

## **CGMS TIGER TEAM ON SOCIO-ECONOMIC BENEFITS OF SATELLITES**

*(Submitted by Richard Eckman, NASA)*

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### **Summary and Purpose of Document**

This document reports on a CGMS activity, the CGMS Tiger Team on Socio-Economic Benefits of Satellites (SETT), to develop a credible methodology and common terminology for articulating the socio-economic benefit of satellite observing systems and to explore the most effective ways to communicate this information to desired stakeholders.

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### **ACTION PROPOSED**

The eighth session is invited to:

- (a) Take note of these activities and consider the synergies between the SETT and the GFCS user case study effort presently conducted by ET-SUP and CGMS/CEOS Working Group on Climate (item 12.1)
- (b) Suggest approaches for assessing economic value of space-based observations that may be conveyed to the Tiger Team prior to its next meeting (24-25 April 2014)

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**Appendices:** A. Annotated agenda of first in-person SETT meeting, Darmstadt 24-25 April 2014.

## **DISCUSSION**

### **Introduction**

At the 41<sup>st</sup> Plenary of the Coordination Group for Meteorological Satellites (CGMS) held on 8-12 July 2013 in Tsukuba, Japan, it was agreed to initiate a CGMS effort to promote the socio-economic benefits of space missions. The purpose of the CGMS Tiger Team on Socio-Economic Benefits of Satellites (SETT) would be (i) to develop a credible methodology and common terminology for articulating the socio-economic benefit of satellite observing systems, and ii) to explore most effective ways to communicate this information to desired stakeholders. During the CGMS Plenary discussion, it was recognised that assessing socio-economic benefits of satellite missions is a difficult task and should involve experts external from space agencies.

### **Current Activities**

NOAA, as lead of the SETT, conducted an initial virtual meeting on 18 December 2013 with representatives of CGMS agencies and WMO. It was noted that that ET-SUP had undertaken an initiative to evaluate value of space-based observations for the Global Framework for Climate Services (GFCS) that had complementary objectives with SETT. Subsequent to the meeting, documents of interest to the team were shared using Google Docs.

A second virtual meeting was held on 29 January 2014 at which further discussion on the approach and objectives of the team took place. It was noted that there is a substantial amount of peer-reviewed research that exists evaluating the economic benefits of space-based observations and applications.

It was further agreed to hold an in-person workshop. EUMETSAT agreed to host the workshop in Darmstadt on 24-25 April 2014. Topics to be considered at the workshop include a review of relevant documents, approaches used, and how this information can best be used by CGMS members. Agencies were asked to present their current or recently completed sponsored activities relevant to SETT. Invitations to speakers with expertise in the socio-economic benefits research have been made. At the workshop, it is anticipated that further development of the Tiger Team's work plan will be made and a report will be prepared to be conveyed at the next CGMS Plenary.

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**AGENDA**  
**CGMS Socioeconomic Benefits Tiger Team Workshop**  
**April 24-25, 2014**  
**EUMETSAT**

Workshop Goals

- Assess recent socioeconomic benefit studies/activities of member agencies
- Develop future Work plan
- Prepare Presentation for CGMS-42 Plenary

DAY 1

1. Welcome and Introductions
2. Meeting Logistics
3. Overview of Agenda (Wooldridge)
4. Overview of Assessing Socioeconomic Impacts (Molly Brown/NASA) 90 min
5. Agency Presentations on socioeconomic benefit studies/activities funded or undertaken by your agency
  - **EUMETSAT**: EPS Second Generation; ESPI EUM-NOAA Collaboration (Counet) 90 min
  - **ESA**: (Vaudo) 30 min
  - **WMO**: GFCS and CBS (Eckman, Bojinski) 60 min
  - **NASA** : Applied Sciences Program (Brown, Escobar, Macauley) 120 min

DAY 2

- **JMA**: Utilization of Satellite Remote Sensing for Solar Energy (Kurino, Izumikawa) 30 min
  - **NOAA**: JPSS and GOES-R (Mehta, Wooldridge) 60 min
6. Summary and Synthesis of Themes from Agency Presentations (all) 90 min
  7. Future Work Plan (all) 60 min
  8. Preparation of Report for CGMS Plenary (Wooldridge) 45 min
  9. Workshop Summary and Actions (Wooldridge) 15