



LIFE Project Number

**LIFE10 ENV/SK/086**

## **Progress Report**

**Covering the project activities from 15/12/2011 to 09/10/2012**

Reporting Date

**10/10/2012**

**The impact of geological environment on health status of residents of the  
Slovak Republic**

Acronym **Geohealth**

### Data Project

<b>Project location</b>	Slovak Republic (whole territory)
<b>Project start date:</b>	01/09/2011
<b>Project end date:</b>	31/08/2015 <b>Extension date:</b> -
<b>Total budget</b>	418,112 €
<b>EC contribution:</b>	207,273 €
<b>(%) of eligible costs</b>	49.57

### Data Beneficiary

<b>Name Beneficiary</b>	State geological Institute of Dionýz Štúr
<b>Contact person</b>	Mr Stanislav Rapant
<b>Postal address</b>	Mlynská dolina, 1, 817 04, Bratislava, Slovak Republic
<b>Telephone</b>	00421-2-59375213
<b>Fax:</b>	00421-2-54771940
<b>E-mail</b>	stanislav.rapant@geology.sk
<b>Project Website</b>	<a href="http://www.geology.sk/geohealth/">http://www.geology.sk/geohealth/</a>

**Notes:**

**According to the Common Provisions Article 12 – Technical activity reports, the coordinating beneficiary must provide the Commission with:**

**- progress reports with the delay between consecutive reports which does not exceed 18 months;**

**The progress report** shall contain the necessary information for the Commission to evaluate the state of implementation of the project, the respect of the work plan, the financial situation of the project and whether the project's objectives have been achieved or are still achievable.

Identical copies of any progress report, in both paper and electronic versions, shall be simultaneously forwarded to the Commission and to the external monitoring team designated by the Commission, both of them receiving one complete copy of the technical reports, including annexes.

- Progress reports *must* be submitted following the timetable *as foreseen in the final version of the proposal attached to the Grant Agreement*, unless modified with agreement of the Commission.
- A progress report would normally contain approximately 10 pages (maximum 20), excluding annexes. Please use font Times New Roman 12 or equivalent.
- The technical part should contain a concise statement of the tasks undertaken and a forecast for the next reporting period. Any problems encountered during the period and possible deviations from project plans must be covered.
- Progress reports can be accompanied by annexes such as specific technical reports on issues relating to the project or reports and dissemination deliverables or other outputs from the project.
- Progress reports should be submitted in paper and electronic form.

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## **1. List of key-words and abbreviations (when appropriate).**

MŽP SR – Ministry of the Environment of the Slovak Republic

RÚVZ – Regional Office of Public Health

SEGH – Society for Environmental Geochemistry and Health

ŠGÚDŠ – State Geological Institute of Dionýz Štúr

WHO – World Health Organization

SR – Slovak Republic

## **2. Executive summary**

### **2.1. General progress**

Project is governed in accordance with project schedule and in terms of common provisions and rules of LIFE+. During the first 14 months all planned administrative, technical as well as dissemination actions were completed. First two technical actions (**A1, A2**) that are the base for the successive technical works on the project were finished. Action **A3** is to be finished in short time. Compiled databases of environmental and health indicators, their division according to geological structure and contaminated areas provide important data source for the follow-up research on relations between geological environment and health state of the inhabitants of the Slovak Republic. In comparison with primary project timetable we have already started works within the actions **A5** (Environmental analysis) and **A6** (Elaboration of the proposal of measures). Relevant data information useful for elaboration of environmental-health regionalization of the Slovak Republic and factsheets “cause – effect – measures” for unfavourable geological environment are excerpted and summarized. These works were started due to the problems with the realization of public tender for “calculation of neural networks and fuzzy cluster analysis” that was planned according to project timetable to be done within the action **A4** (Linking of environmental and health indicators). We were not given the approval for this public tender by the Ministry of the Environment of the Slovak Republic yet. The results of this action **A4** are necessary for the successful realization of decisive parts of all other actions planned within the project. All further actions including accompanying and dissemination works (**B1 to C6**) are continuously running or have been already completed according to project timetable. They are described in more details in technical part of this progress report. We thoroughly respect the principle of publishing actual results and information on running actions (technical, dissemination) on the website of the project ([www.geology.sk/geohealth/](http://www.geology.sk/geohealth/)).

