



Use of Air emissions indicators Luxembourg experience

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STATEC

Agenda

- 1 **Setting the scene**
- 2 **Air emissions accounts compilation process**
- 3 **Database – Energy statistics**
- 4 **Database – Environment indicators**
- 5 **NAMEA-Lux**
- 6 **Indicators**

Setting the scene

Two main requests from policy makers:

- **Indicators to follow national objectives related to international coalitions**
Kyoto protocol, Paris agreement

⇒ **GHG inventories**

- **Indicators to establish measures**
National Energy and Climate Plan (NECP)

⇒ **Air emissions accounts**

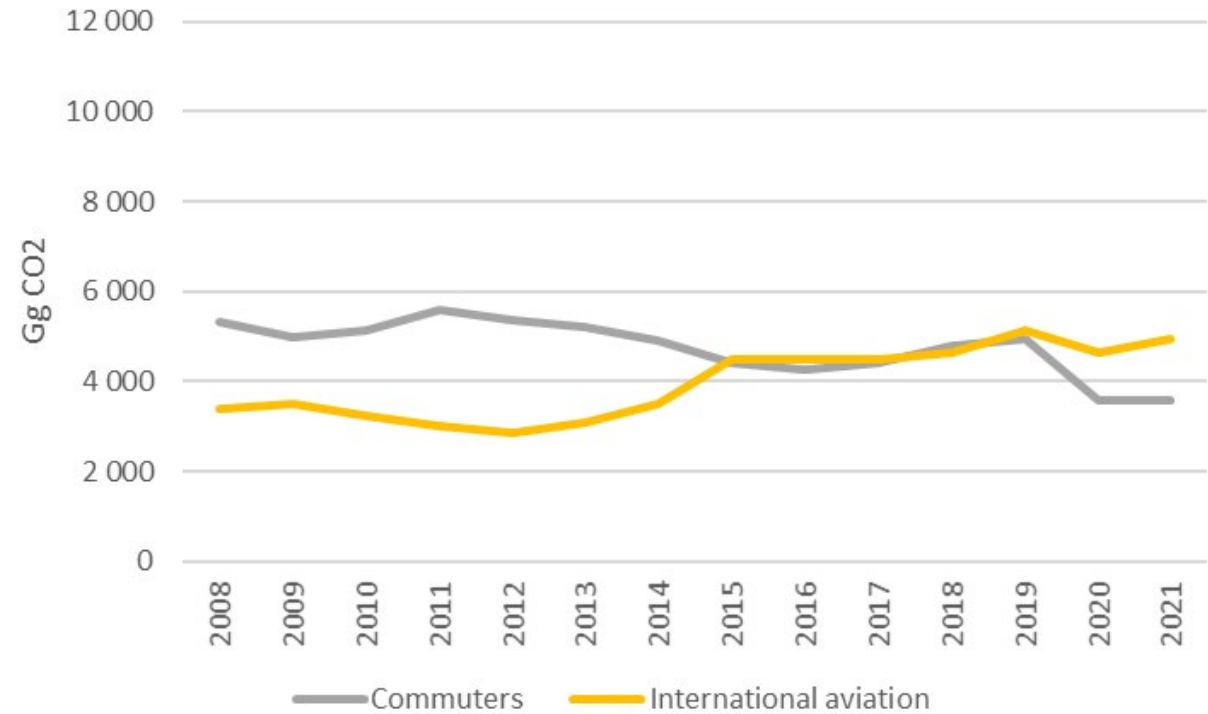
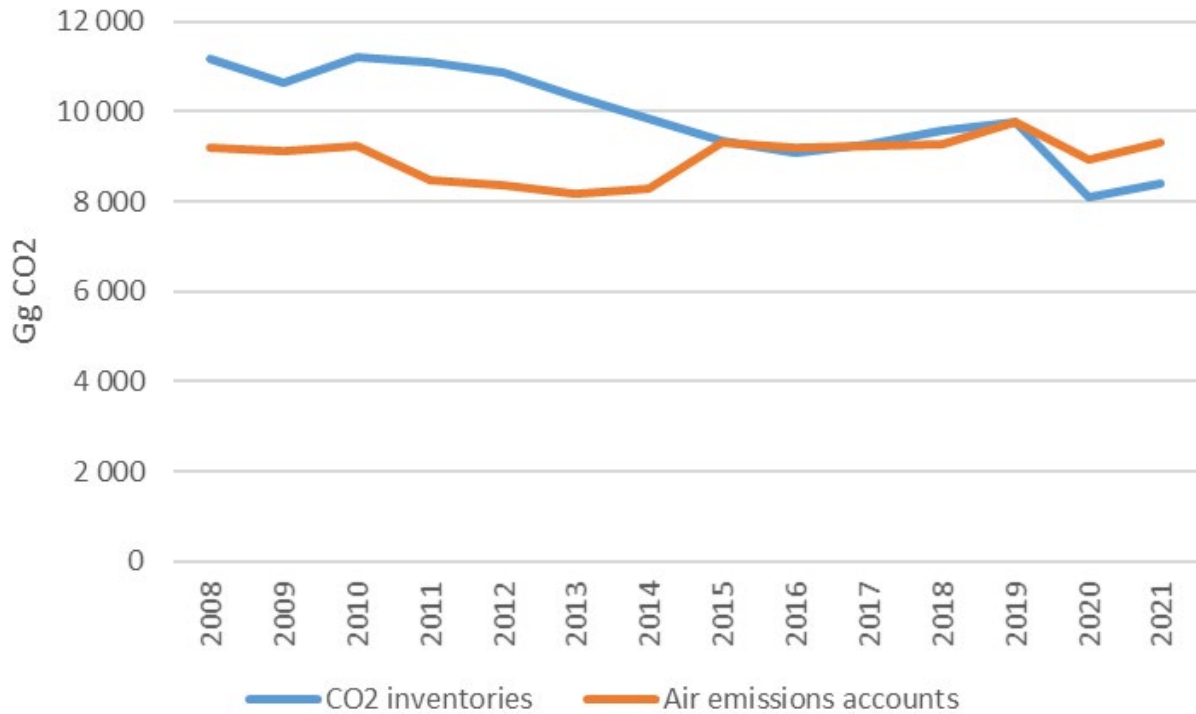
Territory approach vs residential approach



