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CASCADOSS

Development of a trans-national cascade training programme on
Open Source GIS&RS Software for environmental applications

SPECIFIC SUPPORT ACTION

PRIORITY 1.2.4.2.2: IDENTIFICATION OF NEW METHODS OF PROMOTING AND
ENCOURAGING TRANSNATIONAL TECHNOLOGY TRANSFER

DELIVERABLE 4.5

Report on evaluation of the International Information Workshop

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Preface

International Information Workshop was conducted in the frame of the second phase of the CASCADOSS Project. It was combined with International Symposium (on 16th June) and held from 17th to 19th June 2008. The idea of the Workshop was to bring together both professional developers and (potential) customers of Open Source technology and stimulate research & innovation and networking in this field. The target group of the International Information Workshop were:

members of organizations dealing with geo-information (GI);

scientists;

small- and medium entrepreneurs;

representatives of regional self-government authorities;

staff of institutions involved in implementation of the GMES Programme, including representatives of national GMES offices;

staff of National Mapping Authorities (NMAs);

members of the Open-Source community

The main purpose of the International Symposium was to present results accomplished by the CASCADOSS Project – results of the evaluation of available GIS&RS OSS solutions, and to demonstrate the most promising and useful applications.

The following subject had been also discussed:

How can open-source software foster use of GI technologies (particularly with respect to the GMES Programme) in the public sector?

How do existing GI standards contribute to the development of open-source applications?

What are the current trends in this area?

How can GIS&RS services benefit from open source solutions and stimulate development of business-related GIS&RS applications?

During the Workshop it has been also introduced various business models / added value services that can be implemented on OSS.

For the both events it was registered 105 people, 91 participated in Symposium and the during a Workshop a number of the participants has changed (ca 20 person less were present on 3rd day of the Workshop).

The Workshop Agenda was divided into 3 days as follows:

	Day 1 (June 17th) – room 406 (The ONZ Aula) and 402 Conference Centre PWSBiA,9 Bobrowiecka Str., Warsaw	SPEAKERS
09.45	Welcome coffee	
	morning session	
	Approaching Free and Open Source Software for Geomatics – Working Groups orientation	Moderator: Marek Baranowski, UNEP/GRID-Warsaw
10.00	<i>Introduction to Workshop Day one</i>	Marek Baranowski, UNEP/GRID-Warsaw
10.20	<i>GMES Organization in EU Member States</i>	Jakub Ryzenko, Polish Space Office, Ondrej Mirovsky, GMES Coordinator, Czech Space Office
10.50	<i>Governmental support for implementation of the GIS&RS OSS solutions in public sector (e-Government)</i>	Grzegorz Myrda, WOGIS Group Lieven Raes, Begian Vlanders' Government
11.30	Coffee break	
11.45	<i>The HUMBOLDT Handbook of Standards and User Groups Classification</i>	Thorsten Reitz, HUMBOLDT Project
12.15	<i>Stimulating and building community of FOSS4G Trends in development of FOSS4G</i>	Markus Neteler, OSGeo Foundation (GRASS) Mateusz Łoskot, OSGeo Foundation
12.45	<i>Business examples of implementation and/or adoption of the FOSS4G – success stories (obstacles, challenges)</i>	Karel Maesen, GEOVISE
13.20	Lunch	
	afternoon session	Moderator: The CASCCADOSS Team and Keynote Speakers
14.30	<i>Activities in Working Groups (WG) with assistance of Keynote Speakers and the Cascadoss Team</i>	Discussion on problems and questions defined during the morning session

	<i>WG 1 – FOSS4G and GI technology,</i>	Mateusz Łoskot, OSGeo Foundation, Markus Neteler, OSGeo Foundation (GRASS)
	<i>WG 2 – FOSS4G solutions in business and commercial activities,</i>	Karel Maesen, GEOVISE
	<i>WG 3 – FOSS4G approaches to e-government and public service</i>	Lieven Raes, Begian Vlanders' Government, Thorsten Reitz, HUMBOLDT Project Grzegorz Myrda, WOGIS Group
	<i>WG 4 – FOSS4G solutions in GMES Programme implementation</i>	Jakub Ryzenko, Polish Space Office, Ondrej Mirovsky, GMES Coordinator, Czech Space Office
16.00	<i>Presentation of the results by each Working Group</i>	
17.00	Closing remarks	

	Day 2 (June 18th) – computer lab. C-3, room 402 (with own notebooks)	
09.15	Welcome coffee	
	morning session	<i>Moderator: Compet-Terra, SADL</i>
	Evaluating FOSS4G – working session on evaluation results	
09.30	<i>Introduction to the methodology</i>	SADL
	<i>Instructions to exercises</i>	SADL
10.00	<i>Introduction to Live DVD</i>	Compet-Terra
10.30	<i>Evaluation exercises with Live DVD for following thematic groups:</i> <i>GIS&RS Desktop Applications,</i> <i>GIS&RS Development Libraries,</i> <i>Server Applications</i> <i>GIS&RS Data Management Systems</i>	SADL, Compet-Terra, GISAT

	<i>Other GIS&RS OS tools</i>	
11.30	Coffee break	
11.45	<p><i>Evaluation exercises with Live DVD for following thematic groups:</i></p> <p><i>GIS&RS Desktop Applications,</i></p> <p><i>GIS&RS Development Libraries,</i></p> <p><i>Server Applications</i></p> <p><i>GIS&RS Data Management Systems</i></p> <p><i>Other GIS&RS OS tools</i></p>	SADL, Compet-Terra, GISAT
13.00	Lunch	
14.00	<i>Presentation of the results by each group. Discussion</i>	
	afternoon session	<i>Moderator: Compet-Terra, SDAL</i>
	Case studies presentation (1) – max. 15 minutes each, 5 minutes for questions and discussion	
15.00	<i>OSGeo Foundation Activities</i>	Mateusz Łoskot, Markus Neteler
15.20	<i>GeGIS (generic open source GIS system) as a basis for GIS solutions in the Flanders region</i>	Lieven Raes
15.40	<i>Metadatabase of cartographic resources of the Lublin voivodeship</i>	Przemysław Bojczuk
16.00	Closing remarks	
19.30	<i>Social Programme</i>	

	Day 3 (June 19th) – computer lab. C-3	
09.00	Welcome coffee	
	morning session	<i>Moderator: UNEP/GRID-Warsaw, GISAT</i>
	Environmental applications working session	
	Case studies presentation (2): GIS&RS OSS for Environmental Applications – max. 15 minutes each, 5 minutes for a questions	<i>Participants:</i>

09.15	<i>Grasslands remote sensing using proprietary ERDAS or free ILWIS,</i>	Krzysztof Kosiński
09.35	<i>To close, or not to close – open GIS dilemma based on the example of KML</i>	Jan Burdziej
09.55	<i>GeoDiscussion Panel</i>	Monika Rusztecka
10.15	<i>GIS Open sources on Water Management in Developing Countries</i>	Cesar Carmona-Moreno
10.35	<i>Free and FOSS approach to digital terrain analysis</i>	Michał Rzeszewski
10.55	<i>The OSSIM Project</i>	Mateusz Łoskot
11.00	Coffee break	
11.25	<i>Hands-on session – examples of use of GIS OSS for environmental applications with Live DVD and the Workshop DVD (1)</i>	UNEP/GRID-Warsaw
13.00	Lunch	
14.00	<i>Hands-on session – examples of use of Remote Sensing OSS for environmental applications with Live DVD and the Workshop DVD (2)</i>	GISAT
14.45	Best Presentation Award	<i>Award for the best presentation of the case study given by participants</i>
15.00	Conclusion of the Workshop	

Working Groups Discussion

Day one was dedicated to conduct discussion among the participants on various aspects of the use of FOSS4G solutions. In order to strengthen and facilitate the proceedings and to make them more effective, the participants had been divided into four working groups based on their professional field and area of responsibility (institution in which they work, etc.). Consequently there have been 4 working groups:

- **WG1: FOSS4G and GI technology** – for GI community, scientist and GIS practitioners;
- **WG2: FOSS4G solutions in business and commercial activities** – for the representatives of SMEs and other companies and commercial entities;

- **WG3: FOSS4G approaches to e-government and public services** – for representatives of public administration, both at the central government and self-government level;
- **WG4: FOSS4G solutions in GMES Programme implementation** – for representatives of GMES units, national space offices etc).

