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ROC Country Paper for Industry Transformation Committee

The era of Industry 4.0 have arrived following the constant renewal of technology development. With Smart Automation lying as its foundation, Industry 4.0 have deeply affected the national productivity by integrating advanced technologies such as Internet of Things (IoT), Smart Robots, Big Data and Lean Management as well as creating a networking system which consists of Smart Manufacturing and Smart Service. In order to build up new economic development models to enhance international competitiveness, the ROC Government implemented the “5 + 2 Industrial Innovation Program” that is intended to lead industries towards industrial upgrade and transformation, and invigorate new industrial growth.

Smart manufacturing shapes the future landscape of global industrial development. The local Government has launched the “Smart Machinery Development Program”, which first incorporates the development achievements of precision machinery and information technology capacity as its foundation, then by utilizing the three strategic policies, namely “connect locally”, “connect to the future” and “connect globally”, thus lead the way to establishment of new smart machinery industry ecosystem that would position the ROC in the global smart machinery R&D and end-user application field as a general solution provider.

Moreover, due to the ROC’s advantages in advanced industrial development,

state-of-the-art technologies and professional consulting experiences, the local government will be submitting an application on “APO Center of Excellence on Smart Manufacturing” in October 2018 with the integration of government policies and relevant resources. This COE is expected to establish, operate and maintain a platform to host regional technological conferences, international forums and technical service interactions and delegation visits to encourage benchmark learning among member countries. It is hoped that this would provide the needed space and resources for all members to build, on a joint effort, a smart manufacturing and service ecosystem in order to promote the industrial upgrade and productivity enhancement in the Asia-Pacific region.

The China Productivity Center will continue to assist the ROC government on its focus in Industry 4.0 while heading towards the development era of Smart Manufacturing. In addition, CPC will collect relevant information on the field of Industry 4.0 and promote the concept and methodology of Smart Manufacturing to the APO Member Countries. Furthermore, CPC will strengthen the links between industries, governmental sectors, academia and research institutions for resource integration and effective implementation and grasp the industrial development trend in the near future. Not only would this increase its production value, raise the added-value, and enhance ROC’s international competitiveness, but also of its fellow APO Member countries in the context of global value chain, forming a mutual win-win situation.