### **2.2. Assessment as to whether the project objectives and work plan are still viable**

The project’s objectives are fully valid and achievable. All activities planned within the project are running according to the project timetable. All actions planned up to the progress report submission deadline (30.10.2012) are solved in accordance with project schedule. However, we find necessary to modify timetable for running of actions **A4, A5** and **A6**. Action **A4** (Linking of environmental and health indicators) will be started later on (we suppose in March - April 2013) and the work of technical staff will be focused on running actions **A5** and **A6** (Environmental analysis, Elaboration of the proposal of measures). There is no need of modification of project financing due to these changes.

### **2.3. Problems encountered**

All potential problems related to the project running can be categorized in three main categories: financial, administrative and technical.

**Financial problems.** Financial problems are connected with the co-financing of the project. For the budget and contributory organisations established within the department of the Ministry of the Environment of the Slovak Republic (MŽP SR), among which ŠGÚDŠ (coordinating beneficiary of this project) belongs, co-financing of the LIFE+ projects are guaranteed by the Ministry of the Environment of the Slovak Republic from its own sources. This guaranty is conditioned by the sufficiency of disposable sources and expenses and success of the project. For the projects that were successful within the LIFE+ 2010 the official call of MŽP SR for co-financing was open (10. October 2011). In terms of project co-financing propositions through this call it was set down that co-financing will be realized in accordance to the rating of the Life+ projects quality (2010) by the European Commission. Since our project achieved the highest rating by EC among all projects submitted from the Slovak Republic in the year 2010 there is a full assumption of its co-financing by the MŽP SR. The non-official information communicated to director of ŠGÚDŠ and by phone also to project manager MŽP SR has approved 30.08.2012 co-financing of the project GEOHEALTH in full amount. Still we do not have this co-financing definitely contracted.

*After the reporting date, in October 22<sup>th</sup> 2012, when the progress report has been already submitted to monitor Mr. Svoboda for preliminary control we were given the approval by the MŽP SR about the co-financing of our project in full amount of 210,839.00 EUR. We include this decision and approval given by the Minister of the environment at the very beginning of the section “Annexes”.*

**Administrative problems.** At the very beginning of the project running even in the future we do suppose any serious administrative problems or obstacles that could make project's objectives not achievable. Less significant but from the point of view of project's timetable execution we find the fact that all public tenders necessary for the project's must be approved by the MŽP SR. No deadline for this approval is fixed that is why we are not able to guarantee the correct timing of public tender. For our project this fact was reflected in delaying of website running and purchasing of two PC about 2-3 weeks later than it was planned. More serious problem is still missing of approval for the beginning of public tender for statistical calculations - neural networks, fuzzy cluster analysis (planned date was 30.08.2012). We had to move planned personnel capacities of technical staff from this action to actions that are not dependent on public tender process. All other public tenders will be given for approval in much more advance as we have still done.

**Technical problems.** The main technical problem is that the project running according to planned timetable and logical work progress after first 3 actions (A1, A2, A3) is further based on execution of action **A4** (Linking of environmental and health indicators). The main part of this action was planned to be run in subcontracting form. MŽP SR did not give us the approval for public tender running for selection of subcontractor of these works yet.