Discussion covered following issues:

Working Group	Issues and questions to be covered by this Working Group
FOSS4G and GI technology	<p>Commercial GI solutions versus FOSS4G: what to choose and why (a little SWOT analysis)?</p> <p>FOSS4G as a tool in GI education.</p> <p>Role of FOSS4G solutions in enhancing and developing of own IT/GI professional skills;</p> <p>What are my most common fields of application of FOSS4G solutions (sharing best practices).</p>
FOSS4G solutions in business and commercial activities	<p>Business models in practice: success stories in using FOSS4G solutions in/by the business world;</p> <p>Why SMEs seem reluctant to use FOSS4G but tend to favour commercial GI software?</p> <p>Quality and reliability of FOSS4G solutions serving as tools to provide quality service to customers.</p>
FOSS4G approaches to e-government and public services	<p>Use of FOSS4G solutions vis-à-vis legal and official procedures followed in public administration offices (for example, vis-à-vis the INSPIRE Directive implementation rules, other EU directives and standards for environmental reporting, etc.);</p> <p>Is FOSS4G implementation a challenge for public administration officials? If yes, in what sense and to which extent? How flexible would office staff be to apply new solutions in their routine professional duties?</p> <p>What legal instruments and organizational improvements can be developed to support FOSS4G implementation in the public sector?</p>
FOSS4G solutions in GMES Programme	<p>Which FOSS4G applications are most suitable to be used in GMES? In other words: is there a “niche” for FOSS4G in GMES (for example, for processing and analysis of GMES data)?</p>

implementation	<p>Can FOSS4G applications foster and strengthen development and implementation of GMES in Europe?</p> <p>Can FOSS4G be applied to contribute to GMES mission by enhancing and improving dissemination of – and public access to – information and data on the state of environment and upcoming threats (in line with the INSPIRE Directive).</p>
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A results of Working Group discussions were in the form of "list of recommendations" regarding (within the topics specified above) proposed ways of:

- avoiding problems and obstacles in using FOSS4G;
- promoting use of FOSS4G;
- applying FOSS4G in the "routine", everyday practice of (1) the GI community, (2) business sector, (3) public administration offices, (4) GMES units/users.

Group 1: FOSS4G and GI technology Moderators: Markus Neteler, Mateusz Łoskot

Discussion has started with general questions on motivation of use of FOSS4G?

Among various arguments following ones has been the strongest: ideology and FOSS4G devotion, lack of other GIS tools in work (especially in Central and Eastern Europe Countries “environment”), challenge and freedom of use of such GI tools in science and academia.

Consequently the SWOT analysis has been conducted.

STRENGTHS	WEAKNESSES
- No black-box: free and available software with possible development of functional scope. Free access to documentation and tutorials.	- Diverse point of view on “OSGeo” brand inside the community
- Flexibility of the software (FOSS4G are adjustable solutions);	- FOSS4G solutions are not so “integrated” as a package of proprietary software. It can cause problems for new users and low-end-users.
- Diversity of tools which foster development of the skills of students and researchers	- Lack of translated documentation
- Community (!!!) – OSGeo Foundation	- Lack of sample data (licensing), and information on available data resources
- Supportive for a self-development (allows for networking, cooperation with other users and exchange of the knowledge and experiences.	- Installation process of FOSS4G
- Quick bug-fixing (action-reaction).	

OPPORTUNITIES	THREATS
- Portability – FOSS4G is portable and developed for various OS platforms (not only MS Windows)	- Domination of proprietary GI software
- PUBLIC SECTOR NEEDS – FOSS4G can be a solution for broad implementation in public sector (self-governmental units)	- Closed formats of GIS data
- INSPIRE (implementation rules of data exchange and accessibility)	- FUD effect: Fear, Uncertainty, Doubts
- DO your own business with FOSS4G – it is free and flexible so allows for creative approach in development of GI products and/or services for end-users	- Lack of education in use of GI even at a basic level – need for a broad GI education for public administration
- Make a money on well prepared and designed documentation for end-users	
FOSS4G courses and trainings	

Group 2: *FOSS4G solutions in GMES and approaches to e-government and public services*
Moderators: *Jakub Ryzenko, Ondrej Mirovski, Grzegorz Myrda, Lieven Raes, Thorsten Reitz*

Consistent with Group 1 with a point of view of public administration.

1. Limited cost to bear is good. More, if you don't pay for software you can spend money on better implementation. Non-paid licenses means unlimited number of licenses so products can be used widely and easily (eg by students). Potential to build community of potential future users easier because of non-paid licensing.
2. Strength: institution is not dependent on a particular provider of software (commercial company). So switching between software is easy, institution is not "stuck" with a given software solution.
3. Strength: big potential in flexibility and adaptability. Can be used in specialized issues this particular institution may have.
4. OSS can expand in bottom-up approach – number of users/institutions can become aware about possibilities created by improved software. Commercial applications acquired in top-bottom way which limits their applicability. Easier exchange of information, wider use, flexibility of OSS.
5. From institutional point of view, easy access by employees is better for bug-fixing and improves human relations and increases motivation of employees.
6. Lack of awareness and marketing of products, evident in the decision process (choosing particular software difficult if not widely recognized/marketed). Oss – even if similar to commercial solutions – is weaker since worsely marketed;
7. Lack of guaranteed service and customer support. For many decisionmakers it's not easy to find responsible individuals to make things work – unlike commercial producers that back their products;

8. Significant effort and IT work required to get things started and institution has to do the work themselves, rather than count on a provider
9. With respect to GMES, discussed example of land service. It's clear that the strongest point is making data available to the public, not just institutions – assuming software policy allows for such dissemination.
10. Above problems can block use of OSS in GMES services, partly because of conservative institutions and FUD

Group 3: *FOSS4G solutions in business and commercial activities Moderator: Karel Maesen*

1. why use: price, license (no license for clients, no need for piracy of licenses), installation, operation ability to modify or extend the product, transparency.
2. why not use: missing knowledge (awareness on using and consequences), shortage of expertise, shortages in usability and productivity, lack of simply available and customized training, packaging (download, install, run – this is not that easy as in many commercial packages)
3. standards: vendor lock by file format (cross-compatibility), GML data created by different vendors are not compatible. Shapefile still works best.
4. recommendations: EU governments communicate their experiences; funding training, documentation; reducing liability risks: cheap indemnification insurance; reducing market fragmentation: support EU-wide market by procurement policy, in Europe market seems sufficient.

Zero Measurement Survey

All of the participants has been asked to conduct a short survey on their GIS/RS background and motivation for participation in the Workshop but also on knowledge and skills on FOSS4G.

Following form was filled out:

- | | | |
|--|--------------------|----------|
| 1) Why have you decided to participate in the CASCADOSS Workshop? | <i>mark with X</i> | 1 |
| - <i>I don't know much about FOSS4G, but I would like to get know about available FOSS4G solutions and about FOSS4G community.</i> | <i>.....</i> | |
| - <i>I'm looking for an inspiration and new tools that I can use in my everyday work with GIS/RS.</i> | <i>.....</i> | |
| - <i>I'm a FOSS4G user and I'm interested in further development of my skills and knowledge about FOSS4G solutions.</i> | <i>.....</i> | |
| - <i>I'm a FOSS4G developer and I would like to be more involved in cooperation with FOSS4G developers and</i> | <i>.....</i> | |

community.

- I'm interested in getting know about how the FOSS4G can
be implemented in commercial activity.

- other:

.....

.....

2) What is your expertise in GIS and/or Remote Sensing (RS)?

**1 - expert, 2 – advanced user, 3 - experienced user. 4 – basic level
5- I'm still learning, 6 – not relevant**

- GIS data acquisition and pre-processing (GPS, analogue
data sources, digitizing, mobile GIS),

- preprocessing of satellite images (registration,
orthorectification, etc.)

- design and development of spatial databases,
administration etc.

- spatial data analyses (geo-statistical, network analyses,
geo-marketing)

- satellite images analyses (classification, interpretation etc)
.....

- analytical modeling
.....

- geovisualisation (3D models, 2D cartography, thematic
cartography)

- design and development of Web-GIS services, geo-portals
.....

- management and coordination of IT/GI projects,
implementation of GI standards

- GIS lectures, and trainings
.....

- GIS „help-desk”
.....

- design and development of user-dedicated GIS
applications

- design and development of GIS dedicated systems for
decision support and risk assessment

- other:
.....

.....

.....

