Capacity building in the field of environmental health

1. Basic Information
1.1 CRIS Number: 2005/017-488.03.02

Twinning No.: PL2005/IB/EN/02

1.2 Title: Capacity building in the field of environmental health
1.3 Sector: Education in Environmental Health
1.4 Location: Poland

2.1 Objectives
The main objective of the project is to strengthen the national system of education and training in the field of environmental health compatible with the European Environment and Health Strategy and Action Plan adopted recently by the European Commission as well as to strengthen the national system of Environmental Health Impact Assessment. The long-term objective is to promote health and quality of life free from the diseases and injuries caused by the environmental conditions.

2.2 Project purpose:
Creation of the modern, professional system of trainings, dealing with the priority and new training problems in the field of environmental health, and creation of the solid basis for the national information system in environmental health.

2.3 Justification

European Community Treaty
Chapter 13, article 152, Public Health: When determining and realizing all policies of the Community the high level of protection of human health is being ensured.
Policy of the community, which is completing the national policies, is referred for the improvement in the public health, preventing diseases as well as removing sources of threats to human health.

Chapter 19, article 174, Natural Environment: Policy of the Community in the field of natural environment contributes to reach the following purposes:
- preserving, protection and improvement of the natural environment quality;
- protection of human health […]

The Comprehensive Monitoring Report on Poland’s preparation for membership
Chapter 13, Social and employment policy: In the field of public health […] it is necessary to continue the policy aiming at improvement of human health as well as to allocate adequate funds on health. […] Moreover it is necessary to put special attention at the further adjustment in the field of occupational safety and hygiene and public health.
Chapter 22, Environment: Acquis contains over 200 acts embracing horizontal legislation, water and air pollution, waste disposal […] risk management, noise and radiation protection. Improvement of compatibility with acquis […] brings also perceptible benefits in relation to public health.
Horizontal legislation which is compatible with acquisacquis has been implemented except the last Community acts referring to the strategic environmental impact assessment.
Capacity building in the field of environmental health

Council Decision on the principles, priorities, intermediate objectives and conditions contained in the Accession Partnership with Poland

Social policy and employment
- align the national system for surveillance and control of communicable diseases and health monitoring and information with those of the Community

Environment
- continue strengthening the administrative, monitoring and enforcement capacity at national, regional and local level, with particular emphasis on permitting and planning and the establishment of the institutional structures to implement directives in the field of chemicals as well as in the field of nature protection
- continue the integration of environmental protection requirements into the definition and implementation of all other sectoral policies with a view to promoting sustainable development.

Comprehensive Monitoring Report on the candidate countries – 2004

The European Parliament:
Ten acceding countries […]
21. Observes that, in parallel to their impressive economic achievements, some new Member States have also experienced a significant increase in unemployment, inequality, and social exclusion; insists that these issues be further addressed and that the situation should gradually improve through sustained investment in social and economic policies, education and health;

Poland […]
126. Notes the plan to reform the health care system, the operation of which has, in recent years, been sharply criticized and caused disquiet within Polish society; hopes that the new reform will serve to reconcile the standard of health care needed in the interest of patients with the requirements of sound economic management;

Environmental health links the different aspects of the human life, not only in the field of medicine, but also environmental protection, social aspects (e.g. poverty, conditions of life which also concerns the problem of unemployment), psychical aspects and economy. The education in the environmental health that will create experts having knowledge on the health impact of natural, social, mental components of the human life’s environment is the step in the process of sustainable development.

3. Description
3.1. Background and justification:
Component 1: Series of trainings in environmental health
From its beginning European Union environmental policy have been driven primarily by health considerations. Poland has been following this direction from the late 1980s. Although many environment and health related problems – especially focused on environmental problems, have been solved, but still much remains to be done – especially in the field of public health in relation to environment. It is estimated that about 20-33% of the total burden of diseases in industrialized countries can be attributed to environmental factors. The interactions between environment and health are far more intimated and complex than it is commonly understood. In order to identify and solve environmental health problems it is necessary to train environmental health professionals and educate all stakeholders to use available knowledge in the assessment, prevention and control of health hazards and damages related to the environment.
Capacity building in the field of environmental health

