



IPUD - Supporting Sustainable Cotton Value Chains in Turkey

2nd Progress Report February – July 2021

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Project Synopsis

Project Title:	C45379/13014/88110 for Turkey: Supporting BCI standards in Turkey through Technical Advisory
Country:	Turkey

Programme Design:

Supporting Sustainable Cotton Value Chains in Turkey is a comprehensive project developed by the EBRD and IPUD which aims to increase the efficiency of cotton farming in Turkey by developing and introducing best practices and a sustainable cotton standards system that meets the requirements of BCI-compliant cotton production, thus overall improving the environmental, economic and social impact of cotton production in Turkey.

Objective:

The project's overall objective is to develop the capacities of Implementing Partners (IPs), field facilitators, farmers and ginners to improve the adoption of BCI standards and the efficiency of cotton farming in Turkey. The assignment has six specific objectives supporting the overall objective:

- Provide technical and agronomist advice and development of training materials to enable cotton farmers, ginners and trainers to meet and adhere to the Better Cotton Principles and Criteria;
- Giving ToTs by carrying out training activities on each BCI principle for IP staff (e.g. IP Manager, Project Coordinator, Producer Unit Manager (PU), Field Facilitator (FF)) Activities to include technical aspects of each principle and methods for delivery to farmers;
- Work with other stakeholders to set up demo farms and hold on-farm practical training to cover and demonstrate aspects of good practice in cotton-growing;
- Hold a general recruiting and training event to raise awareness among ginners on relevant topics;
- One-to-one advisory services for selected ten BC ginners and;
- One-to-one capacity-building support to IPs on determining the sustainability hotspots in the regions they work in, designing a Continuous Improvement Plan (CIP) on training priorities supports the adoption of more sustainable farming practices, and improving their capacity on the mapping of agricultural resources.

Expected Programme Outputs:

Project expected to achieve the following outputs:

a) Under the Advisory for Farmers:

- Farmer training modules and materials developed and accepted by the EBRD on five principles;
- A Training of Trainers program;
- ToT Handbook prepared and distributed to IPs;
- ToT Trainings delivered for two IPs in two regions for all IP Staff (at least 15 persons);
- Mapping methodology (water, soil and biodiversity) for IPs provided and accepted by the EBRD;



- Set-up and operation of 4 pilot farms in 2 IPs. A report on the success of the pilots with recommendations of improvements
- A report completed with resources mapped in two pilot villages and four pilot farmers;
- A report on the success of the FT & ToT programme with recommendations for improvement.

b) Under the Advisory for Ginners:

- Ginners training programme modules and materials developed and accepted by EBRD and IPUD;
- Assessment Report on Health & Safety, fibre quality-related issues, process management conditions of ten ginners;
- Assessment Report on structural ginning improvement needs for ten ginners;
- Report on one-to-one advisory services provided to ten ginners (including a note on required structural ginning improvements /Capex investments and financing developed and discussed with ginners);
- Report on general advisory on ginner activities successes and improvement suggestions.

c) Under the Advisory for Implementing Partners:

 Sustainability hotspots are chosen and Continuous Improvement Programs (CIP) designed for two Producer Unit managers (PUs) per IP; the total of four PUs will receive CIP; a report prepared for the usability of CIP.

Project starting date:	November 10, 2020
Project duration:	13 months (November 19, 2020 – December 31, 2021)



1 Overview of Progress and Achievements in the Reporting Period

This report explains the work packages of the Technical Consultancy (TC) activities and summarises the progress and achievements as to the different work packages during November 2020 – January 2021 period.

1.1 Work Package 1: Activities Related to Farmers and Trainers

Work Package 1: Activities Related to Farmers and Trainers

Objective:

To increase farmers' and trainers' capacity through a farmer training and training of trainers (ToT) programme.