- 3) What is your expertise in FOSS4G? *mark with X*
- **no expertise** – *I have not been experiencing FOSS4G solutions yet but I'm interested in education and future application of FOSS4G in my work. I'm working only with proprietary GIS/RS software (e.g. ESRI, GeoMedia, ERDAS, ErMapper, MapInfo, Microstation, other).*
 - **basic user** – *I have been practicing some FOSS4G solutions but usually I work with proprietary GIS/RS software. I have no background in programming and developing FOSS4G solutions.*
 - **user** – *I'm practicing FOSS4G in my work but I don't avoid using proprietary GIS/RS software.*
 - **aware user** – *I prefer use of FOSS4G solutions. I'd rather don't use proprietary GIS/RS software. I have experiences with programming and developing FOSS4G.*
 - **developer/contributor** – *I am aware user of FOSS4G solutions. I contribute to FOSS4G community and development of FOSS4G Projects.*
 - **devoted developer and contributor** – *I'm involved in FOSS4G Projects and I'm active member of OSGeo/FOSS4G developers Community.*
- 4) What are the most common fields of application of FOSS4G conducted by you? ***select max 5 and mark with X***
- *environmental research (scenarios of the changes of vegetation, ecosystems, climate, water resources and cycle, species distribution etc)*
 - *environmental impact assessment reporting (EIA), strategic environmental assessment reporting (SEA),*
 - *environmental monitoring (air and water pollution, soils degradation, marine ecosystems)*
 - *environmental management*
 - *spatial planning,*
 - *transport infrastructure,*
 - *forestry,*
 - *agriculture*
 - *geology*
 - *landuse, land cover changes*

- *geodetic data survey and integration, mobile GIS,*
- *risk assessment and early warning services (natural hazards: floods, fires etc.)*
- *thematic cartography (publication of maps and atlases)*
- *web-gis services*
- *3D modeling and geovisualisation*

other:

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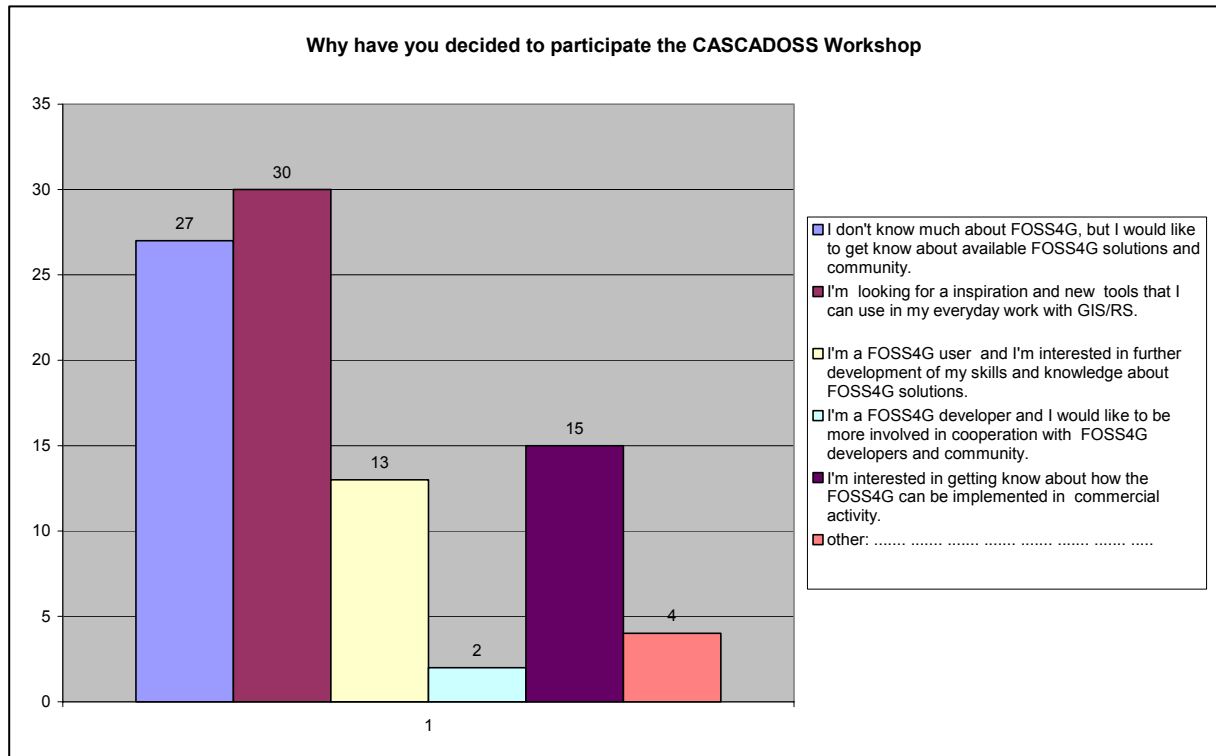
5) Which FOSS4G solutions are you working with and/or developing and contributing to?

.....

.....

In the survey 55 participants took a part and they gave an answers on 5 questions.

1. Why have you decided to participate in the CASCADOSS Workshop?



At the beginning participants were asked: why have you decided to participate the CASCADOSS Workshop?

After analyzing the chart (above) we can see that the highest number of polls answered that they want to gain some knowledge and new experience concerning FOSS4G. Those polls who marked first and second answers think that it would be good for them to use new tools which could be helpful in everyday work.

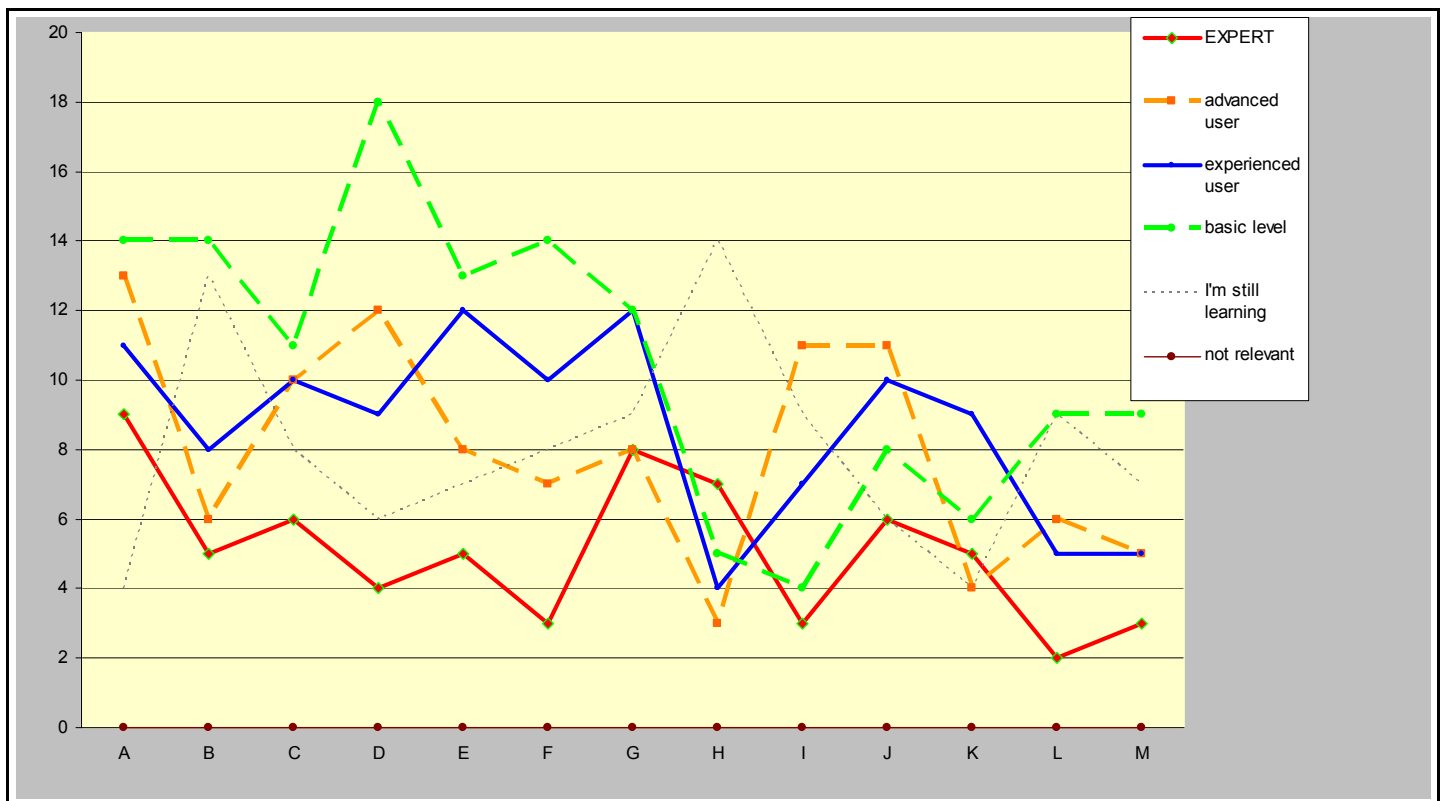
Just 13 polls are FOSS4G user and they are interested in further development of their skills and knowledge about FOSS4G solutions.

Medium number (15) of polls were interested in learning how FOSS4G can be implemented in commercial activities.

Only 4 polls write their own answers on the first question. They mainly write that they want to improve their GIS skills and gain new knowledge.

