





### **FINKMET**

### **Finnish-Kyrgyz Meteorology Project**

Self-evaluation, January 2015

Agency on Hydrometeorology under Ministry of Emergency Situations of the Kyrgyz
Republic (Kyrgyzhydromet)
in cooperation with
Finnish Meteorological Institute (FMI)

**Annexes:** 

**Annex 1. Project Logical Framework Matrix** 







#### 1. Introduction

The Finnish-Kyrgyz Meteorology Project (FINKMET) is a development project funded by the Ministry of Foreign Affairs of Finland's Institutional Co-operation Instrument (ICI). The project spans from 2014 to 2016 with the budget of 500 000 EUR. The overall objective of this ICI Project between the Finnish Meteorological Institute (FMI) and Kyrgyzhydromet is

Promotion of economic development and reduced risks for the loss of life and property caused by severe weather, climate and environmental events in the Kyrgyzstan society with the main purpose being

Improved capacity of the Kyrgyzhydromet to deliver weather, climate, and environmental information and early warning services for the benefits of Kyrgyzstan society.

A more detailed description of the Project Components can be found in the Logical Framework Matrix (Annex 1). The LogFrame also highlights the completed Results and Activities in the project thus far.

In January 2016, a self-evaluation survey on the project was made. This was based on a similar self-evaluation survey conducted by the Geological Survey of Finland (GTK) for their own ICI- project in Central Asia. A similar survey was conducted in October 2015 in Tajikistan for FMI's FINTAJ-project self-evaluation.

### 2. Survey Methods

The self-evaluation was based on a survey with a multiple-choice questionnaire of 19 questions on a five-level scale (with the option not to comment) and a set of verbal questions targeting the successes, challenges and lessons learnt in the project. The survey was conducted during an air quality mission in Bishkek in January 2015, i.e. when roughly 70 % of the project period was completed.

During the self-survey event, the FINKMET project manager Antti Hyvärinen first presented the project objectives (Overall objectives, Purpose-level objectives and Result-level objectives) and the related Logical Framework Matrix (Annex 1) for the people participating in the self-evaluation. The multiple-choice questionnaire was then filled by the following people:

- 1) Ryskeldi Azankhodzaev, Deputy Director and Sabira Tiuliundieva, FINKMET project manager (overall coordination of the project)
- 2) Ruslan Ermatov, Chief Specialist at Department of Telecommunication and Information Technologies (Component 1 responsible person, technical coordination of FINKMET in Kyrgyzstan)
- 3) Larisa Titova and Natalya Fedichkina Department of Air Quality (Component 2 participating personnel)

#### 3. Survey Results

The aforementioned three groups or individuals filled the questionnaire. In addition, the groups worked together to answer the textual questions of the survey.

### 3.1. Questionnaire answers of the survey







The answers to questions 1-19 of the survey can be found below. The initials indicating the person answering refer to:

RA/ST= Ryskeldi Azankhodzaev, Deputy Director and Sabira Tiuliundieva, FINKMET project manager (overall coordination of the project)

RE= Ruslan Ermatov, Chief Specialist at Department of Telecommunication and Information Technologies (Component 1 responsible person, technical coordination of FINKMET in Kygyzstan)

LT/NF= Larisa Titova and Natalya Fedichkina Department of Air Quality (Component 2 participating personnel)

## 1. Считаете ли Вы, что цели и достижения проекта соответствуют нуждам и приоритетам Вашего ведомства\команды?

Are the objectives and achievements of the Project in line with the needs and priorities of the Agency/Expedition/team?

	Очень	В некоторой	Мало	Очень	Вообще	Без
		степени		мало	нет	комментариев
	Very much	Rather much	A little	Very little	Not at all	No comment
RA						
/ST	1					
RE	1					
LT/						
NF	1					

# 2. Считаете ли Вы, что цели и достижения проекта соответствуют политике руководства Вашего ведомства?

Are the objectives and achievements of the Project in line with the management policies of the Agency/Expedition/team?

	Очень	В некоторой	Мало	Очень	Вообще	Без
		степени		мало	нет	комментариев
	Very much	Rather much	A little	Very little	Not at all	No comment
RA						
/ST	1					
RE		1				
LT/						
NF	1					

# 3. Насколько хорошо деятельность проекта сможет трансформировать существующие ресурсы в желаемые результаты, с точки зрения количества?