Activities - Phase I

- Develop a farmer-training programme (FT) on five principles
- Develop a training of trainers (ToT) programme
- Develop a survey method to measure the impact of the FT and ToT programme
- ToT Handbook preparation and distribution to IPs
- Delivery of ToTs for two IPs in two regions for all IP Staff (Canbel and WWF)
- Participate in observing FTs to measure the success of the FTs and ToTs*
- Report on the success of the ToT/FT training with the recommendation of improvements

Outputs:

- Survey for farmers and trainers;
- ✓ Farmer training modules and materials;
- ✓ A Training of Trainers program;
- ToT Handbook prepared and distributed to IPs;
- ToT Trainings delivered for two IPs in two regions for all IP Staff (at least 15 persons);

Development of the ToT Materials

Following the identification of the needs of IPs' trainers in the period of the first progress report, the project team started to develop ToT materials. For this activity, seven training presentations were prepared and delivered to IPUD for their review and comments. After that, the consultant team has finalized these materials for the ToT activities. The developed training topics are: 1) Agricultural Extension and Communication with Farmers, 2) Soil Management and Cotton Fertilization, 3) Irrigation and Water Management, 4) Plant Protection and Integrated Pest Management -1, 5) Plant Protection and Integrated Pest Management -2 (protection equipment, spraying machines, toxicology etc.), 6) Biodiversity and 7) Harvest and Fibre Quality. These training materials are presented in Annex 1 of this report (in Turkish). Only, Pest Management -2 training was revised during the training and the trainer added additional topics and the revised version of this training will be presented in the next progress report.

Delivery of Training of Trainers Programme

After the preparation of ToT materials, IPUD and the consultant team were planned the programme and delivery method of the ToT. Due to the Covid pandemic, the project team decided to divide ToT into two parts as online training via Zoom in May, June and July 2021; and conducting a classroom and on-site training in September and October 2021. In addition to that, the farmer training will continue until the December. The main aim of the second part of training is to understand the issues



and problems the field facilitators experienced within their field activities and solve these problems that they faced.

The online ToT programme was started on the 20th of May with Agricultural Extension and Communications with the Farmers training. Following that the other technical training was delivered to the participants and the last ToT session is expected to be finalized on the 2nd of July. Approximately 20 participants were participated to each training session from Canbel, WWF, Doktar, GAP Regional Administration and Progen Seed. In Annex 2, the calendar of the ToT programme is presented. The videos of the training sessions (in Turkish) can be accessible from the below links:

Session 1: Agricultural Extension and Communication with Farmers / Soil Management and Cotton Fertilization:

https://drive.google.com/file/d/1eYfpKoLA1VwCgaGHTcHprsTMcXGix9KZ/view?usp=sharing

Session 2: Soil Management and Cotton Fertilization / Irrigation and Water Management: https://drive.google.com/file/d/1cHL453kOG8gjAYTVfMMIRCgBjZsXTbZP/view?usp=sharing

Session 3: Irrigation and Water Management / Plant Protection and IPM:

https://drive.google.com/file/d/1CGs18nHSp9i-oqFAV1gGjRJS61LaBP7v/view?usp=sharing

Session 4: Plant Protection and IPM:

https://drive.google.com/file/d/1FGY2iRRbTczZYfZbiCHL11m25eC6rHhE/view?usp=sharing

Session 5 – Part 1: Plant Protection and IPM: https://drive.google.com/file/d/1mSkyTG-Qxr7iJjSGdP4jI8QUa_yqNp29/view?usp=sharing

Session 5 – Part 2: Plant Protection and IPM:

https://drive.google.com/file/d/1d9xmUsEB0AR5cHojs6ahdtFsK7BXR0NJ/view?usp=sharing

Session 6: Plant Protection and IPM / Biodiversity Part 1:

https://drive.google.com/file/d/1NPeOseUn1yv41EdpBvHlPnqJ0vKrcjTw/view?usp=sharing

Session 6: Plant Protection and IPM / Biodiversity Part 2:

https://drive.google.com/file/d/1fClvCX4OyBGKML5B9GCbLUGRQSiq0PvR/view?usp=sharing

Session 7: Harvest and Fibre Quality: This Will be delivered on the 2nd of July and presented in the next progress report.

