## Self Introduction (CV)



Specialized research field is Applied System Analysis (PhD, University of Tokyo, Graduate School of Macro Systems Science)

Working at the National Institute for Environmental Studies since 1991. Established the GCP Tsukuba International Office in 2001.

Contributed to the IPCC "Climate Change and Land Use" Report and 6<sup>th</sup> Assessment Report WG3 "Urban System" chapter as a Lead Author.

Currently studying climate resilient sustainable Urban System Design

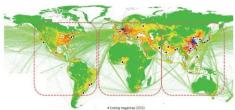
IIASA (Visiting Researcher), Institute of Statistical Mathematics (Visiting Professor), Committee member of Science Council of Japan (Environment)

Lecturing "Sustainable Urban Systems" at Georgia Institute of Technology, University of Tokyo and Keio University.

#### Key-messages:

Cities are important for investigating emissions, drivers and mitigation options

- · Cities are the growing sources of CO2 emissions
- Cities are responders to climate change
- · City emissions reporting enables comparisons
- · City emission data accuracy is not high



Duren, R.M and C.E.Miller (2012), Measuring the Carbon Emissions of Megacities, Nature Climate Change 2, 560-562 (2012) doi:10.1038/nclimate1629.

### Agendas for Sustainable Urban Systems Design



Architecture and Transport systems for improving Human Wellbeing

#### Diverse Urban Environment in Tokyo

#### Diverse Urban Environment in Tokyo



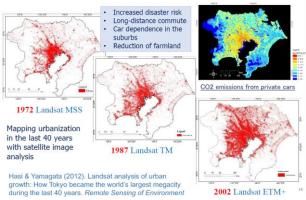
#### Diverse Urban Environment in Tokyo



#### Diverse Urban Environment in Tokyo



# Problems due to population concentration and suburbanization in the Tokyo metropolitan area



## **Creating Comfortable Community Spaces** with Next Generation AEV



Currently
Although the sidewalks
were improved by the road
widening work, however
the traffic volume of
vehicles increased and the
pedestrian comfort might
rather decreased.



[In the future]
Next-generation NG AEV
can be operated at low
speed and safely in orbit.
No need for full paving,
greening makes the street
a comfortable community
space



Provision of various services by NG AEV