

# ICA Commission on GI for Sustainability

<http://SusGIS.net>

## Report, 2016

The number of the Commission members - 23 persons from 19 countries.

### *Activities:*

1. The activities of the Commission was to organize an annual conference :

**InterCarto/InterGIS-22** « GI support of sustainable development of territories in conditions of global climate change»: August, 31-September, 14, 2016.

It was attended by 153 participants from Australia, Austria, Check Republic, Germany, Greece, Finland, Indonesia, Kazakstan, New Zealand, Russia, South Africa, USA. The number of papers presented during the conference amounted to 82.

The conference outcomes are summarized as follows:

- GIS and cartographic support for the environmental, economic and social dimensions of sustainable development
- Ensuring sustainable development of “cities of science” (Naukograds) and priority development areas
- Mobile geographic information systems
- Virtual geographical environment
- New technologies of spatial-temporal visualization
- Geoinformatics and public participation in the protection of environment and risk management
- Spatial data infrastructure
- Standards, interoperability and open access
- Geoinformation assistance for preservation of cultural and natural heritage
- Geoinformation assistance of climate researches
- Ecological and sustainable tourism
- Urban ecology and planning
- Problems of education

### Seminars and Round Tables

- Pan-Eurasian Experiment Program (PEEX) and Sustainable Development
- Sustainable development of Russian “cities of science” (Naukograds)

Information about the conference in Russian - <https://youtu.be/fcZl43DsVjM?t=2m40s>

Next conference will be held in Yuzhno-Sakhalinsk, Russia (June 26-28, 2017), Seoul, Republic of Korea, (July 1, 2017) and Washington, Anchorage, USA (July 7-10, 2017) – see attachment.

2. **Organization of schools of young scientists (Educational and Training Workshops for students)** . Previously, these schools were carried out in Sevastopol (Ukraine), Istanbul (Turkey), Urumqi (China 5 times), or by boat on the Volga (Perm, Kazan, Saratov, Astrakhan, Volgograd, Samara) and Barnaul (2 times). Next Workshop was held in July 2014 in the city of Kigali (Rwanda) - trainees from 10 different government organizations and higher education institutions. Such as Ministry of Education of Rwanda, Rwanda Natural Resources, total 53 trainees attended and got certificates. The last year schools was held in June-July 2015 in FYR Nacedonia, Kosovo, Albania and Greece and in November 2015 in Krasnodar (Russia). The schools in 2016 was held in April in St.-Peterburg and Novosibirsk (Russia).

3. **Workshop on Service-Oriented Mapping**

The Commission cooperated with the ICA Commission on Map Production and Geoinformation Management in a workshop on Service Oriented Mapping held on June 13th 2016 at the Hasso Plattner Institute at the University of Potsdam (Germany), see <http://mapproduction.icaci.org/>

3. **RIMMA2016** – Risk Information Management, Models and Applications  
The commission is continuous partner in the RIMMA series of international interdisciplinary workshops.

The 2016 event was mainly characterized by the demands that the UN Framework for Risk Reduction 2015-2030 – UN SENDAI Framework – formulates for adequate science, technology, data and cartography/geoinformation research and development.

The RIMMA workshop series is a close cooperation with CODATA-Germany, the German National Committee for the ICSU Committee on Data for Science and Technology.

Furthermore, these activities of the commission are not only relevant to topics in UN ISDR but also for UN SDGs (Sustainable Development Goals) and UN Habitat lines of action.

Summary of cartographic and geoinformation aspects from RIMMA2016 presentations and plenary discussions:

1. Natural, Technical, Chemical Risks From Local To International Level

2. Risk Databases, Risk Information Interoperability, Standards Development
  3. Disaster Management And Emergency Preparedness, Prevention, Alert, Response And Mitigation
  4. Health and Biological Risks Issues for Humans, and The Environment
  5. Urban Neighborhood Risk Information And Mapping
  6. Risk Information Processes Modelling And Applications, Services And Service Composition
  7. Collection, Documentation, Archiving, And Open Access to Risk and Disaster Information (including issues of completeness, missing data etc.)
  8. Risk Communication (decisionmaking, actors, public awareness etc.)
  9. Social Media, Volunteered Information
  10. User-Group Specific Risk Management Issues
  11. Metadata, Semantic Networks, Semiotic Networks
  12. Thresholds
  13. Data Quality
  14. Scalability
  15. Big Data / Data Streams Analysis
  16. Risk And Multi-Risk Cartographic / Visualization Issues
  17. Cross-Organization Information Management
  18. Complexity Management Issues
5. **A book on GI for Sustainability** - The first 3 chapters of the book are written by experts from Russia and Australia.

The commission publishes its organizational details and calls for events participation on its homepage <http://SusGIS.net>

6. **Plans** for 2017
  - Next conference will be held in Yuzhno-Sakhalinsk, Russia (June 26-28, 2017), Seoul, Republic of Korea, (July 1, 2017) and Washington, Anchorage, USA (July 7-10, 2017).
  - Commission meeting in conjunction with ICC2017.
  - Preparing several chapters for the book on GI for Sustainability
7. Financial contribution from the ICA - \$US 700 for correction English of the manuscript "GI for Sustainability".

Contact Chair V.S. Tikunov [tikunov@geogr.msu.su](mailto:tikunov@geogr.msu.su)  
 Vice Chair H. Kremers [office@Horst-Kremers.de](mailto:office@Horst-Kremers.de)