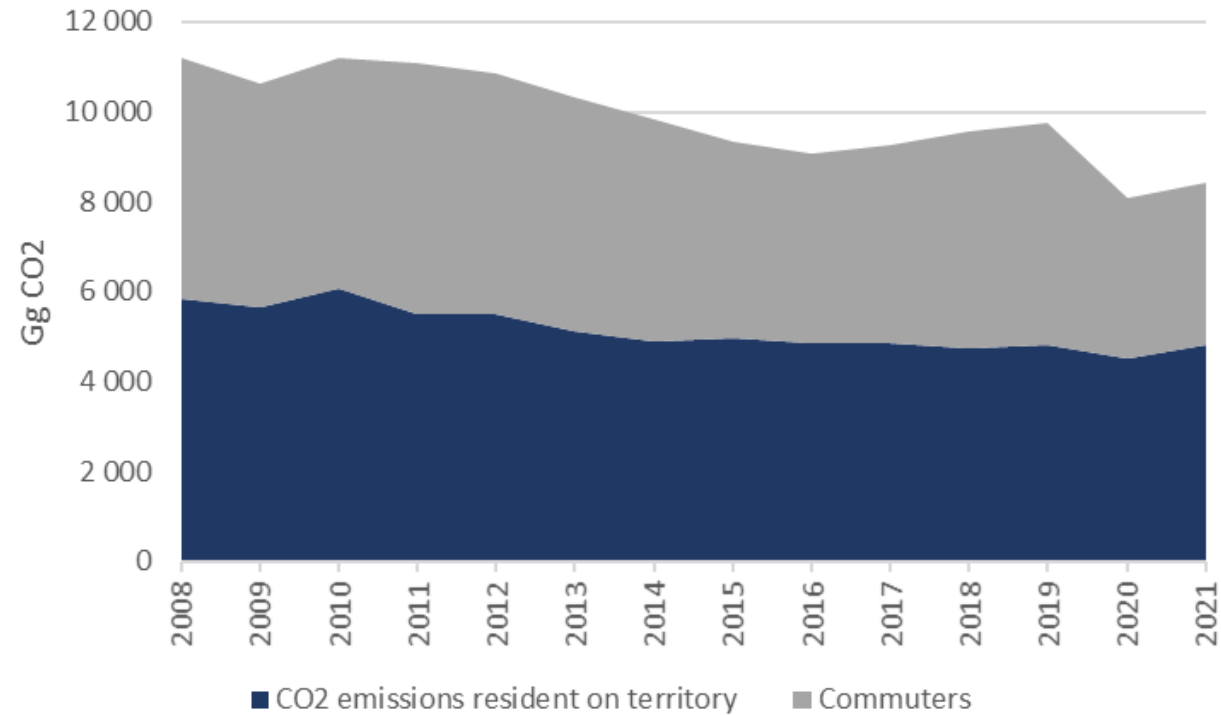
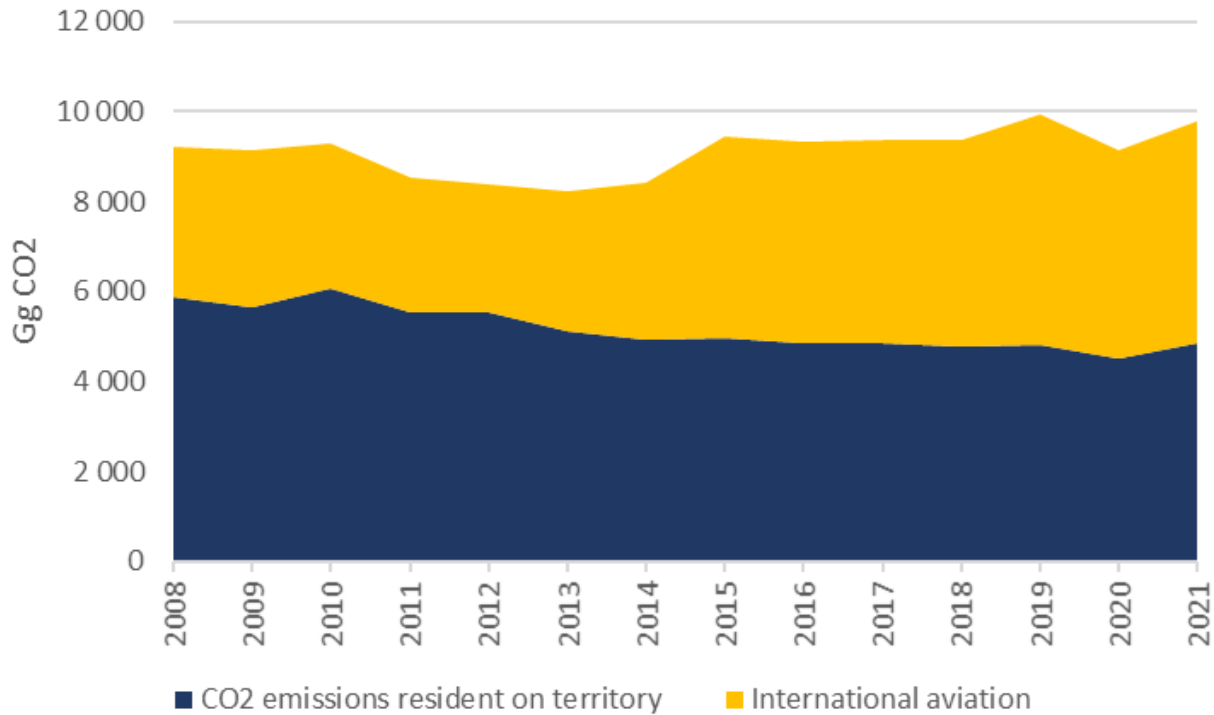
Resident workers:	254 485	53%
Commuters from FR :	120 822	} 47%
Commuters from BE :	51 472	
Commuters from DE :	52 067	

