Country Name	Industrial Automation Technology (IAT) Extension Project for
Republic of Turkey	Central Asian/Middle East Countries

I. Project Outline					
Background	In Turkey, with rapid expansion of manufacturing industries in the 1990s, it was an urgent issue to fulfill the quantitative and qualitative needs of technical human resources in the manufacturing sector, especially of the mid-level technicians. Under the circumstances, JICA supported the Ministry of National Education (MoNE) through implementation of technical cooperation projects titled "Establishment of Industrial Automation Technologies Departments in Anatolian Technologies Department (SPREAD)" (2007–2010). Following those successful initiatives, MoNE and JICA planned to transfer the knowledge and experience acquired through the above-mentioned projects to vocational and technical teachers of the countries in Central Asia and the Middle East.				
Objectives of the Project	 Through appropriate planning and effective provision of training for the target group as well as establishment of the follow-up system of the training, the project aimed to enhance the capacity of teachers for vocational and technical training on IAT in the target countries*, thereby contributing to the enhancement of such capacity of these counties. *Target countries: Country Focused Training (CFT): Azerbaijan, Kazakhstan, Pakistan Group Training (GT): Uzbekistan, Afghanistan, Kyrgyz, Palestine, Tajikistan and Turkmenistan The target countries were selected among neighboring countries, with consideration to the level of industrial development, the level of technical education and vocational training and the technical level as well as diplomatic relations with Turkey and political situations of the counties. Project Purpose: Technical education and vocational training capacity of teachers in IAT in target countries is enhanced. 				
Activities of the Project	 Project Site: Ankara, Izmir (Teacher Training Center (TTC) of Mazhar Zorlu Technical and Industrial Vocational High School (MZTVH)) Main Activities: Training needs identification of each country, Development/improvement of training curriculum, and Preparation/improvement of training materials, etc. Arrangement of logistics of training, Implementation and evaluation of training, etc. Development of a follow-up plan, Development of a web-based information system, Follow-up of the participants through the information system as well as the foreign offices of Turkish Cooperation and Coordination Agency (TIKA), and Evaluation of the impact of the training, etc. Inputs (to carry out above activities) Japanese Side Experts: 5 persons Staff Allocated: 16 persons Facilities (Computer laboratory, training materials, equipment for training room, etc.) Local cost Local cost 				
Project Period	May 2012 to April 2015Project Cost(ex-ante) 150 million yen, (actual) 206 million yen				
Implementing Agency	Ministry of National Education (MoNE)				
Cooperation Agency in Japan	IC Net Limited				

II. Result of the Evaluation

<Constraints on Evaluation>

Constraints on collection of data and information during the ex-post evaluation:

- Only limited information was obtained about the target countries in Central Asia and the Middle East, therefore it was impossible to examine some evaluation questions. Accordingly, judgement was made in such circumstances.
- Regarding the relevance, especially at the time of project completion, the consistency with the development needs was examined mainly with the situation in Turkey, due to the limitation in period and means of this evaluation study.
- 1 Relevance

<Consistency with the Development Policy of Turkey at the Time of Ex-Ante Evaluation and Project Completion>

At the time of ex-ante evaluation, in the long-term strategy of TTC, it was clearly stated that TTC would become functioning as human resource development center of technical and vocational education and training (TVET) in the field of IAT both in Turkey and for neighboring countries. In the development plans of the target countries, industry development and human resource development for industrial promotion were prioritized. At the time of project completion, the project was in line with the Turkish national development plan, namely the "Tenth Development Plan (2014-2019)", which emphasizes international cooperation through sharing experience with neighboring countries.

<Consistency with the Development Needs of Turkey at the Time of Ex-Ante Evaluation and Project Completion >

At the time of ex-ante evaluation, it was planned in Turkey to utilize experience learned through cooperation with Japan to promote cooperation towards neighboring countries with the needs for human resource development in the field of IAT. No change in the needs was observed at the time of project completion.