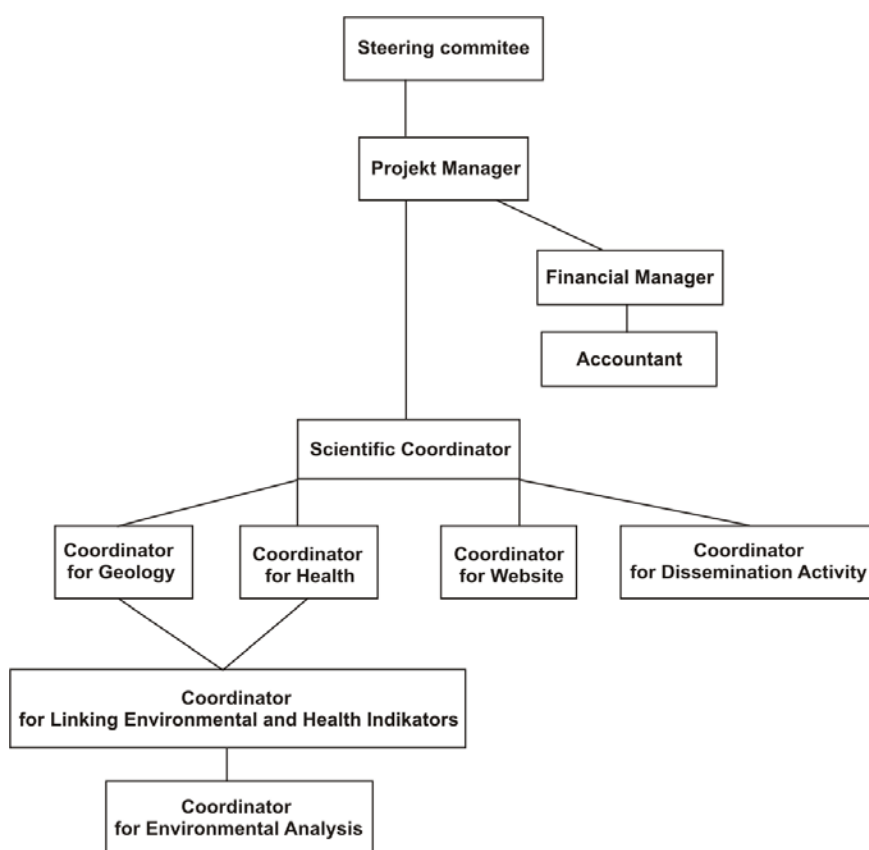
### **3. Administrative part**

Project is managed from the very beginning in accordance with rules of LIFE+. Every month consultative meetings participated by members of project team are organized. Consultative meetings deal with the evaluation of project progress and planning further tasks to be solved during next period. The records from consultative meetings are available on the website of the project. The first session of *steering committee* was also organized according to planned project schedule. The conclusions and recommendations of the steering committee are also available at project website. In addition, monitoring report for the project is compiled by project manager and is also available at the project website. Project team works from the very beginning of the project in following structure:

NAME	POSITION
doc. RNDr. Stanislav RAPANT, DrSc.	project manager, scientific coordinator
Mgr. Renáta TESAŘOVÁ	financial manager
Mgr. Veronika CVEČKOVÁ	coordinator for geology, coordinator for elaboration of proposal of measures
Mgr. Katarína FAJČÍKOVÁ, PhD.	coordinator for linking of environmental and health indicators, coordinator for environmental analysis
RNDr. Ladislav MARTINSKÝ	coordinator for dissemination activity
Ing. Kristína LACENOVÁ	coordinator for website
Jana BUDÍNOVÁ	accountant
MUDr. Zuzana DIETZOVÁ	coordinator for health
MUDr. Darina SEDLÁKOVÁ, MPH	epidemiologist

We plan to extend project team with the position of translator from 01.01.2013. We plan to allocate financial means budgeted in the item “external assistance costs” in amount of 2 000 €. Translator will be chosen from permanent staff of ŠGÚDŠ (coordinating beneficiary) and will be rewarded in accordance with the internal rules of the organization. The main task for translator will be to translate technical papers for publishing in international current magazines and translation of Layman’s report.

The organigramme of the project team and project management structure is following, in accordance of the project:



From the beginning of project Inception report with reporting date 15.12.2011 was delivered to European Commission in accordance with project schedule and timetable. We took into account all recommendations of European Commission and we include all requested materials missing in the inception report now in the annexes of this progress report:

- Certification of VAT status,
- Project output indicators,
- Employment contract – example
- Timesheets – examples (Slovak/English).

By now we do not find necessary to make substantial changes in project timetable (no extension is needed) or to request for prolongation of the project.

#### **4. Technical part**

All actions are still running in accordance with project schedule and planned timetable.

##### **4.1. Actions**

###### **4.1.1. Action 1 – Compilation of data set of environmental indicators**

Within this action, datasets of environmental indicators for groundwater (more than 20 000 samples) and soils (more than 10 000 samples) were planned to be compiled. Final datasets include 20 344 chemical analysis of groundwater and 10 738 chemical analysis of soils. They were elaborated in numeric as well as map form for Slovak administrative units (municipalities, districts) and are published on the project website. However there is possibility of some small changes of the datasets after mathematical-statistical data elaboration. It is possible that exclusion of some values (“extremes”) will be necessary. This action is completed.

