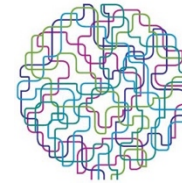# *Institute of Cybernetics*
NAS of Ukraine
Andrii Malenko
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This presentation is for

☐ **Workshop 1** Big Data

Description of the Organization

- Glushkov Institute of Cybernetics (GIC) of National Academy of Sciences of Ukraine (NASU) is a widely known in Ukraine and abroad scientific center for solution of fundamental and applied problems in computer science and engineering.

- GIC is a developer of the fastest Ukrainian supercomputer SCIT-4 and one of the mainframes of Ukrainian GRID supercomputing network which takes part in European Grid Infrastructure projects.
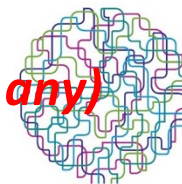
Description of the your research interest

- Department staff consists of 33 employees (researchers and software developers) and PhD students. 14 team members have PhD degree.

- The team has designed and developed a number of parallel, distributed data processing and computational applications, desktop, web, real-time software, hardware complexes and ready-to-use systems.

- Research interests and activities include: HPC, distributed computing, grids, clouds; microelectronics, smart homes, IoT; 3D seismic waves algorithms and software, geophysics; 3D scanning of objects from the real world.

- Objectives:
  - to make digital copies of real world
  - to make cloud storage of 3D models ready for CNC and 3D printing
  - to recreate lost or damaged cultural heritage
- Expected results
  - cloud storage of 3D models
  - virtual museums
  - restored historical buildings, squares and places
- In progress / done
  - cooperation with smart city initiatives, archaeologists
  - restoration of number of buildings in Ukraine
  - Chornobyl, Tustan' fortress, Shevchenko Gai museum, Poshtova Ploshcha etc.
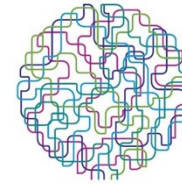
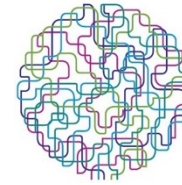# Consortium - profile of known partners *(if any)*

No	Partner Name	Type	Country	Role in the Project
01	Odessa State Academy of Civil Engineering and Architecture	University	Ukraine	Trainings for architects
02	CNCLab	SME	Ukraine	Production of large 3D printers
03	Kyiv Smart City Hub	Association/ Government	Ukraine	Dissemination, promotion
04	Museum of Folk Architecture and Rural Life, Lviv	RTD	Ukraine	Host of historical data
05	Odessa Archeological Museum	RTD	Ukraine	Host of historical data

Consortium - required partners

No	Expertise	Type	Country	Role in the project
01	Paperwork consulting	Consulting	Any	Partner
02	Dissemination, promotion in Europe	Consulting, Agency	Any	Partner
03	Project Coordinator	Any	Any	Coordinator
04				
05				
06				
07				
08				

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