PROJECT IMPLEMENTATION PLAN

Reference No.: 640

Date of Issue	24 June 2025
Project Code	25-RC-04-GE-COE-C-TW02
Title	Study Mission on Advanced Industrial Technologies for Digital, Low-carbon Transformation
Timing	19 August 2025–22 August 2025
Hosting Country(ies)	Republic of China
Venue City(ies)	Taichung and Taipei
Modality	Face-to-face
Implementing Organization(s)	China Productivity Center and APO Secretariat
Participating Country(ies)	Turkiye
Overseas Participants	5
Local Participants	Not Applicable
Closing Date	Not Applicable
Remarks	This program is a face-to-face study visit to the CPC and innovative companies in the ROC, emphasizing advanced digital, low-carbon manufacturing practices tailored for directors and engineers from Lean and Digital Transformation Centers (model factories) in Turkiye.

Objectives	Equip participants with an in-depth understanding of advanced digital solutions and low-carbon manufacturing technologies; facilitate benchmarking and discussion of innovative smart manufacturing (SM) methods; showcase practical insights and methodologies for integrating smart sustainable practices within existing lean manufacturing processes; and build strong networks among international participants and local experts for future collaborative initiatives.
Rationale	To enhance the overall SM capabilities of APO members, the Center of Excellence (COE) on SM dispatches experts from the ROC to share knowledge and skills. At the same time, the COE on SM invites representatives from APO members with specific needs to visit the ROC to understand the operational model of the CPC Smart Manufacturing Demo Site and benchmark cases of smart production line implementation in ROC enterprises to help facilitate industrial upgrades and explore methods for adopting smart, automated equipment. This study mission will showcase successful models of digital transformation and low-carbon manufacturing techniques, demonstrating real-world applications and encouraging the adoption of innovative, energy-efficient practices to enhance the sustainable growth of manufacturing industries.
Background	The Turkish Ministry of Industry and Technology (NPO Turkiye) established 10 model factories (learning factories) in 10 provinces to guide manufacturers across the country. Consultants in those factories in Turkiye are providing lean transformation consultancy to manufacturers. Now the challenge is providing digital transformation consultancy besides lean transformation consultancy. The current gap in digital readiness across many Turkish factories, combined with limited local examples of successful lean–digital integration, underscores the need for a structured, strategic approach. To address this, a group of model factory consultants will undertake a study mission to the COE on SM and successful companies to observe best practices, gain practical insights, and explore how ROC manufacturers have successfully aligned digital solutions. By doing so, Turkish consultants aim to enhance their own competencies, develop a transformation framework tailored to the Turkish industrial context, and ultimately support local manufacturers in navigating the digital era.
Topics	Site visits to stakeholders with best practices demonstrating the integration of sustainable digital transformation for understanding COE strategies on SM in implementing digital, low-carbon manufacturing, including the CPC Central Regional Office, Digiwin 5G AIoT Experience Center, Victor Taichung Machinery Works Co., Ltd., A-PRO Group, Exhibition of Automation Taipei 2025, and Da Shiang Technology Co., Ltd, and presentations of action plans by participants.
Outcome	Participants gain hands-on insights into SM technologies and sustainable practices, develop plans to incorporate digital, low-carbon solutions within their operations; build international and local partnerships supporting innovation and technology exchanges; and share success stories and lessons learned from model factories to drive transformation.
Qualifications	Professionals in leadership or managerial roles within model factories in Turkiye with a basic understanding of digital transformation and sustainable industrial practices and business-level command of English.

Please refer to the implementation procedures circulated with this document for further details.

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