

Sustainability Mechanisms

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9-1 Introduction

In the framework of HEEPF management concern for the first phase financed projects which achieved all the contracted outcomes, completed their implementation by the end of the contracting period, and were delivered to the university administration, this chapter deals with the mechanisms HEEPF management identified to guarantee the sustainability and monitoring of these projects after their hand over to achieve the desired result. That is, the enhancement of the education and research process in governmental universities and higher institutes to serve similar individuals and institutions, and all the surrounding community members.

This chapter reviews the mechanisms that were identified by HEEPF management in the following sections:

Sections 9.1 and 9.2: They deal with the concept of sustainability and HEEPF management and the university monitoring mechanisms during and after projects' hand over. These mechanisms are represented in monitoring the continuity of project activities in the academic framework, the field of activity implementation, the establishment of centers of excellence, and gaining new financing sources. It is worth noting that the mechanisms of projects sustainability represented in gaining new finance resources are based on three basic directions that aim at serving the community and environment. They are reviewed with examples in the following three sections of this chapter.

Section 9.3: It presents the protocols signed between the projects and other parties that contribute in activating the use of the projects' activities and outcomes after delivery.

Section 9.4: It deals with the efforts exerted for the establishment of an institutional identity, i.e. special units, that ensures the sustainability of the projects' activities after hand over.

Section 9.5: It deals with the ideas the projects' managers introduced for new projects that are considered an extension and continuation of the original HEEPF financed project activities presenting them to different financing parties.

Section 9.6: It presents a brief idea of the risks that may face the sustainability of the projects after their hand over to the university administration and the points that have to be followed and taken into account to face such risks.

Section 9.7: It presents a summary as well as the procedures and recommendations proposed by HEEPF management which recommends their activation to achieve the desired benefit of the projects.

The chapter concludes by giving examples of the achievements done to maintain the sustainability of the projects after their hand over such as the protocols signed between the projects and other parties.

9.2 General Framework of Monitoring Sustainability

Maintaining the outcomes of the projects and the goals they successfully achieved was a principal motive for HEEPF management to give special concern for the projects that were hand over after their contracting period. This is represented in ensuring their sustainability after their handed over, which serves the university personnel and similar concerned

institutions in the field of the project as well as the whole community members. Hence, the sustainability of the projects can be defined as measuring the project ability to continue offering its services and achieving its goals as time passes by.

Out of this concern, HEEPF management identified the sustainability mechanisms that include field visits to monitor the projects after their hand over with a rate of one visit every six months from the date of the project hand over. For this reason, HEEPF management decided that a university committee to monitor the sustainability of the projects should be formed by the university president and the UPMU manager to monitor the projects during a year after their hand over. The committee includes:

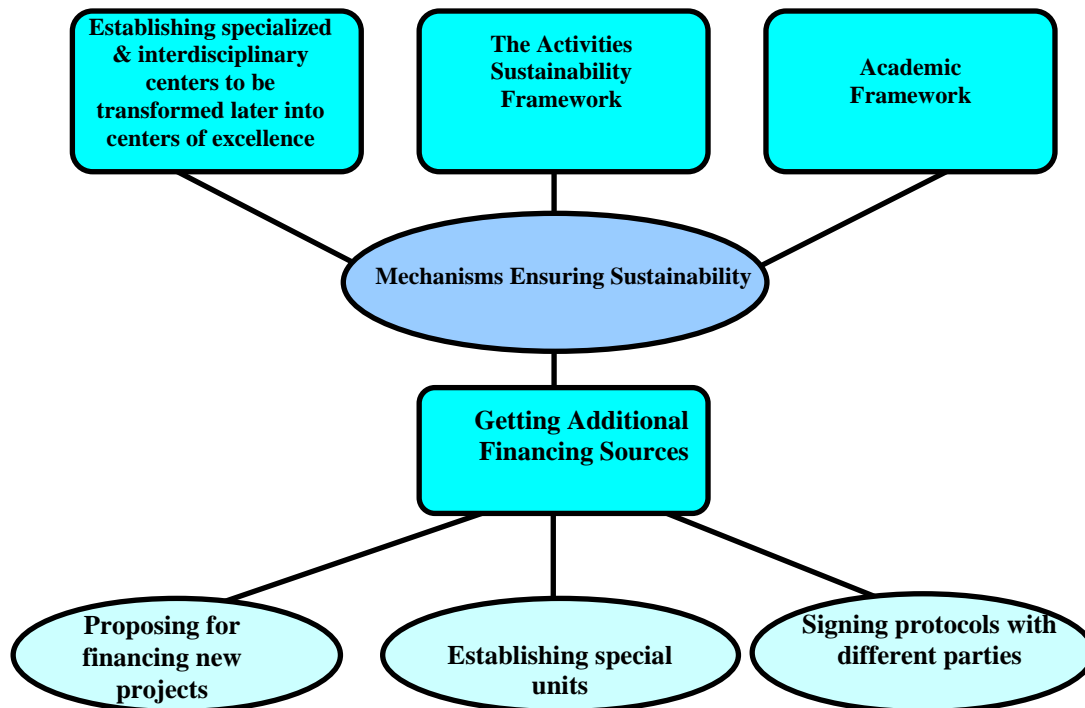
- A member from the university
- A member from the department/faculty
- The project manager (or the deputy charged by the university)
- Other members the university sees the necessity of their joining to project sustainability monitoring committee

