DEVELOPMENT GEOINFORMATION SYSTEMS AND THEIR APPLICATIONS FOR e-HEALTH

GIShealth Project (Ukraine, Institute for Applied System Analysis, O.MAKARENKO)
Increasing application of recent informational technologies requires applications the new tools for sensing, monitoring, analyzing and visualizing of health data.

Accounting distributed character of health and medical information and distributed character of decision – making new tools for data processing and supporting decision – making are necessary. GIS (geoinformational systems) are such tools.
EXAMPLES OF MAPS IN GIS

• 1. World scale
• 2. Trans-regional scale
• 3. State scale
• 4. Regional scale

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And also local: city; district of city; infrastructure of organization (for example hospital; building etc)
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Ukraine, Institute for Applied System Analysis, O. MAKARENKO
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EngName: L'viv
KOATUU: 4610100000

DistrictKOATUU: 4610100000
CodeTopo: 41100000
NN_2001: 732 818
NNU_2001: 732 818
NRR_2001: 0
PN_2001: 725 202
PNm_2001: 341 779
PNI_2001: 383 423
PNU_2001: 725 202
PNUm_2001: 341 779
PNUw_2001: 383 423

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So in proposed project the development of specific GIS of transregional, regional, international levels are proposed.

At the first stage of the project the formulation of common goals, requirements, standards, structure of GIS, devises, sensors, etc. should be the topics of investigations (1 year).

Necessary to agree set of data, choose base maps, qualifiers, base layer of information (for example amount of the population, urban population, rural population, men, women, age composition of the population) protocols of the exchange, ...
The second stage may constitute the building the prototype of working systems development (2 years).

Necessary to provide possibility of the collective work with data. May be necessary to use Windows SharePoint Services for Team Sites. This technology allow to build framework for building collaborative Web sites that makes it possible for a company to share information and documents across organizations easily and reliably. All information must have geographic connection.
The third state may constitute the development of working system (3 years).

Institute for Applied System Analyses and collaborative organizations has as experience in GIS development as collection of many data bases including post-Chernobyl in Ukraine and Europe

Presumable partners: ASKLEPIOS, ATIVBIS, EMISPHERE, RISER, Infoservise, Medicological estimation of level of iodine deficiency disaster Center, Intelligence Systems Geo ...