###### **4.1.2. Action 2 – Compilation of data set of health indicators**

Within this action, existing datasets of health indicators were planned to be extended of about 20 – 25 health indicators, mainly those characterizing cardiovascular and oncological diseases, including data standardization. Existing dataset was extended of following health indicators (according to ICD code): C16, C18, C22, C25, C34, C500, C51, C60, C61, C64, C81, E10, I00, I10, I20, I26, I60, I70, J00, J40, K00, K70, K74, N00, N18. The dataset of 30 most significant health indicators for Slovak administrative units (municipalities) is available on project website. The final version will be definitely approved after realization of action A4 (Linking of environmental and health indicators) based on optimization of dataset and selection of those health indicators that will be recommended for monitoring and further evaluation. It is possible that part of health indicator dataset will seem to be not significant with regard to environmental indicators. In such case we will add other health indicators into dataset. This action is completed.

###### **4.1.3. Action 3 – Elaboration of environmental and health indicators**

This action includes division of datasets of environmental and health indicators compiled for the whole Slovak territory according to geological environment and especially for selected contaminated sites. Project had in plan delineation of 7 basic geological compartments and 5-6 contaminated areas of the Slovak Republic.

Finally we have realized the division of datasets in following 8 geological compartments: 1. Paleozoic metamorphic rocks, 2. Granitoides of crystalline complexes, 3. Carbonatic rocks of Mesozoic complexes and basal Paleogene, 4. Sediments and carbonates of Mesozoic complexes and Paleogene Klippen Belt, 5. Paleogene Flysch, 6. Neogene volcanics, 7. Neogene sediments, 8. Quarternary sediments.



Contaminated areas were selected in following way. Instead of 5 – 6 contaminated areas we delineate 3 contaminated and 3 neighbouring non contaminated areas that are similar from the geological as well as socioeconomic aspect within:

1. Slovak Ore Mts. (geogenic contaminated area due to historical mining activities),
2. Central Slovak neogene volcanics (geogenic contaminated area due to historical mining activities),
3. Upper Nitra region (anthropogenic contamination due to combustion of brown coal).

In this way we will be able to catch better the impact of contaminated geological environment on health state of Slovak resident population.

This action is in high progress and there is full assumption to keep planned timetable for its completion.

#### **4.1.4. Action 4 – Linking of environmental and health indicators**

The beginning of running this action was planned from 01.12.2012. in February 2012 we have requested MŽP SR for start of public tender (calculation of neural network). Up to 30.08.2012 subcontractor of these works was to be selected. MŽP SR did not give us the approval yet. From the timetable of the project we are not able to complete this action in planned date. We have to solve this situation in such a way that capacities of technical staff will be moved to works on geochemical parts of actions A5 and A6. Action A4 will be realized after the public tender approval and realization.

#### **4.1.5. Action 5 – Environmental analysis**

#### **4.1.6. Action 6 – Elaboration of the proposal of measures**

#### **4.1.7. Action 7 – Realization of measures**

These actions are to be run later on in accordance with project timetable.

#### **4.1.8. Action B1 – Overall project operation**

The main task of this action is an effective and operational management of the project. Project team and steering committee meet in accordance with project schedule. Records from regular month consultations and meeting of steering committee are published on project website. Project management is fully in accordance with project schedule.

#### **4.1.9. Action B2 – Monitoring**

This action is focused mainly on regular control and evaluation of each project action. The results of project monitoring are summarized in monitoring report from 05.06.2012 that is also published on the website.

Monitoring runs according to project schedule.

#### **4.1.10. Action B3 – Audit**

This action is planned to run later on project running.

#### **4.1.11. Action B4 – Networking with other projects**

The main objective of this action is the study of all available materials relevant for the issue that project is focused on, communication with other groups and teams interested in and dealing with this issue and presentation of achieved results on the project through active participation on events at national as well as international level. We continuously excerpt and study findings and results of all other LIFE+ projects and available literature sources (mainly SCOPUS). We actively collaborate and exchange the information with ÚVZ SR, WHO office in Slovakia, Slovak Health University and other scientific and research institutions in the Slovak Republic.

On the international level we have actively communicated by e-mail with representatives of e.g. US EPA (prof. Nauman, Dr. Lobdell) and WHO Europa – Centre for Environment and Health (Dr. Egorov). Two members of project staff were invited to and will participate the European meeting (of 27 EU countries) organized by WHO Regional Office for Europe (29. – 30.10.2012, Bonn, Germany) dedicated to formation of European Environment and Health Information System (ENHIS). In July, 2012 three project team

members actively participated (1 poster, 1 oral presentation) the International Symposium on Environmental Geochemistry held in Aveiro, Portugal.