Education in the field of environmental health becomes the global need and priority aiming to achieve healthier societies, more aware of the health problems related to different environmental factors and also healthy behavior to avoid them. The deficit of environmental health professionals is a real problem in Poland, especially in the public administration responsible for the national, regional and local policy in this field. The idea of organizing several harmonized long-term and short-term trainings in the field of environmental health has been set up to improve this situation. Building the training and educational system in the field of environmental health is of key importance in Poland. The lack of health professionals in environmental medicine as well as lack of non-health professional specialists in environmental health issues is notified. In the conditions of the permanent presence of environmental health hazards in everyday life it is necessary to create the system of training of the experts prepared to diagnose, treat and prevent diseases caused by the environmental pollution and to deal with any environmental health problems.

The component 1 of the project would be necessary to: (1) prepare experts and specialists in the field of environmental health for the public health administration on central, regional and local levels, the control and supervision institutions as well as for research institutes dealing with impact of environment and health, (2) train all partners involved in actions on environment and health, (3) build training capacities - the special emphasis should be put on training the trainers in environmental health who will strengthen the system of education in the field of environment and health.

Component 2: Trainings in health impact assessment

Health Impact Assessment is a combination of procedures, methods and tools by which a policy, programme, projects or legislative procedure may be judged for its potential effects on the health population, and the distribution of these effects within it. The other main component of this fiche is a complex training in environmental health impact assessment. The Polish Environmental Protection Law puts special emphasis on the human health aspects of Environmental Impact Assessment. Although sufficient expertise exists (either in governmental or private sectors) in the environmental context (EIAs), there is lack of properly trained personnel in the area of Environmental Health Impact Assessment (EHIA). Moreover, the aforementioned Act has laid extra responsibilities to the Chief Sanitary Inspection and its local agencies. To comply with the Polish and EU regulations on Environmental Impact Assessment it is necessary to develop the knowledge and skills in the Health Impact Assessment within the Environmental Impact Assessment among the health and environment administration responsible for the judgement of health impacts in EIA obligatory reports that are the basis of any investment undertakings.

This component is planned as the continuation of the previous Phare Twinning Light project on Strengthening Environmental Health Impact Assessment PL01/IB/OT05-TL realized by the Institute of Occupational Medicine and Environmental health together with the Dutch partners from January to July 2004. The six months period of this project was too short time to cover all important issues needed in the process of the judgement of health issues in the EIA reports. It is also necessary to enlarge number of the specialists to be trained in the Environment Health Impact Assessment.

The Institute of Occupational Medicine and Environmental Health in Sosnowiec is the localization of the trainings of both components. The Institute is well prepared to undertake this mission:

Environmental health is the main statutory field of the Institute’s activities.
Capacity building in the field of environmental health

The Institute acts as the coordinator of the Governmental Programme “Environment and Health”

The Institute, situated in the region of the highest concentration of environmental health problems in Poland, has many years scientific and training experience in this field

The Institute of Occupational Medicine and Environmental Health has well-developed clinical facilities and infrastructure in environmental medicine – the Outpatient Clinic for Environmental Medicine which is the only one in Poland

Since 1993 the Institute of Occupational Medicine and Environmental Health has been functioning as the WHO Collaborating Centre on Environmental Pollution/Health Impact Assessment and Training in Environmental Health

In the years 1993-1996, within the framework of the Project sponsored by the Government of Poland, WHO, Dutch Government, the Institute trained a team of environmental physicians within post-graduate studies in Poland and abroad

The Institute participates in the European Union project on development of new methodologies and techniques of training in the field of environmental health, including multi-media and inter-active teaching methods

The Institute has been actively participating in the works on European Environment and Health Strategy and its Action Plan

The Institute co-realized the Twinning Light Project on Strengthening Environmental Health Impact Assessment PL01/IB/OT05-TL, January-July 2004.

Polish Contribution:

Long-Term Governmental Programme “Environment and Health”

On the basis of analysis of environmental health actions and evaluation of their implementation progress, the set of the most urgent priority tasks has been determined and developed as the Long-Term Governmental Programme “Environment and Health”, the implementation programme of the NEHAP in Poland. It is the first horizontal programme jointly developed and implemented by the Minister of Health and Minister of Environment in Poland, with participation of the Ministry of Science and economic sectors.

