

# **SEEA as a framework for assessing policy responses to climate change**

Prepared for the London Group meeting by:

*Sjoerd Schenau*  
*Statistics Netherlands*

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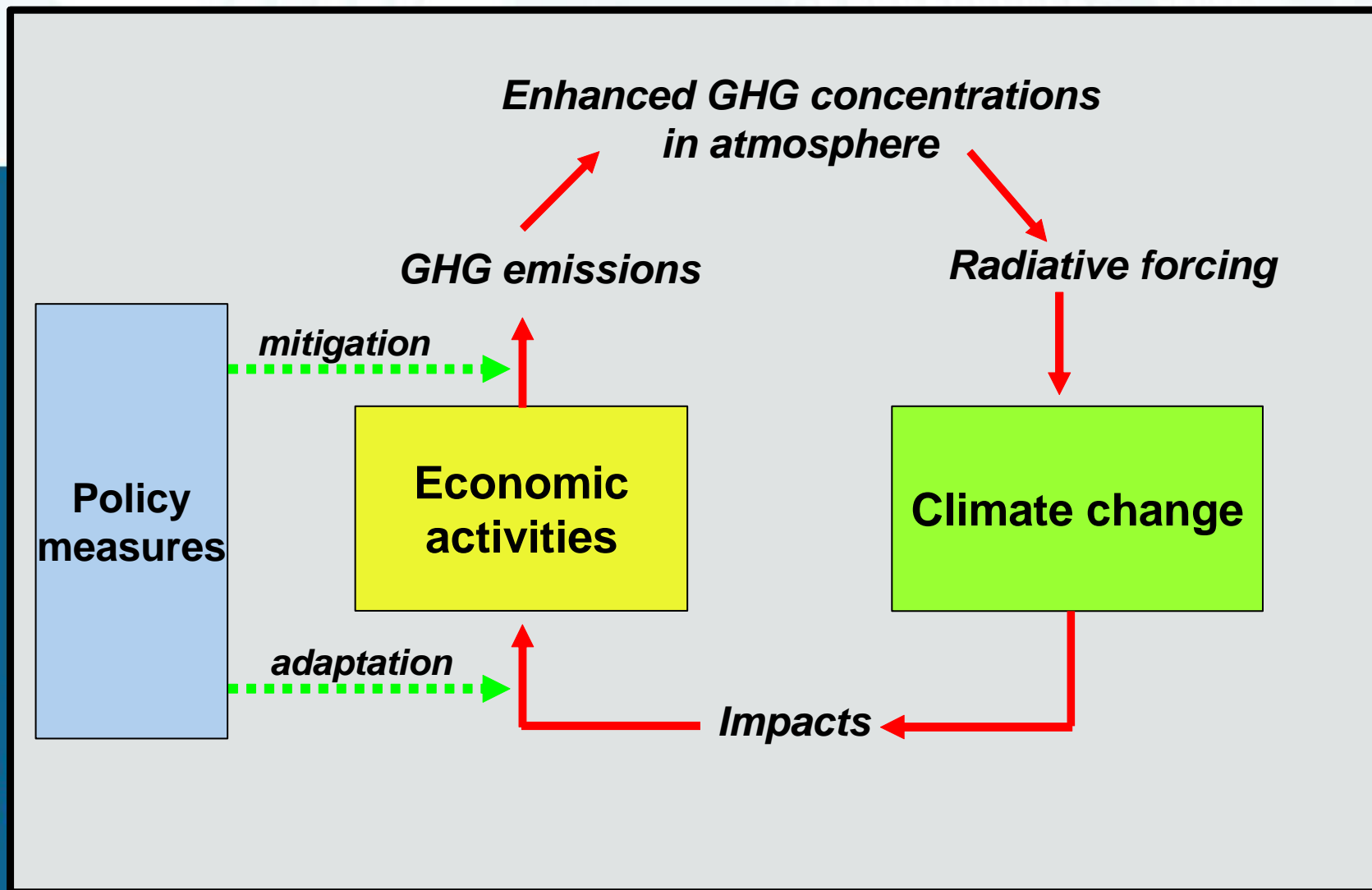