<Consistency with Japan's ODA Policy at the Time of Ex-Ante Evaluation>

Assistance in South-South cooperation was one of the five priority areas agreed by Japan and Turkey in the economic cooperation policy dialogue in 2008¹.

<Evaluation Result>

In light of the above, the relevance of the project is high.

2 Effectiveness/Impact

<Status of Achievement of the Project Purpose at the time of Project Completion>

At project completion, there were differences in the achievement level of each indicator of the Project Purpose and it is judged that the Project Purpose as a whole was partially achieved. As to the indicators to examine the improvement of capacity in introduction of IAT programs in the CFT countries, all the four indicators were achieved in Kazakhstan (Indicator A), and all the three indicators were achieved in Pakistan (Indicator B). In Azerbaijan, out of the three indicators, one was achieved while the other two (the selection of a pilot college to introduce IAT programs and the number of trained teachers in the Basic IAT Course) were not achieved (Indicator C). In regard to the six GT countries, the awareness on importance of IAT was observed in each country, although the level of awareness varied among countries (Indicator D-1). The target for the number of teachers trained in the Basic IAT Course was not achieved (Indicator D-2).

<Continuation Status of Project Effects at the time of Ex-post Evaluation>

The project effects have partially continued to the time of ex-post evaluation. In Kazakhstan, although the four pilot colleges selected during the project were not functioning due to budget shortage of the Ministry of Education and Science, the trained teachers have been implementing IAT training. In addition, preparation of establishing an IAT department has been under progress though there was a delay. In Pakistan, IAT training has not been implemented at the seven institutions selected during the project, but it has been implemented at the departments where the trained teachers are assigned. In Azerbaijan, the importance of IAT has been recognized. However, pilot institutions have not been selected and IAT departments have not been established either, therefore the trained teachers have not been implementing IAT training. Among the GT countries, in Kyrgyz and Palestine, as government policies for IAT promotion were established, the recognition of importance of introduction of IAT programs has been observed, and trained teachers have been implementing IAT courses. In Kyrgyz, additional three teachers became capable of teaching IAT courses. Out of the six GT countries, information on the other four countries was not obtained. Follow-up activities towards the target countries by Turkey are supposed to be provided based on requests by each country. However, as none of the target countries issued such requests, TTC/MZTVH has not provided training or follow-up. In addition, during the project period, a web-based training support information system was developed to promote communications among participants and between participants and TCC teachers as well as to provide support to participants after they went back to their own countries. TTC conducted updating the information and the system was utilized, However, the system was not fully utilized among participants expect for Pakistani participants, due to the English proficiency and the degree of access and skill of internet. Under these circumstances, the web-based information system developed during the project has not been appropriately maintained after the project completion and the web site cannot be accessed at the time of ex-post evaluation.

<Status of Achievement for Overall Goal at the time of Ex-post Evaluation>

The Overall Goal was partially achieved at the time of ex-post evaluation. Among the three CFT countries, in Azerbaijan, trial IAT programs were not introduced, and no information was available on the situations in Kazakhstan and Pakistan. Among the GT countries, IAT training has been introduced in Kyrgyz and Palestine, therefore the indicator was achieved in these two countries. No information was obtained from the other four countries.

<Other Impacts at the time of Ex-post Evaluation>

In Kyrgyz, the Automation & Robotics Department was established, achieving the Indicator of the Super Goal, namely establishment of IAT department in one of the participant's institution. No negative impact has been observed.

<Evaluation Result>

In light of the above, the Project Purpose was partially achieved, and the capacity to introduce IAT programs has partially continued in the target countries. The Overall Goal has been partially achieved. Some countries achieved the Overall Goal although information was not available in other countries. Another positive impact has been observed. Therefore, the effectiveness/impact of the project is fair.

