

The Goals of TCCIP

1. Produce **high resolution projections** of climate change in Taiwan through scientific methods.
2. Build **interdisciplinary cooperation** and **information integration** for climate change research.
3. Extend **international connection** and collaboration on climate change research for enhancing regional capacity.
4. Apply results of TCCIP to **policy making** at governmental level.
5. Issue **routine reports** of climate change research and achievement of Taiwan.
6. Promote **climate change service**.

Structure of TCCIP

Research & Development



Government

Central Weather Bureau
(CWB)

Water Resources Agency,
Agricultural Research
Institute, ...



Coordinate

Ministry of Science and
Technology (MOST)



- Coordinate and manage project
- Conduct interdisciplinary research



Academic

Research Center for
Environmental Changes (RCEC),
Academia Sinica

Universities
(NTU, NTNU, NCTU....)

International Cooperation

TOUGOU-C, Japan
TOUGOU-D, Japan
GERICS, Germany

Application

Climate Change Adaptation Policy Framework
fields (NDC, EPA)

Disaster management

Public Health

Coastal management

Agriculture

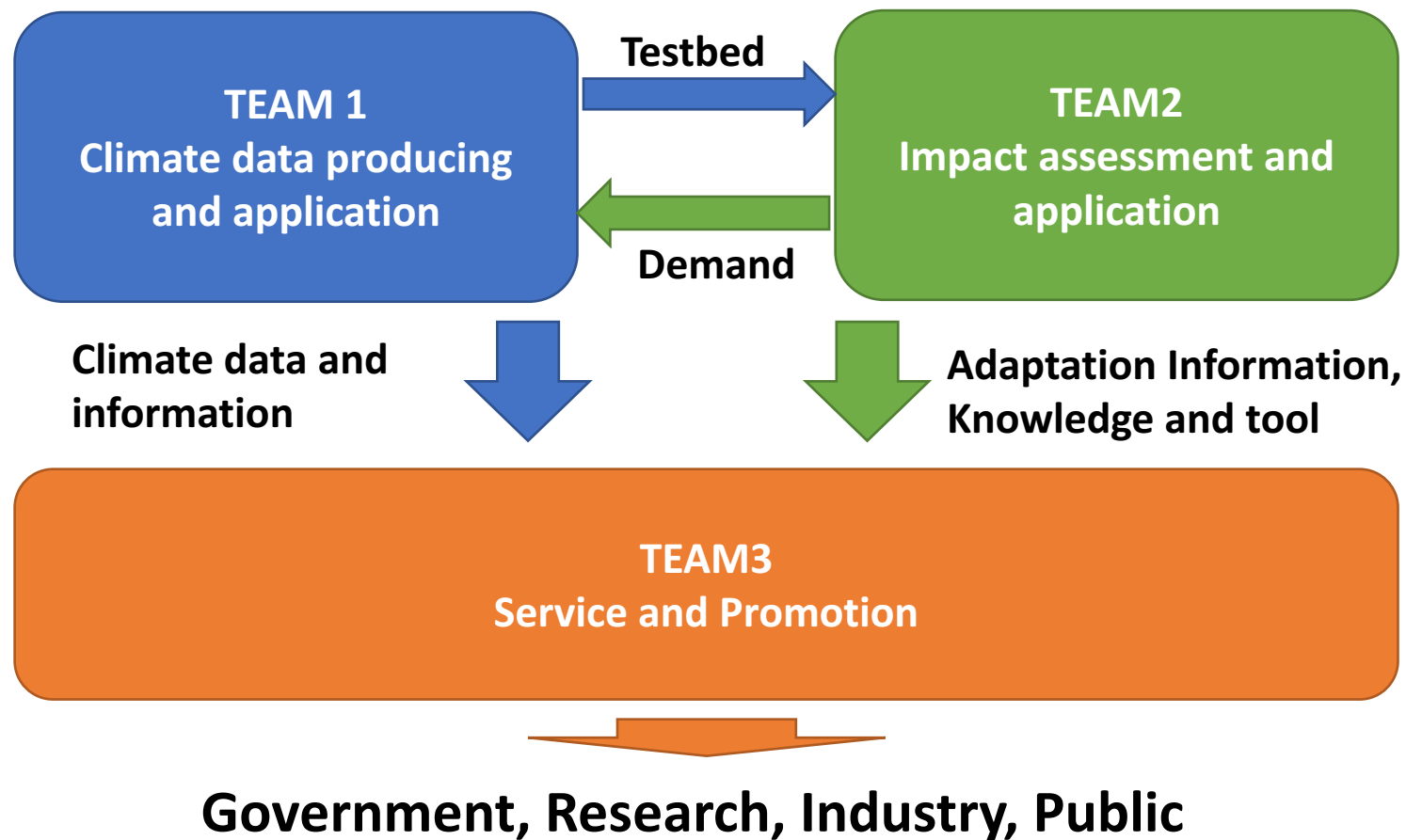
Water Resources management

Land use

Energy

Infrastructure

Framework of TCCIP



Team1 : Climate data producing and application



TEAM1

Prof. Dr. Huang-Hsiung Hsu



CWB

Climate Data



Prof. Dr. Weng

Climate data
producing



Prof. Dr. Chen

Data
analyzing and
quality control



Dr. Cheng

Data
application



Team2 : Impact assessment and application



Team2

Prof. Dr. Ke-Sheng Cheng

Impact Assessment

Adaptation
knowledge



Dr. Lee



Flood :
Prof. Yeh



Sloop land :
Prof. Lin



Coast:
Prof. Chien



Fishery:
Prof. Lu



Integrated
tool

Dr. Liu



Agriculture:
Prof. Lu



Water Res.:
Prof. Cheng



Disease:
Dr. Liu



Team3 : Service and Promotion



Team3