2. What is your expertise in GIS and/or Remote Sensing (RS)?

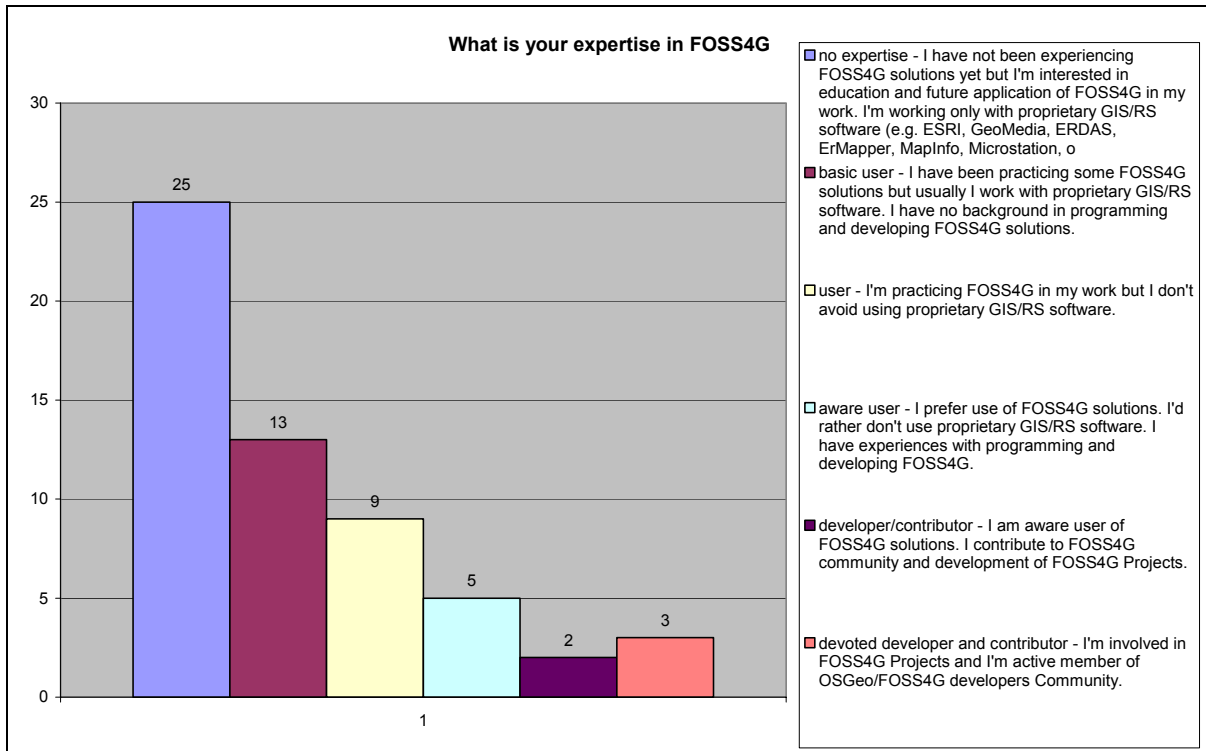
subject	1	2	3	4	5	6
A GIS data acquisition and pre-processing (GPS, analogue data sources, digitizing, mobile GIS),	9	13	11	14	4	4
B preprocessing of satellite images (registration, orthorectification, etc.)	5	6	8	14	13	9
C design and development of spatial databases, administration etc.	6	10	10	11	8	10
D spatial data analyses (geo-statistical, network analyses, geo-marketing)	4	12	9	18	6	6
E satellite images analyses (classification, interpretation etc)	5	8	12	13	7	10
F analytical modelling	3	7	10	14	8	13
G geovisualisation (3D models, 2D cartography, thematic cartography)	8	8	12	12	9	6
H design and development of Web-GIS services, geo-portals	7	3	4	5	14	22
I management and coordination of IT/GI projects, implementation of GI standards	3	11	7	4	9	21
J GIS lectures, and trainings	6	11	10	8	6	14
K GIS "help-desk"	5	4	9	6	4	27
L design and development of user-dedicated GIS applications	2	6	5	9	9	24
M design and development of GIS dedicated systems for decision support and risk assessment	3	5	5	9	7	26



Second question referred to expertise and experience in GIS and RS. There were 13 answers. Polls had to describe how advanced they are with some operations made on GIS and RS processing. At the chart we can observe that majority of polls has basic level of using GI applications. We can divide the answers into two groups. First group contains operations which are generally known and many GIS/RS users know how to use this options (answers from A to G). The second group contains issues which are mainly known by advanced GIS/RS users (answers from H to M).

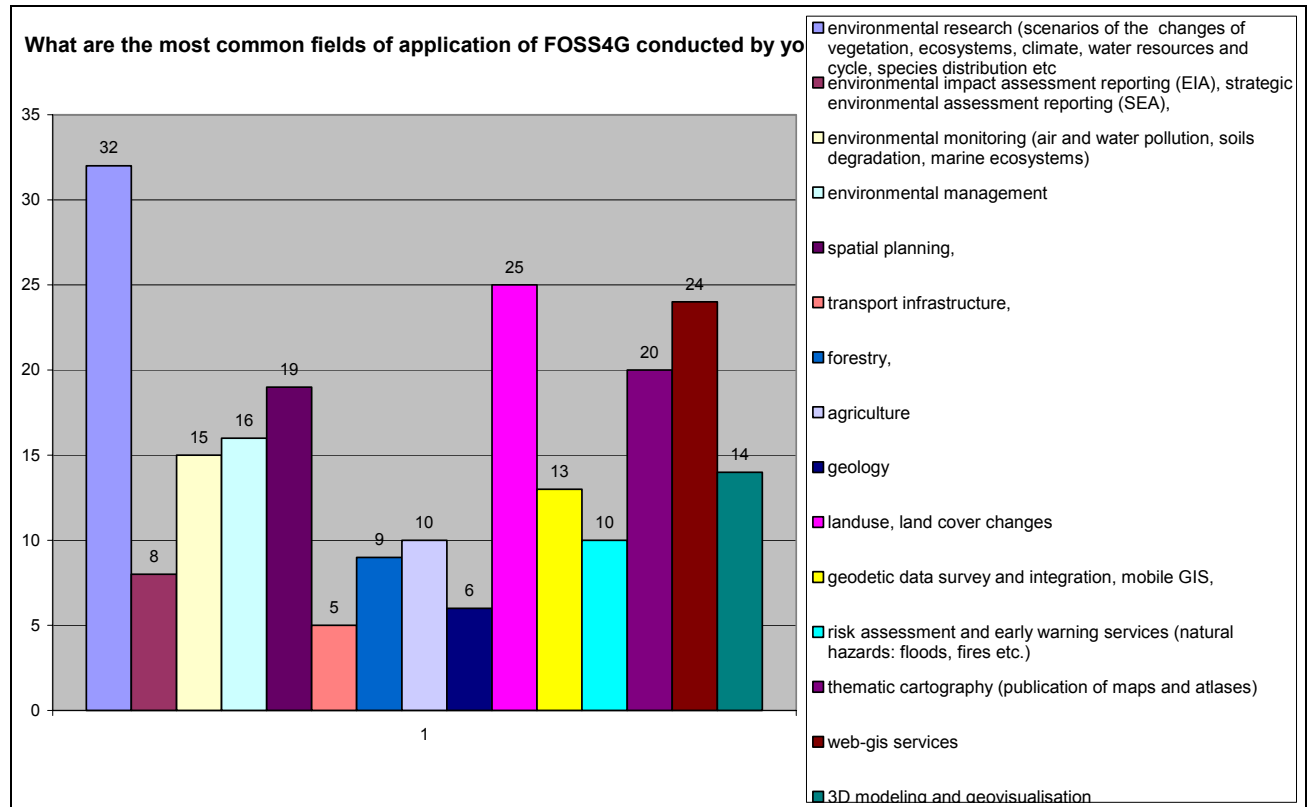
The highest number of polls have basic knowledge about the GIS data acquisition (A) preprocessing of satellites images (B), design and development of spatial database (C), spatial data analysis (D), analysis of satellite images (E), analytical modeling (F) and geovisualization (G). Much less polls are advanced users or expert in second group of answers. At a first glance we can notice that majority of polls have basic skills in GIS/RS experience but we can find some advanced users and experts who are able to do more sophisticated processing/applications and use more advanced tools of GIS/RS software as well.

3. What is your expertise in FOSS4G?



The question refers to expertise in FOSS4G. Majority of polls marked both options: no expertise and basic user. According to the result of the graph we can observe that number of users is decreasing in the direction of more experienced users. We have small number of people (just 5) who are really advanced in FOSS4G.

4. What are the most common fields of application of FOSS4G persuaded by you?



In this question people were asked about fields of application of FOSS4G used by them. Taking into account results of the previous question, regarding expertise in FOSS4G solutions the results should be considered as a declaration of use IF the polls raise their skills in FOSS4G application.

The highest number of polls answered that they usually use FOSS4G for environmental research like scenarios of changes of vegetation, ecosystems, climate, water resources etc. Also quite big group of people use FOSS4G to analyze land use, land cover changes (25) and for the purpose of web-GIS services. Number of polls uses FOSS4G to thematic cartography (20), spatial planning (19), environmental planning (19), environmental management (16), environmental monitoring (15) and geodetic data survey (13).