International airport
Freight transport hub

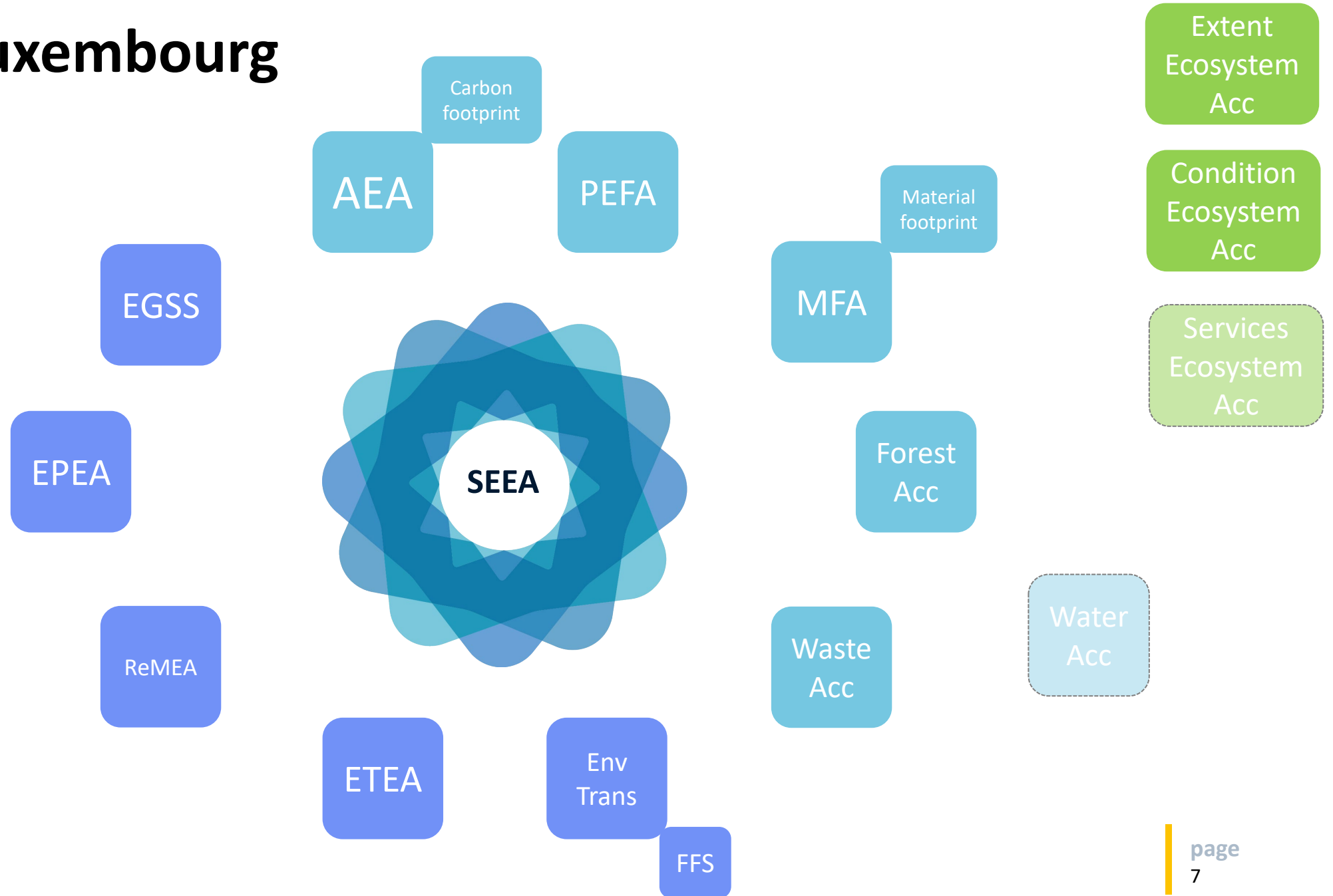
Territory approach vs residential approach



