



ASIAN PRODUCTIVITY ORGANIZATION

PROJECT IMPLEMENTATION PLAN

19 January 2017

1. **Project Code** 11-RP-32-SPP-INF-01
2. **Project Title** International Conference on Industry 4.0 and the Future of Productivity
3. **Reference** APO Project Notification dated 23 June 2011
11-RP-32-SPP-INF Special APO 50th Anniversary Publication
4. **Timing and Duration** 23–25 May 2017 (three days)
5. **Venue** Taipei, Republic of China
6. **Implementing Organizations** China Productivity Center (CPC)
Address: 2F., No. 79, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Republic of China
Phone: 886-2-2698-5886
Fax: 886-2-2698-2976
e-Mail: 2017@cpc.org.tw
7. **Number of Overseas Participants** Up to 36 qualified participants
(See 13. Qualifications of Participants)
8. **Number of Local Participants** Up to 20 qualified participants
(See 13. Qualifications of Participants)
9. **Closing Date for Nominations** 24 April 2017

10. Objectives

To provide a platform for discussing and sharing views on Industry 4.0 and its implications for the future productivity of industries in member economies; enhance understanding among various stakeholders of the challenges, opportunities, and required actions for industries to benefit from the Fourth Industrial Revolution; and present initiatives related to the adoption of Industry 4.0 as a strategy to improve productivity.

11. Background

Industry 4.0, which was launched in Germany in 2014 as a platform to establish the country as a key supplier of cyberphysical production systems, is attracting great interest worldwide. It has inspired the establishment of cooperation across industries and economies to connect

complementary initiatives. The Platform Industry 4.0 has adopted an action plan for future cooperation with the Japanese Robot Revolution Initiative, agreed on cooperation with the Industrial Internet Consortium for future interoperability of systems and the use of common testbeds, and joined forces with the French Alliance Industrie du Futur in a shared action plan. Several other initiatives are expected to follow.

Industry 4.0 integrates manufacturing with state-of-the-art information and communication technology linked to logistics processes between different companies in order to optimize material flows and respond flexibly to changing customer needs and market conditions. This smart approach makes it possible to deliver tailored products to meet individual customer requirements in terms of quality and cost. The vision of Industry 4.0 is a production system where smart machines coordinate manufacturing processes by themselves, smart service robots cooperate with people on assembling the products, and smart transport vehicles cover the logistics side on their own. Industry 4.0 encompasses the entire life cycle of a product, from concept to development, manufacturing, use, maintenance, and then to recycling. The development of smart factories where artificial intelligence will dominate the process is seen by some as an important step in addressing the declining labor supply and sluggish global productivity growth, particularly in the industrialized economies. Thus, the employment of robots and intelligent machines in smart factories is seen as important strategy to rev up productivity again.

This conference will bring together government and industry leaders, scholars, and experts from various countries to share their views on the challenges and future opportunities resulting from the Fourth Industrial Revolution and transformation of businesses and directions of productivity and economic growth for the Asia-Pacific region in the future. This conference has the theme “Applying Intelligent Machines to Gear up Productivity Again” and is supported by a grant provided by the ROC.

12. Scope and Methodology

The tentative themes and topics for the different sessions are:

1. Industry 4.0 in Europe
2. The industrial Internet of Things
3. Smart factories and productivity
4. Artificial intelligence and robot technology
5. Ecosystems to support start-ups
6. Bridging skill gaps in the digital economy
7. Next-generation cybersecurity in a digital world

The tentative schedule of the conference is given below:

<u>Date/Time</u>	<u>Activity</u>
Mon., 22 May 2017	Arrival of participants in Taipei
Tues., 23 May 2017	Conference opening Keynote presentations
Wed., 24 May 2017	Keynote presentations Panel sessions
Thurs., 25 May 2017	Company visit Conclusions Closing

13. Qualifications of Candidates

The participants are expected to possess the following qualifications:

Present Position	Senior government policymakers, industry leaders, CEOs of private companies, consultants, scholars, and academics.
Experience	At least two years of experience in the position described above.
Education	University degree or equivalent qualification from a recognized university/institution.
Language	All proceedings of the project are conducted in English, and participants are frequently required to make oral and written presentations. They must therefore be proficient in spoken and written English. Those who are not proficient in English will not be accepted.
Health	Physically and mentally fit to travel to attend the conference.
Age	Candidates who fit the above profile are typically between 35 and 55 years of age.
APO Certificate	Participants are required to attend the entire program to receive the APO certificate of attendance.