Achievement of Project Purpose and Overall Goal					
Aim	Indicators		Results		
(Project Purpose)	(Indicator A:	Status of the Achievement: achieved (partially continued)			
	Kazakhstan)	(Project Completion) (Ex-post Evaluation)			
Technical education and	A-1: Technical and		Project Completion	Ex-post Evaluation	
vocational training	Vocational Education	A-1	Participants of the executive training	It is judged that the training participants	
capacity of teachers in	(TVE) administrators are		and the manager training developed	understood the procedure and method to	
IAT in target countries is	aware of what and how		action plans to introduce IAT programs	introduce IAT programs, as they have	
enhanced.	to introduce IAT program		to their schools.	been teaching IAT at their schools.	
	into the TVE.	A-2	Kazakhstan's Ministry of Education and	Due to budget shortage of the Ministry	
	A-2: At least 4 TVE		Science selected 4 TVET colleges in	of Education and Science, the selected	
	colleges are selected as		Kazakhstan as the IAT pilot colleges.	pilot colleges have not been functioning	
	IAT pilot college.			as planned.	
	A-3: At least 3 teachers	A-3	3 teachers from each of the 4 pilot	Although the pilot colleges have not	

¹ ODA Data Book (2010)

from each pilot college		colleges attended the Basic IAT Course	been functioning yet, the trainin
become capable of		at TTC and successfully completed and	participants, who are master teacher
teaching basic and		achieved the goal of the course.	have been implementing IAT-relate
e		-	
intermediate IAT course		According to the survey during the	training in the curriculum at th
as team.		project period, the participants started	departments where trained teachers a
A-4: Basic IAT course		teaching a part of theoretical subjects at	assigned. Also the master teachers a
program(s) are developed		the colleges where they belonged.	expected to provide training to oth
		the coneges where they belonged.	
based on the training at			teachers at other expanding schools.
TTC.	A-4	The participants developed action plans	The developed Basic IAT Courses hav
		to introduce Basic and Intermediate IAT	not been utilized, because no IA
		Courses in their schools. As a result, all	department has been established
		· · · · · · · · · · · · · · · · · · ·	
		4 colleges developed the programs and	planned.
		proposed the opening of them to the	
		local education authorities.	
(Indicator B: Pakistan)	Status of th	e Achievement: achieved (partially continue	(he
· · · · · · · · · · · · · · · · · · ·			
		mpletion) (Ex-post Evaluation)	
are aware of what and		Project Completion	Ex-post Evaluation
how to introduce IAT	B-1	High-ranking administrators who	It is judged that the training participan
program in their schools.		attended the Executive Managers	understood the procedure and method
		e	-
B-2: At least 3 or more		Course appropriately selected the	introduce IAT programs, as they have
institutions are selected		candidates for the CFT training courses	been teaching IAT at their schools.
for the participation to		at TTC and provided support, so that	
training in TTC.		teachers would be dispatched to TTC	
		-	
		for training for 3 consecutive years.	
trained in Basic,	B-2	A total of 7 institutions in Pakistan were	Training has not been implemented an
Intermediate and		selected and their teachers were sent to	the training institutions have not been
Advance IAT course at		the Basic (2012), Intermediate (2013)	functioning as budget was not allocate
TTC.			
IIC.		and Advanced IAT Courses (2014).	by local governments.
	B-3	10 Pakistani teachers took part in all 3	Training related to IAT has been
			· · · · · · · · · · · · · · · · · · ·
		courses, i.e. the Basic, Intermediate and	implemented in the curriculum at the
		courses, i.e. the Basic, Intermediate and Advanced IAT Courses.	
(Indicator C: Azerbaijan)	Status of th		departments where trained teachers a assigned.
• • •		Advanced IAT Courses. e Achievement: not achieved (Not continue	departments where trained teachers a assigned.
C-1: TVE administrators	(Project Co	Advanced IAT Courses. e Achievement: not achieved (Not continue mpletion) (Ex-post Evaluation)	departments where trained teachers a assigned. d)
C-1: TVE administrators are aware of what and	(Project Co	Advanced IAT Courses. e Achievement: not achieved (Not continue mpletion) (Ex-post Evaluation) Project Completion	departments where trained teachers a assigned. d) Ex-post Evaluation
C-1: TVE administrators are aware of what and how to introduce IAT	(Project Co	Advanced IAT Courses. e Achievement: not achieved (Not continue mpletion) (Ex-post Evaluation) Project Completion A total of 8 administrators attended the	departments where trained teachers a assigned. d) Ex-post Evaluation Managers understand the procedure an
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	are aware of the		judged that the importance of IAT was	policies on IAT program introduction	
	importance of the IAT.		recognized in each country.	and IAT education has been	
	D-2 : At least 10 teachers			implemented at the pilot college.	
	from each country are			Palestine: Importance of IAT has been	
	trained in Basic IAT			recognized as there are government	
	course.			policies on use and promotion of the	
				latest IAT technologies.	
				Tajikistan: No information	
				Turkmenistan: No information	
		D-2	Number of training participants at the	Uzbekistan: No information	
			time of project completion	Afghanistan: No information	
			Kyrgyz 12	Kyrgyz: Trained teachers teach students.	
			Tajikistan: 11	Palestine: Trained teachers teach	
			Turkmenistan: 6	students.	
			Uzbekistan: 2	Tajikistan: No information	
			Afghanistan: 0	Turkmenistan: No information	
			Palestine: 12		
			Total: 43 (Planned: 60 consisting of 10		
			from each country)		
(Overall Goal)	(Indicator 1)	(Ex-post ev	valuation) Partially achieved		
	Trial IAT program(s)	Kazakhstar	n: No information		
Technical education and	is/are introduced to the	Pakistan: N	lo information		
vocational training	participant's institution.	Azerbaijan: IAT department has not been established yet but its importance has been recognized.			
capacity on IAT of target		Uzbekistan: No information			
countries is enhanced.		Afghanistan: No information			
		Kyrgyz: The Automation & Robotics Department was established.			
		Palestine: IAT department has been established and the Ministry of Education and Higher			
		Education has issued the policies on promotion of the IAT department.			
		Tajikistan: No information			
	Turkmenistan: No information				
The indicators for the Proje	ect Purpose and the Overall	Goal were	defined, taking the situations of each target	country into consideration.	
a <u> </u>					