The lowest number of applicants marked risk assessment and early warning assessment (10), agriculture (10), forestry (9), environmental impact assessment reporting (8), geology (6) and transport infrastructure (5).

5. Which FOSS4G solution do you use/or develop and/or contribute to?

In the last questionnaire people were asked which FOSS4G solutions do they use and/or develop and/or contribute to? There was not so many answers on that question (only 7).

Among FOSS4G solutions it was mentioned use or development of following software: SAGA, PostGIS, GRASS, MapServer. Quantum GIS.

Evaluation Results

In the end of the Workshop all of the participants has been asked to provide answers on questions in evaluation form. Following questions have been raised:

- | | | | |
|----|--|---|-----------|
| 1) | What is your opinion about the recruitment and registration process, has it been well performed? | YES | NO |
| | - if <i>NO</i> , please indicate issues that we should improve:.....
..... | | |
| 2) | How do you find the Workshop facilities such us conference room, working space, Internet access, materials for working groups, computer laboratory?
Your suggestions for improvement:
.....
..... | | |
| 3) | Could you please assess the quality of Workshop materials?

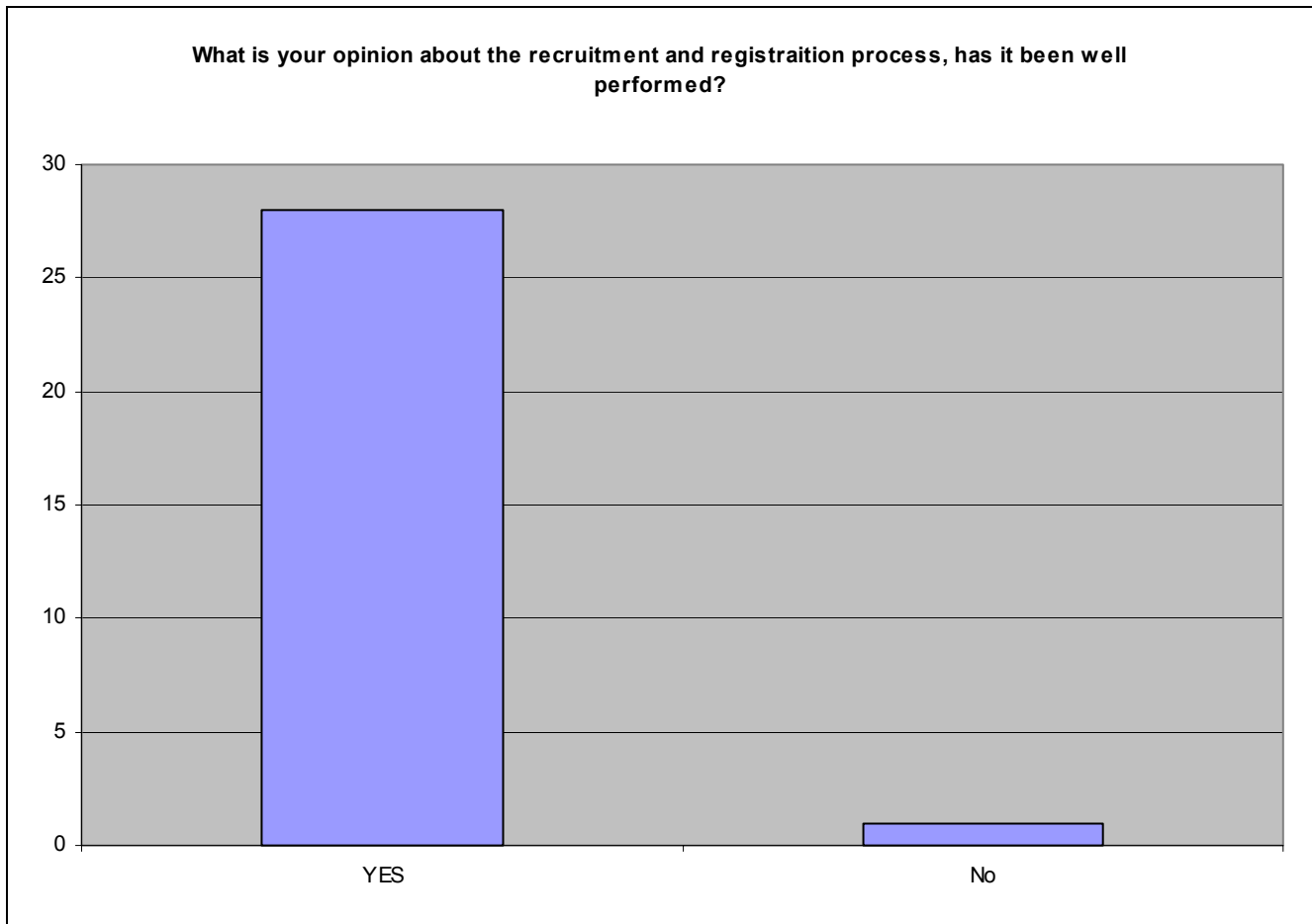
1 – poor, 2 – good enough, 3 – good, 4 – very good, 5 – excellent | | |
| 4) | Could you please rank sessions in order to give a feedback on most interesting, and the least interesting sessions:

<i>Day 1: Approaching Free and Open Source Software for Geomatics – Working groups orientation</i>
<i>Day 1: Approaching Free and Open Source Software for Geomatics – activities in the frame of working groups,</i>
<i>Day 2: Evaluating FOSS4G exercises with Live DVD,</i>
<i>Day 2: Presentation of case studies – part 1,</i>
<i>Day 3: Hands-on session on examples of use of GIS OSS for environmental applications with Live DVD and the Workshop DVD (1)</i>
<i>Day 3: Presentation of case studies – part 2,</i>
<i>Day 3: Hands-on session on examples of use of Remote Sensing OSS for environmental applications with Live DVD and the Workshop DVD (2)</i> |
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1 – poor, 2 – good enough, 3 – good, 4 – very good, 5 – excellent

- 5) Could you please assess a poster session?
1 – poor, 2 – good enough, 3 – good, 4 – very good, 5 – excellent
- 6) Are you convinced to apply and use of GIS/RS FOSS in your job?
YES PARTLY NO
- 7) Would you recommend the CASCADOSS Workshop to your colleagues?
YES PARTLY NO
- 8) Has the CASCADOSS Workshop met your expectation in regard to:
 quality of the lectures **YES PARTLY NO**
 quality of the hands-on sessions **YES PARTLY NO**
 organization of the Workshop **YES PARTLY NO**
 time balance **YES PARTLY NO**
 any other comments?
- 9) Are you interested in participation in 2-day CASCADOSS Regional and National Workshops on FOSS4G planned in Jan.-Feb. 2009?
 in Belgium **YES NO**
 in Czech Republic and Slovakia **YES NO**
 in Hungary **YES NO**
 in Poland **YES NO**

1. What is your opinion about the recruitment and registration process, has it been well performed?



Generally speaking people have positive opinion about the recruitment and registration process. A great deal of polls has positive opinion (28) about the recruitment and registration process, just one person has negative opinion about the process.

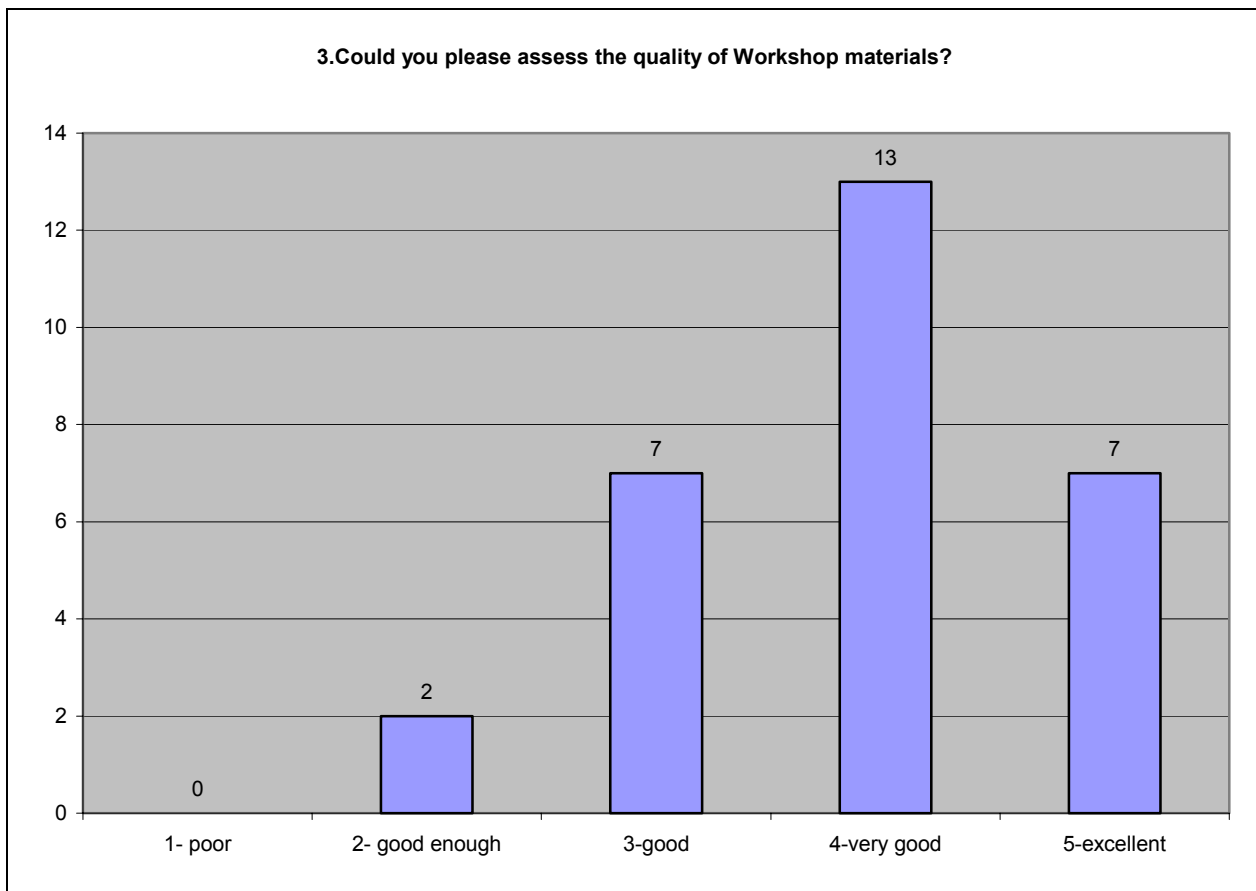
2. How do you find the Workshop facilities such as conference room, working space, Internet access, materials for working groups, computer laboratory?