The Programme was launched in 2000 following the decision of the Economic Committee of the Cabinet and it was formally commenced by the Council of Ministers on the 5th of June, 2001 for the period 2000-2003. The Programme is currently subject to revision, up-dating and extension up till 2006, focusing mainly on the accession priorities of Poland. The Governmental Programme “Environment and Health” covers the implementation actions oriented towards the development of efficient system for prevention of environmental health hazards through integration of actions aimed at reduction of environmental pollution and elimination of negative health effects in the population of Poland.

The activities of the Programme have so far focused, among others, on the following tasks:

1. Introduction of environmental health issues into the sustainable development strategy of the country.
2. Information system on environment and health for environmental health management and public information.
3. Promotion of actions for environment and health aimed at stimulation of national, local and sectoral actions as well as development of public participation in these activities.
4. Methodology of environmental health impact assessment within environmental impact assessment and strategic environmental impact assessment – the National Reference Centre on Environmental Health Impact Assessment has been established.
Capacity building in the field of environmental health

5. Medical prevention of health effects of exposure to environmental hazards.
6. Education and training in the field of environmental health for health and environment administration, health and environment inspections as well as for primary care physicians – the Environmental Health Training Centre has been established.

The “Environment and Health” Programme has its own budget and implementation plan. The implementation actions of the Programme are financed by the Ministry of Health and Ministry of Environment. The Long-Term Governmental Programme” Environment and Health” has been developed and is implemented in fulfillment of the international obligations of Poland resulting both from the EU accession process.

These projects will strengthen implementation of *aquis communautaire* – mainly focusing on:
- Aarhus Convention 1998 on public information
- Espoo Convention 1991 on environmental impact assessment

and:
- Communication from the Commission to the Council, the European Parliament and the European Economic and Social Committee on European Environment and Health Strategy, June 2003

3.2 **Linked activities:**
Phare-Cesar: Relationship between Air Quality and Health in Phare countries, the project was being realized in the years 1997-1999
Phare Twinning: Strengthen Environmental Impact Assessment, PL2000/IB/EN/01
Phare Twinning Light: Strengthen Environmental Health Impact Assessment, PL01/IB/OT05-TL
CRE–Copernicus Project: Application of modern training methods in environmental health teaching at universities in Central and Eastern Europe
5th EU Framework Programme- PATY: Pollution and the Young: Combined Analysis of Cross-sectional Studies of Respiratory Health of Children and Air Pollution - 5th EU Framework Programme- CHILDRENENOTOX: European Network on children’s susceptibility and exposure to environmental genotoxicants
6th EU Framework Programme-MULTIMEH: Implementation of Multimedia and Interactive Methods in EH Education and Training
EU Public Health Programme: Implementing Environment and Health Information System in Europe – under consideration
Long-Term Governmental Programme “Environment and Health”
Capacity building in the field of environmental health

3.3 Results:
(1) the system of professional education of specialists in the field of environment and health compatible with the European Environment and Health Strategy and its Action Plan established
(2) the group of environmental health specialists - medicals and non-medicals – trained and prepared to work in the field of identification and assessment of environmental health hazards as well as methods of prevention and protection of health damages related to environment within the national, regional and local administration.
(3) the group of experts in health impact assessment trained and prepared to contribute HIA to the process of judgment of Environmental Impact Assessment
(4) the national system of health impact assessment as the component of Environmental Impact Assessment and Strategic Environmental Assessment improved and strengthened
(5) the group of trainers in the field of environmental health established and involved in further building of environmental health educational system through their active participation in the training programmes.
(6) the educational materials in environmental health and environmental health impact assessment prepared in the printed and electronic form
(7) information and promotion campaign including website established.

3.4 Activities:
Contract 1. Twinning - Trainings in the field of environmental health

The professional education programme is addressed to medical university graduates and also to non-medical ones in public health, biology, environmental and social sciences and the others.

The trainings in environmental health impact assessment are mainly addressed to the representatives of sanitary and environmental protection inspections, regional and local environment and health administration and representatives of other institutions and sectors dealing with environmental health problems.