In fact, serious steps have been taken towards the formation of the projects sustainability monitoring committee by the university. Besides, HEEPF monitoring committees made visits to monitor the sustainability of the projects that have been handed over for more than six months earlier using a form prepared by HEEPF management under the title of "Evaluating the Sustainability Mechanisms of HEEPF Financed Projects". It is worth noting that the most important factors HEEPF management takes into consideration and seeks to follow up in the year after the hand over of the projects are the steps taken and implemented towards the following items:

1. Forming a projects monitoring committee by the university to maintain the sustainability of the projects activities after their hand over to the university
2. The percentage of lab occupancy and use of the equipment purchased by the project budget
3. The percentage of financed offered by the faculty or other parties to ensure the project sustainability
4. The number of participants in the implementation of the project activities and beneficiaries inside and outside
5. The implementation of the activities included in the sustainability plan presented to HEEPF management upon handing over
6. Maintenance of the equipment purchased by the project budget during the period of sustainability
7. Giving a new view of sustainability for the second year after the hand over of the project
8. Measuring the effect of the project on the enhancement of the education process and community service
9. Expanding the activities that aim at spreading dissemination and awareness of the project and its activities during the period of sustainability
10. The adequacy of the place devoted to the implementation of the project sustainability plan
11. The measures taken to ensure the quality of the project outcomes and the new outcomes included in the sustainability plan
12. Exchanging experiences and activating cooperation with the parties concerned with the field of the project inside and outside the faculty and between the project and other enhancement projects and the business and industrial sectors
13. Studying risks that face the projects sustainability and consequences

9.3 Mechanisms of Monitoring Sustainability

Fig. (9-1) presents the mechanisms necessary for ensuring the sustainability of HEEPF financed projects that are based on the following four basic directors:



9.3.1 Academic Framework

In the academic framework, HEEPF financed projects succeeded in changing and developing the curricula of both the undergraduate and postgraduate stages. The developed courses were included and new departments that adopt new specializations were established through the outcomes of the projects. For example, in the academic framework, the following has been accomplished:

- Developing the postgraduate curricula of the faculties in Alex. Univ. through Project (A-050-H0) in Alex. Univ. Through this project, the postgraduate curricula of 25 faculties changed from the one term system to the credit hour system. Students will be able to register electronically in these faculties through a special software program prepared through the project activities. The program will be activated starting from the next academic year 2007/2008.
- Developing the postgraduate curricula of the faculties in Helwan and Menoufyia Universities through Project (B-132-K0) in Helwan Univ. Through this project, new postgraduate curricula of 14 faculties in Helwan Univ. and 3 faculties in Menoufyia Univ. and new undergraduate curricula of two faculties in Helwan Univ. were approved. It is worth noting that other curricula in Assiut, Sohag , Minia Universities and higher institutes have been changed.

9.3.2 The Activities Sustainability Framework

Section 9.1 of this chapter explained this framework. However, it is necessary to confirm the following points:

- The existence of a sustainability plan in the original project proposal on which the contract was based.

One of the conditions is to get the necessary approvals to purchase the components that require periodical expenses so that the education institution should shoulder all the expenses after the end of the project such as buying a telephone line, subscribing to ADSL service for labs, subscribing to international periodicals, or digital subscription as is the case in the following projects: Project (A-060-P1) in the field of Pediatrics in Sohag , Project (C-014-Q0) in the field of medical education in Suez Canal Univ., Project (C-066-I0) in the field of Clinical Pharmacy in the Faculty of Pharmacy, Assiut Univ., and Project (A-109-K0) for digital libraries in Helwan Univ. which subscribed to electronic periodicals through the project finance.

- The project management team should present an action plan for the project sustainability in the hand over report.