Source: Terminal Evaluation Report, Project Completion Report, Questionnaires to MZTVH and training participants in each target country 3 Efficiency

Although the project cost exceeded that plan, the project period was within the plan (ratio against the plan: 138% and 100%, respectively). Outputs of the project were produced as planned. Therefore, the efficiency of the project is fair. 4 Sustainability

<Policy Aspect>

In Turkey, "Vocational and Technical Education Strategy Paper and Action Plan (2014-2018)" describes the plan to strengthen TVET and to promote international cooperation in TVET. Among the target countries, development of vocational training is considered as important in the current global trends. In Kyrgyz, the President declared 2018 and 2019 as years of digitalization, emphasizing the importance of TVET as well as industry promotion. In Palestine, development of the curriculum and introduction of the latest equipment are under progress, in accordance with the declaration by the Minister of Education and Higher Education.

In Turkey, sufficient number of teachers and administrative staff are assigned to TTC to implement training courses, according to the information of MoNE. Among the target countries, in Kyrgyz, organizational structures are developed to conduct training and related activities based on government policies. In Pakistan and Palestine, it can be judged that the organizational structure for IAT training has not been established due to problems such as the gap between the needs required in the industry and the contents and level of college curriculum, shortage of information, and access to training institutions. To cope with the situation in Pakistan, a practical curriculum responding to the needs is being developed and disseminated, and the collaboration with the industry is being promoted. Among the nine target countries, no information was obtained from six countries.

<Technical Aspect>

In Turkey, General Directorate of Vocational and Technical Education (GDVTE), under MoNE, has experience of training for both Turkey and foreign countries. Teachers have experience to conduct training in collaboration with the European Union, with sufficient communication skills in English. The staff at MoNE who had involved in the project have been still engaged in their duties, while the number of staff at MZTVH was increased from six (during the project period) to ten. Therefore, it is judged that the knowledge and experience related to the project have been continuously utilized. Training to the target countries has not been implemented since project completion, because there was no request from the target countries. However, MoNE has enough capacity to select appropriate institutions in Turkey and to conduct training, when a training request is issued by a target country. Among the target countries, in Kyrgyz, the staff have a sufficient technical level to continue IAT training. In Pakistan and Palestine, the trained teachers have been continuously teaching IAT courses. Among the nine target countries, no information was obtained from six countries.