The long-term trainings are addressed mainly to the management of environment and health administration, environmental and sanitary inspections dealing with the process of decision-making in the field of environment and health. Within the long-term trainings the group of trainers – in the field of environmental health and environmental health impact assessment - to be trained will be selected and prepared to carry out the training sessions.

The training of trainers aims at the building of the environmental health education capacity especially on the regional and local level. The trainers should be able to organize the training sessions and train the groups of regional and local environment and health administrative workers dealing with the problems of environmental health including environmental health impact assessment issues. [Result 5]

The long-term trainings in environmental health will focus mainly on: [Results 1,2]
- concept of environmental health, organization of environment and health services in Poland and in Europe
- legislation in environmental health and its implementation
- environmental health hazards and sources of exposure to environmental factors
- environmental pollution – definitions, assessment and measurement methods, their influence on health etc.
- environment related diseases
Capacity building in the field of environmental health

- environmental epidemiology
- environmental health impact prevention
- risk communication and information
- environmental health promotion,
- international cooperation in the field of environmental health
- software and methods of analyzing the environment and health data.

The programme for trainers will put special emphasis on educational and communication skills. It will also include some aspects of the environmental health impact assessment.

The short-term courses are addressed to the representatives of the regional and local environment and health administration as well as the representatives of environment and health supervising institutions, industry, mass-media etc.

The short-term courses will focus mainly on:
- concept of environmental health
- law regulations in the field of environment and health
- identification and assessment of environmental health risk
- environmental health impact prevention
- information and public communication on environmental health hazards
- software and methods of analyzing the environment and health data.

It is expected that about 20 persons will be trained in the long-term training (6 months training every weekend or every second weekend – depends on organization of the training) and 120 – 150 persons in short-term trainings within the component 1 (trainings in environmental health).

It is expected that about 20 persons will be trained as the trainers in environmental health. The trainers will be involved in carrying out some of the short-term training sessions. They will also be involved in the preparation of the scope of the long-term training programmes.

The trainings in environmental health impact assessment will focus mainly on: [Results 3,4]
- basic principles of health risk assessment
- assessment of exposure to hazardous factors
- EIA legislation
- SEA legislation
- EIA procedures
- SEA procedures
- Incorporation of health aspects into EIA
- Methodology of EIA/HIA
- Role of health indicators in HIA
- Public participation in EIA/SEA
- Software used in EIA/SEA report review

Within the component 2 (trainings in environmental health impact assessment) about 300 persons will be trained in the short-term courses.

The trainings will be provided in the form of lectures, seminars, workshops, practical trainings and laboratory practice.

Preparation and publishing some educational materials such as: manuals, guidelines etc. for the trainings’ participants would be necessary to implement the project. These materials should also be available in the electronic form. The project will also include preparation of the website concerning the subject of environment and health.
Within the project it will be necessary to provide the RTA with the computer facilities. Training programmes will be based on relevant computer software especially in the field of statistics, analysis, epidemiological studies etc. Purchase of this software is necessary for the effectiveness of the training courses. The cost of the purchasing the computer equipment and the necessary software will be covered within the national co-financing.

**Resident Twinning Adviser (RTA)**

**RTA’s profile:**
- university degree in the field relevant to environment and health issues
- practical working experience in the field of environmental health
- good management skills
- fluency in English

**RTA’s function and tasks:**
- assistance in defining and preparations of plans and programmes of the trainings
- assistance in the trainings’ participants recruitment
- analyzing of the specific training needs of the health and environment administration
- assisting in establishment cooperation with the relevant units of European Commission, EU agencies, environmental health centers in the Member States
- analyzing the changes in the national activities in the field of environment and health following the project implementation
- assistance in the national process of incorporating the health aspects into EIA
- assistance in the preparation and implementation of the information campaign concerning the problems of environmental health, activities in this field including trainings provided within the project.

More specific tasks of the RTA will be described in the Terms of Reference prepared after the fiche is accepted.

**Experts’ profile:**
- university degree in the field relevant to environment and health issues
- theoretical and practical knowledge of the issues related to environment and health legislation, organization and functioning of environmental health services in European Union, sources of exposure to environmental factors, environmental pollutants, environmental health risk assessment and environmental health impact assessment, environment related diseases, environmental epidemiology, prevention of health effects of environmental pollution, public information and communication, environmental health promotion,
- practical working experience in the field of environmental health
- good training skills
- fluency in English.

