How to use Environmental Accounts (SEEA) data - Indicators for national consumption and environment good to follow up SDG goal 12

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& TNO

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Tracking the environmental costs of Swedish consumption

Main objective in research call

- Quantify environmental pressure from Swedish consumption, both in Sweden and abroad.

- The Generational Goal aim: to hand over to the next generation a society in which the major environmental problems in Sweden have been solved, <u>without increasing environmental and health problems outside Sweden's borders</u>.

Choosing an input output model for future consumtion indicators

- Statistics Sweden has used a single region IO-model with modelled climate emissions earlier.

- Now several multi regional input output (MRIO) models are available from researchers

- Sources of variation between models
  - Macro economic input data
  - Model construction and data processing
  - Environmental input data: emissions, resources

Tracking the environmental costs of Swedish consumption

Sweden's footprint

- MRIOs are a compromise between different national statistics
  - Sweden's national statistics never 100% respected
- What method should we use to respect national statistics, and incorporate MRIO data? Hybrid model chosen with EXIOBASE and Swedish model combined.

Environmental extensions

- Pollutants
  - Emissions of greenhouse gases and traditional air pollutants;
  - Chemicals

- Resource use
  - Land, water use, material flows
  - Fish, meat
  - Pesticides, Antibiotics

Emission in Sweden and abroad from Swedish consumption

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Tracking the environmental costs of Swedish consumption
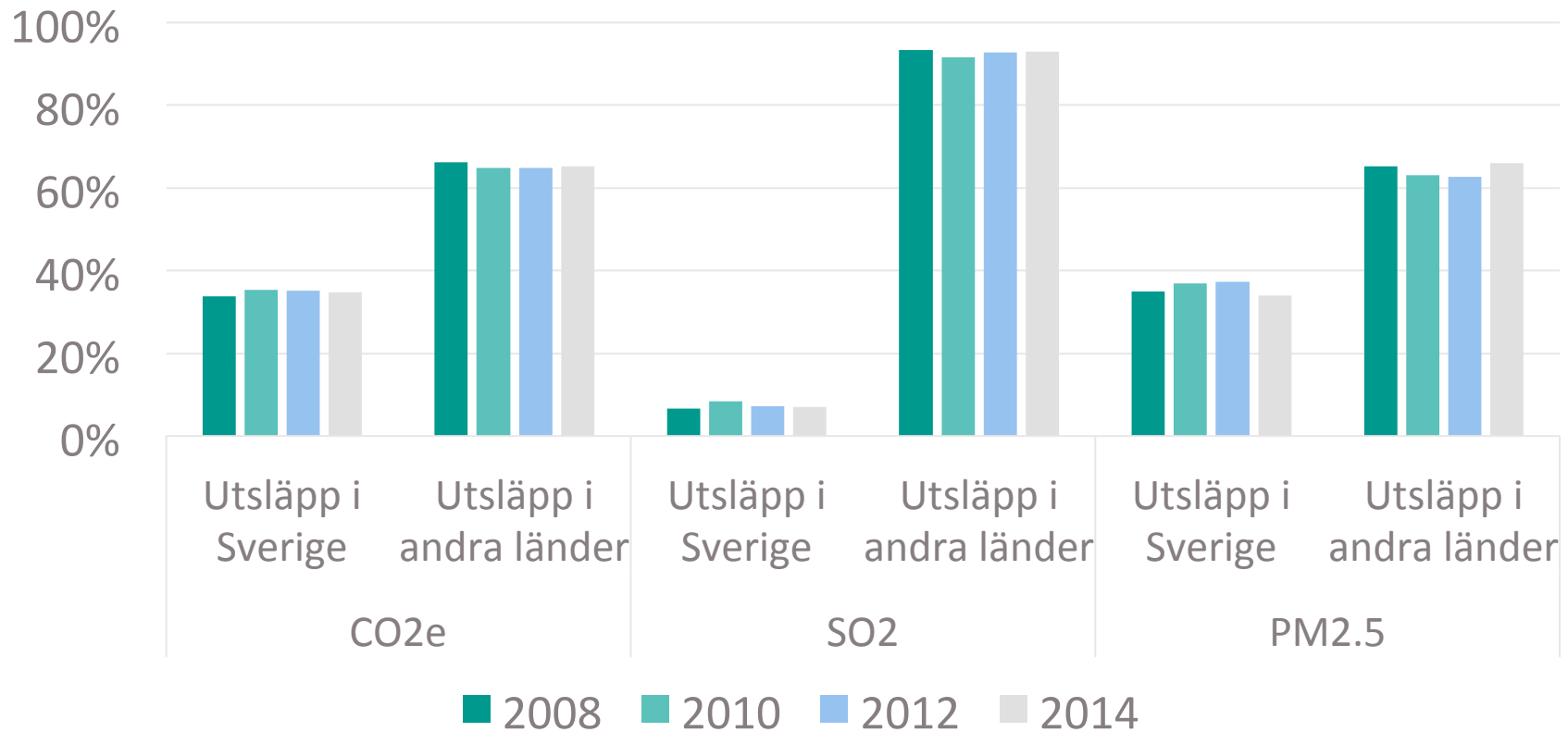
What next?

- This method can measure the environmental pressure from Swedish consumption over time

- The interest from society has been overwhelming

- Good example of what integrated statstics can do

Thanks!

Swedish report now out
Research papers have been submitted
Home page: prince-project.se