Farmer Training

The IPUD and consultant team had discussions about the format of farmer training. In these discussions, it is decided that to develop informative booklets includes all BCI princples together as farmer training material. The printed versions of these booklets will be distributed to the farmers while the PDF version will be accessible from the IPUD website. The consultant team prepared the draft versions of these brochures and sent them to IPUD for their review in July 2021. Following the revisions according to the IPUD's comments, the training materials will be finalized and distributed to the BCI farmers through field facilitators.

Development of Survey Method to Evaluate the Impact of ToT and Farmer Training

For the ToT programme, the consultant team was designed and has been using two types of surveys to measure the impact of the training on the participants' knowledge and receive feedback from the participants on the trainer and training material. These surveys are collected at the end of each training session and will be analysed and shared within the next progress report upon the completion



of ToT sessions.

Participate in observing FTs to measure the success of the FTs and ToTs

This activity of Work Package 1 is not started within this reporting period and it is expected to be completed in July or August 2021. Following the completion of the ToT sessions and distribution of farmer training materials, the experts of the consultant team will visit farmers together with the field facilitators and both measure the impact of ToT and FT and give recommendations to the field facilitators on the field.

ToT Handbook Preparation and Distribution to IPs

The consultant team has started to develop the ToT handbook within June 2021. Currently, the first two chapters (Soil and Irrigation) of the handbook were completed and the handbook is expected to be finalized in the third week of July following the completion of ToT sessions. These handbooks will be a referral book for the field facilitators and will cover all information delivered within the Training of Trainers sessions.

1.2 Work Package 2: Activities Related to Ginners

Work Package 2: Activities Related to Ginners

Objectives:

Develop the capacity of ginners to enable them to meet and adhere to the Better Cotton Standards, and improve their standards in terms of lint quality, health and safety, traceability and process management, structural ginning improvements and ways to finance their improvements.

Activities:

- Develop a ginner training programme
- Develop a survey method to measure the impact of the ginner training programme
- Assess ten ginners on health & safety, fibre quality-related issues, traceability and process management, structural ginning improvement needs and ways to finance their improvements;
- Assessment report on health & safety, fibre quality-related issues, traceability and process management, structural ginning improvement needs and ways to finance their improvements of ten ginners
- Assessment report improvement needs for ten ginners
- Hold a general recruiting and training event to raise awareness among ginners on relevant topics (Izmir)
- One-to-one advisory services for selected ten BC ginners
- Report on one-to-one advisory services provided to ten ginners
- Report on general advisory on ginner activities successes and improvement suggestions

Outputs:

- Ginners training programme modules and materials developed and accepted by EBRD and IPUD;
- Assessment Report on health & safety, fibre quality-related issues, traceability and process management, structural ginning improvement needs and ways to finance their improvements of ten ginners;
- Assessment Report on improvement needs for ten ginners;
- Report on one-to-one advisory services provided to ten ginners (including a note on required structural ginning improvements /Capex investments and financing developed and discussed with ginners);
- Report on general advisory on ginner activities successes and improvement suggestions

Assessment of the Ginners



Activities related to ginners was started within this reporting period with the assessment of selected 21 ginners. For this purpose, the consultant team created a comprehensive survey (Annex 3, in Turkish) with 68 different questions on 9 main topics. The individual answers given to the Ginner Needs Assessment Survey is also presented in Annex 4 (in Turkish).

Assessment Report

Following the completion of the surveys, the ginning experts of the consultant team analysed the given answers in-depth and evaluated them in nine main topics. The selected topics for the assessment of these ginners are:

- General information
- Technical Staff
- Health & Safety
- Fire Hazard
- Ginning, Storing and Quality
- Certified Seed Sales
- Sustainability, Traceability and Process Management
- Fibre Cotton Marketing and
- Finance.

The assessment report was finalized in June 2021 and can be found in Annex 5 (in Turkish).

Ginner Training Programme

After the identification of the current situation and needs of the ginners, the consultant team started to develop a ginner training programme to increase their capacity in technical staff, health & safety, fire hazard, ginning, storage and quality, sustainability, traceability, process management, fibre cotton marketing, structural gining improvements and financial instruments to finance the improvements. The development of this material is ongoing within the reporting period and expected to be finalized in July 2021. Following the development of training material, a ginner training event will be organized in July or August 2021.