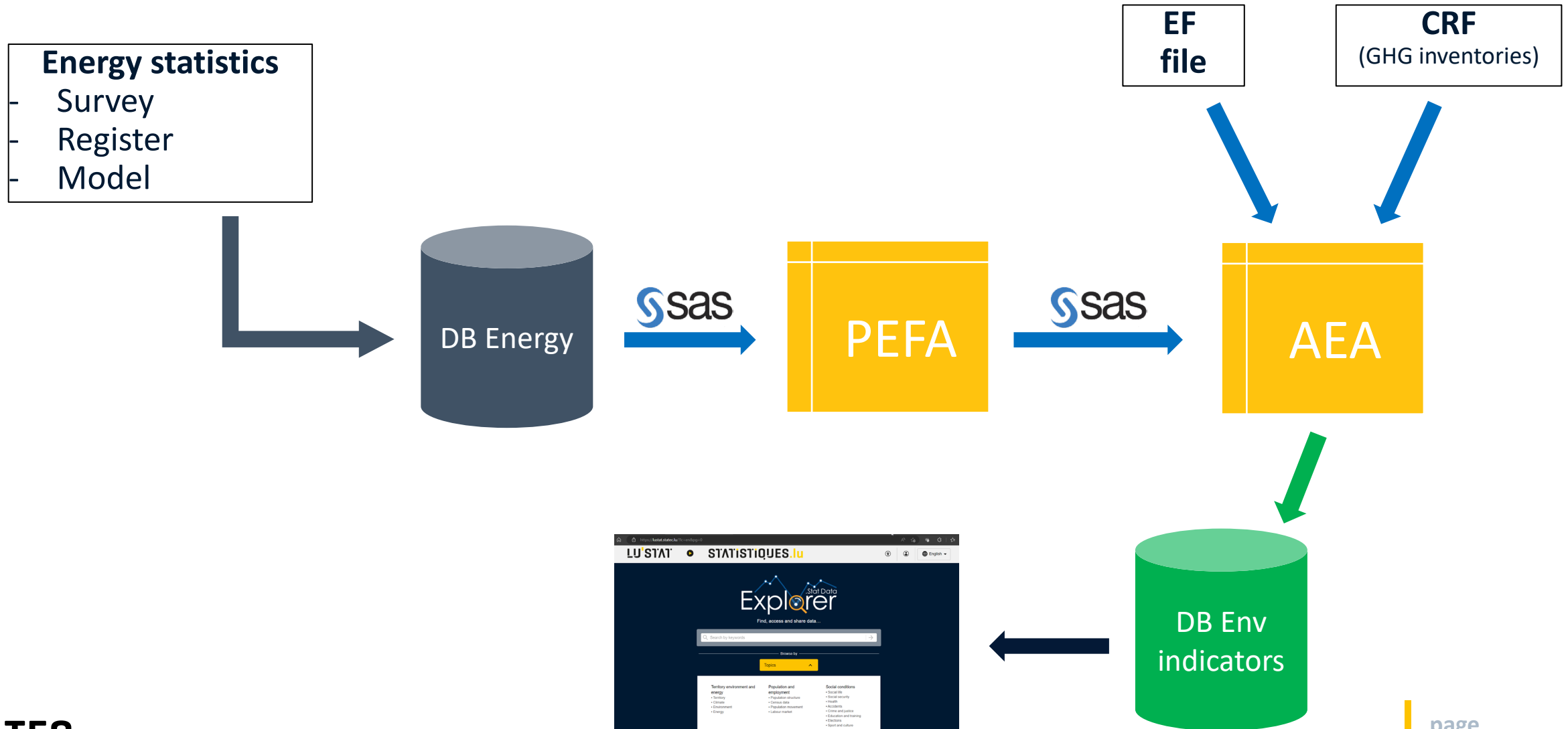
Territory approach vs residential approach