# Content

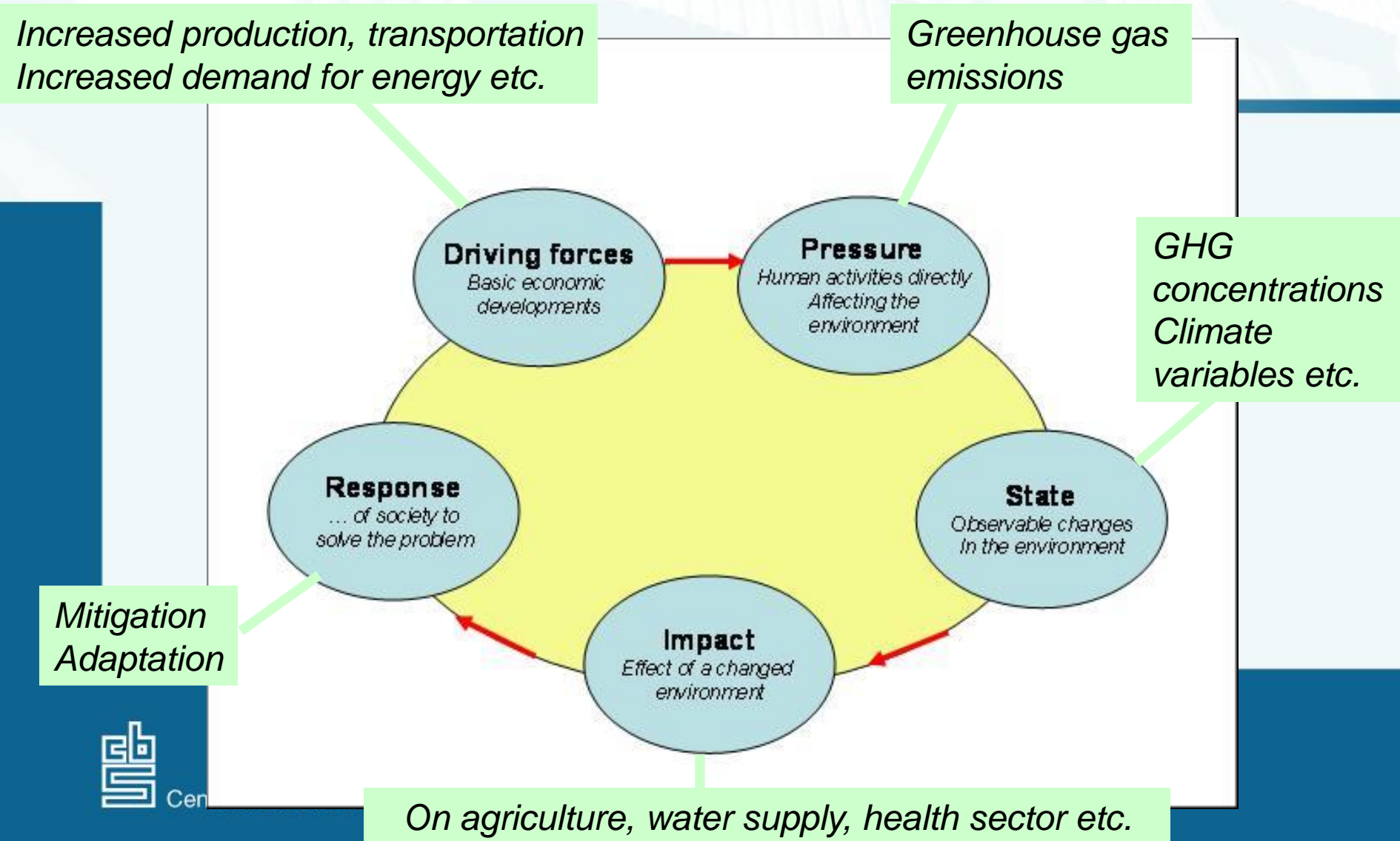
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# The interrelationships between the economy and climate change



# the DPSIR framework



# Climate change in SEEA

- Not specifically addressed  
→ **Volume III**

# 1. Physical flows accounts

- Air emission accounts
- Energy flow account
- Water flow accounts
- Waste accounts
- Other

## 2. Asset accounts

- Energy resources
- Water resources
- Biological resources
- Land and ecosystems

# 3. Accounts for environment-related transactions

- Environmental protection expenditure
- Resource use expenditure
- Environmental taxes and subsidies
- Emission trading
- Environmental goods and service sector

