

# 從資料、資訊、知識到智慧之氣候變遷整合服務平台

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## 摘 要

為因應國家推動氣候變遷調適行動計畫以及永續發展指標，同時支援國內於氣候變遷風險與調適評估相關學術研究，「臺灣氣候變遷推估資訊與調適知識平台計畫」(TCCIP)在科技部的支持下，於2012年便以提供國內在地化氣候變遷資料與科學數據服務為宗旨，推出第一代平台；之後為因應國內對氣候變遷資料以及氣候變遷相關知識的需求增長與期待，於2015年以提供氣候變遷大數據資料以及氣候變遷資訊展示為目的，推出第二代TCCIP平台。計畫團隊在持續提供國內氣候變遷資料與資訊服務的同時，不斷精進氣候變遷推估技術與能力，以使用者需求為導向，鏈結與整合氣候變遷資料、資訊、知識與智慧，重新設計與改版，於2019年10月推出全新之第三代氣候變遷整合服務平台。本研究將介紹與說明第三代平台的服務特點，包括提供更便利的資料服務，推出與更新更多的氣候變遷資料，並透過互動式介面讓氣候變遷數據變成便利與直覺式的資訊，搭配氣候變遷指標圖集，提供國內更多在氣候變遷調適行動計畫推動過程所需要的資料與資訊服務。為了讓部會與地方在推動氣候變遷調適行動計畫過程有更完善的資訊、知識、案例與方法學可以參考，TCCIP將在2020年10月推出“調適百寶箱”(簡稱ARK)，提供淹水、坡災、水資源、農業、海岸、漁業、公衛等七個領域的氣候變遷危害圖、衝擊圖、示範操作案例，並提供調適規劃方法學與工具，同時蒐集與彙整國內外上百的調適案例，作為國內部會與地方之調適行動計畫之應用與參考，並透過上百場淹水模擬所匯集而成的調適模擬器，了解上百種調適方案組合下之淹水調適效益。

關鍵字：氣候變遷，資料服務，知識服務

## From Data, Information, Knowledge to Wisdom – the Integrated Service Platform for Climate Change

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### Abstract

In response to the promotion of national climate change adaptation action plans and sustainable development indicators, as well as support for domestic academic research on climate change risk and adaptation assessment, the first-generation platform "Taiwan Climate Change Projection Information and Adaptation Knowledge Platform Project" (TCCIP) which was supported by the Ministry of Science and Technology was launched in 2012 to provide localized climate change data and scientific data services. Later, in response to the domestic demand for climate change data and climate change related knowledge, the second generation TCCIP platform was launched for the purpose of providing climate change big data and climate change information display in 2015. While continuing to provide climate change data and information services, the project team continues to refine climate change estimation technology and capabilities. A new third-generation TCCIP integrated service platform for climate change, which was designed by user-oriented method and integrate climate change data, information, knowledge and wisdom, was launched in October 2019. This study will introduce and explain the service characteristics of the third-generation platform, including providing more convenient data services, launching and updating more climate change data, and making climate change data convenient and intuitive information through an interactive interface. The Atlas of Climate Change Indicators provides more data and information services needed in the promotion of climate change adaptation action plans. In order to allow the ministries and local governments to have more complete information, knowledge, case studies and methodologies for reference in the process of promoting climate change adaptation action plans, TCCIP will launch the "Adaptation Resources Kit" (ARK) in October 2020 to provide climate change hazard maps, impact maps, and demonstration operation cases in seven fields including flooding, slope disasters, water resources, agriculture, coasts, fisheries, and public health, and provide adaptation planning methodology and tools, and collect and aggregate hundreds of adaptation examples. The application and reference of domestic and local adaptation action plans, and through the adaptation simulator assembled from hundreds of flooding simulations, learn about the flooding adaptation benefits under the combination of hundreds of adjustment cases.

Keywords: Climate change, data service, knowledge service