SEEA in Luxembourg



AEA compilation process



Bilans	
01000000000	Production primaire
02000000000	Importations totales
03000000000	Variations de stocks
04000000000	Exportations totales
05000000000	Livraison intérieure brute (sans soutes)
06000000000	Entrées en transformation
07000000000	Sorties de transformation
08000000000	Usages propres et pertes
09000000000	Livraisons à la consommation intérieure (Livraison intérieure nette)
09100000000	Consommation finale non énergétique
09200000000	Consommation finale énergétique
09210000000	Consommation finale énergétique - agriculture
09220000000	Consommation finale énergétique - pêche
09230000000	Consommation finale énergétique - industrie
09240000000	Consommation finale énergétique - transports
09240100000	Consommation finale énergétique - transports ferroviaires
09240101000	Consommation finale énergétique - transports ferroviaires sur le
09240200000	Consommation finale énergétique - transports routiers et par cond
09240201000	Consommation finale énergétique - transports routiers sur le ter
09240202000	Consommation finale énergétique - transports routiers à l'étranç
09240203000	Transports par conduites
09240300000	Consommation finale énergétique - transports aériens et spatiaux
09240301000	Consommation finale énergétique - transports aériens sur le terr
09240302000	Consommation finale énergétique - transports aériens à l'étrang
09240303000	Transports spatiaux
09240400000	Consommation finale énergétique - navigation
09250000000	Consommation finale énergétique - autres secteurs
09250100000	Consommation finale énergétique - tertiaire (privé et public)
09250101000	section H
09250101100	Entreposage et services auxiliaires des transports
09250101200	Activités de poste et de courrier
09250102000	section G
09250103000	section I
09250104000	section J
09250105000	section K
09250106000	section L
09250107000	section M
09250108000	section N
09250109000	section O
09250110000	section P
09250111000	section Q
09250112000	section R
09250113000	section S
09250114000	section T
09250115000	section U
09250200000	Consommation finale énergétique - ménages



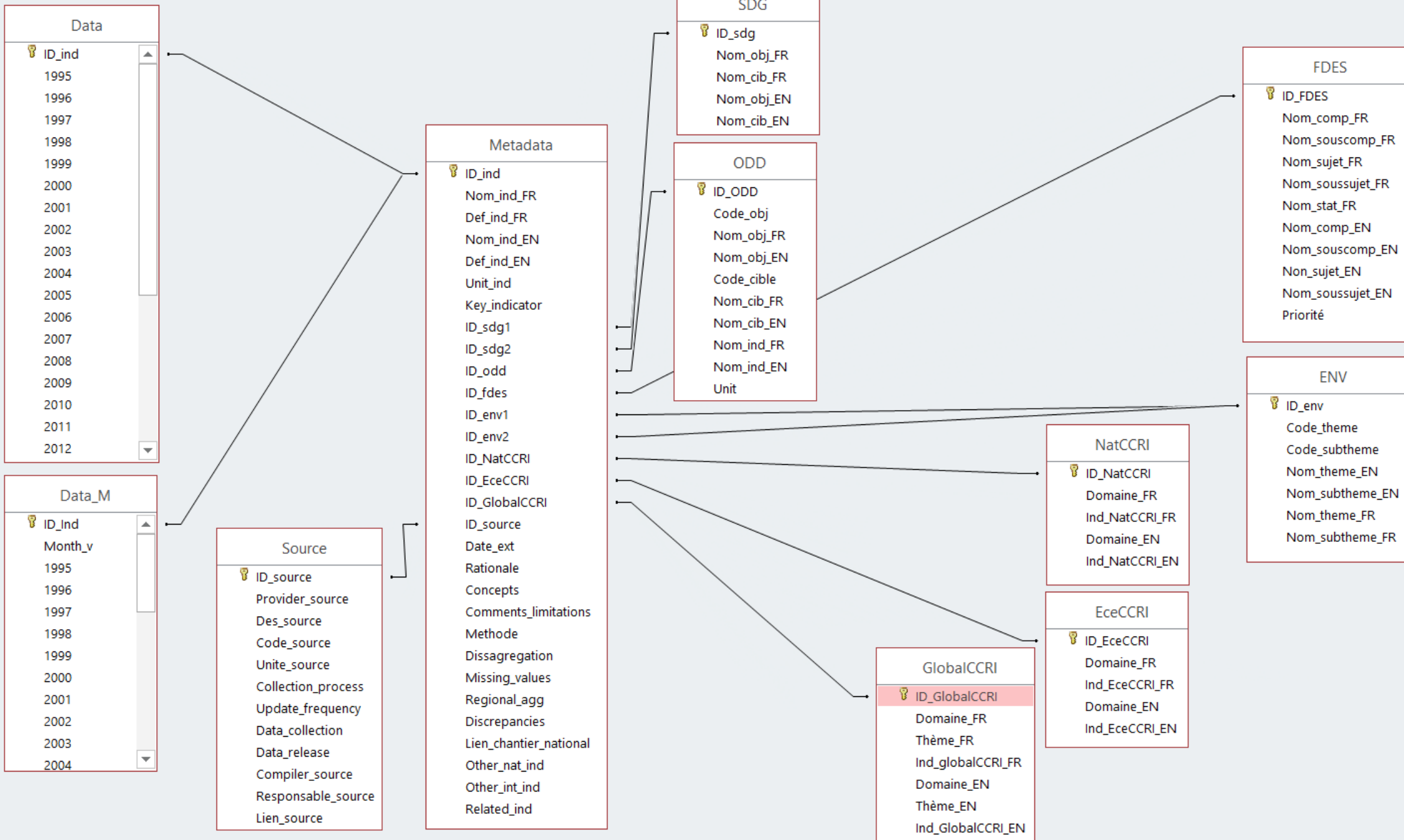
Split between consumption
on territory and abroad