Dr. Yung-Ming Chen



Service
Platform

Dr. Lee



Data Service

Dr. Tung



Knowledge
Service

Dr. Lee

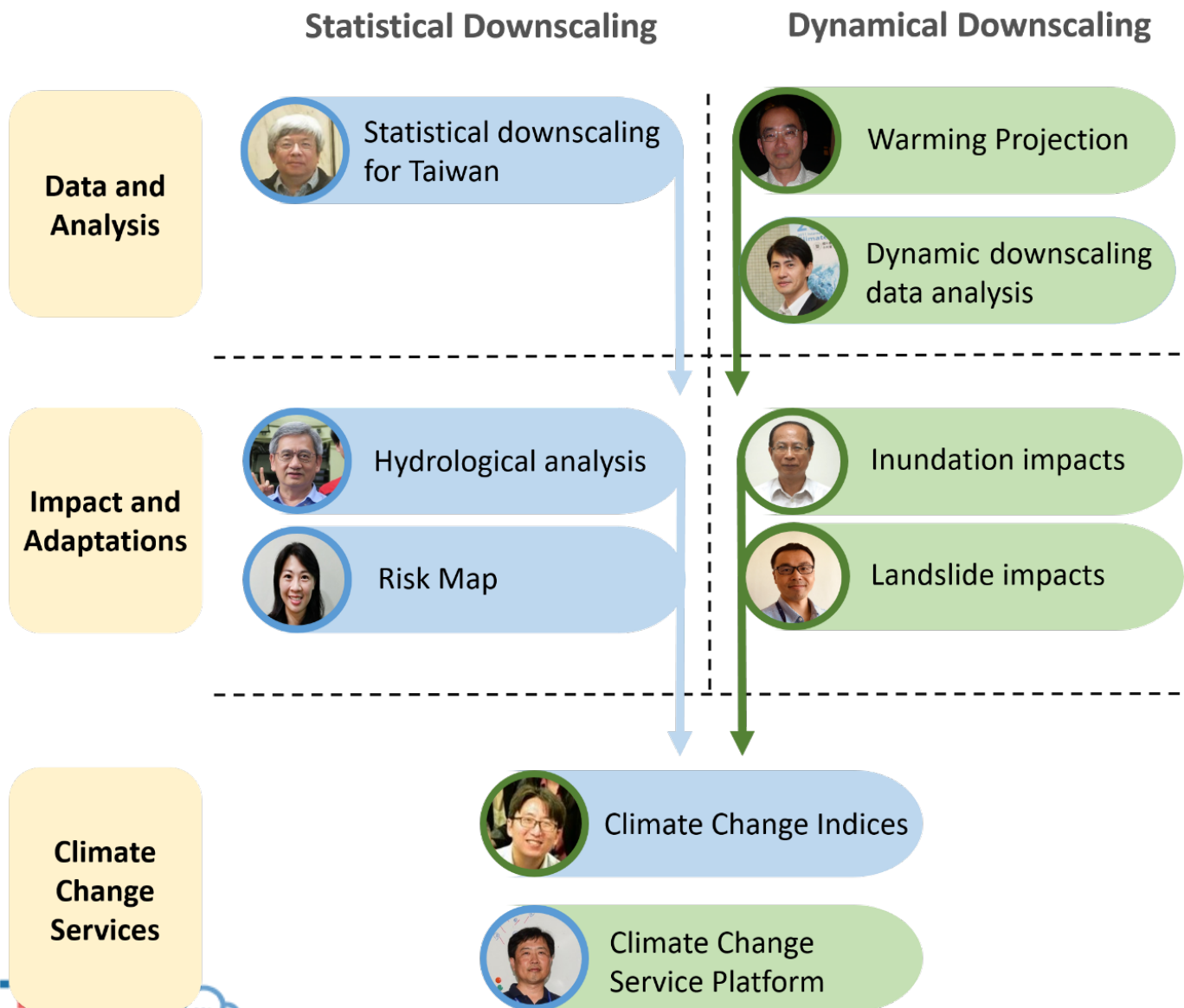


Application
&
Promotion

Dr. Liu



Roadmap of TCCIP talks in 2019 IWCC



Posters-1

Statistical Downscaling

Data and Analysis



The Construction and Verification of Daily Gridded Rainfall Dataset (1960-2015) in Taiwan



Estimation of Taiwan Surface Insolation from Geostationary Satellite Data



Daily Statistical Downscaling



The change of Extreme indices over Taiwan using statistical downscaling daily data

Dynamical Downscaling



Taiwan typhoon rainfall change in nine major typhoon tracks



Construct high-resolution historical data over Taiwan by using WRF model with ERA5 reanalysis



The impacts of climate change on air quality in Taiwan



Future changes in WNP tropical cyclones



The Dynamical Downscaling for the Regional Climate in Taiwan

Posters-2

Statistical Downscaling Applications

Impact and Adaptations



Climate change risk assessments of potential corn production in Taiwan



Direct seeding on dry field as an option to mitigate the impact of climate change



Impact of Climate Change on water Resource- Compared Two Different Water Resource Systems in Taiwan



Hydrologic Frequency Analysis Using Projected daily rainfall data of GCMs



Analysis on the industrial resilience of mackerel fishery in Taiwan under climate change



Impact and adaptation of coastal fisheries under climate change- a case study of set-net fishery in Taiwan



Assessing the impact of climate change on the distribution of Aedes aegypti in Taiwan

Dynamical Downscaling Applications



Build up the adaptation strategies to climate change in the coastal area of Taiwan

Climate Change Services



12. Data management plan for TCCIP



13. User analysis and design thinking



Lets Go! TCCIP 2019 IWCC