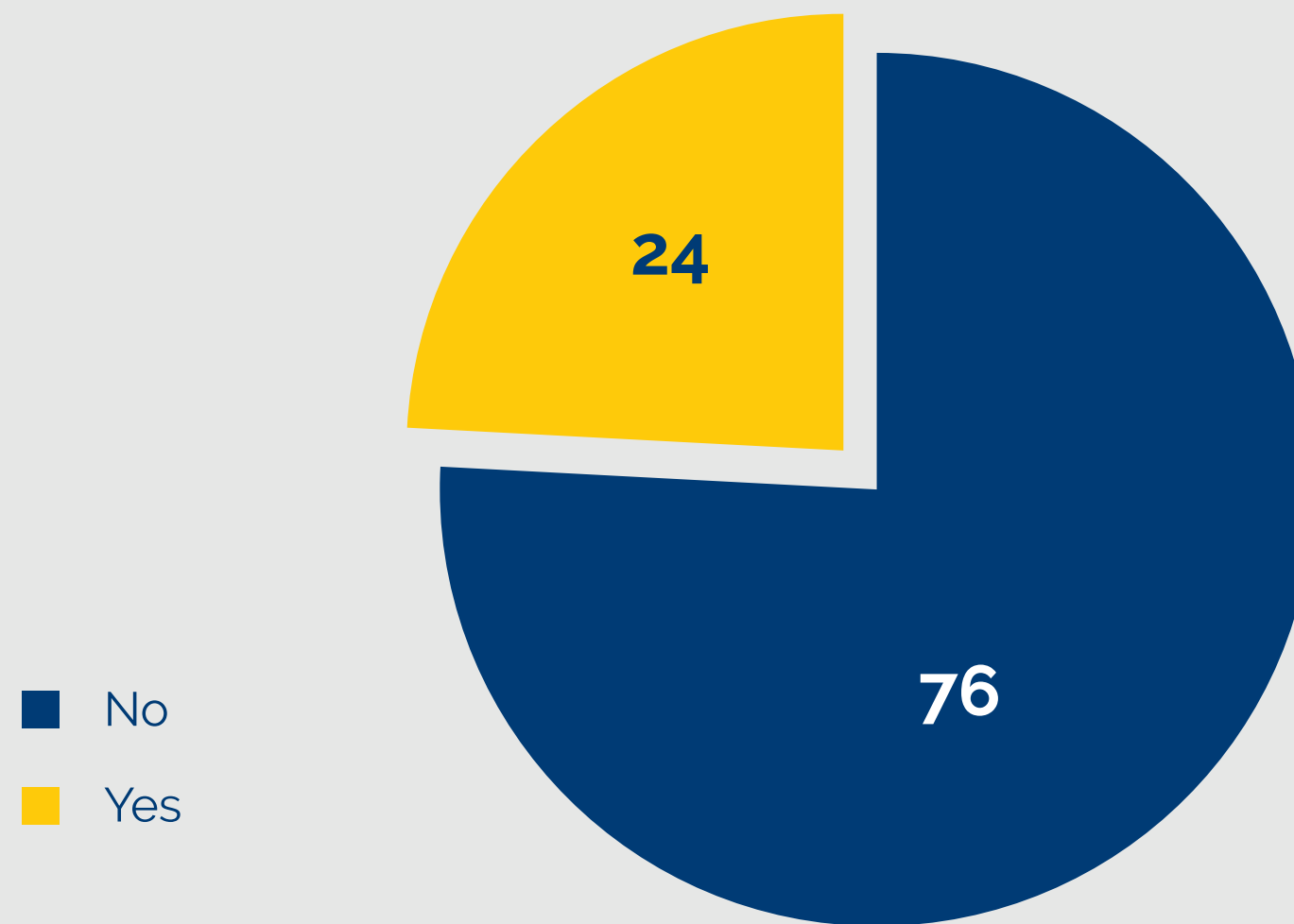
The objectives of the Centre

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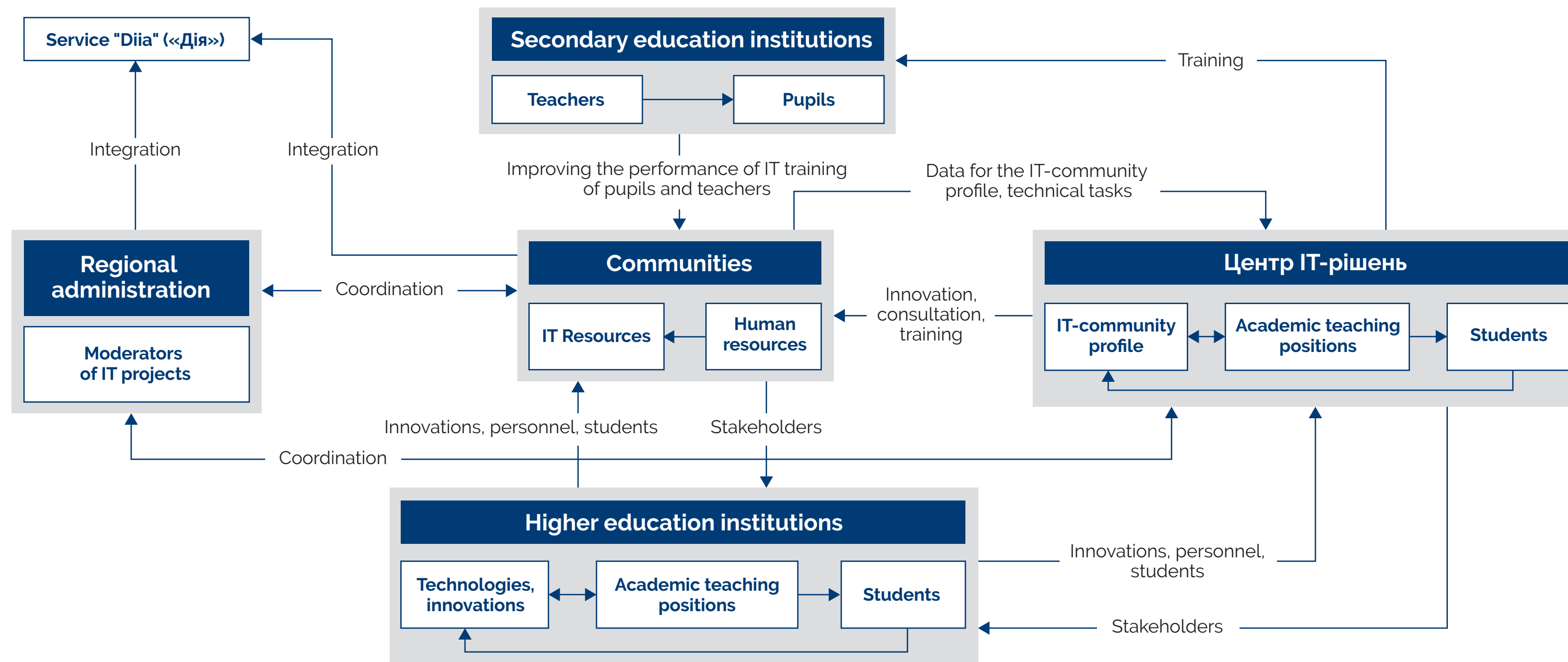
→ Provide technical, methodological and organisational support to communities for IT development;

→ 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.

Vision of the IT Solutions Centre

Service "Diia" («Дія»)

Secondary education institutions

Teachers → Pupils

Training

Integration

Integration

Improving the performance of IT training of pupils and teachers

Data for the IT-community profile, technical tasks

Regional administration

Moderators of IT projects

Coordination

Communities

IT Resources ← Human resources

Innovation, consultation, training

Центр IT-рішень

IT-community profile ↔ Academic teaching positions → Students

Innovations, personnel, students

Stakeholders

Coordination

Higher education institutions

Technologies, innovations ↔ Academic teaching positions → Students

Innovations, personnel, students

Stakeholders

What has been done

- At Volodymyr Dahl East Ukrainian National University, an educational programme on **Information systems and technologies** (master's degree), the focus of which considers regional IT needs, was Introduced.

- A prototype of the "IT-community profile" platform was created.

- A cloud service prototype was created and can be used as SaaS (Software as a Service) or PaaS (Platform as a Service).

- A platform of personal educational environment of the IT Solutions Centre with 24/7 access was developed.

- The methodology of using IT in secondary education institutions, based on the Lysychansk Multidisciplinary Gymnasium and the Luhansk Regional Small Academy of Sciences for youth was developed.

- The Concept and Programme for the Informatisation of Territorial Communities of Luhansk Oblast were presented.

Useful links

Materials of the study
of the state and prospects
of development of IT
in Luhansk Oblast

Project of the Concept
on informatisation
of communities
in Luhansk Oblast

Project of the Programme
of informatisation
of communities
in Luhansk Oblast

[Thank you!]