Consumption by ISIC

Database Environment indicators

STATE

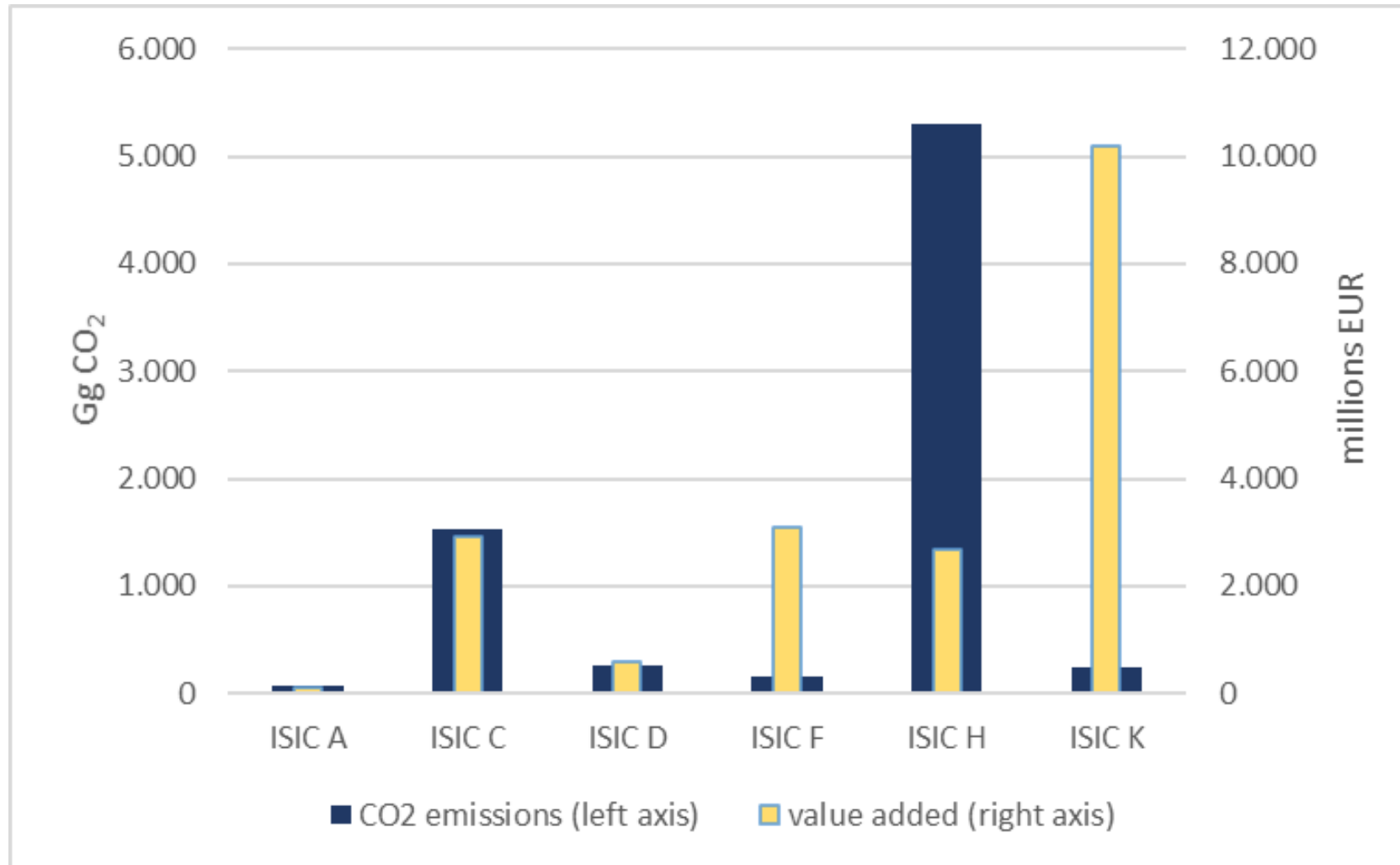


NAMEA-Lux

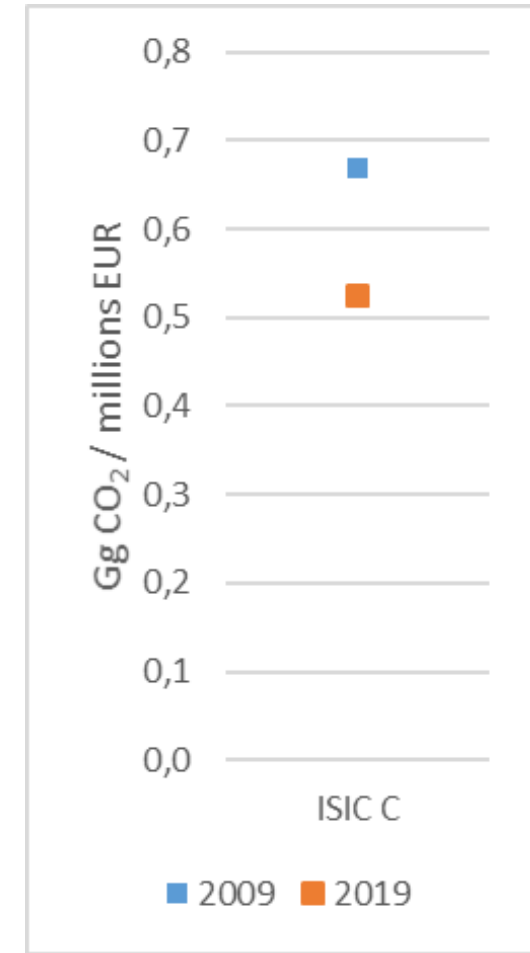
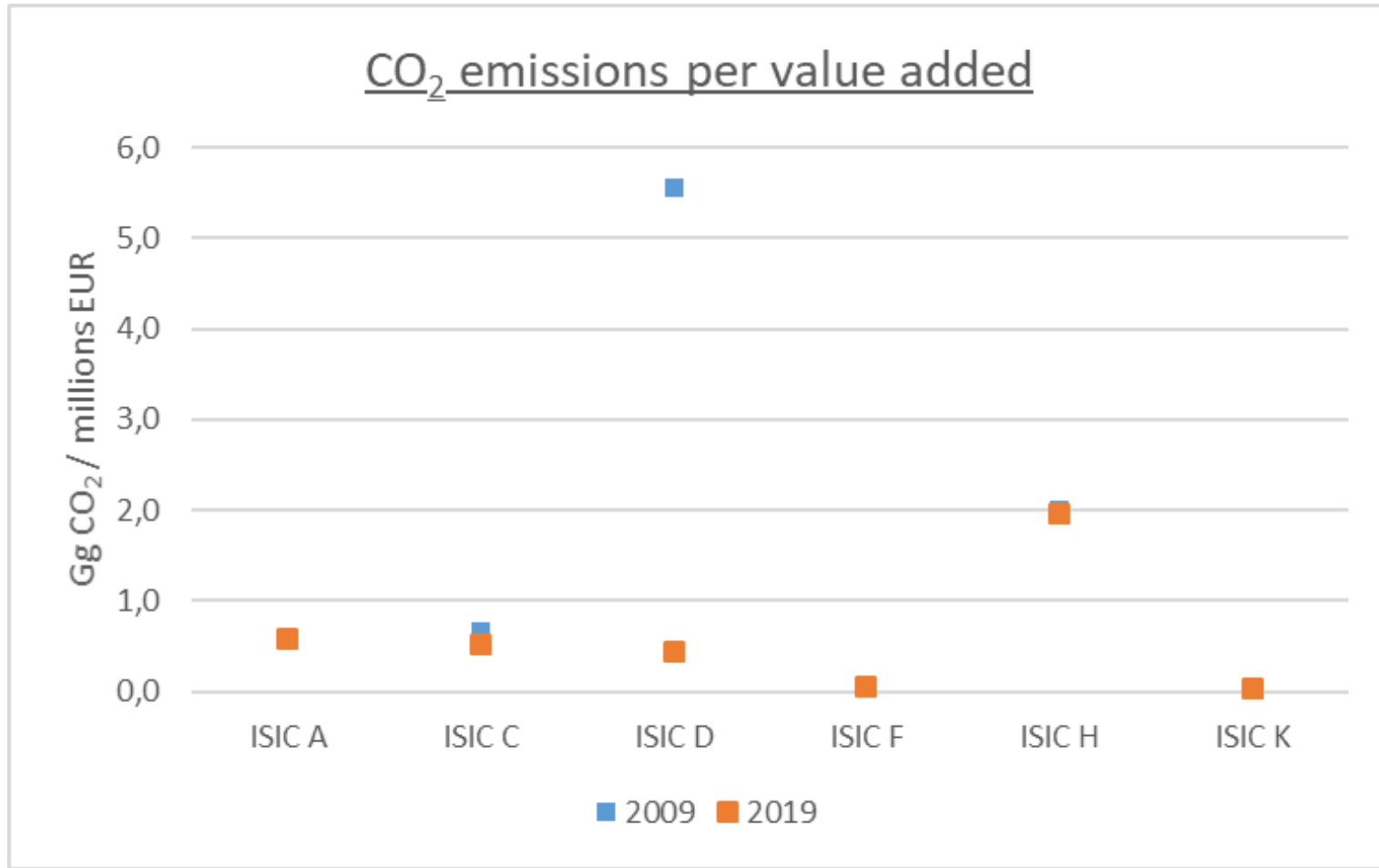
	Economy - Outputs - IC - GVA - Jobs	Energy - Coal - Gas - Electricity - Oil - Renewables - TOTAL	GHG emissions - CO2 - Biomass CO2 - CH4 - N2O - HFC, SF6 - GHG TOTAL	Air pollutants - SOx - NOx - NMVOC - NH3 - CO - PM10 - PM2.5	Env. taxes - Energy - Transport - Resources - TOTAL	Waste - Hazardous - Non hazardous - TOTAL
ISIC A						
ISIC B						
ISIC C						
...						
Total ISIC						
Total HH						
Total non-residents on territory						