**Experts’ tasks:**
- cooperation with RTA on the trainings programmes preparation
- preparation of lectures, presentation, practical exercises, laboratory exercises etc.
- preparation of educational materials to be published and distributed among trainings participants
- preparation of the website concerning the subject of environment and health
- training of participants
Capacity building in the field of environmental health

- assistance in the preparation and implementation of the information campaign concerning the problems of environmental health, activities in this field including trainings provided within the project.

Contract 2: Technical assistance [Results 6,7]

Tasks to be implemented:
- identification of the groups of the society that information-promotion campaign will be addressed to
- creation of the network of environment and health stakeholders
- preparation of the plan of the media campaign and public awareness activity
- conducting the media campaign in the field of environmental health
- preparation of the promotional materials (booklets, leaflets, publications etc.)
- distribution of the materials
- creation of the website
- creation the guidelines on environmental health
- creation the guidelines on environmental health impact assessment
- survey on the effects of public awareness raising process and media campaign.

3.5 Lessons learned:
The lack of well trained specialists in environmental health in Poland and the necessity of organizing series of trainings in that field has been often expressed not only by the environmental health professionals, but also other stakeholders (like administration, industry, NGOs) whose activity regards environmental health issues. These problems and recommendations were postulated by the parties interested in the subject during the realization of the long-term governmental programme “Environment and Health” and the WHO/DEPA Project on Implementation of National Environmental Health Action Plans when several meetings with the different stakeholders were held. The training needs were also underlined during the meeting of regional environment and health authorities within the 1st Conference on the European Environment and Health Strategy organized by IOMEH together with European Commission in Warszawa, October 2004.

The training in environmental health issues needs are also concluded from the national and international projects implemented by IOMEH as Phare projects or projects realized within 5th and 6th Framework Programme of European Union, EU Public Health Programme and national Long-Term Governmental Programme “Environment and Health” that focused on the problems of environmental health factors in relation to research in that field, methodology, information, education and prevention. The education in environmental health creates the basis for establishment of environmental health specialty – this idea was presented by the Institute and received the positive opinion from European Union. This idea of conducting speciality trainings in environmental health is one the recommendations worked out during the Conference on Implementation of EU Action Plan, held in The Netherlands in December 2004.

It is also necessary to continue education in the field of environmental health impact assessment that was the subject of the previous twinning light project realized with the Dutch partners by the Institute of Occupational Medicine and Environmental Health. This recommendation is included in the final report of the project: The process of Twinning Light project was done in half a year. It was clear that during this period not all aspects of environment and health could be covered. In relation to general work on health and environment issued a broader scope of topics should be scheduled for training (Sosnowiec, July 7th, 2004).
Capacity building in the field of environmental health

During the final workshop within Twinning Project the national EIA/HIA experts expressed the necessity of improvement of the Polish education system in this field.

4. Institutional Framework
The Project will be co-ordinated by the Ministry of Health through the Institute of Occupational Medicine and Environmental Health in Sosnowiec as the beneficiary institution.

The unit responsible for the implementation of the project: Institute of Occupational Medicine and Environmental Health, 13 Kościelna Street, 41-200 Sosnowiec, Poland. Tel.: +48 32 2669838, Fax: +48 32 2660220, e-mail: j.pruchnicka@imp.sosnowiec.pl

The following Polish institutions will also benefit from the project activities:
- Ministry of Environment (in particular: Department of Environmental Protection and Office of Education and Public Relations),
- Ministry of Economy, Ministry of Agriculture and Rural Development, Ministry of Infrastructure,
- Regional and Local Governments (in particular: Regional Health Departments, Regional and Municipality Environmental Departments),
- Public health centres.

