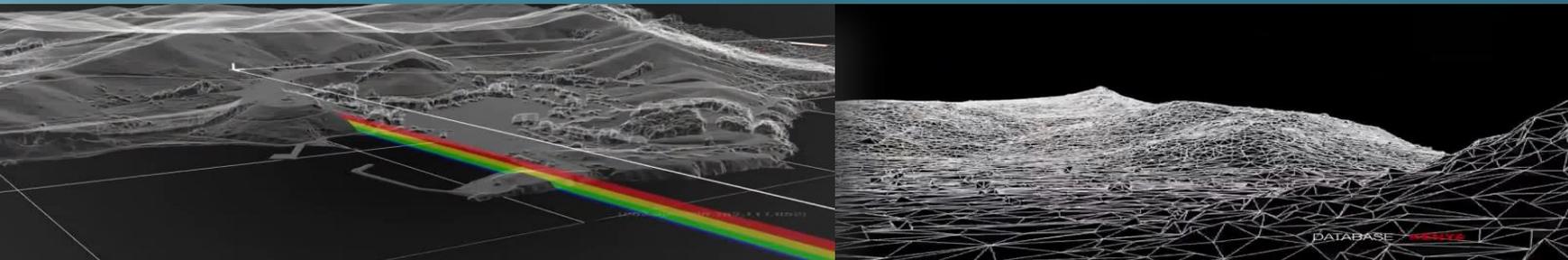# «Interexpo GEO-Siberia – 2015»

SSUGT
SIBERIAN STATE
UNIVERSITY OF GEOSYSTEMS
AND TECHNOLOGIES

Novosibirsk, 20-22 April 2015

Some Statistics

*Professor Alexander Karpik*

Dr. Igor Musikhin

СГУГиТ
Сибирский государственный
университет геосистем и технологий

FIG

1. GNSS. Precise positioning, applications, infrastructure of spatial data, multi-sensor systems.

2. Applied geodesy, standards, instruments and technologies.

3. Professional education, retraining.

4. Geodetic methods in studying climatic changes.

5. Hydrography, planning, environment, water resources management.

6. Monitoring of deformations, geodynamics.

7. Carrying out geodetic surveys with the use of UAVs and remote sensing data.

8. Systems of coordinates.

9. Algorithms of acquisition and processing of geospatial data.

10. Gravity, geoid, measurement of heights.

11. Web GIS, GIS algorithms and technologies, maps and new trends in cartographical production.

12. Laser scanning (technologies and applications), 3D modelling, remote sensing, creation of information models (BIM).

13. 3D and 4D cadastre, reforms, systems, innovation, management, taxation.