How well the activities of the Project will transform the available resources into the intended outputs/results, in terms of quantity?

	Отлично	Хорошо	В некоторой	Очень	Вообще	Без
			степени	мало	нет	комментариев
	Very well	Rather well	To some extent	Very little	Not at all	No comment
RA			1			







/ST				
RE		1		
LT/				
NF		1		

# 4. Насколько хорошо деятельность проекта сможет трансформировать существующие ресурсы в желаемые результаты, с точки зрения качества?

How well the activities of the Project will transform the available resources into the intended outputs/results, in terms of quality?

	Отлично	Хорошо	В некоторой	Очень	Вообще	Без
			степени	мало	нет	комментариев
	Very well	Rather well	To some extent	Very little	Not at all	No comment
RA						
/ST		1				
RE		1				
LT/						
NF		1				

### 5. Достигнет ли проект своей цели в указанные сроки?

Will the Project achieve its purpose in the future?

	Безусловно	Да	В некоторой	Очень	Вообще	Без
			степени	мало	нет	комментариев
	Very well	Rather well	To some extent	Very little	Not at all	No comment
RA						
/ST		1				
RE	1					
LT/						
NF			1			

### 6. Был ли достигнут прогресс в достижении цели?

Has progress been made towards achieving the overall objective of the Project?

	Большой	В некоторой	Мало	Очень	Вообще	Без
	прогресс	степени		мало	нет	комментариев
	Very much	Rather much	A little	Very little	Not at all	No comment
RA						
/ST	1					
RE	1					
LT/						
NF		1				

### 7. Оправдывают ли средства достижения проекта?

Can the costs of the Project be justified by the achievements?

Очень	В некоторой	Мало	Очень	Вообще	Без
	степени		мало	нет	комментариев
Very well	Rather well	A little	Very little	Not at all	No comment







RA /ST				
/ST	1			
RE	1			
LT/				
NF		1		

# 8. Были ли предположения верно сформулированы в документационном изложении проекта?

Have important assumptions been identified?

	Очень	В некоторой	Мало	Очень	Вообще	Без
	хорошо/Верно	степени		мало	нет	комментариев
	Very much	Rather much	A little	Very little	Not at all	No comment
RA						
/ST	1					
RE	1					
LT/						
NF	1					

### 9. Хорошо ли были рассчитаны риски?

Are risks appropriately managed?

	Очень	В некоторой	Мало	Очень	Вообще	Без
	хорошо/Верно	степени		мало	нет	комментариев
	Very much	Rather much	A little	Very little	Not at all	No comment
RA						
/ST	1					
RE	1					
LT/						
NF		1				

# 10. Будут ли достижения проекта жить после окончания внешней поддержки? Will the benefits produced by the Project be maintained after the termination of external

will the benefits produced by the Project be maintained after the termination of external support?

	Конечно	В некоторой	Скорее	Hem	Точно нет	Без
		степени	всего			комментариев
			нет			
	Very much	Rather much	A little	Very little	Not at all	No comment
RA						
/ST	1					
RE		1				
LT/						
NF		1				

# 11. Были ли учтены другие проекты, была ли проведена работа с другими лицами, реализующими проекты?







Have other projects been taken into account in implementation, including joint work with other actors?

	Конечно	В некоторой	Мало	Очень	Вообще	Без
		степени		мало	нет	комментариев
	Very much	Rather much	A little	Very little	Not at all	No comment
RA						
/ST	1					
RE	1					
LT/						
NF						1

### 12. Дополняет ли этот проект работу других проектов?

Does the Project complement other projects?

	Достаточно	В некоторой	Мало	Очень	Вообще	Без
	сильно	степени		мало	нет	комментариев
	Very much	Rather much	A little	Very little	Not at all	No comment
RA						
/ST	1					
RE	1					
LT/						
NF					1	

# 13. Мешают ли достижениям этого проекта несоответствия с др. проектами? Мешают ли достижениям этого проекта несоответствия с другими проектами?

Do contradictions with other projects prevent implementation and the achievement of the Project objectives?

