

G20

DATA GAPS INITIATIVE 3

Recommendation 7: Climate Change Mitigation and Adaptation Expenditures

G20 DGI-3 GLOBAL CONFERENCE: JUNE 14, 2023 – SESSION II

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Eurostat



Content

- Eurostat's project goals
- Eurostat's project description and results
- Conclusions

Eurostat's Project Goals

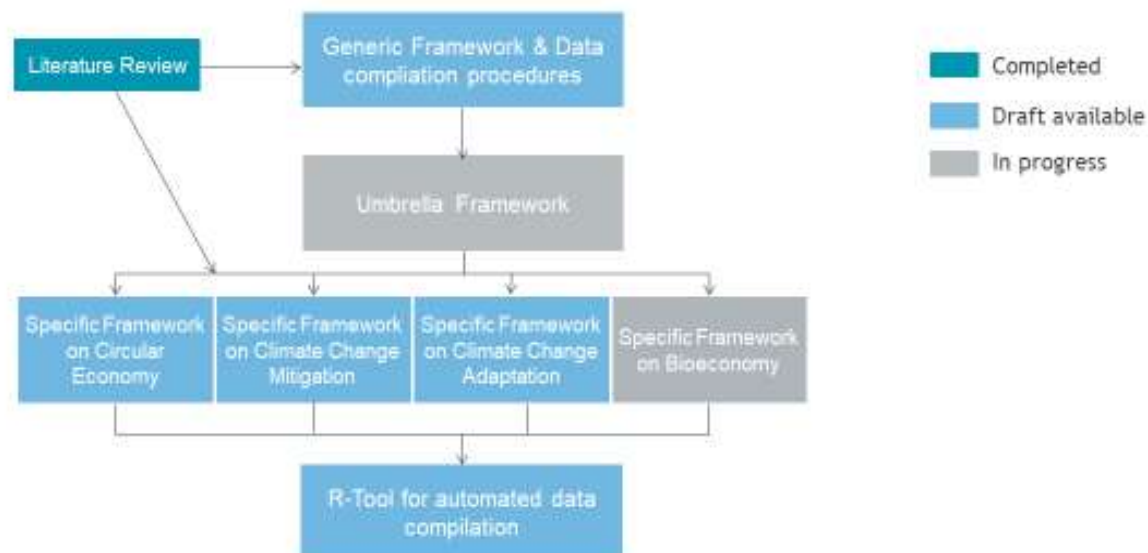
- Deriving key economic variables on activities related to climate change mitigation and adaptation
- Extension of circular economy measurement
- Closing the gap on climate change
- System of Environmental and Economic Accounting Central Framework potential update – issue list:
 - Explicit links between accounts and climate change mitigation, circular economy, biodiversity
 - Introduce new topics of climate change adaptation expenditures/transfers (currently not in scope)

Eurostat's Project Description – Project Overview

1. 2-year project
2. Same methodology
3. Set of indicators

Project overview

Steps and outputs



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devstat prognos

Eurostat's Project Description - Methodology

Indicator	Classification	Data sources
Output	Products and activities (ISIC/CPC/CN)	Business survey on production of manufactured goods Structural Business Statistics – Annual National accounts – supply and use tables
Gross value added at factor costs	Activities (ISIC)	Structural Business Statistics
Employment	Activities	Structural Business Statistics Labour Force Surveys
Exports and imports	Products (CPC/CN)	Business survey on production of manufactured goods
Investments in tangible goods	Activities	Structural Business Statistics

Eurostat's Project Policy Areas

- One policy area = one specific framework
- Definition and scope
 - Climate change mitigation: *economic goods and services that substantially reduce greenhouse gas emissions by source or from the atmosphere.*
 - Climate change adaptation: *economic goods and services that moderate harm in natural or human systems in response to actual or expected climatic stimuli or their effects.*
- List activities and products
 - Environmentally friendly transport: Railway locomotives and rolling stock (incl. electric rail locomotives and diesel-electric rail locomotives) -> mitigation
 - New pumping and drainage systems for rainwater and floods; Flood retention and rainwater basins; Planning and construction of dikes, sea walls and flood protection systems; Planning and construction of climate-resilient port facilities -> adaptation