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Percentage of publications on the subject of the allocated topics (FIG materials 2012-2014)
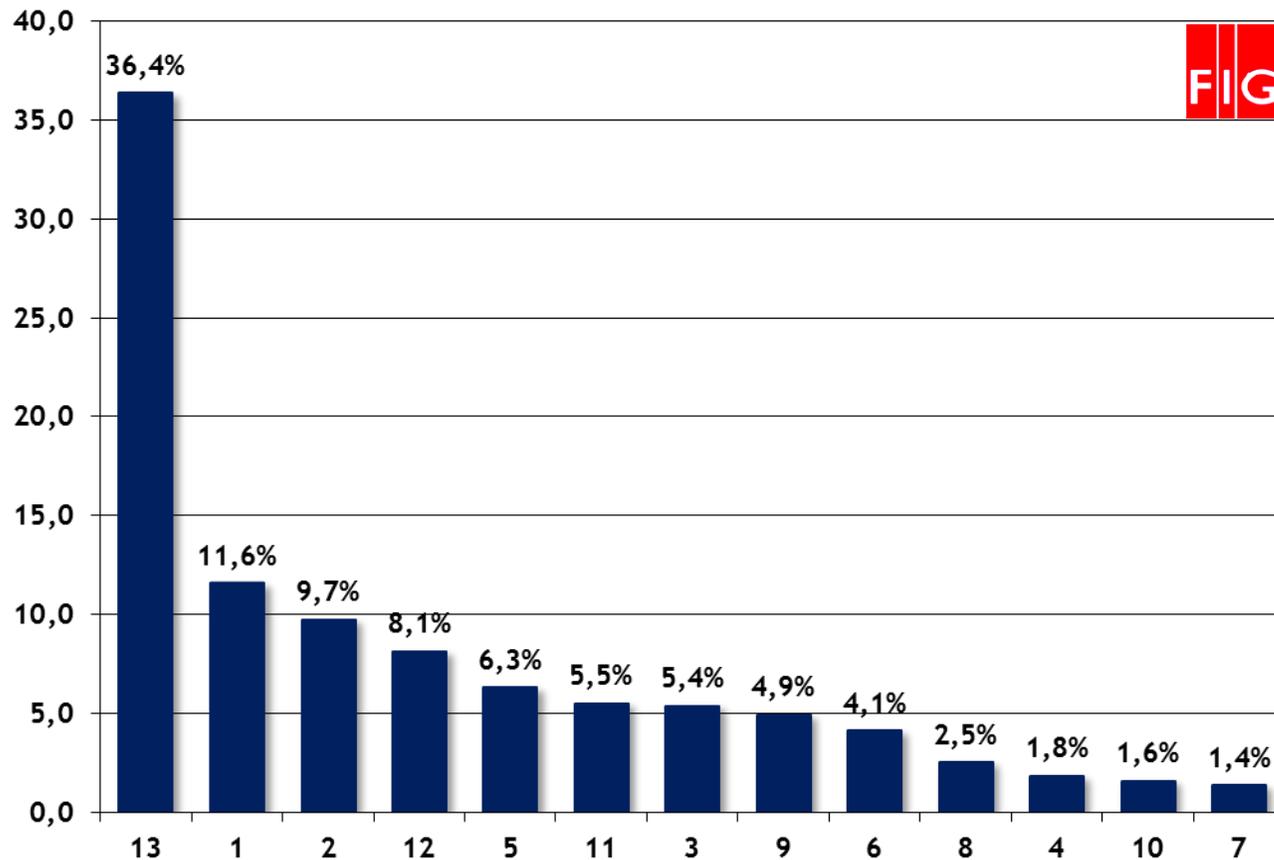
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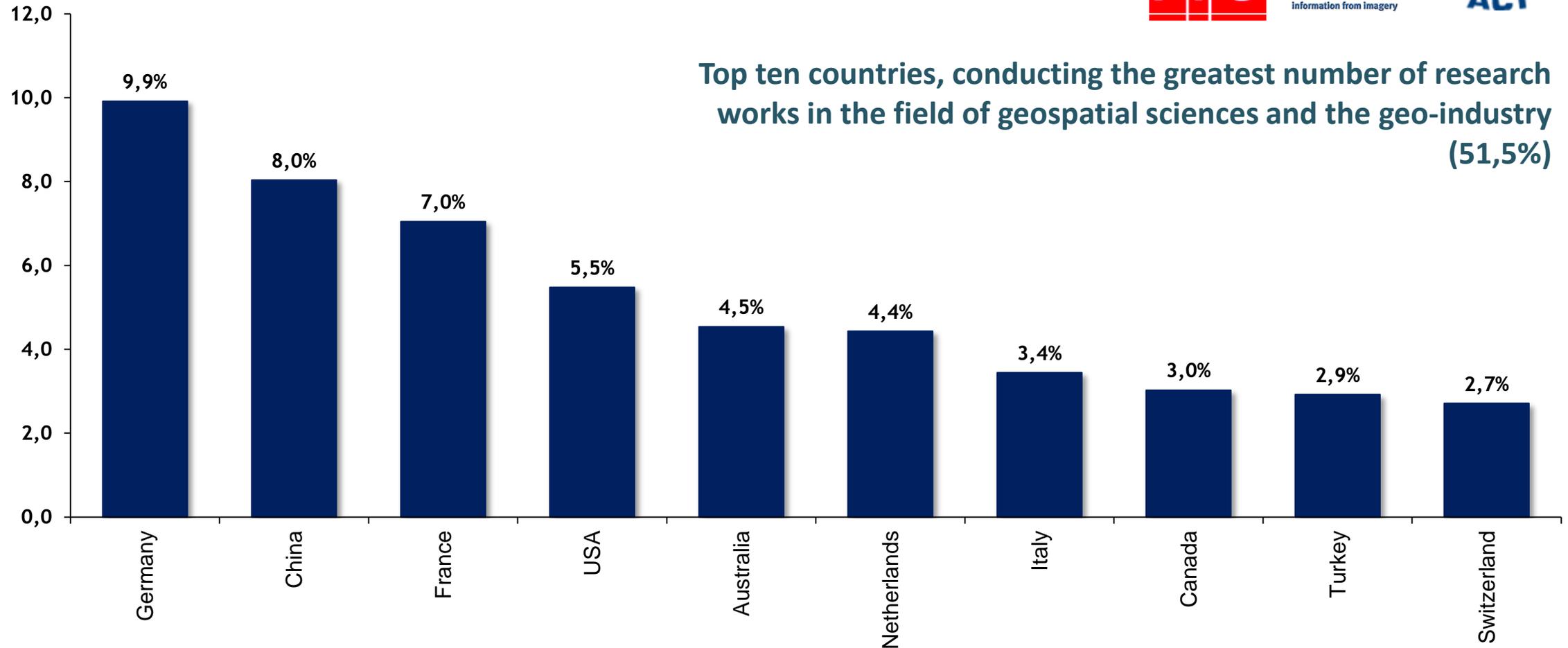**5** Hydrography, planning, environment, water resources management.

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4

Perspective Fields of Development (FIG, ISPRS, ICA)

1. Further development of GIS / web-GIS applications;

2. Development of GNSS, integration of different GNSS;

3. Wide use of crowdsourcing and open software opportunities for data processing;

4. Considerable changes in traditional approaches used in geodesy (geodetic survey), use of multi sensor systems, remote sensing data, UAV, on-line exchange and data processing;

5. Automation of geodetic measurement processing;

6. Development of general methodology, technics and applications for cadastral surveys and activities;

7. Emergence of specialized centres.

Most Active R&D Countries (FIG, ISPRS, ICA)

Top ten countries, conducting the greatest number of research works in the field of geospatial sciences and the geo-industry (51,5%)

Thank You

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