One-to-one Advisory Services

Selection of ginners for and the delivery of one-to-one advisory service activities will begin in the next reporting period following the ginner training event.

1.3 Work Package 3: Activities Related to Pilot Farms

Work Package 3: Activities Related to Pilot Farms

Objectives:

Set up pilot farms to demonstrate good practices and their benefits to the farmers. Activities – Phase I:

- Support IPs on developing pilots' subjects and selection of demo plots in 4 farmers in 2 different villages
- Develop a survey method to measure the impact of the pilots
- Setting up demo farms (4 farmers/demo plants in 2 different villages) & delivery of on-farm practical training to cover and demonstrate aspects of good practice in cotton growing.
- Create a model in pilot villages by mapping four pilot farmers' water, biodiversity and soil resources and support IPs on how to replicate the activity in other farms
- Follow & support piloting farmers
- Participate in observing pilots measure the success of the pilots



- Report on the success of the pilot farms with the recommendation of improvements
- A report on the resources mapped in two pilot villages and four pilot farmers

Outputs – Phase I:

- Mapping methodology (water, soil and biodiversity) for IPs delivered and accepted by the EBRD;
- Set-up and operation of 4 pilot farms in 2 IPs. A report on the success of the pilots with recommendations of improvements
- A report completed with resources mapped in two pilot villages and four pilot farmers;
- A report on the success of the FT & ToT programme with recommendations for improvement;

Selection of Pilot Farmers

Within the reporting period, the pilot farms activity was started with the selection of pilot farms. Each IP selected two farmers for pilots and two farmers in Aydin Soke district and two farmers in Izmir Bergama district were selected. However, one of the pilot farmers in Soke district decided to leave our project after IPUD purchase the seeds for this farmer and our biodiversity expert completed the field analyses. This farmer, was replaced with another farmer within the same district. In each region, one of the selected farmers has degraded land and long-term activities to rehabilitate these areas were designed.

Pilot Activities

Following the selection of the farmers, the pilot activities and were designed together with the IPUD team and IPs. Each identified activity covers a BCI principle starting from the soil preparation to harvest. Finalized activities for the pilot farms is presented in the below table.

Activity	Method	Situation
Soil Preparation	Reduce Tillage - Ridgeplanting	Due to being late on the selection of pilot farms, this activity cannot be conducted. Thus, the current soil preparation activities of the farmers will be taken into consideration and this data will be used as a basis for future trials.
Seed Selection	Selection of the proper seed variety	Suitable seeds were identified and bought. In the areas with water shortages, drought-resistant varieties were chosen.
Sowing	Sowing with a pneumatic sowing machine	Sowing density was identified as 76 x 7. However, the farmers sowed the crops with 76 x 4 density. Thus, thinning will be conducted.
Soil Analysis and Fertilization	Soil analysis and calculation	Soil analyses were completed and the fertilizer requirements identified. Farmers have been monitoring for fertilization activities. Foliar humic acid will be tried within the pilots.
Topping	Trying topping against the taller plant growth.	Drought resistant varieties have a tall plant growth problem. The top growing points of these varieties will be removed at the desired height.
Weeding	Mechanical / hand hoeing	Will be done in relevant time.
Irrigation	Calculation of irrigation requirement, measurement of actual irrigation	Drip irrigation will be tried in Bergama and flood irrigation will be tried in Söke. Water requirement calculations will be made for both regions.

Table 1. Pilot activities



	amount, application to reduce the water use.	Methods for physical water calculation in flood irrigation and drip irrigation are being investigated. Irrigation differences between the field with and without soil moisture sensors will also be monitored through the installation of a water meter.
		Water samples for quality analyses were delivered to the laboratory.
Pest and Disease Control	Biological pest management agents and early warning systems.	Early warning systems with algorithms and trap cameras were installed into the fields. The pest population is monitoring in real-time. Price offer requested from a company for biological pest management agents and expecting their offer.
Harvest and Fibre Quality	Defoliant application at the right time and techniques before harvest	Most suitable options will be monitored.
Farm Accounting	Calculation of the production costs	Frankfurt School will calculate the production cost and income through their methodology.