	Достаточно	В некоторой	Мало	Очень	Вообще	Без
	сильно	степени		мало	нет	комментариев
	Very much	Rather much	A little	Very little	Not at all	No comment
RA						
/ST					1	
RE					1	
LT/						
NF					1	

### 14. Каково качество исполнения проекта?

What is the quality of the Project management?

	Отлично,	Достаточно	Средне	В какой-то	Провалил	Без
	очень	хорошее		степени не	СЯ	комментариев
	хорошо			успешно		
	Succeeded	Succeeded	Tolerably	Somewhat	Failed	No comment
	very well	rather well		unsuccessful		
RA						
/ST		1				
RE	1					





LT/			
NF	1		

### 15. Как в целом вы оцениваете учебные мероприятия?

In general, how would you rate training events?

	Были	Достаточно	Средне	В какой-то	Провалился	Без
	очень	успешно		степени не		комментариев
	успешны			успешно		
	Succeeded	Succeeded	Tolerably	Somewhat	Failed	No comment
	very well	rather well		unsuccessful		
RA						
/ST		1				
RE	1					
LT/						
NF			1			

### 16. Как были организованы практические занятия в тренингах?

How were the practical arrangements in training events?

	Были	Достаточно	Средне	В какой-то	Провалился	Без
	очень	успешно		степени не		комментариев
	успешны			успешно		
	Succeeded	Succeeded	Tolerably	Somewhat	Failed	No comment
	very well	rather well		unsuccessful		
RA						
/ST		1				
RE	1					
LT/						
NF			1			

### 17. Как вы оцениваете содержание тренингов?

How do you find the contents of training?

	5 · · · · · · · · · · · · · · · · · · ·						
	Очень	Вполне	Средне	В какой-то	Провалился	Без	
	применимы	применимы		степени не		комментариев	
				успешно			
	Very suitable	Rather suitable	Tolerably	Somewhat	Failed	No comment	
				unsuccessful			
RA							
/ST		1					
RE	1						
LT/							
NF		1					

### 18. Достигло ли обучение первоначально поставленных целей?

Did training meet your primary objectives?







	Посность	Достаточно	Средне	В какой-то	Провалился	Без
	Ю			степени не		комментариев
				успешно		
	Very well	Rather well	Tolerably	Somewhat	Failed	No comment
				unsuccessful		
RA						
/ST		1				
RE	1					
LT/						
NF			1			

### 19. Оцените уровень преподавателей тренингов?

Are the teachers capable?

	Очень	Довольно	Терпимый	Несколько не	Не	Без
	компете	компетент	уровень	достает уровень	компетентны	комментариев
	нтны	ны				
	Very	Rather	Tolerably	Somewhat lacking	Fully lacking	No comment
	capable	capable		qualifications	qualifications	
RA						
/ST	1					
RE	1					
LT/						
NF	1					

### 3.2. Verbal answers of the survey by the project components' responsible persons

Final set of the survey consisted of eight targeted questions, which were filled as a discussion group work. The purpose of the questions was to discuss on the achievements, problems and lessons learnt in the project. The answers (translated from Russian) can be found below.

	Achievement / Success Stories	Problems and development needs	Lessons learnt
Relevance of the activities/missions in respect of needs in order to achieve the Project result	All missions have been relevant to the needs of Kyrgyzhydromet	The need for automatic stations for air quality is very large, but the project was able to cover the installation of only one pilot station	It is necessary to train personnel how to work with the automatic stations  It is necessary to train personnel mastering English for international best practices







Efficiency; could we achieve the Project results better by do things differently?			Improved communication skills in English lead to better efficiency.
Effectiveness; Could we do something more effective in order to achieve the project purpose?		By improving employee motivation	Perhaps with an increase in the number of training sessions
How you find coordination between Finnish and Kyrgyz project management	Effective		
Impact of the project achievements; What are the overall impacts of the Project, intended and unintended, long term and short term, positive and negative?	Improving the monitoring of air quality  Reduction of manual operations		
	The availability of data in real-time on site		
Sustainability of the achievements; What are the possible factors that enhance or inhibit sustainability, including ownership/commitment, economic/financial, institutional, technical, socio-cultural and environmental sustainability aspects		Economic risk of a rise in price of consumables (e.g. filters) increases the risk of sustainability of the project in the long term	
		Risk factors decreasing the sustainability: - Financial; - Institutional; - Technical.	
Training: needs and development ideas	Increasing the number of hydrometeorology and number of lineral fractions in the number of the numbe	nanagement, IT techn	ologies, etc.
Suggestions and comments	Expand the scope of the Consider a new project standards for air quality	for the implementation	-







### 4. Summary and conclusions

The Project LogFrame Matrix (Annex 1) highlights the completed results and activities in the project until the end of 2015 (second year of the project). These were presented to the persons participating in the self-evaluation survey. In general, good progress has been made, and all of the planned indicators are likely to be achieved by the end of the project.