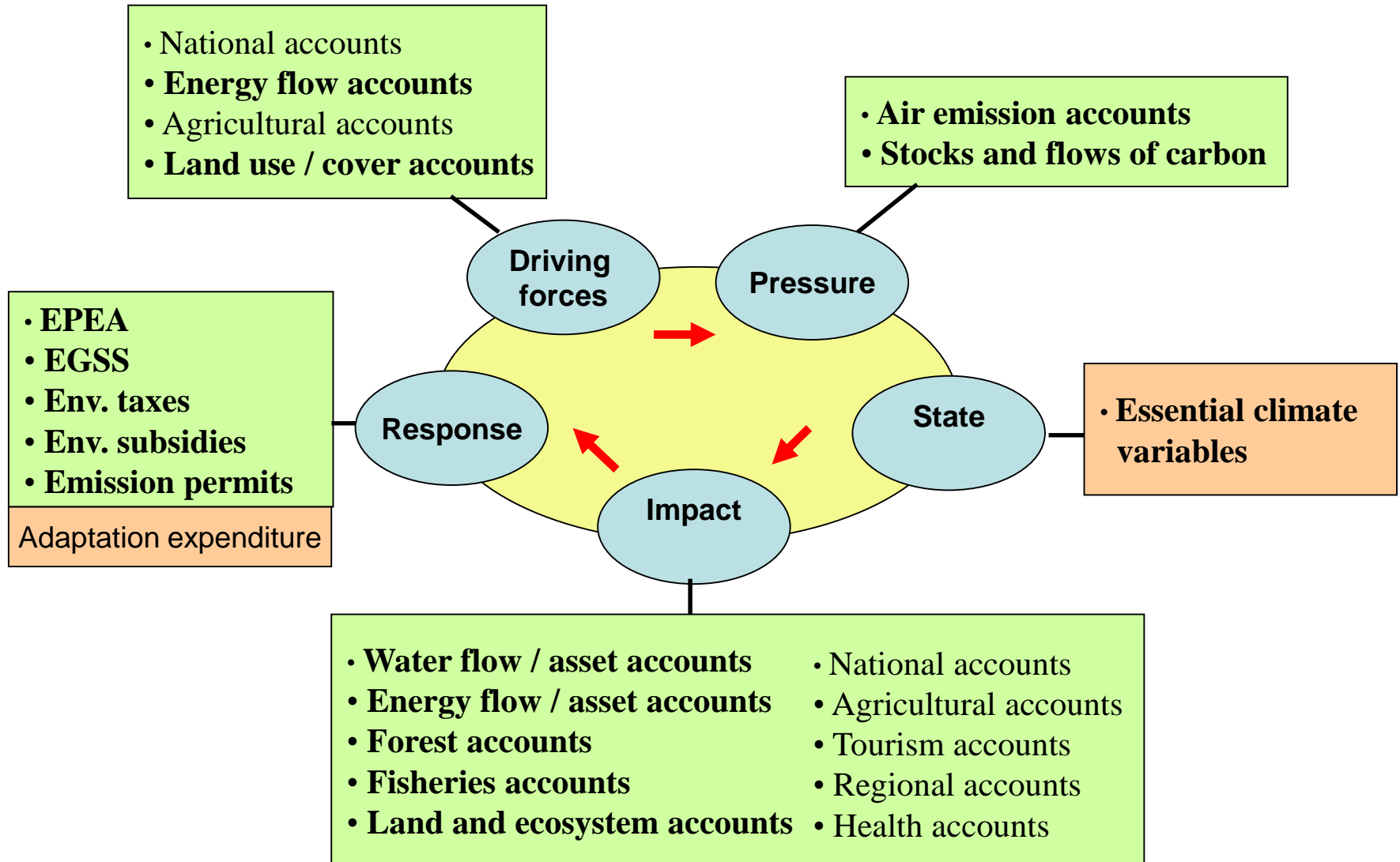


# Other parts of the accounting framework relevant to climate change

- Regional economic accounts
- Agricultural accounts
- Tourism accounts
- Health accounts



# Integrating the accounts into the DPSIR model



# Conclusions

- The SEEA, together with the SNA and related satellite accounts, has the potential **to bring together in one consistent analytical framework** all relevant information with regard to the relationships between the economy and climate change, that can be used for climate change assessment, policy and decision making.
- The accounts are very useful to assess both the driving forces and the pressures, but also the impacts and responses with regard to the interrelationships between the economy and climate change.
- Information on the **state of the environment**, which are not part of the accounts, can easily be added from other data sources.

# Some remaining issues

- **Expenditure related to climate change mitigation** is not well described within in the EPEA. The CEPA code for climate change is at this moment at a three digit level. Also, expenditure concerned with energy saving is not included.
- **Adaptation expenditure** is not part of EPEA. Further research is needed into the concepts, definitions and classifications to add this subject to the accounting framework.
- The development of **land and ecosystem accounts** is still in a preliminary phase. As these accounts are very relevant to climate change further research to implementation or a partial implementation is worthwhile.
- The **social dimension** is as yet not part of the framework, but this could potentially be added to the system. Further research is needed here.