In Annex 6, the activities done by the farmers and in Annex 7, the estimated budget within the reporting period for pilots is presented.

Digital Solutions

In addition to the activities, digital solutions are also used within the pilot farms. For this purpose, the IPUD and consultant team had meetings with the technology service providers and identified a solution. These solutions consist of 2 physical weather stations, 6 virtual weather stations, 8 feromone traps, 4 colour traps and 2 soil sensors were installed in the pilot fields. Through these systems, current weather data, weather forecasts, early climate, disease and pest warnings, irrigation and soil salinity monitoring activities are done. After installation of the system, the representatives of the providers were delivered training to IPUD, expert team and farmers. The system is currently operative and these parameters are monitored frequently.



Figure 1. Clasroom and field training on the used digital solutions.



Mapping of Agricultural Resources in Pilot Farms

To map the agricultural resources and biodiversity, the consultant team conducted a two-week field mission in April and May 2021. In these visits, the experts were surveyed around the pilot farms, identified the other species and evaluated the biodiversity, analysed the resources that affect the production and prepared a comprehensive draft report on these analyses. This draft is shared with the IPUD in July 2021 and following the comments and suggestions will be completed. The draft version of this report is presented in Annex 8 (in Turkish). The maps for soil type and water resources will be prepared in August 2021 after the field visits of our project experts.

1.4 Work Package 4: Activities Related to IPs

Work Package 4: Activities Related to IPs

Objectives:

Support the IPs on the Continuous Improvement Plan design, selection of sustainability hotspots, and mapping agricultural resources.

Activities - Phase I:

- Determining the sustainability hotspots in the regions where IPs work in to support them designing a Continuous Improvement Plan
- One-to-one capacity-building support to IPs & Design of Continuous Improvement Plan (CIP) on training priorities.
- Develop methodology on how to map agricultural resources, including water, biodiversity and soil
- Regular follow-up and observation of CIPs
- A report prepared for the usability of CIP for a total of four Producer Units.

Outputs - Phase I:

Sustainability hotspots will be chosen and Continuous Improvement Programs (CIP) designed for two Producer Unit managers (PUs) per IP; the total of four PUs will receive CIP; a report prepared for the usability of CIP.

Determining Sustainability Hotspot

To determine sustainability hotspots, the consultant team, IPUD and IPs, divided the activity province and districts into sub-regions. Following that, the potential data points were identified. But, due to the lack of local-level data, the project team decided to analyse sustainable hotspots, through expertbased surveys and IPs filled these surveys for each identified sub-regions. The IP in the Soke district completed the Survey but for the Manisa and Izmir provinces, it is still filled by the responsible IP. The result of the sustainability hotspots analyses are transferred to Google Custom Maps and sustainability topics for the identified region is demonstrated in this system. The links to access sustainability maps of the Soke district is presented below:

Sustainability and BCI Principles:

https://www.google.com.tr/maps/d/viewer?mid=1osrSKsDn9xtF71eZg4Sb0k6yPAKLy53o&ll=37.67 3133471842405%2C27.36783105000007&z=11

Principle 1 – Plant Protection:

https://www.google.com.tr/maps/d/edit?mid=1nmTODoH3CZ9Bkk2kgIx4bO6pRSULXiro&usp=sha ring

Principle 2 – Irrigation: https://www.google.com.tr/maps/d/edit?mid=1REER4vwYMIN0E2bJc-FrnU8tCqkxEdBK&usp=sharing



Principle 3 – Soil:

https://www.google.com.tr/maps/d/edit?mid=1jWZL7omYYCsQeCNyagcTjtyqciOJaGm2&usp=shari ng

Principle 4 – Biodiversity:

https://www.google.com.tr/maps/d/edit?mid=1PfHcxPaBoscw0Of78g8Zgxxb3uaiElL-&usp=sharing

Principle 5 – Harvest and Fibre Quality:

https://www.google.com.tr/maps/d/edit?mid=1XP2KnZ7_KM8gcSxyzZToATCrjnu9BkMG&usp=sha ring



Figure 2. Soke district sustainable hotspot map for BCI principles.