This action runs according to project plan.

#### **4.1.12. Action B5 – After – LIFE Communication plan**

The running of this action is planned later on.

#### **4.1.13. Action C1 – Notice board**

Project planned two notice boards to be displayed, in the premises of ŠGÚDŠ and Open-Air Mining Museum in Banská Štiavnica. Notice boards are displayed at strategic places in accordance with the project plan. This action was completed.

#### **4.1.14. Action C2 – Website**

Website was planned to be created up to 3 months from the beginning of the project using the website of ŠGÚDŠ (coordinating beneficiary) as home site. The problem encountered with the approval of public tender for website creation (we were given the approval after 1.5 month from the request of approval) caused the delay in website running (4 months after the project was started, 30.12.2011). From that moment website is fully functional. All relevant information and news related to the project running are published and actualized on the website. The total number of website views up to 09.10.2012 was 3333. This action runs fully in accordance with project schedule and plan.

#### **4.1.15. Action C3 – Layman's report**

This action was not run yet.

#### **4.1.16. Action C4 – Any media work**

The objective of this action is intense widespread propagation of project results to layman's and professional audience and to rise up general interest in objectives and achievement of project results. Within the project two press conferences held in the Ministry of the Environment (project start/project end) are planned. Based on general interest other activities were planned to be run: newspaper articles, radio and TV sessions, mainly in the stage of last year of project running and after the project end.

Press conference planned to be organized in MŽP SR at the project start was not held for two reasons. The first reason was the early parliamentary elections in the Slovakia and change of responsible officers in MŽP SR. The second one was still unsuccessful approval of financial budget for co-financing of the project by MŽP SR and that is why it was not appropriate to hold the press conference. One press conference was relevantly substituted by press release of MŽP SR about the project start, its objectives and promised support for project co-financing. Press news is published on the project website as well as the website of MŽP SR (<http://www.minzp.sk/tlacovy-servis/tlacove-spravy/tlacove-spravy-2011/tlacove-spravy/environministerstvo-podpori-projekty-programu-life.html>).

Other activities within this actions comprised compilation of relevant materials for two newspaper articles for Slovak national daily papers – SME Korzár and SME Banská Bystrica. These articles are available online on the project website as well as on the website of daily papers (<http://bystrica.sme.sk/c/6401545/banske-lokality-su-rizikove-ale-nie-je-to-dovod-na-utek.html>, <http://spiskanovaves.korzar.sme.sk/c/6357352/vznikla-mapa-rizikovych-obci-zijete-na-bezpecnom-mieste.html>). In addition, session in local radio (Medzibodrožie, Trebišov) was publicized in 15.05.2012. We do not have any audio record of this session. We also made background materials for publishing one article in regional press based on the request of weekly paper Szahad Ujszág, but this was not published yet. After the publishing of two newspaper articles we were contacted by two TV companies, state STV and commercial TV MARKÍZA. We took part in preparatory phase – questions and formulation of responses. We made also short record. Since the questions of journalists were suggestive focused mainly on sensations / stories but the answers of project manager were very conservative. That is why the TV session was not

broadcast. TV media contacted project team based on published information about the project on the project website. We do not make any steps towards them.

In the third and fourth year of project running (when we will have more results) we will contact media and we hope that wide dissemination of project results will be done through different type of media. In addition we were contacted by e-mail and phone by more than 50 inhabitants with queries related to environment issue and health state of Slovak population. We have answered all queries in short time.

The action is running in accordance to project schedule.

#### **4.1.17. Action C5 – Workshop, seminar, conference**

In accordance with project schedule, one workshop (up to 9 months from the project start), one seminar (half a year before project end) and one conference (3 months before project end) are planned to be organized.

Workshop (international) was held during 31.05.-01.06.2012 in Bratislava, Slovak Republic in the head of ŠGÚDŠ. Three leading foreign researchers, representatives of WHO and ÚVZ SR were participated on the workshop (total number of all participants was 22). The main objective of the workshop was reached. The group of environmental and health indicators was agreed as well as methods of linking two datasets were discussed and agreed. The results of workshop including all oral presentations are available online on the project website.

This action is running fully in accordance with project schedule and timetable.