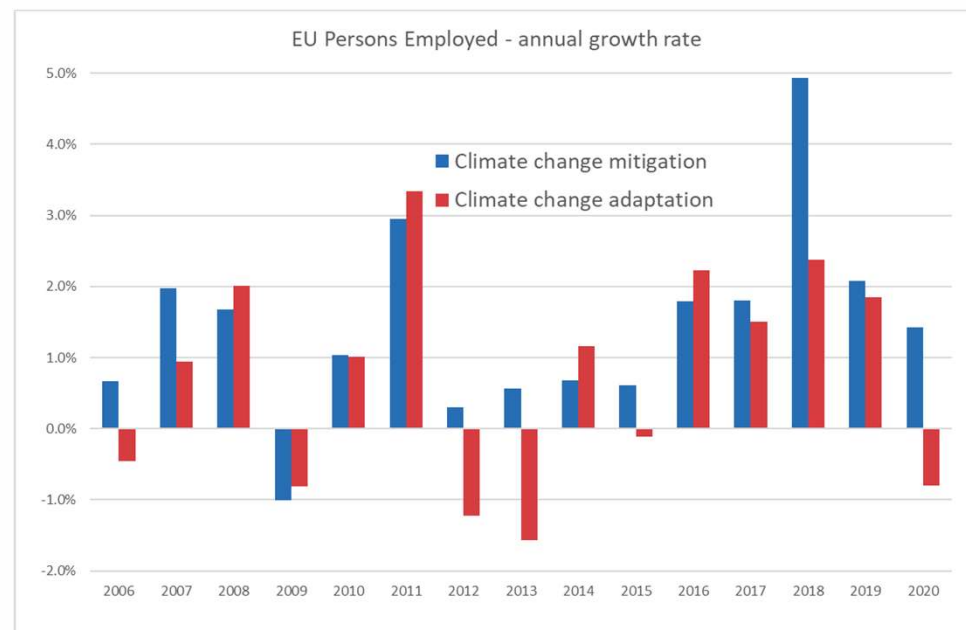
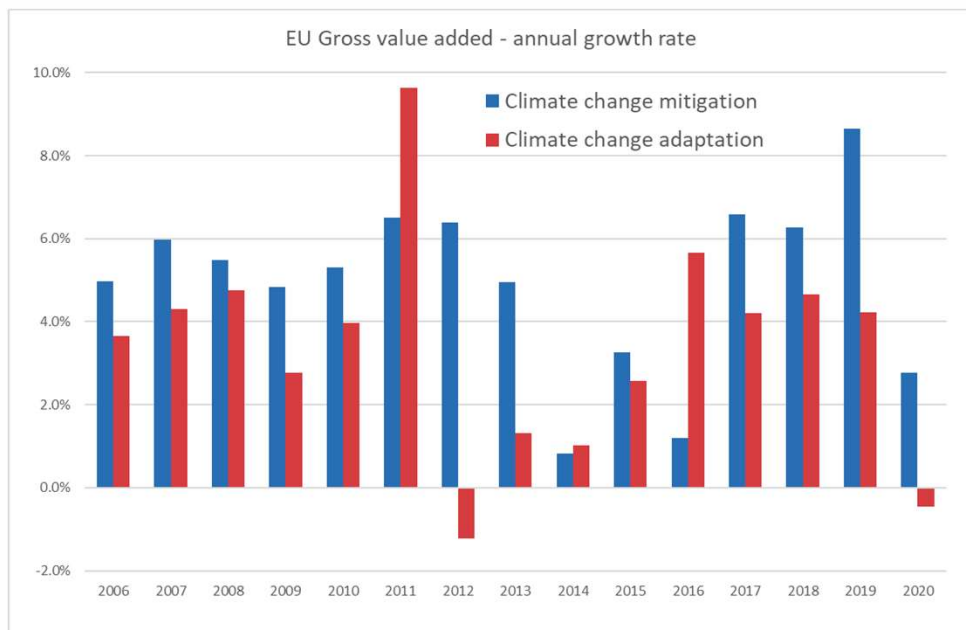
Climate Change Mitigation: Example of Activities/Products

- Bioenergy: Logging for briquettes / pellets and fuel wood (activity)
- Energy efficiency: Thermal insulation: Better insulating doors and windows (made of plastic) (product)
- Individual renovation measures of existing buildings to increase their energy efficiency, installation of renewables on-site (literature review)
- Batteries for electric vehicles (Battery electric vehicles (BEVs), Fuel Cell Electric Vehicles (FCEVs)) (input-output share)
- Generation, transmission and distribution of electricity from renewable energy and biofuels

Climate Change Adaptation: Example of Activities/Products

- Insulation service works for more resistant buildings against heat-waves (Secondary statistics)
- Groundwater protection, renaturation of water bodies; Ecological restoration and protection (including of wetlands and floodplains); Greening of inner-cities (including roofs and natural sun protection)
- Architectural services for water and wastewater infrastructure
- R&D for climate-change adaptation
- Water and sewage network and water efficiency in households (water management 4.0): Control valves, gate valves and other control fittings

Eurostat's Project: Some Results



Eurostat's Project: Conclusions

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Compilation tool ready to be used – minimum costs	Business statistics (private investments)
Complete coverage for EU	Not in line with SNA/SEEA
Based on official statistics	Accuracy relies on mapping with ISIC, not environmental purpose

Thank you

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