Input-output analysis in the SEEA – results of a survey

- Where do we go next?

Nancy Steinbach, Statistics Sweden

With contributions from: Nils Brown, Viveka Palm, Mårten Berglund SCB, Maaike Bouwmeester, Arturo de la Fuente, Stephan Moll Eurostat, Ivan Hascic, OECD
SEEA and what we do

• Whatever the national accounts does – we can do too!

• Looking at use and demand interlinking the economy and the environment is what we do!
Input-output analysis

• Developed in the 1940’s by Wassily Leontief – who received the Nobel Memorial Prize in Economic Science for his work in this area

• A host of tables – to look at interdependences between industries and sectors – as well as – in our case – to look at what impact the economy has on emissions due to demand
A feeling of scattered knowledge at the statistical offices

• In 2012 the UN et al published "SEEA CF Applications and Extensions"

• Sweden has worked in the field since early 2000’s – but who else is working with it not from an academic institution?
Survey results – the base

Figure 1: Number of responding agencies using IO analysis to produce data and the length of time they have been doing it.
Results – are the data official Statistics?

Figure 4: Responses to question "are [the results of IO analysis] considered official statistics or not?"
Survey results – the terminology

"A beloved child has many names"

• National accounts terminology – final demand, final use

• "Footprint"

• "Environmental pressure from consumption"

• Other overarching terminology also in use "tourism satellite accounts", CGE, IEEM, "natural capital accounting", "ecosystem service analysis"
Results – a clear role of the data to communicate strengths of the SEEA

Figure 5: Responses to question "do you see a role for this type of data in communicating the strengths of the SEEA?"
Results – issues identified

• How to handle and interpret environmental pressure related to investments?
• Residence adjustments – e.g. specifically if tourists’ use of vehicles is already adjusted for in SEEA CF then will the IO model estimate a double adjustment?
• Level of detail in the basic analysis changes the outputs – what would the “right” level of details be?
• Timeliness – National accounts IO-tables usually over T-36 months
• How to know what differences are with the global MRIO databases?
• How to provide transparency in governance between national data produced and the work done on the global MRIO’s?
• How to improve communication and visualization?
• Policy implications
Moving forward together

Proposal:

• Create a virtual pool of experts that can, starting 2020:
  - Identify methodological issues in need of clarifications
  - Be a partner when solving new issues in implementation
  - Identify communication aspects and impacts on policy demand

- Their first task: plan and follow-through a report/publication on the merits – with country examples on data and analysis on using IO analysis in the SEEA

Are you willing to participate in this work?
In groups discuss:

The task force is set up and you are now sitting with the team at your first meeting

- Discuss a disposition/layout of the publication – what topics are essential to include? What can be excluded or left for another time?
- What type of product would the publication be? A broschur or full scale report, or a web-site?
- Discuss what kind of work the person reading the report would have – identify the target group
Thank you!