9.3.3 Establishing Specialized Centers for the Projects

This direction requires that the specialized centers established through the projects activities are well monitored and evaluated through specialized parties with an aim to transform them into centers of excellence on both the local and international levels.

9.3.4 Getting Additional Finance Sources for the Projects

It is worth mentioning that getting new sources for financing HEEPF financed projects after the end of their contracting period is one of the most important factors of sustainability. It is based on the following three basic directions:

- Signing protocols between the project and other parties contributes in activating the use of the project activities and outcomes after hand over (as will be shown in section 9.3).
- Establishing an entity that maintains the sustainability of the project activities after hand over such as establishing a special unit (as will be shown in section 9.4).
- Introducing new ideas of projects that are considered an extension and continuation of the original project activities financed by HEEPF and presenting them to other financing parties. A number of projects succeeded in getting finance for new projects from different parties (as will be shown in section 9.5).

9.4 Signing Protocols between HEEPF Financed Projects and Other Parties

In this section, the efforts exerted by the projects managers to maintain the projects sustainability after their contracting period are presented. These efforts are represented in signing protocols with other local, regional, and international parties. Appendix A includes a list of the protocols a large number of HEEPF financed projects (29 projects) successfully signed with various governmental and nongovernmental parties. They are organized alphabetically according to the name of the university. It is expected that the number of these projects will double with the passage of time, with the increasing number of the projects that are being handed over, and with the efforts exerted by the projects managers to extend the use of their projects outcomes. The following are statistical results that represent the number of the projects that signed protocols with foreign parties.

Fig. (9-2) shows Alex. And Assiut Universities at the top of the list of universities whose projects succeeded in signing protocols with other parties.

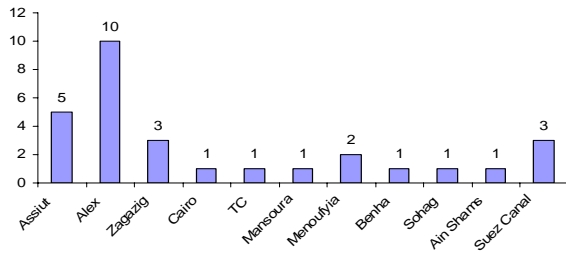


Fig. (9-2): The projects that signed protocols with other parties in each university

Fig. (9-3) shows that scientific specializations come at the top of the specializations whose projects signed protocols related to their activities. They are followed by Medicine and then come the other specializations of Engineering, Veterinary Medicine, and Agriculture with an equal share.

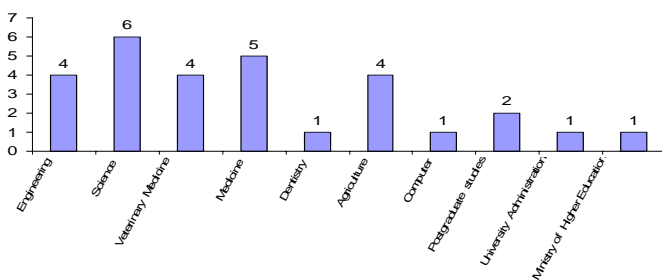


Fig. (9-3): The projects that signed protocols with other parties in different specializations

Other parties with which the projects signed protocols are classified (as shown in Fig. 9-4) into the following:

- International parties (outside Egypt)
- Other enhancement projects financed by HEEPF
- Governmental universities
- Parties affiliated to the private sector
- Governmental parties

Fig. (9-4) indicates that the governmental parties come at the top of the parties with which projects succeeded in signing protocols. They are followed by governmental universities which succeeded in attracting the attention of the projects managers.

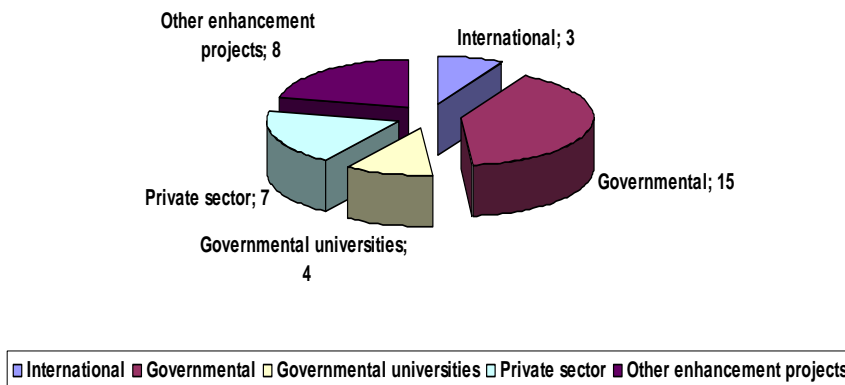


Fig. (9-4): Classification of the protocols the projects signed with other financing parties

9.5 Establishing Special Units that Guarantee the Projects Sustainability

This part shows the efforts the projects managers exerted to get new finance resources necessary to maintain the sustainability of the projects after their contracting period. They are represented in establishing special units that aim at extending the activities of the projects in each university after their hand over and maintain the entity of the projects after the end of HEEPF financing.