In Turkey, the budget for TVET is allocated to GDVTE and MZTVH, then allocated to TTC by MZTVH. According to the questionnaire, the allocation of the budget for MZTVH and TTC is sufficient. In regard to training for neighboring countries, MZTVH and TIKA were respectively allocated

Budget for TVET (Unit: USD)						
	2015	2016	2017	2018		
MoNE/GDVTE	1.37 bn.	1.83 bn.	2.20 bn.	2.07 bn.		
MZTVH	108,420	134,833	242,000	192,500		
Source: MoNE, Formal Education Statistics 2017-2018						

with approximately USD 10,000 and collaborated on providing training to neighboring countries. Regarding the target countries, information was obtained only from Kyrgyz and Palestine, and neither countries have secured financial resources for TVET on IAT as was planned at each school, and the budget is not sufficient, according to the questionnaire. These two countries are examining the possibility to secure the budget through financial assistance by overseas agencies. It is expected that the budget may be increased if the importance of the development of vocational training system is recognized in policies. <Evaluation Result>

In light of the above, no problem has been observed in terms of the policy, institutional, technical and financial aspects of the implementing agency in Turkey, while in the target countries, some problems have been observed in the institutional, technical and financial aspects. Therefore, the sustainability of the effectiveness through the project is fair.

5 Summary of the Evaluation

The project partially achieved the Project Purpose of enhancing TVET capacity of teachers related to IAT. It is said that the capacity of teachers have partially continued in general, as, among nine target countries, the capacity is continued in four countries but not continued in one country and information was not available for the remaining four countries. The Overall Goal of enhancing TVET capacity related to IAT in the target countries was achieved in some countries but no information was obtained from five countries out of nine, which means that the Overall Goal has been partially achieved. As to the sustainability, in Turkey, sustainability is high in the policy, institutional, technical, and financial aspects, while in the target countries, some problems have been observed in the institutional, technical, and financial aspects, because of the gap between market needs and technology taught at schools as well as the lack of budget and information. As to the efficiency, the project cost exceeded the plan. Considering all of the above points, this project is evaluated to be partially satisfactory.

III. Recommendations & Lessons Learned

Recommendations for Implementing Agency:

Follow-up of participants is important to conduct survey on the future trends of training and to plan and implement appropriate training. Therefore, it is necessary to actively discover the follow-up needs. The implementing agency is requested to facilitate the requests for the follow-up training by the target countries through collecting information about the situation of the target countries, instead of just waiting for such requests. Specifically, it is recommended to conduct follow-up once in one or two years, with the initiative of relevant departments of MoNE and in collaboration with each school.

Lessons learned for JICA:

It was difficult to trace the current status of training participants after the project completion, as there were many target countries. To efficiently conduct follow-up of the participants, it is necessary to establish a system to develop and maintain a web-site and to collect information of ex-participants. In order to follow up the participants for several years after the training, it may be advisable to formulate a mailing list and an information system during and soon after the training, so that the system would serve as a means of regular information sharing among the participants. In addition, it is important to appropriately maintain the developed mailing list and information system by the implementing agency. In conducting follow-up, it is important to obtain leadership of decision-makers of schools where the participants belong and to share the follow-up results with the ministry in charge. Therefore, it is desirable to send follow-up formats not only to participants but also to the responsible person of schools/institutes of the participants (signers of application form to dispatch participants) and person in charge of the ministry in charge. Furthermore, in south-south cooperation including training to neighboring countries, it is necessary to examine the monitoring and follow-up system to neighboring countries after the project completion at the early stage of the project formulation and to incorporate the monitoring and follow-up system into the project plan.



The equipment introduced to MZTVH is still being utilized during training.



One of the counterparts (right) was dispatched to Djibouti as expert and had discussions on the training in Turkey.