Participants of the Workshop mainly marked that they find the Workshop facilities good, very good or excellent. Only 3 polls marked that this Workshop facilities was good enough.

There was nobody who gives the mark poor.

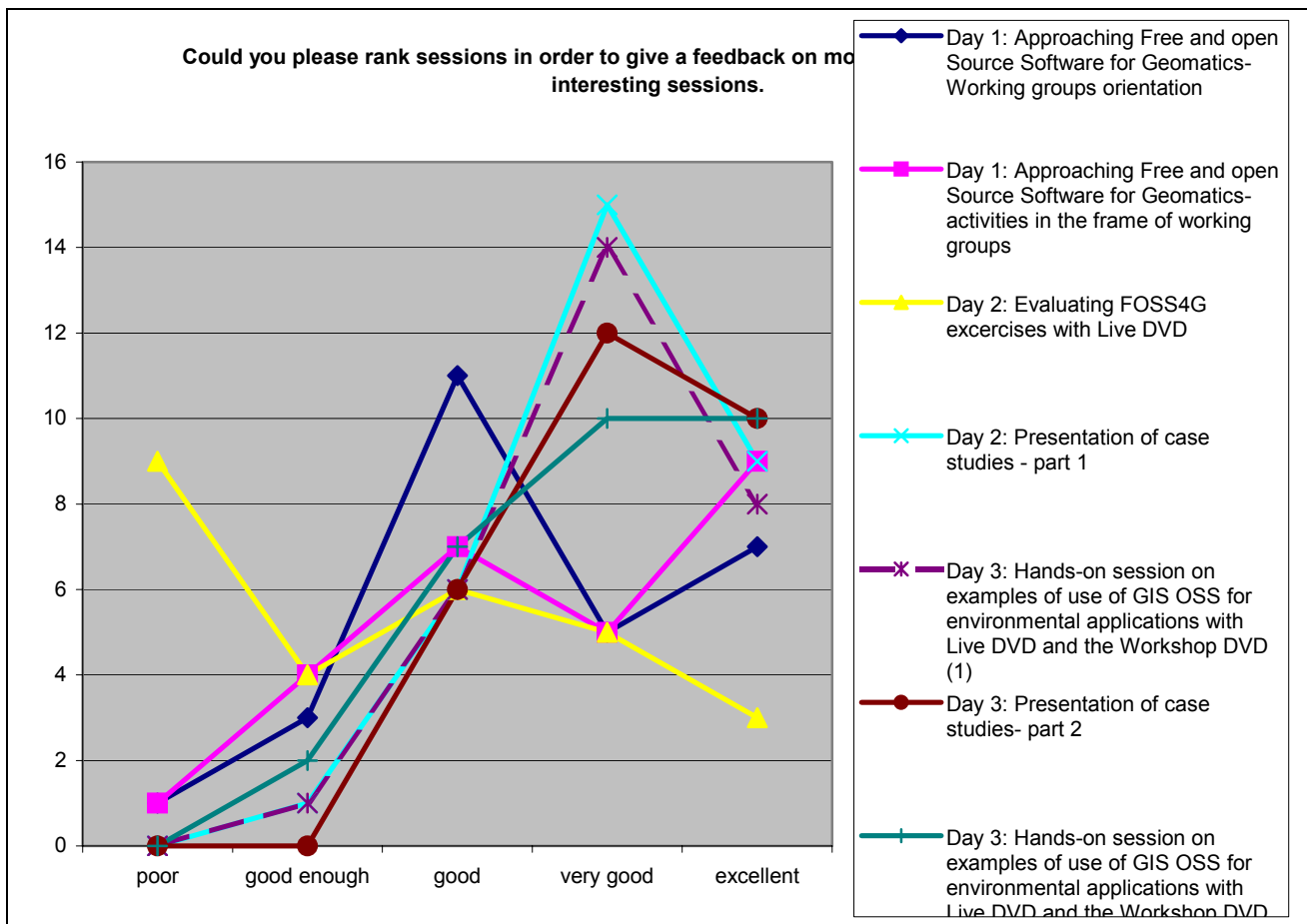
3. Could you please assess the quality of Workshop materials?



Third question refers to the quality of Workshop materials. Majority of members of the conference assess the quality of Workshop materials very good and excellent. Seven people assess the materials as good; just two people give mark good enough. There was nobody who assesses the Workshop materials as a poor.

4. Could you please rank sessions in order to give a feedback on most interesting, and the least interesting sessions?

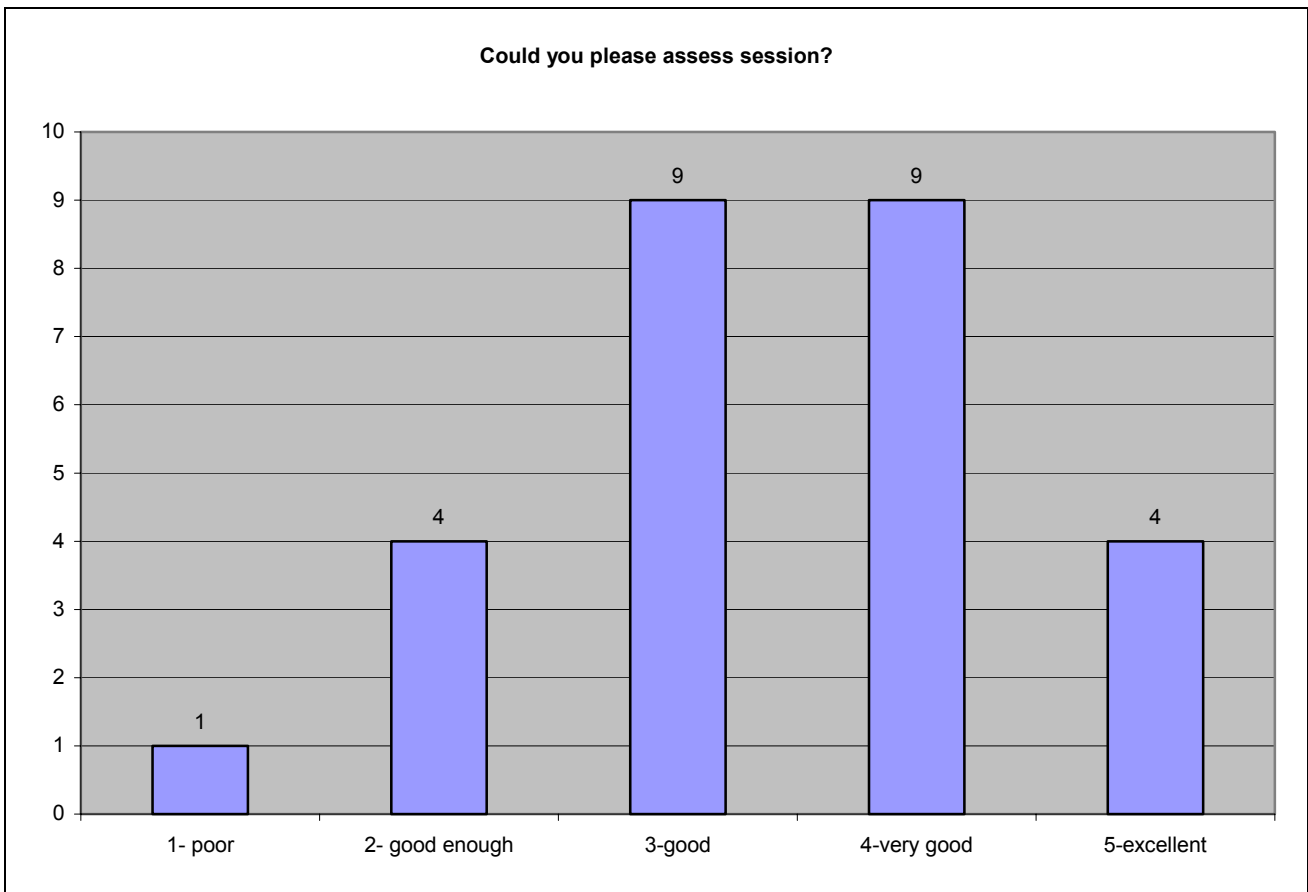
Subject	poor	good enough	good	very good	excellent
Day 1: Approaching Free and Open Source Software for Geomatics-Working groups orientation	1	3	11	5	7
Day 1: Approaching Free and open Source Software for Geomatics-activities in the frame of working groups	1	4	7	5	9
Day 2: Evaluating FOSS4G exercises with Live DVD	9	4	6	5	3
Day 2: Presentation of case studies - part 1	0	1	6	15	9
Day 3: Hands-on session on examples of use of GIS OSS for environmental applications with Live DVD and the Workshop DVD (1)	0	1	6	14	8
Day 3: Presentation of case studies- part 2	0	0	6	12	10
Day 3: Hands-on session on examples of use of GIS OSS for environmental applications with Live DVD and the Workshop DVD (2)	0	2	7	10	10