5. Detailed Budget

<table>
<thead>
<tr>
<th>Transition Facility Support</th>
<th>Co-financing</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investme nt Support</td>
<td>Institutio nal Building</td>
<td>Total TF</td>
</tr>
<tr>
<td>Contract 1 - Twinning</td>
<td>900.000</td>
<td>900.000</td>
</tr>
<tr>
<td>Contract 2 - TA</td>
<td>430.000</td>
<td>430.000</td>
</tr>
<tr>
<td>Total</td>
<td>1.330.000</td>
<td>1.330.000</td>
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</tbody>
</table>

(*) contributions from National, Regional, Local, Municipal authorities, FIs loans to public entities, funds from public enterprises  
(**) private funds, FIs loans to private entities

The amount for co-financing for Contract 1 is entirely parallel co-financing. All costs for study visits outside Poland as part of the Twinning will be borne by the beneficiary country.

Contract 2 is jointly co-financed.

In the case of Joint Co-financing, where the final overall cost is lower than foreseen in the project fiche, the National Public and Transition Facility Co-financing are reduced proportionally so as to maintain the agreed rate of co-financing. In the case of Parallel Co-financing, where the final cost is lower than foreseen in the project fiche, it must be shown that the overall objectives of the project have been fully achieved.

6. Implementation Arrangements
6.1 Implementing Agency
CFCU: Cooperation Fund, ul. Górnośląska 4A, 00-444 Warsaw, tel. +48 22 622 00 31, fax +48 22 622 95 69.

PAO: Mr Tadeusz Kozek, Under-secretary of State, Office of the Committee for European Integration, Al. Ujazdowskie 9, 00-918 Warsaw, tel. (48 22) 455 52 41, fax (48 22) 455 52 43

6.2 Twinning:
The project will be implemented according to the procedures of twinning. Transition Facility support will cover the costs of RTA stay in Poland that should last 16 months. National co-financing will cover the expenses regarding training rooms renting, equipment, services necessary to organize trainings.

The beneficiary institution is the Institute of Occupational Medicine and Environmental Health, Sosnowiec, Poland. The contact person is Joanna Pruchnicka, tel. +48 32 2669838, fax: +48 32 2660220 m e-mail: j.pruchnicka@imp.sosnowiec.pl

6.3 Non-standard aspects
N/A

6.4 Contracts
Twinning – Transition Facility 900 000 € + Polish co-financing 100 000 €
TA – Transition Facility 430 000 € + Polish co-financing 20 000 € – joint co-financing – gross value

7. Implementation Schedule
Tender commencement: 4th quarter of 2005
Project commencement: 2nd quarter of 2006
Project completion: 3rd quarter of 2007

8. Sustainability
The beneficiary institution will nominate responsible persons (National Project Manager, Senior Project Officer) to ensure the effectiveness and compatibleness with the work plans of running projects. Co-financing of the projects should be foreseen by the Ministry of Health.

9. Conditionality and sequencing
Key activities are sequenced as follows:
1. Preparation of Terms of Reference for both projects on series of long-term and short-term trainings in environmental health and on trainings on environmental health impact assessment
2. Collecting and preparation of relevant educational materials
3. Preparation of detailed programmes (weeks/ days/hours) of the long-term and short-term trainings
4. Recruitment of the participants
5. Trainings
6. Practical application of knowledge and skills in the research centres in Member State
## Annex 1: Logframe matrix

### LOGFRAME PLANNING MATRIX FOR THE PROJECT

<table>
<thead>
<tr>
<th>Programme name and number</th>
<th>Contracting period expires</th>
<th>Disbursement period expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project: <strong>Capacity building in the field of environmental health</strong></td>
<td>4th quarter 2007</td>
<td>3rd quarter 2008</td>
</tr>
<tr>
<td>Total budget</td>
<td>1 450 000 euro</td>
<td>Transition Facility Budget 1 330 000 euro</td>
</tr>
</tbody>
</table>

### Overall objective

Strengthen the national system of education and training in the field of environmental health compatible with the European Environment and Health Strategy and Action Plan adopted recently by the European Commission as well as to strengthen the national system of Environmental Health Impact Assessment. The long-term objective is to promote health and quality of life free from the diseases and injuries caused by the environmental conditions.

<table>
<thead>
<tr>
<th>Objectively Verifiable Indicators</th>
<th>Sources of Verification</th>
</tr>
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</table>

### Project purpose

Creation of the modern, professional system of trainings, dealing with the priority and new training problems in the field of environmental health, and creation of the solid basis for the national information system in environmental health.