14. Financial Arrangements

To be borne by participants or participating countries

- a. Participants' insurance premiums: All participants should be fully insured against accident and illness (including hospitalization and death) for a principal sum equivalent to USD10,000.00 for the entire duration of the project and travel and must submit to the APO Secretariat a copy of the comprehensive travel insurance certificate before participation. Such insurance should be valid in the host country. This insurance requirement is in addition to existing government insurance coverage in some member countries. If any participant is unable to insure himself/herself as stipulated above, he/she should secure this insurance in the host country at the commencement of the project and pay the premium himself/herself, if necessary, from the per diem allowance provided. Neither the APO nor the implementing organizations will be responsible for any eventuality arising from accident or illness.
- b. All expenses related to visa fees and airport taxes.
- c. Any expenses incurred by participants for stopovers on the way to and from the project venue as well as for extra stay at the project venue before and/or after the official project period because of early arrival or late departure, for example, due to either limited available flights or any other reason.

To be borne by the host country (Republic of China)

- Implementation costs for local participants.

To be borne by the APO

- a. All assignment costs of overseas resource persons.
- b. Local implementation costs including the conference venue and package.

- c. Per diem allowances and hotel accommodation of all overseas participants for up to four days at the rate to be specified later.
- d. Round-trip economy-class international airfare by the most direct route between the international airport nearest to the participants' place of work and Taipei. As far as practicable, all participants should purchase discount tickets.

15. Actions by Member Countries

- a. Each participating country is requested to nominate at least three or more candidates in the order of preference as cited in item 13 Qualifications above. Please ensure that candidates nominated meet the qualifications specified under section 13 above.
- b. No form of self-nomination will be accepted. All nominations must be endorsed and submitted by an APO Director, Alternative Director, Liaison Officer, or their designated officer.
- c. Please note that nomination of a candidate does not necessarily guarantee that he/she will be selected. Selection is at the discretion of the APO Secretariat. A basic criterion for selection is the homogeneity of the participants in terms of qualifications and work experience. Nonselection therefore does not mean that the candidates concerned are not competent enough.
- d. Each nomination should be accompanied by the necessary documents. A nomination lacking any of these documents may not be considered: two copies of the candidate's biodata on the APO biodata form together with a passport-sized photograph. The biodata form can be downloaded from the APO website (www.apo-tokyo.org). We encourage submitting the biodata form to the APO Secretariat in electronic form as an attachment to a cover e-mail message from the APO Director, Alternate Director, or Liaison Officer. The nomination documents should be sent to the Research and Planning Department, APO Secretariat (e-mail: rp@apo-tokyo.org, fax: 81-3-5840-5324).
- e. Every candidate must complete and submit a copy of the APO Medical and Insurance Declaration/Certification Form with his/her biodata at the time of nomination. Please note that self-declaration is sufficient for candidates without any of health conditions or illnesses listed on the reverse side of the medical form. However, for all others, medical certification by a licensed physician on the reverse side of the medical form is required.
- f. Necessary documents are to be submitted electronically. In that case, there is no need to send a hard copy by postal mail. However, if the documents are submitted by fax, member countries are requested to mail the originals of the documents to the APO Secretariat as well. If a digital photograph of a nominee is not attached to the electronic biodata form, a hard-copy photograph should be sent to the APO Secretariat by postal mail. Please give the candidate's name and the project code on the reverse side of the photograph.
- g. Member countries are requested to adhere to the nomination deadline given on page 1. The APO Secretariat may not consider late nominations as they have in the past resulted in considerable difficulties to the implementing organization in its preparatory work for the project.
- h. For member countries where nominations are required to be approved by higher government authorities and require a longer time, the APO Liaison Officers/NPOs are urged to send the names of nominees on or before the deadline, indicating that government approval will follow.

- i. If a selected participant becomes unable to attend, he/she should inform the APO Liaison Officer/NPO in his/her country immediately and give the reason for withdrawal. The NPO concerned is requested to transmit that information to the APO Secretariat and the host country promptly.
- j. NPOs are requested to inform the selected participants that they are not to bring family members or to engage in any private business activities during the entire duration of the project.
- k. Each selected participant should be advised to arrive at the venue one day before the start of the official project. Also, he/she is expected to return home upon completion of the official project because he/she is visiting the host country for the specific purpose of attending this APO conference.
- l. NPOs should inform participants that they must attend all three days of the project to qualify for the certificate of attendance.

16. Actions by the APO Secretariat

- a. Under normal circumstances, candidates who are selected will be informed of their acceptance at least four (4) weeks prior to the start of the project.
- b. If some candidates fail to qualify or be unable to participate after selection, or if some member countries fail to nominate any candidate, their slots may be filled by alternates from the same or another member country on a merit basis.

17. Guide for Participants

Other conditions for participation are given in the *APO Guide for Participants*, which is available from APO Liaison Officers/NPOs in member countries and on the APO website (www.apo-tokyo.org).



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