In this study polls were asked to assess particular sessions which were organized during the Workshop.

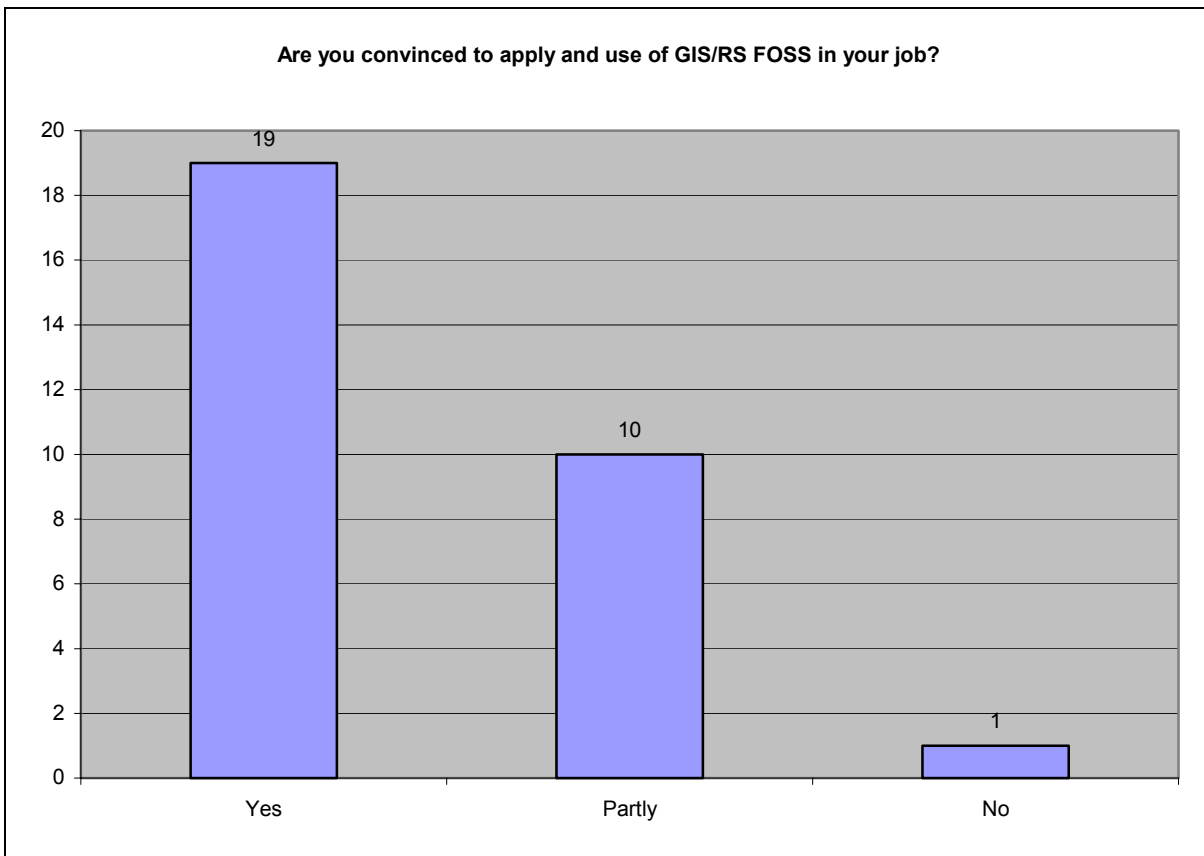
First day of the conference fell out quite well in the assessment of participants especially discussion session about approaching Free and open Source Software for Geomatics - activities in the frame of working groups. Also second day with presentation of case studies-part 1 was organized well. People had some reservation concerning the Evaluation FOSS4G exercises with Live DVD during the second day of the conference. And there was no major objection to the rest of hands-on session which were evaluated well.

5. Could you please assess the session?



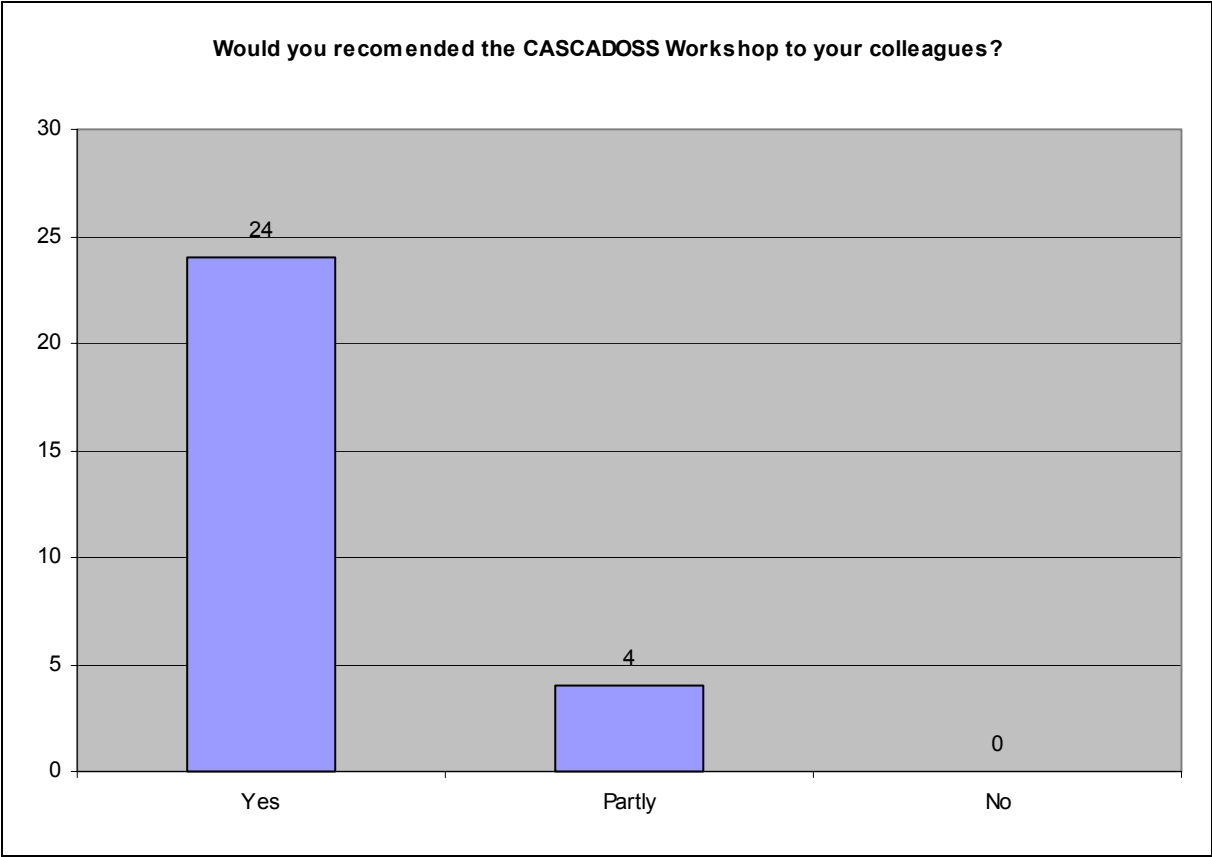
Fifth question refers to poster session. Polls were asked to assess the poster session. Majority of participants gave high mark for the poster session. Only 1 person was not glad of the session, 4 polls were satisfied enough.