The project responsible persons all agree that the objectives and achievements of the project are in line with the needs and priorities of the Agency *very much*. They have found that the project will transform the available resources into the intended output in terms of quality *rather well*. Progress has been made towards achieving the overall objective either *very much* or *rather much*, and the project should achieve its purpose in the future from *very well* (by persons responsible for the overall coordination of the project) to *some extent* (by personnel participating in the air quality component). In addition, other projects have been taken into account *very much* and the different projects complement each other. An exception to this is the Air Quality component, where the FINKMET project is one of its kind for Kyrgyzhydromet, and the air quality participating personnel have answered that the project does not complement other projects. Risks seem to be *very well* identified and appropriately managed. The benefits produced by the project were believed to be maintained after the termination of external support *very much* or *rather much*. The quality of project management was found to have succeeded between *very well* and *rather well*.

Some shortcomings were also identified by the project responsible persons. In terms of quantity, the project was found to transform the available resources into the intended outputs/results *to some extent*. The training events were generally rated with a wide scale from *tolerably* to *succeeded very well*, following the answer to fulfilling the primary objectives of the training. In particular, the participating air quality personnel rated the trainings only as *tolerably*. These training sessions have suffered from having to sort out some technical difficulties, and from the Kyrgyzhydromet capacity to provide staff to the trainings.

According to the verbal answers, all missions have been relevant to the needs of Kyrgyzhydromet, and the project management is seen as effective. Improving the communication skills in English is now seen important, and a way that would lead to a better efficiency. It should be noted that an English course was suggested in the beginning of the project by FMI, but it was not seen necessary by the Kyrgyzhydromet at that time. More trainings are sought after in different topics. The Kyrgyzhydromet suggests also expanding the scope of the project, e.g. by introducing a new project to upscale the pilot operation of the air quality station.

## **FINKMET Logical Framework Matrix – Intervention Logic**

 Positive feedback from public and other users on Kyrgyzhydromet information and products

(Positive feedback from line Ministry obtained)

Results	Indicators	Sources of verification	Assumptions
Result 1: Improved observation data management process	<ul> <li>Present situation assessment and prefeasibility study completed</li> <li>(Completed together with the World Bank CAHMP project)</li> <li>Plan for integration of data management completed</li> <li>(Completed together with the World Bank CAHMP project)</li> <li>Integrated data management system piloted and internal user feedback collected</li> <li>(Pilot data management system demonstrated)</li> <li>Future development plan and road map for implementation completed</li> <li>(Not yet completed)</li> <li>Kyrgyzhydromet staff trained on implementation, operation and maintenance of modern integrated data management system</li> <li>(Training given through the pilot data management demonstration)</li> </ul>	<ul> <li>Mission reports, project reports</li> <li>Assessment and prefeasibility report</li> <li>Data management plan</li> <li>Pilot database report and data examples, user feedback report</li> <li>Report on Future development plan and roadmap</li> <li>Training materials and feedback</li> <li>Instructions for future development and maintenance</li> </ul>	Information of all existing observation stations, telemetry and data systems available for the assessment and planning Information on the observation, data management and ICT-related development projects available All existing information about current working and maintenance procedures available Qualified Kyrgyzhydromet available to participate training

Results	Indicators	Sources of verification	Assumptions
	<ul> <li>Present situation assessment available (Completed)</li> </ul>		
Result 2: Improved air quality observatio system	<ul> <li>Pilot automatic air quality observation station delivered and operational (Completed)</li> <li>Kyrgyzhydromet staff trained on operation, maintenance and calibration of the new observation equipment</li> </ul>	<ul> <li>Mission reports, project reports</li> <li>Assessment report</li> <li>Report on future modernisation plan</li> <li>Training materials and feedback</li> <li>Tendering and procurement documentation</li> <li>Instructions for operation maintenance and calibration</li> </ul>	Information of existing observation stations, telemetry and data available for the assessment and planning  All existing information about current working and maintenance procedures available  All needed legal, logistical and technical support as well as telemetry, container and construction on the measurement site secured and made available  Qualified Kyrgyzhydromet available to participate training

