

UNEARTHING THE
STATISTICAL
PATTERNS OF
SOCIOECONOMIC
METABOLISM
(SEM) AT
NATIONAL AND
URBAN SCALES

Wensong Zhu PhD Fellow wez@igt.sdu.dk



• Multidisciplinary SEM Framework

- Statistics
- Thermodynamics

• Global/National Levels

- Metals cycles
- Spatial and temporal characteristics
- Comparative analysis

• Urban Levels

- Energy/resource use and disposal
- Thermodynamics of city growth

• Sub-city Levels

- Built environmental stocks
- Drivers and interrelation analysis
- City mass index