Continuous Improvement Plans (CIPs)

Within the reporting period, the consultant team evaluated the previous and current CIPs of the IPs and identified the problems that they faced. According to these analyses, IP responsible for the Soke region, WWF, does not experience any problems with the implementation and monitoring of the CIP. The only problem observed in the WWF's CIP is the activities are named as ongoing other projects of WWF. The names of these activities is will be revised according to the respective BCI principle. In the case of CANBEL, it was identified that they do not have any solid methodology to monitor and evaluate the impact of the current CIP. The consultant team were determined the indicators and data resources to evaluate these activities and presented them to CANBEL: During the project period, the consultant team will monitor the WWF and CANBEL's CPIs and design a new activity by considering the results of hotspot analyses.

1.5 Progress on the Project Workplan

N°	Activities				-					
IN	Activities	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21
A- 1	Activities related to Farmers/ToT									
A- 1.1	Develop a farmer-training programme (FT) on five principles									
A- 1.2	Develop a training of trainers (ToT) programme									
A- 1.3	Develop a survey method to measure the impact of the FT and ToT programme									
A- 1.4	ToT Handbook preparation and distribution to IPs									
A- 1.5	Delivery of ToTs for two IPs in two regions for all IP Staff (Canbel and WWF)									
A- 1.6	Participate to observe FTs to measure the success of the FTs and ToTs*									
A- 1.7	Report on the success of the ToT/FT trainings with recommendation of improvments									
A- 2	Activities related to ginners									
A- 2.1	Develop a ginner training programme									
A- 2.2	Develop a survey method to measure the impact of the ginner training programme									

N°	Activities	NI 20	D	L	5.1.24	L M. 24	A 24	N. 24		
	Access ton sinners on boolth 9 setety fibre	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21 Ju	I-21
A- 2.3	Assess ten ginners on health & safety, fibre quality related issues, process management, structural ginning improvement needs									
A- 2.4	Assessment report on health & safety, fibre quality related issues, process management conditions of ten ginners									
A- 2.5	Assessment report on structural ginning improvement needs for ten ginners									
A- 2.6	Hold a general recruiting and training event to raise awareness among ginners on relevant topics (Izmir)									
A- 2.7	One-to-one advisory services for selected ten BC ginners									
A- 2.8	Report on one-to-one advisory services provided to ten ginners									
A- 2.9	Report on general advisory on ginner activities successes and improvement suggestions									
A- 3	Activities Related to Pilot Farms									
A- 3.1	Support IPs on developing pilots subjects and selection of demo plots in 4 farmer in 2 different villages									
A- 3.2	Develop a survey method to measure the impact of the on-farm practical training programme									

N°	Activities												_						 			. .			1		
		Nov-20)	Dec-20			Jan-21			Feb-21			Mar-21			Ар	r-21	M	ay-2	21	J	JN-2	-21		Jul-2	1
A- 3.3	Setting up demo farms (4 farmers/demo plants in 2 different villages) & delivery of on-farm practical training to cover and demonstrate aspects good practice in cotton growing.																										
A- 3.4	Create a model in pilot villages by mapping 4 pilot farmers' water, biodiversity and soil resources and support IPs on how to replicate the activity in other farms																										
A- 3.5	Follow & support piloting farmers																										
A- 3.6	Participate to observe pilots to measure the succes of the pilots																										
A- 3.7	Report on the success of the pilot farms with recommendation of improvements																										
A- 3.8	A report on the resources mapped in two pilot villages and four pilot farmers																										
A- 4	Activities Related to IPs				•		÷	·		·						·											
A- 4.1	Determining the sustainability hotspots in the regions where IPs work in to support them designing a Continuous Improvement Plan																										
A- 4.2	One-to-one capacity building support to IPs & Design of Continious Improvement Plan (CIP) on training priorities.																										



N°	Activities				•		•			
	Activities	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21
A- 4.3	Develop methodology on how to map agricultural resources, including water, biodiversity and soil									
A- 4.4	Regular follow-up and observation of CIPs									
A- 4.5	A report prepared for usability of CIP for the total of four Project Units.									

Completed and ongoing activities

Incomplete activities