Results	Indicators	Sources of verification	Assumptions
Result 3: Improved strategic and technical planning capacity	<ul> <li>Feasibility study and Kyrkyzhydromet Modernisation Plan available</li> <li>(Not yet completed)</li> <li>Stakeholder workshop organized</li> <li>(Completed)</li> <li>End-user survey completed and results analysed</li> <li>(Completed)</li> <li>Kyrgyzhydromet directors and managers trained on strategical planning and quality management principals</li> <li>(Completed)</li> </ul>	<ul> <li>Mission reports, project reports</li> <li>Report on Fesibility study and Modernisation Plan</li> <li>En-user survey questionnaire and report on results</li> <li>Training materials and feedback</li> </ul>	Information of Kyrkyzhydromet operations, services and stakeholders available Government supports Kyrgyzhydromet modernisation Qualified Kyrgyzhydromet available to participate training

Results	Indicators	Sources of verification	Assumptions
Result 4: Improved capacity of Kyrgyzhydromet staff on modern observation technology and weather service process	<ul> <li>Kyrgyzhydromet technical staff trained on operation, maintenance and calibration of modern observation equipment</li> <li>(Not yet completed)</li> <li>Kyrgyzhydromet forecasters trained on the weather and climate service process</li> <li>(Not yet completed)</li> </ul>	<ul> <li>Mission reports, project reports</li> <li>Training materials and feedback</li> </ul>	Qualified (basic technical skills and English language skills) Kyrgyzhydromet available to participate training in Kyrgyz republic and in Finland Visa's to Finland issued on time

Activities (Result 1)	Means	Assumptions	Resources
1.1 Present situation assessment of observation and data management system and prefeasibility study (Completed together with the World Bank CAHMP project)	<ul> <li>FMI experts meetings and consultation with Kyrgyzhydromet units. (such as data center, technical and IT unit)</li> <li>Visits to observation stations</li> <li>Workshop in Bishkek to analyze and plan for the improvements</li> </ul>	Detailed technical information from other projects related to observation network and data management available	<ul><li>13 242.72 €</li><li>16 expert days</li></ul>
1.2 Planning of integrated data management system to serve all observations and departments and needs of Kyrgyzhydromet (Completed together with the World Bank CAHMP project)	<ul> <li>FMI experts meetings and consultation with Kyrgyzhydromet data management and IT staff</li> <li>Training on integrated data management system for real-time and climatological data and on observation level real-time and manual quality control</li> </ul>	Technical solutions depends on other on- going projects related to observation network and data management system	<ul> <li>16 088.91 €</li> <li>20 expert days</li> </ul>
1.3 Developing pilot data management system for real time observation with quality control tools (Completed)	<ul> <li>FMI experts meetings and consultation with Kyrgyzhydromet staff and managers</li> <li>Hands on training on future development, operation and maintenance</li> </ul>	Observation and telecommunication systems meets the requirements for real time data acquisition	<ul><li>31 339.81 €</li><li>40 expert days</li></ul>
1.4 Planning of future modernisation of observation and data management system  (Completed together with the World Bank CAHMP project)	<ul> <li>FMI experts meetings and consultation with Kyrgyzhydromet staff and managers</li> <li>Recommendations for future developments and roadmap for implementation</li> </ul>	<ul> <li>Full information of others project in planning phase available</li> <li>Information about Kyrgyshydromet future strategy, operational budget and organisation available</li> </ul>	<ul><li>6 554.20 €</li><li>5 expert days</li></ul>
Activities (Result 2)	Means	Assumptions	