6. Are you convinced to apply and use of GIS/RS FOSS in your job?



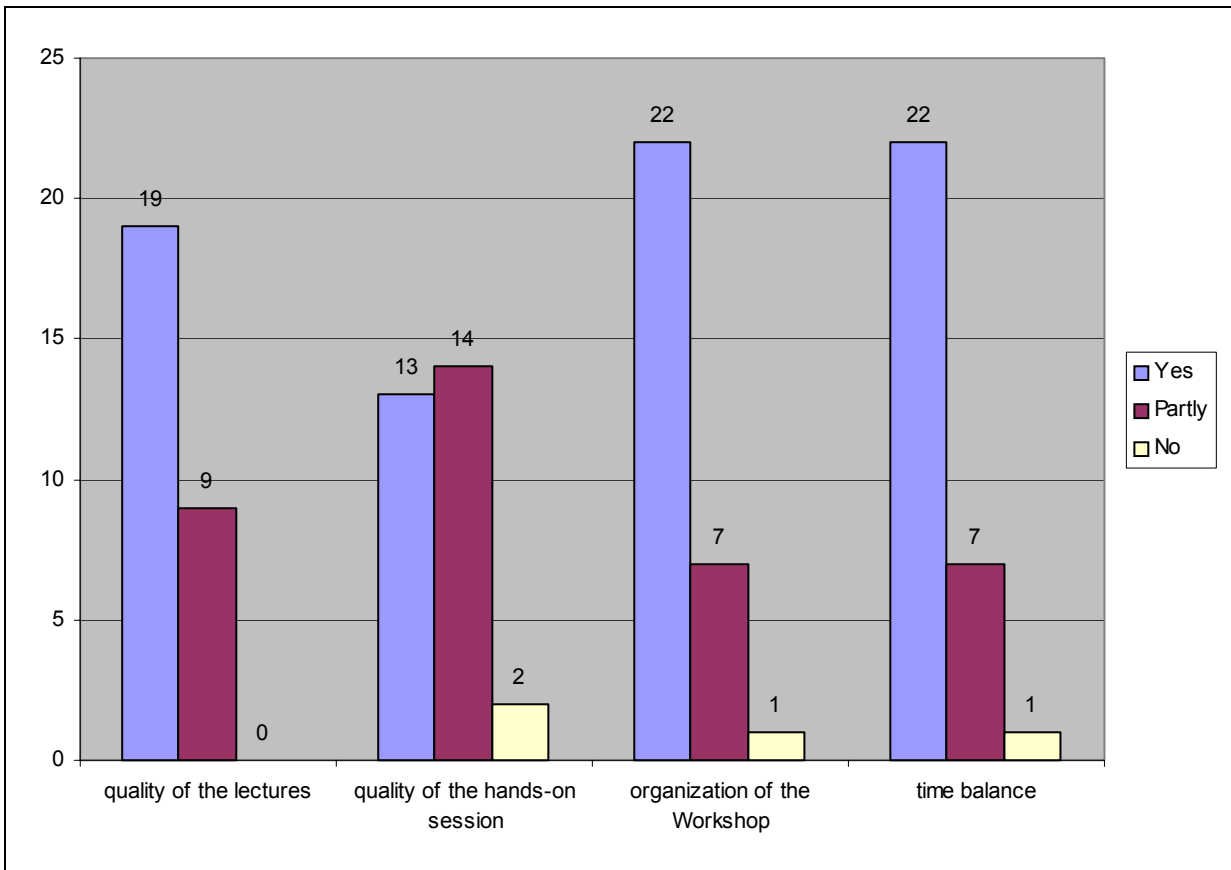
This question refers to level of conviction of polls regarding application and use of GIS/RS FOSS in their job. People usually answered that they are for, but significant number of people was not fully convinced.

7. Would you recommend the CASCADOSS Workshop to your colleagues?



In this question people have been asked would they recommend the CASCADOSS Workshop to their colleagues. Majority of people gave positive answer on this question.

**8. Has the CASCADOSS Workshop met your expectation in regard to:
quality of the lecture, quality of the hands-on sessions, organization of the Workshop
and time balance.**

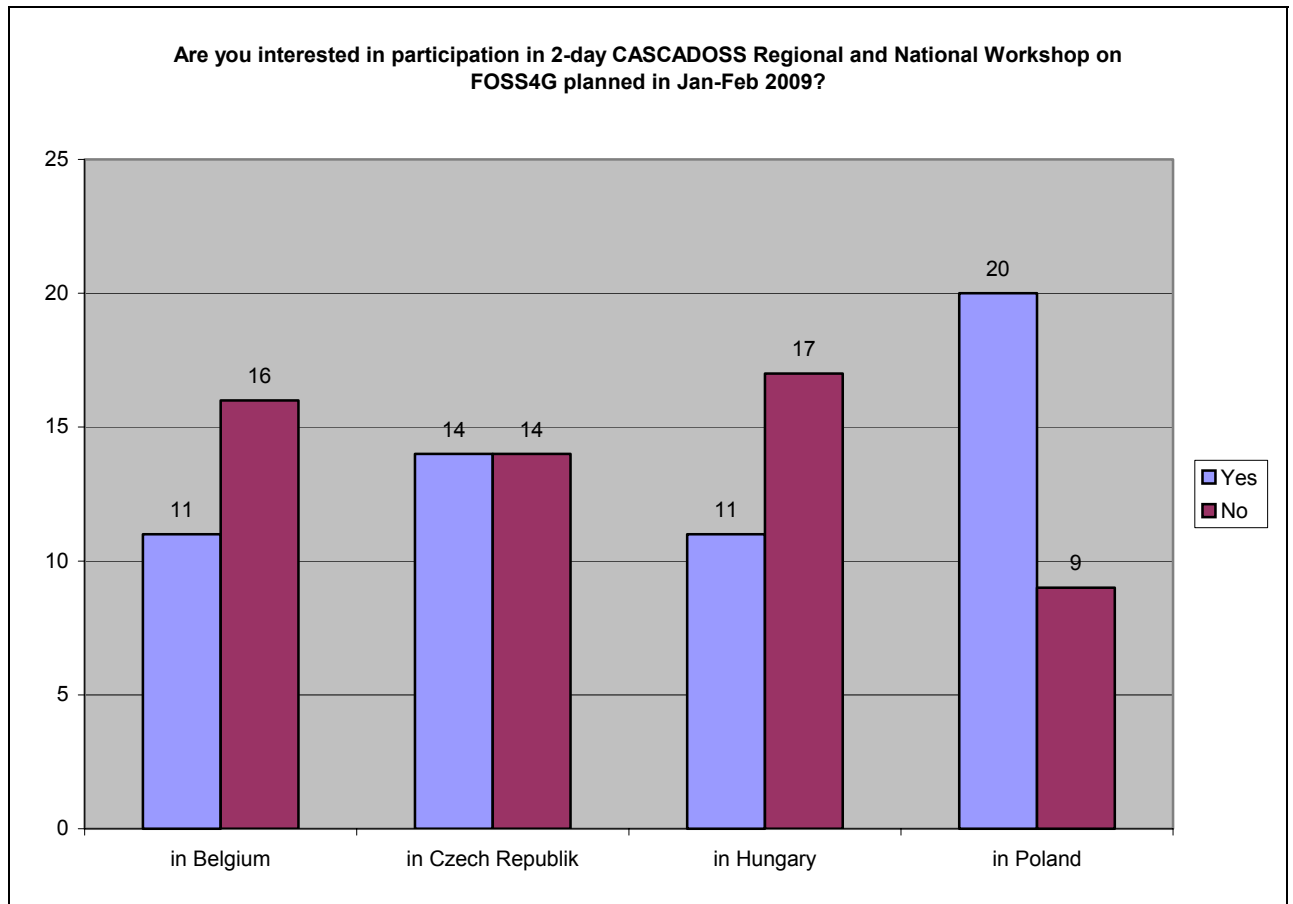


This question was intended to investigate what is the perception of the Workshop among participants in the context of their expectations (various issues concerning the organization such as quality of the lectures, quality of the hands-on session, organization of the Workshop and time balance).

People highly evaluated the quality of individual components. We can notice that only quality of the hands-on session was significantly differing from the quality of the other events.

Polls assess high a organization of the Workshop, time balance and quality of the lectures as well.

9. Are you interested in participation in 2-day CASCADOSS Regional and National Workshop on FOSS4G planned in Jan-Feb 2009?



Last question refers to future participation in similar Workshop that will be organized in Belgium, Czech Republic, Hungary and Poland. Some people want to meet in Poland again, but here were also people who wants to participate in the Workshop organized in different countries.