#### **4.1.18. Action C6 – Technical publications of the project**

Project has in plan to publish results in several forms. Except of final monograph and English brochures mainly publishing of articles in 3 international magazines, 6 Slovak magazines and several papers in different conference books of proceedings / abstracts are planned to be published. So far we have compiled one research article in the current magazine. This is in phase of reviewing. Further we have produced two articles and published them in Slovak magazine “Mineralia Slovaca” ([www.geology.sk/index.php?pg=min\\_slov.ms\\_11\\_4](http://www.geology.sk/index.php?pg=min_slov.ms_11_4)) and conference book of proceedings “Geochemia”. These articles are both available on the project website. In addition two abstracts were published in book of abstracts from International Symposium on Environmental Geochemistry held in Aveiro, Portugal. These are also both published on the project website.

The action is running without any problems encountered and in accordance with project schedule and intentions.

#### **4.1.19. Identification of problems**

The only one serious problem encountered during the project running so far. It was the missing approval of public tender for subcontractor of mathematical-statistical data elaboration (neural networks, fuzzy cluster analysis). According to project schedule and timetable public tender had to start in May 2012 and the selection of subcontractor for these works had to be closed in August 2012. So far we do not have any official approval from MŽP SR for this public tender. This situation will be solved through modification of work plan of project staff and movement of planned personnel capacities from this action to actions that are not dependent on public tender process (A5, A6). Geochemical works planned within these actions will effectively run without the need of results from action A4 up to August 2013.

#### **4.1.20. Completion of deliverables, milestones, significant indicators of progress and report foreseen**

The information about completion of planned deliverables, milestones and reports foreseen are summarized in tables below. We have included significant indicators of progress in planned “deliverables” and “milestones”.

All deliverables were completed in accordance with project timetable except of web page running – delay of 20 days. Following milestones were not completed in time: purchase of two PC (delay of about 20 days) and public tender for selection of subcontractor for calculation of neural network and fuzzy cluster analysis (deadline August 2012, not started yet).

### Deliverables products of the project

Name of the Deliverable	Code of the associated action	Deadline	Actual date
Website– running	C2	1/12/2011	20/12/2011
Dataset of environmental indicators in numeric and map form	A1	30/05/2012	20/05/2012
Dataset of health indicators in numeric and map form	A2	30/04/2012	20/04/2012
Datasets of environmental and health indicators divided according to geological environment and contaminated areas in numeric form	A3	30/11/2012	
Optimized datasets of environmental indicators and health indicators in text form – tables	A4	30/05/2013	
Assessment of impact of geological environment on health status of inhabitants – short report	A5	30/07/2013	
Elaboration of limit values for environmental indicators, tables	A5	30/08/2013	
Compilation of environmental-health regionalization of the Slovak Republic (maps, tables, short text)	A5	30/12/2013	
Delineation and characteristics of areas with unfavorable health status of inhabitants, maps, tables, short text	A5	30/01/2014	
Proposal of measures for reduction of negative impact of geological environment on health status of residents, text report and factsheet	A6	30/06/2014	
Publishing of results in international impacted magazines – 3 publications	C6	30/03/2015	
Proposal of list of environmental and health indicators and limit values of environmental indicators for implementation into Slovak legislatives, tables, factsheet	A7	30/04/2015	
Technical publications of project – monograph (in Slovak) and brochure (in English)	C6	30/06/2015	
Layman´s report	C3	30/07/2015	
Final report	B1	30/10/2015	
<b>Significant indicators of progress that should be included in “deliverables”</b>			
Notice boards – displaying	C1	01/12/2011	30/11/2011

## Milestones of the project

Name of the Milestone	Code of the associated action	Deadline	Actual date
Establishment of project management	B1	30/09/2011	20/09/2011
Establishment of Steering committee	B1	30/10/2011	20/10/2011
Purchase of 2 PC	A1	15/12/2011	10/01/2012
Completion of excerption of environmental data	A1	30/01/2012	15/01/2012
Completion of excerption of medical data	A2	28/02/2012	20/02/2012
Organization of workshop with international participation and agreement on methods of data elaboration	A3, A4	30/05/2012	30/05/2012
Selection of subcontractor for calculation of neural network and fuzzy cluster analysis	A4, A5	30/08/2012	
Linking of datasets on environmental and health indicators	A4	28/02/2013	
Organization of seminar (for Slovak participants)	C5	30/04/2015	
Organization of at least 10 informative meetings for public	A7	30/06/2015	
Organization of conference with international participation	C5	15/06/2015	
Organization of propagation seminar for administrative officers	C5	30/07/2015	
Project end	B1	30/08/2015	
<b>Significant indicators of progress that should be included in „milestones“</b>			
Press conference /Press release at the beginning of the project	C4	30/09/2011	20/08/2011
After – LIFE communication plan	B5	30/07/2015	
Audit	B3	30/09/2015	
Press conference at the end of the project	C4	30/09/2015	