2.1 Assessment of the current air quality in Kyrgyz Republic based on the available information and present situation assessment of the observation system  (Completed)	<ul> <li>FMI experts meetings and consultation with Kyrgyzhydromet staff.</li> <li>Visits to observation stations and laboratory</li> <li>Workshop in Bishkek to analyze and plan for the improvements</li> </ul>	<ul> <li>All needed data sources available</li> <li>Detailed technical information related to current observation network available</li> </ul>	<ul><li>18 435.55 €</li><li>20 expert days</li></ul>
2.2 General plan for the Air Quality Observation system and technical specification for the pilot stations (Completed)	<ul> <li>FMI experts meetings and consultation with Kyrgyzhydromet staff.</li> <li>Workshop in Bishkek to present the plans and get feedback</li> </ul>		<ul><li>10 805.15 €</li><li>12 expert days</li></ul>
2.3 Procurement and delivery of pilot air quality stations' (Completed)	<ul> <li>FMI home office work, tendering process</li> <li>Delivery of the instrumentation with help of FMI experts</li> </ul>	<ul> <li>Kyrgyz Government supports the procurement process and secures the delivery without import taxes</li> <li>Station locations meets the requirements and all needed permissions and licenses etc. secured for installation</li> <li>Technical infrastructure in the observation site meets the requirements (founding, telecommunication, electricity, etc.)</li> </ul>	<ul> <li>121 145.83 €</li> <li>30 expert days</li> </ul>
2.4 Training on operation, maintenance and calibration of the air quality stations and data	<ul> <li>Hands on training during FMI expert missions</li> <li>Workshop and hands on training</li> </ul>	<ul> <li>Qualified staff with proper language skills available for training</li> </ul>	<ul><li>53 374.67 €</li><li>48 expert days</li></ul>

analysis (Training completed, continues)	during study visit to Finland	<ul> <li>Kyrgyzhydromet gets visa and other permission for travelling</li> </ul>	
Activities (Result 3)	Means	Assumptions	
3.1 Feasibility Study and future modernization plan (Not yet completed)	<ul> <li>FMI experts meetings and consultation with Kyrgyzhydromet staff.</li> <li>Visits to observation stations and different units of Kyrgyzhydromet</li> <li>Workshop in Bishkek to present the results and plan and get feedback</li> </ul>	<ul> <li>Full information of others project available</li> <li>Information about Kyrgyshydromet future strategy, operational budget and organisation available</li> <li>Information about different sectors of Kyrgyz society available</li> </ul>	<ul><li>37 858.81 €</li><li>40 expert days</li></ul>
3.2 Stakeholder workshop and end-user survey (Completed)	<ul> <li>FMI experts meetings and consultation with Kyrgyzhydromet staff.</li> <li>Workshop in Bishkek for the Kyrgyzhydromet stakeholders and customers</li> <li>End-user survey</li> </ul>	<ul> <li>Stakeholders motivated to participate in the workshop and contribute to the Kyrgyzhydromet modernization</li> <li>Kyrgyz Government support</li> </ul>	<ul><li>23 019.79 €</li><li>20 expert days</li></ul>
3.3 Study visit and strategic planning workshop in Finland (Completed)	<ul> <li>Kyrgyzhydromet directors and managers visit to Finland</li> <li>Training by FMI managers and experts and support in developing the strategy</li> </ul>	<ul> <li>Kyrgyz Government supports the implementation of the strategy</li> <li>Kyrgyz Government allocate proper funding for future modernization</li> <li>Kyrgyz Government secures the operational budget for</li> </ul>	<ul><li>79 506.02 €</li><li>24 expert days</li></ul>

		Kyrgyzhydromet	
Activities (Result 4)	Means	Assumptions	
4.1 Training on modern observation technology (Not yet completed)	<ul> <li>FMI experts visit to Kyrgyz Republic, hands-on training and workshops</li> <li>Kyrgyzhydromet experts study visit to Finland</li> </ul>	<ul> <li>Qualified staff with proper language skills available for training</li> <li>Kyrgyzhydromet gets visa and other permission for travelling</li> </ul>	<ul><li>28 564.25 €</li><li>30 expert days</li></ul>
4.2 Training on modern weather forecasting process (Not yet completed)	<ul> <li>FMI experts visit to Kyrgyz Republic, hands-on training and workshops</li> <li>Kyrgyzhydromet experts study visit to Finland</li> </ul>	<ul> <li>Qualified staff with proper language skills available for training</li> <li>Kyrgyzhydromet gets visa and other permission for travelling</li> </ul>	<ul><li>62 343.90 €</li><li>36 expert days</li></ul>