It is worth mentioning that these special units are considered a real source of income and financial profit for the faculties and universities to which they are affiliated. They ensure the sustainability of the projects activities after their hand over, specially after the end of HEEPF financing role. These units are a real addition to Egyptian universities not only as an additional income source but also as an effective tool that aims at activating the role of education institutions in serving the surrounding community members, institutions, and organizations. They are established in the framework of the higher education system and the general strategy of the Ministry of Higher Education that aim at connecting education institutions with the community needs.

The following are statistical results that represent the number of the projects that succeeded in establishing special units. They are 64 projects or special units up till the end of 2006. This number is expected to increase with the increasing number of the projects whose contracting period is about to end and with the efforts of the projects managers to establish new units. These projects are classified according to the following:

- The university to which the project is affiliated as in Fig. (9-5)
- The field of the project specialization as in Fig. (9-6)

Fig. (9-5) shows that Alex. and Ain Shams Universities come at the top of the universities in which projects established special units.

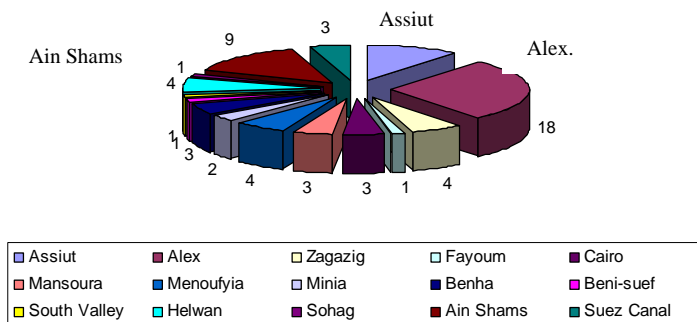


Fig. (9-5): The projects that established special units in each university

Fig. (9-6) shows that Medicine comes at the top of the specializations whose projects succeeded in establishing special units. It is followed by the projects in the field of Agriculture and then Engineering. An example of these units is the Plastination Unit in the Faculty of Veterinary Medicine, Zagazig Univ. established through Project (B-053-T0).

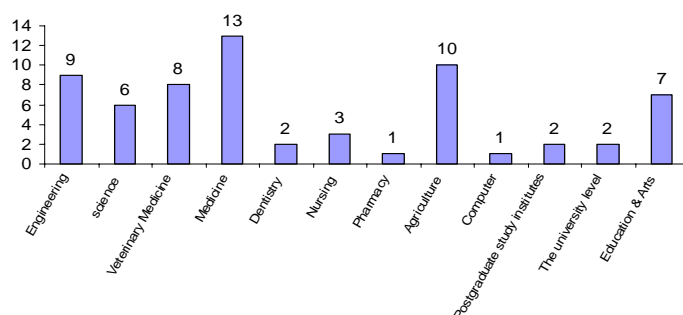


Fig. (9-6): The projects that established special units in different specializations

Fig. (9-7) shows plastic samples implemented through the project activities. This project contributed in two other projects in Medicine, Alex. Univ., for the production of anatomical models, and another project in Veterinary Medicine, Assiut Univ., to train staff members to establish a new similar unit.



Fig. (9-7): Plastinated samples produced by the special unit for Plastination

Another example is the special unit in the Medical Research Institute, Alex. Univ., established through Project (C-091-H0). The unit aims at training technicians on maintaining medical equipment as shown in Fig. (9-8).



Fig. (9-8): Special unit for maintaining medical equipment, Alex. Univ. (Project C-091-H0)

The photos in Fig. (9-9) shows students using computers and staff members using modern technology media in teaching in the computer lab established through Project (B-051-I0) in the Faculty of Science, Assiut Univ. The computer lab aims at developing teaching methodology and contributes in generalizing the use of modern technology and multimedia in the education process. The same project established a special unit for its activities.



Fig. (9-9): Students using computers in the lab established by Project (B-051-I0), Assiut Univ.

