Policy Options for Climate Change and Sustainable Development

AIM/CGE

Policy Options for Climate Change and Sustainable Development

(1) Carbon reduction

- **Carbon tax**
  - *Distributional effects (among different income group households)*
  - *Tax revenue recycling schemes (introduction of GOV)*
- **Energy tax (Btu)**
- **Fuel substitution** (towards cleaner fuels)
  - *Coal to oil to gas in power plants*
- **Emission Trading (domestic)**
  - *C and/or S trading among utilities and industries*
- **IPCC Scenarios**

(2) Energy Consumption Reduction

- **Energy Efficiency Improvement**
- **Innovative technologies**

DATABASE AND MODELS

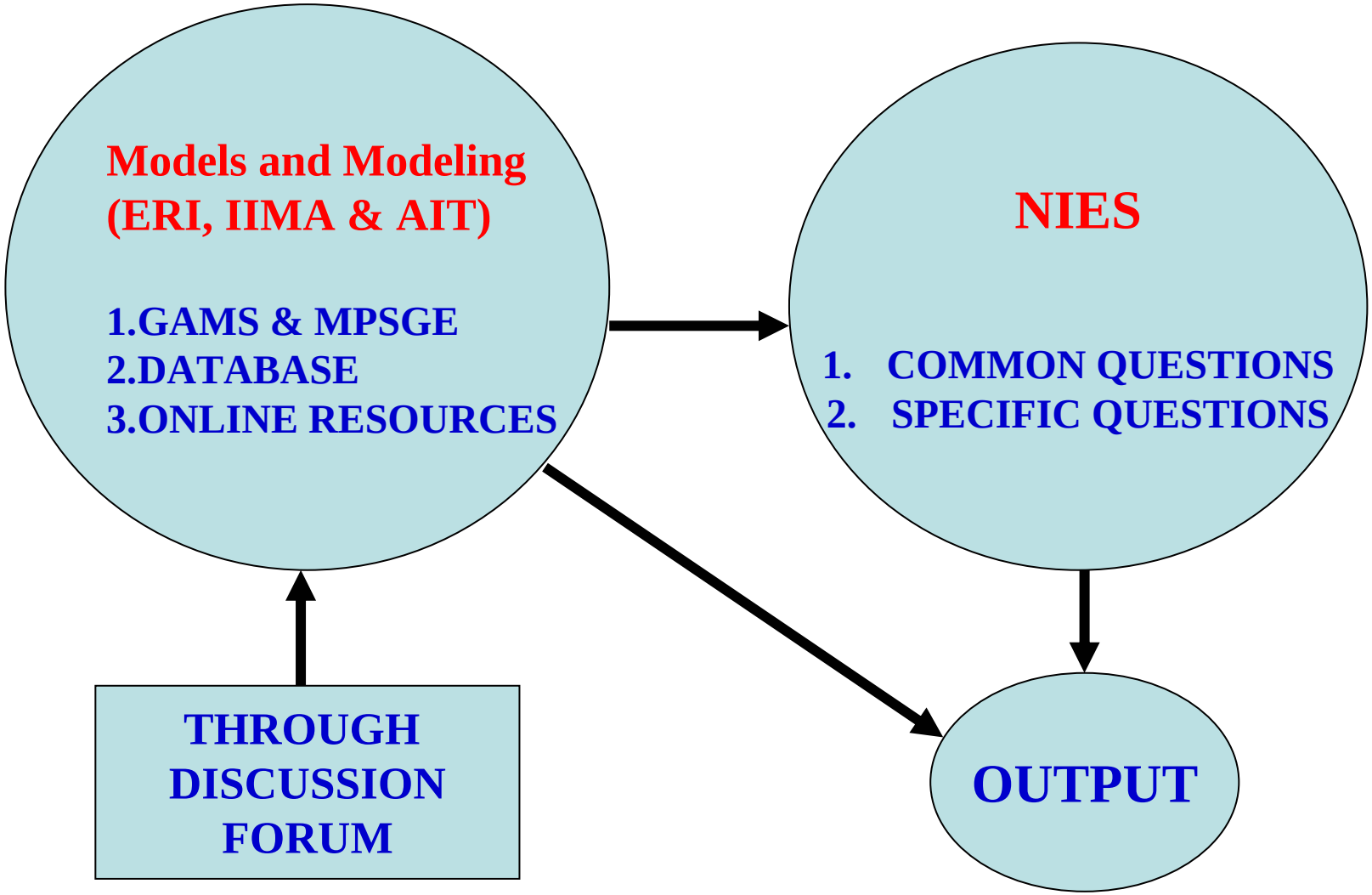
(1) DATABASE

- Linking SAM to U and V matrix and FCF
- Common classification of sectors/commodities
- Specific environmental data
- Production function (CD, Leontief and CES)

(2) ADDITIONAL CONSIDERATION

- Linkage/interface among AIM/* (model families)
- Country to Regional to Global
- Local/Regional Pollutants SO_2 and NO_x
- Waste, Water, Health and Forest

LEARNING FORWARD



AIM/CGE
Proposed Thai Policy Analysis

Wongkot Wongsapai
Sunil Malla
Asian Institute of Technology
December 8, 2004

APEIS Training Workshop

NIES/Japan

Proposed Thai Policy Analysis

(1) Energy consumption reduction

- Rebound effect - Energy Conservation Promotion Act, AD. 1992
- Through Energy Efficiency Improvement
- Through innovative technologies (SDB)

(2) Disaggregate the Electricity sector into 7 sub-sectors particularly for energy related environmental issues

Proposed Thai Policy Analysis

(3) RPS (Renewable Portfolio Standard)

- Increase the share of biomass power plant to 5% by 2011 (Thai Policy)

(4) Natural gas import and infrastructure

(5) Energy security (ODR = 12.4% in 2003)

(6) Local pollutants (PM10, SO_2 etc)

(7) CDM (about 5 projects proposed)


Thanks you