<table>
<thead>
<tr>
<th>Objectively Verifiable Indicators</th>
<th>Sources of Verification</th>
<th>Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Establishment of long-term and short-term trainings Building of training capacities Involvement of health and environment administration Improvement of the procedures of health impact assessment in the process of judgment</td>
<td>Quarterly project reports Interviews with the representatives of the administration dealing with environmental health issues IOMEH’s report on the improvement of health impact assessment improvement</td>
<td></td>
</tr>
</tbody>
</table>

### Results

1. the system of professional education of specialists in the field of environment and health compatible with the European Environment and Health Strategy and its Action Plan established

<table>
<thead>
<tr>
<th>Objectively Verifiable Indicators</th>
<th>Sources of Verification</th>
<th>Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 190 professionals in the field of environmental health trained 2. 20 trainers in the field of</td>
<td>1. Quarterly projects reports 2. Training assessment sheets</td>
<td></td>
</tr>
</tbody>
</table>

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**Capacity building in the field of environmental health**
## Capacity building in the field of environmental health

2. The group of environmental health specialists - medicals and non-medicals – trained and prepared to work in the field of identification and assessment of environmental health hazards as well as methods of prevention and protection of health damages related to environment within the national, regional and local administration.

3. The group of experts in health impact assessment trained and prepared to contribute HIA to the process of judgment of Environmental Impact Assessment.

4. The national system of health impact assessment as the component of Environmental Impact Assessment and Strategic Environmental Assessment improved and strengthened.

5. The group of trainers in the field of environmental health established and involved in further building of environmental health educational system through their active participation in the training programmes.

6. The educational materials in environmental health and environmental health impact assessment prepared in the printed and electronic form.

7. Information and promotion campaign including website established.

### Objectively Verifiable Indicators

<table>
<thead>
<tr>
<th>Contract 1 – Trainings in the field of environmental health</th>
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<tbody>
<tr>
<td>Organization of long-term training in the field of environmental health mainly addressed to the management of environment and health administration, within which the group of trainers to be trained will be selected and prepared to carry out the training sessions (about 20 persons). Organization of short-term courses in the field of environmental health addressed to the representatives of the regional and local environment and health administration and the representatives of environment and health supervising institutions, industry, mass-media etc. (120-150 persons) Organization of short-term courses in the field of environmental health impact assessment addressed to the health and environment administration responsible for the</td>
</tr>
<tr>
<td>Contract 1 – twinning: 1 RTA and several short-term experts, purchasing the computer equipment and the necessary software Contract 2 – technical assistance: several short-term experts</td>
</tr>
<tr>
<td>Quarterly projects reports Publications on environmental health issues in media Survey on the effects of public relations campaign</td>
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</table>

<table>
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<th>Sources of Verification</th>
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## Activities

1. The group of environmental health specialists - medicals and non-medicals – trained and prepared to work in the field of identification and assessment of environmental health hazards as well as methods of prevention and protection of health damages related to environment within the national, regional and local administration.

2. The group of experts in health impact assessment trained and prepared to contribute HIA to the process of judgment of Environmental Impact Assessment.

3. 300 professionals in the field of health impact assessment trained.


5. Public promotion and information system on environmental health and other environment and health issues improved.

6. Administration procedures in environmental health and health impact assessment compatible with the regulations of EU.
**Capacity building in the field of environmental health**

- Judgment of health issues in EIA obligatory reports (about 300 persons)
- Preparation and publishing educational materials such as manuals, guidelines etc. for the trainings’ participants (also available in the electronic form)
- Preparation of the website concerning the subject of environment and health.

**Contract 2: Technical support**
- Public awareness campaign and media campaign

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<th>Preconditions</th>
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<td>Implementation schedule</td>
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<td>-------------------------</td>
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<tr>
<td>D D D/ D/C C/I I I I I</td>
</tr>
</tbody>
</table>

**Key:**
D = design of sub-project
C = tendering and contracting
I = contract implementation and payment
* show amounts in Meuro increasingly

**Annex 2-3: Implementation, contracting and disbursement schedule**

<table>
<thead>
<tr>
<th>Environmental Health Capacity Building</th>
<th>Date of Drafting</th>
<th>Planning period</th>
<th>Budget Allocation Cost Estimate (in MEUR)</th>
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*(1) (2) (3)*