Fig. (9-10) shows the activities related to training in the field of survey and spatial information systems which are considered a nucleus for the special unit that is currently being established in the Faculty of Engineering, Benha Univ. through Project (D-067-T1).



Fig. (9-10): Training courses for students in the field of survey and GIS in the equipped computer lab in the Faculty of Engineering, Shubra

9.6 Getting Finance for New Projects as an Extension of HEEPF Financed Projects

This section contains examples of the pioneering efforts exerted by the projects managers and their keenness to maintain the sustainability of their projects activities financed by HEEPF. These efforts are represented in proposing new projects to other financing parties to get finance that contributes in the continuation of HEEPF financed projects activities after their hand over and the end of the contracting period. The following is a review of six projects that are considered an example of such activity:

- **Project (A-029-T0) "Developing a training Program for Physicians in the Field of Crises Medicine"**

Project Manager: Prof. Atef Radwan, Faculty of Medicine, Zagazig Univ.

The project manager succeeded in getting finance for a new project presented to TEMPUS. The new project aims at reducing the heart disease infection in Egypt through training physicians and workers in the medical field on refreshing the heart and breathing. This project is an extension and continuation of HEEPF financed project activity.

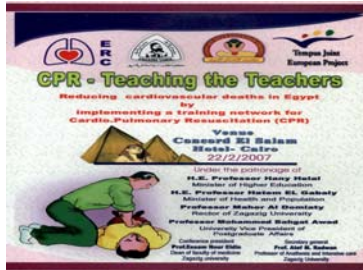


Fig. (9-11): An invitation for another financing party of a new project after the delivery of the HEEPF financed Project (A-029-T0)

- **Project (A-041-N0) "Developing Veterinary Medicine through Field Training"**

Project Manager: Prof. Ahmed Hamed Zaghloul, Faculty of Veterinary Medicine, Menoufyia Univ.

The project manager succeeded in getting finance for a new project from the EU to continue the DNA labs in the field of Veterinary Medicine as a continuation of HEEPF financed project activities after delivery.

- **Project (C-067-I0) "Developing Analytical Chemistry Courses" in the Faculty of Science, Assiut Univ.**

Project Manager: Prof. Nagwa Thabet Abu El-Maaly, Faculty of Science, Assiut Univ.

The project manager succeeded in getting finance for a new project from the International Cooperation Organization to continue purchasing equipment for the standard and worldly acknowledged lab that was established through HEEPF financed project budget. This new project has already begun its activity as a continuation of HEEPF financed project.

- **Project (D-097-H0) "Preparing an Education Program and Center for Renewable Energy using E-learning"**

Project Manager: Prof. Abdel-Wahab Shalabi, Faculty of Agriculture, Alex. Univ.

The project manager succeeded in getting finance for a new project from The EU for Mediterranean Sea Countries with an aim to study and use new and renewable sources of energy. The project that has already begun its activity is considered a continuation of HEEPF financed project.

- **Project (A-253-J0) "Developing Automatic Control and Measurement Courses, Updating Labs, and Developing Scientific Content using Multimedia"**

Project Manager: Prof. Ahmed Bahgat, faculty of Engineering, Cairo Univ.

The project manager is currently presenting a new project, "Industrial Modernization Center" (IMC), affiliated to the Ministry of Industry in collaboration with the Ministry of Higher Education. The budget of the new project reaches a million Egyptian pounds. It is considered a continuation and a direct application of HEEPf financed project activities among which is using the lab in the field of industry and engineering consultancy. Initial agreement on the new project that works on developing and implementing an industrial unit and developing the whole system of industrial environment control has been obtained. Fig. (9-12) shows the modern labs established through HEEPf financed project activities. They are used in Automatic Control and Measurement of electricity in the fields of academic teaching and industry.



Fig. (9-12): Modern Automatic Control labs established by Project (A-253-J0) in Cairo Univ.

- **Project (D-071-T1) "Developing Diagnosis Software in Different modern Radiation Centers in the Faculties of Veterinary Medicine"**

Project Manager: Prof. Hussein Maghrabi, Faculty of Veterinary Medicine, Benha Univ.

The project manager is currently presenting a new project to the EU for Mediterranean Sea Countries in collaboration with two Faculties in France and England in the field of Clinical Veterinary Medicine. One of the new project basic direction is developing means of diagnosis using ultrasonic radiation in the field of Veterinary Medicine, which is the chief goal of HEEPf financed project. Fig. (9-13) shows the special unit under the name of "Ultrasonic Diagnosis in the Field of Veterinary Medicine" that was established through HEEPf financed project activities. It is used in the fields of training and teaching radiation in the Field of Veterinary Medicine.



