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Всемирная метеорологическая организация  
المنظمة العالمية للأرصاد الجوية  
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Subject: Endorsement of “Inverse modelling for Validating and Evaluating of the Reduction of Sectoral greenhouse gas Emissions in KOREA – INVERSE KOREA” as an official project of the Integrated Global Greenhouse Gas Information System (IG<sup>3</sup>IS)

Dear Mr Park,

I am pleased to learn about the advances made by the Republic of Korea with regard to the establishment of the Integrated Global Greenhouse Gas Information System (IG<sup>3</sup>IS) on multi-scales from national to urban. The efforts of the Republic of Korea are highly valued by the World Meteorological Organization (WMO). As you are aware, the observations of GreenHouse Gases (GHG) coordinated by the Global Atmosphere Watch (GAW) Programme of WMO and performed by its members and partners around the globe help support society in guiding climate action and improving understanding of the carbon cycle. This data is used to produce the annual WMO Greenhouse Gas Bulletin, and guide analysis and assessments that support the United Nations Framework Convention on Climate Change (UNFCCC) and the Intergovernmental Panel on Climate Change (IPCC). Observational data combined with modelling allow for the improved estimates of GHG emissions following the methodology of the IG<sup>3</sup>IS.

In this regard, I have received the request for the official endorsement of “*Inverse modelling for Validating and Evaluating of the Reduction of Sectoral greenhouse gas Emissions in KOREA – INVERSE KOREA*” led jointly by Dr Sangwon Joo from the National Institute of Meteorological Sciences and Dr Haeyoung Lee from the Korea Meteorological Administration, as an official project of IG<sup>3</sup>IS. This project was presented and discussed at the recent IG<sup>3</sup>IS Steering Committee. The IG<sup>3</sup>IS Steering Committee has reviewed the proposal and assessed its alignment with the IG<sup>3</sup>IS principles and objectives. The Steering Committee concluded that the project meets all the requirements for an IG<sup>3</sup>IS endorsement and welcomed the important contribution that the initiative will provide to the IG<sup>3</sup>IS National Objective. It was understood that at the next stages the project will address the urban scale as well.

The proposed project will contribute to the national objective of IG<sup>3</sup>IS. Following the IG<sup>3</sup>IS implementation principles, the project includes frequent estimations of sectoral emission changes in GHG to support the national GHG reduction policy for individual emission sectors in a timely manner. The top-down estimates to be established in the project will minimize the uncertainty in the national emission inventory for reliable evaluation of the Nationally Determined Contributions (NDC). Such estimates are critical in carrying out the policy for achieving carbon neutral by 2050. The project products will be used to provide guidance to individual emission sectors to conform to the emissions policy.

The proposed project will make important steps toward the advancement of the methodological approaches in IG<sup>3</sup>IS. If fully implemented, it will benefit the country and the global community highlighting the advantages of the observations-based approach to emission estimates at different scales. Lessons learned from the project implementation will be included in the updates of the IG<sup>3</sup>IS good practices and will help other Members to build their national and subnational projects taking the example of the Republic of Korea into consideration.

WMO therefore endorses the project "Inverse modelling for Validating and Evaluating of the Reduction of Sectoral greenhouse gas Emissions in KOREA" as an official IG<sup>3</sup>IS project. I look forward to the project results and its contribution to the activities of the GAW Programme and its IG<sup>3</sup>IS initiative.

I would like to express my appreciation for your continued support in promoting the activities of WMO.

Yours sincerely,



Dr Elena Manaenkova  
for the Secretary-General