## Report foreseen

Type of report	Deadline	Actual date
Inception report	30/12/2011	15/12/2011
Progress report n° 1	30/10/2012	
Mid-term report	30/08/2013	
Progress report n° 2	30/10/2014	
Final report with payment request	30/10/2015	

### 4.1.21. Progress of the project comparing with the timetable

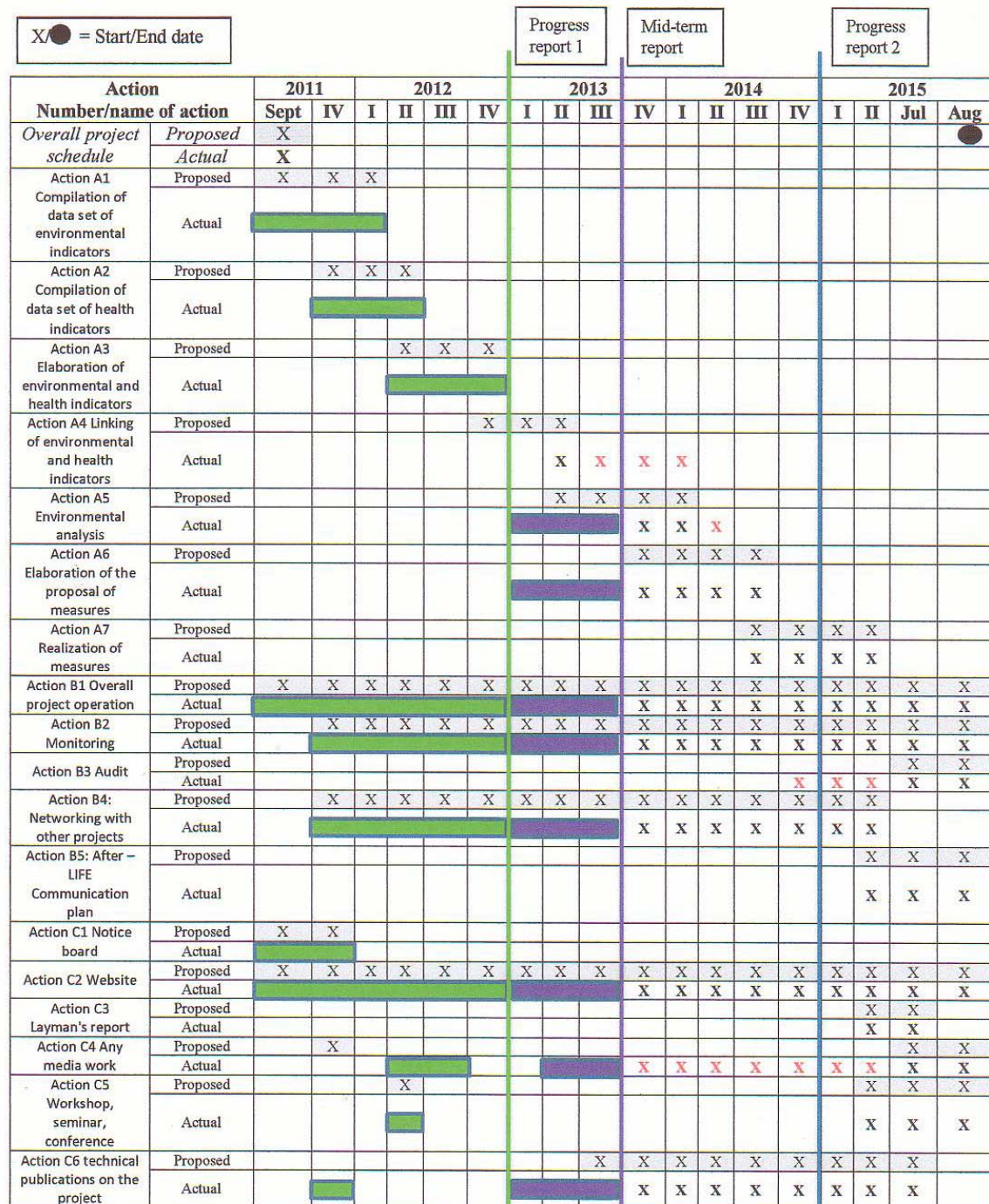
The project progress in planned actions (proposed/actual status) is illustrated on Gantt chart in chapter 4.2.