Fig. (9-13): Special Unit for ultrasonic diagnosis in the field of Veterinary Medicine established by Project (D-071-T1) in Benha Univ.

9.7 Risks that Face Sustainability

This section gives a brief idea of the risks that may face the projects after their hand over to the university administration, and the points that have to be taken into consideration. The risks are represented in the possible occurrence of the following:

1. Not using the projects outcomes during the sustainability period such as the developed curricula and courses, the equipped labs, and equipment purchased by the project budget
2. The lack of activation of the special units established with an aim to financially support the projects which leads to canceling these units through the university for lack of financial income
3. The lack of maintenance and updating of equipment which leads to their disorder without their full use
4. The travel or absence of some influential staff members which leads to the stumbling of the project activities during the sustainability period
5. Losing the rooms and places assigned for the project in the faculty or institute on the excuse that the places are limited, which leads to the stop of the implementation of the sustainability activities

The following are the points HEEPF management is concerned with when monitoring sustainability. They assert its Keeness on maintaining the sustainability of the projects after their hand over:

1. The Sustainability Monitoring Committee formed by the university and HEEPF Sustainability Monitoring Committees pay field visits to the projects during their sustainability period and write detailed reports on these visits to be presented to the university administration and HEEPF management. This ensures the continuing use of the projects as well as solving the problems that face their sustainability.
2. Activating the role of the faculty and university leaderships so that the faculty and university participation positively ensures the sustainability of the projects. This participation is represented in overcoming the administrative, technical, and financial problems that obstruct the sustainability of the projects activities and impede their progress.
3. Undertaking maintenance of the labs established by HEEPF financed projects and providing them with the necessary equipment or materials to ensure their continuing use in the enhancement of the education process and community service after the end of HEEPF finance.
4. Confirming the use of the courses developed by the projects and included or agreed to be included in the faculty curriculum, and making the modern technological media purchased by the projects available for staff members and their assistants to be used in the teaching process to achieve the desired result.
5. Undertaking the implementation of all the remarks included in the final hand over report that is related to the sustainability period, prepared by the hand over committee, and approved by the project manager, HEEPF manager, and the university president.

9.8 Summary and Recommendations

After presenting the concept of monitoring projects during the sustainability period with an aim to maximize the use of these projects after their hand over to the university administration, it is worth noting HEEPF keeness on: the completion of sustainability plans included in the original project proposal, the presentation of an action plan during the first year after the project hand over, signing the projects hand over report by the receipt committee members, approving the report by the project manager, HEEPF manager, and the university president to become a new contract representing commitment of the sustainability plan.

After the evaluation of the previous period in which HEEPF monitoring committees paid field visits to the projects after their hand over, HEEPF management recommends the following:

1. The necessity of discussing the sustainability monitoring mechanisms in scientific departments, faculties, and higher institutes on the level of the Supreme Council of Universities, for it has been found out that nothing forces the committees that were formed to monitor the sustainability of the projects except their personal commitments. HEEPF management recommends the quick formation of these committees to monitor the sustainability of the projects that have been handed over because some universities delayed their formation
2. Overcoming the difficulties and obstacles that face the projects managers when establishing special units to ensure the existence of an entity that maintains their projects, besides working on maximizing the use of the distinguished projects outcomes to be applied and used in similar faculties in different Egyptian universities; thus, ensuring and supporting the role of all Egyptian universities and HEEPF management in monitoring projects during the sustainability period
3. Using HEEPF management experience with governmental Egyptian universities enhancement projects through supervising private universities enhancement programs and coordinating between the former and the latter in this context
4. Asserting the importance of recording the intellectual and literary property rights related to the projects outcomes annually instead of biannually to avoid any obstacles or problems that face implementation, and making sure that the project still achieves the positive outcomes mentioned in the proposal. This can take place through the positive cooperation of the projects managers with university officials to ensure the projects sustainability and the literary rights of their managers.
5. Studying a new proposal aiming at limiting HEEPF management and university projects monitoring period to a whole year during which four visits are paid and mentioned in the project final hand over report.
6. Requesting the completed projects managers upon the presentation of the final report to present a final document in which experiences, learnt lessons, and solutions of implementation problems are recorded. HEEPF management and the university collect and combine the documents of similar projects in one document to be distributed on all universities.
7. The project final hand over report should include suggestions of future projects that depend on and are considered as a continuation of the outcomes of the completed projects.
8. Applying international standards in the technical recording of the projects outcomes and saving them in the central library or the software library which is suggested to be established in HEEPF management
9. Establishing mechanisms for the management of the technological resources purchased by the financed projects such as insuring and maintaining them
10. Putting a work agenda to regain the investment spent on the project (during 3-5 years) and confirming the possibility of achieving monetary flow that allows the continuation of the project activities without stumbling

Appendix A: The protocols signed/being signed between HEEPF financed projects and other parties

Cooperation fields	The party with which the protocol is signed	Faculty	Project Title	Univ.	Project
Granting the project the Experimental Physics Courses for the Undergraduate stage	Project (B-097-Q0) Suez Canal Univ.	Science	Upgrading the skills of staff members & their assistants in the field of electronic dissemination, and establishing an electronic dissemination unit in the university	Assiut	A-082-I0
Granting the project the Chemistry Courses and laboratory experiments	Project (C-093-Q0) Suez Canal Univ.	Science	Developing the Undergraduate Organic Chemistry Curriculum in the Dept. of Chemistry	Assiut	B-048-I0
Holding training courses in the center established in the Faculty of Education	Education Directory, Ministry of Education	Science	Developing the Faculty of Education curriculum and introducing Environmental Science Courses using the computer to develop the teachers' skills	Assiut	C-065-I0
Training secondary school teachers on the new Environmental Courses	Environmental Affairs Body	Science	Developing the the Faculty of Education curriculum and introducing Environmental Science Courses using the computer to develop the teachers' skills	Assiut	C-065-I0
Holding training courses in the field of Meat health	Veterinary Medicine Directories, Assiut	Veterinary Medicine	Updating and developing the Course of Meat Health and Technology in	Assiut	C-068-I0

			Egypt		
Holding training courses in the field	Some companies working in the field of meat and its products in Ismaeleya & Alex.	Veterinary Medicine	Updating and developing the Course of Meat Health and Technology in Egypt	Assiut	C-068-I0
Using the potentials of videoconference in teaching	Tumor Institute in Cairo	Computer & Inforamtion systems	Teaching using the videoconferenc e system between the students of the Faculties of Computer in Assiut & Cairo Universities	Assiut	D-091-I0
- Training students in the Dept. of Land and Water in the company farms - Using experts from the company in scientific research	Bicho Farms (A private sector company)	Agriculture	Developing academic distinction and the objectivity of the undergraduate curriculum of Land and Water Resource Management	Alex.	A-066-H0
Practical training of students in the Dept. of Animal Production inside the station	Sama Agricultural Station	Agriculture	Using modern technology in animal production and reproduction	Alex.	B-004-H0
Training secondary school teachers of Biology	Ministry of Education	Postgraduat e Studies Institute	Establishing a training center in the field of Biotechnology	Alex.	B-104-H0
- Providing the Faculty with a number of water distillation equipment - Training students using the experience of Water	The Egyptian Society for water, Energy, and Industrial companies concerned with water distillation	Engineering	Developing an industrial/ academic training program in the field of water distillation using traditional and e-learning	Alex.	C-096-H0

Distillation Companies					
Teaching Anatomy Courses (Parasites and Surgery in the Faculties of Veterinary Medicine) in the two universities	Zagazig & Kafr El-Sheikh Universities	Veterinary Medicine	Using digital techniques and communication network and information exchange technology in the establishment of an education center for Veterinary Medicine	Alex.	D-075-H0
- Training in the field of Child disability - Exchanging the project outcomes with the Faculty of Medicine, Sohag Univ.	Civil Societies concerned with child disability & the Faculty of Medicine, Sohag Univ.	Medicine	Training technicians on equipment maintenance	Alex.	D-083-H0
Teaching Renewable Energy Courses in the Faculties of Agriculture in Zagazig & Mansoura Universities	Faculty of Agriculture, Zagazig & Mansoura Universities	Agriculture	Establishing a practical program and an e-learning program for Agricultural applications in the field of Renewable energy	Alex.	D-097-H0
- Training dentists in the Faculty of Dentistry, Alex.Univ. - Contributing in the workshops and training courses	Dentists Syndicate in Alex.	Dentistry	Establishing a center of excellence for dentists	Alex.	D-181-H0
Training students in the participating faculties on using modern medical	Faculties of Science, Pharmacy, Medicine, & Dentistry, Alex. Univ.	Postgraduate Studies Institute, Alex. Univ.	Establishing an advanced lab for Biophysics to upgrade the performance level of staff	Alex.	D-185-H0