### 4.2. Envisaged progress until next report.

During the period up to mid-term deadline (30.08.2013) we will focus on completion of action **A3** (dataset division according to geological environment and contamination). In advance comparing with planned timetable we will start to work on actions **A5** (Environmental analysis) and **A6** (Elaboration of the proposal of measures). We will



continuously work on action **B4** (Networking with other projects) and **C6** (Technical publication). After realization of public tender within action **A4** (Linking of environmental and health indicators) we immediately start to work on completion of objectives of this action in accordance with planned project schedule. Works will be organized in such a way that we will be able to effectively utilize personnel capacities of technical staff on the project up to 30.08.2013 (mid-term report deadline). If up to this time public tender will not be realized (A4) we will ask European Commission for prorogation of the project with proposal of prolongation of the project running period depending on the actual situation. All planned actions are illustrated on Gantt chart below.



X – changes in time schedule

[Green bar] Completed up to the Progress report 1

[Purple bar] Continued up to the Mid-term report (next 9 months)

### 4.3. Impact

Project concept is based on following principles: first 3 years running and solving of technical (scientific) issues and last year after the completion of results their dissemination will follow. Then we will be able to evaluate project impact in objective manner.

Project impact can be expected from following reasons. Up to date in Slovakia there is missing relevant quantitative information on possible negative impacts of unfavourable geological environment on health status of residents except of significantly contaminated areas. Our project is based on realization of comprehensive identification of causes and possible negative effects of geological environment on health status of resident population. The realization of proposal of measures for minimizing of the impact of geological environment will be run in collaboration with not only administrative organs but also common inhabitants and mayors of concerned municipalities. Project impact can be expected and evaluated in 4 levels:

1. Community of professionals / experts,
2. Media,
3. Administrative organs,
4. Inhabitants, mayors of municipalities.

We are observing the first impact of our project on community of experts. We have already registered more than 10 requests, mainly from the foreign experts for publications and information on our project.

Media have shown interest in our project. Two newspaper articles presenting current results of the project were published. Other articles are in progress. We were also addressed request for short session by two Slovak national televisions. They had information about our project from the project website.

Administrative organs did not have interest in our project so far.

We have registered big interest in our project by the inhabitants and mayors of municipalities. We have more than 2900 views of our project website from the very beginning of the project (10 months of website running) and we suppose that the majority was this group of persons concerned in project objectives and results. In addition, we have registered at least 50 requests by e-mail, post and phone for more detail information about the environment and health status of residents in their municipalities.

Key impact indicators and their target values together with status of progress / completion up to date of the 1<sup>st</sup> progress report are summarized in table below.

#### Key impact indicators

Object of Impact		Type of impact	Target values	Status to 30/10/2012
Community of experts		Request for information on project, publications	50	10
Media	Newspaper	Newspaper articles	8	2
	Radio	Sessions	3	1
	Television	TV-shots	2	0
Administrative organs		Legislative proposals	1	0
Inhabitants, mayor of municipalities		Website information	10 000	2 900
		Direct phone, post, e-mail requests	500	100

**Indirect impact** was not observed at this moment of project running.

#### **4.4. Outside LIFE**

Based also on our project an international project is now in preparatory phase: “Assessing individual exposure to environmental stressors” within Call FP7-ENV-2013-two-stage. This project is prepared and managed by prof. Benedetto de Vivo and is participated also by the project team of GEOHEALTH together with other 5 EU countries.

### **5. Financial part**

#### **5.1. Costs incurred**

The incurred costs during the first year of project running are on the level 10.9% of total budget. This is conditioned by the fact that first 3 actions running during the first year of project running were budgeted with lower costs. During the second year of project running the start of action **A4** (Linking of environmental and health indicators) is planned with budgeted costs about 25% of total costs. We suppose that up to deadline of mid-term report we will exceed the threshold value 30% of total costs. We do not find necessary any budget modification.

All costs incurred in table below are dated to 31.08.2012, i.e. they are finalized and closed in accounting system.