equipment			members and improve the quality of postgraduate studies		
Cooperation in continuous training courses between the two projects like training workers in the emergency hospital on first aid and saving lives	Project (B-089-L0) Mansoura Univ.	Medicine	Developing a training program for physicians in the field of Crises Medicine	Zagazig	A-029-T0
Training students in the Dept. of Public Health in the Preliminary Health Care Unit affiliated to the Ministry of Health	Health Directory in Sharkeya Governorate affiliated to the Ministry of Health	Medicine	A new method of teaching initial health care with the concept of community service	Zagazig	A-030-T0
Suggesting a long-term protocol that includes exchanging experiences in the development of teaching methods and using virtual labs	Faculty of Science, Malaria Univ., Kualalambour, Malaysia	Engineering	Teaching Laboratory Basic Sciences interactively to large numbers of Engineering students	Zagazig	B-060-T0
Using virtual labs in the fields of Energy and Control for the postgraduate students in the Faculty	Project (A-085-I0) Assiut Univ.	Engineering	Developing whole courses in the field of Automatic Control and Measurement of Electricity System	Cairo	A-253-J0
- Training and qualifying engineers in the field of Energy and	Ministry of Electricity	Engineering	Developing whole courses in the field of Automatic Control and	Cairo	A-253-J0

Control - Using the labs developed by the project in carrying out virtual experiments - Establishing a postgraduate diploma for Engineers			Measurement of Electricity System		
Designing and supervising the implementation of a system that controls the balance of the company production lines	Eastern Company (Business Sector)	Engineering	Developing whole courses in the field of Automatic Control and Measurement of Electricity System	Cairo	A-253-J0
Establishing computer networks and providing the sector with computers, programs, and training for workers in the Ministry	Ministry of Communication Ministry of Administrative Development The computer center in the Faculty of Computer & Information Technology, Cairo	Ministry of Higher Education	Developing and updating the Cultural Affairs & Expeditions Sector, Ministry of Higher Education	Institutes	D-194-O0
Training workers in the Hospital on saving lives	Pediatrics Hospital, Cairo Univ.	Medicine	Training on the Basics of saving lives in the medical sector and targeted communities	Mansoura	B-089-L0
Training Veterinarians and sending medical caravans to the villages of Menoufyia Governorate	Veterinary Medicine Units, the Ministry of Agriculture	Veterinary Medicine	Developing Veterinary Medicine Education through Field Clinical Training	Menoufyia	A-041-N0
Training students and farmers on modern technology for the production of fodders and	Agricultural Societies in Menoufyia & Gharbeya Governorates	Agriculture	Improving the teaching methods of some courses through field training in different rural	Menoufyia	B-137-N0

combating harmful insects			countries		
Mutual training and lecturing in the ultrasonic waves and radiation workshops	Faculty of Medicine, Dept. of Radiation, Benha Univ.	Veterinary Medicine	Developing an ultrasonic diagnosis program in the Faculty of Veterinary Medicine, Benha Univ.	Benha	D-071-T1
Training secondary school teachers in the field of Physics and Chemistry, Education Directory in Sohag	Education Directory, Sohag	Science	Developing an education program in Technology and Experimental Sciences	Sohag	B-099-P1
Granting the project 20 Physics Experiments of Project B-097-Q0	Project (B-097-Q0) Suez Canal Univ.	Science	Developing an education program in Technology and Experimental Sciences	Sohag	B-099-P1
Research projects in the field of electrical communications	An Engineering Institute in France	Engineering	Developing electrical and electronic communications and their technologies in the fields of teaching, research and consultancy	Ain Shams	B-040-G0
Research projects in the field of electrical communications	A Univ. in Canada	Engineering	Developing electrical and electronic communications and their technologies in the fields of teaching, research and consultancy	Ain Shams	B-040-G0
Granting the project 20 Physics Experiments of Project B-099-P0	Project (B-099-P1) Sohag Univ.	Science	Developing laboratory experiments for Physics in the Faculty of Science	Suez Canal	B-097-Q0
Granting the project the Physics	Project (A-082-I0) Assiut Univ.	Science	Developing laboratory experiments for	Suez Canal	B-097-Q0

Experiments (60 experiments) in English of Project A-082-I0			Physics in the Faculty of Science		
Signing a protocol with an aim to purchase the films shot in the project for the development of clinical skills	Faculty of Medicine, Mansoura Univ.	Medicine	Developing a training lab to increase the clinical skills using the computer	Suez Canal	C-015-Q0
Granting the project the Chemistry Courses and Laboratory Experiments of Project B-048-I0	Project (B-048-I0) Assiut Univ.	Science	Developing Organic Chemistry labs to improve the methods of teaching	Suez Canal	C-093-Q0