From an intuition ...

Year 2019

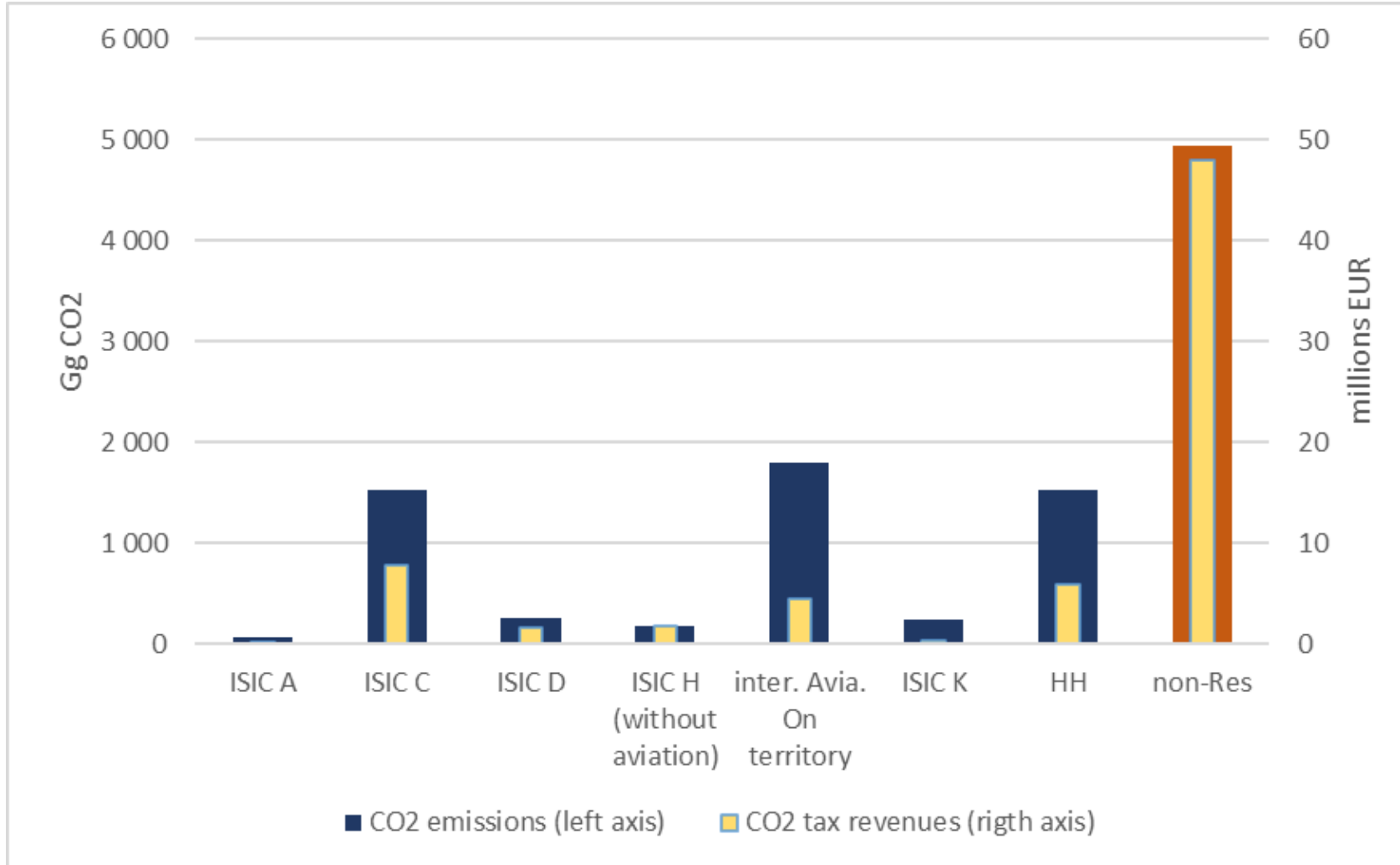


... to an indicator to monitor decarbonisation

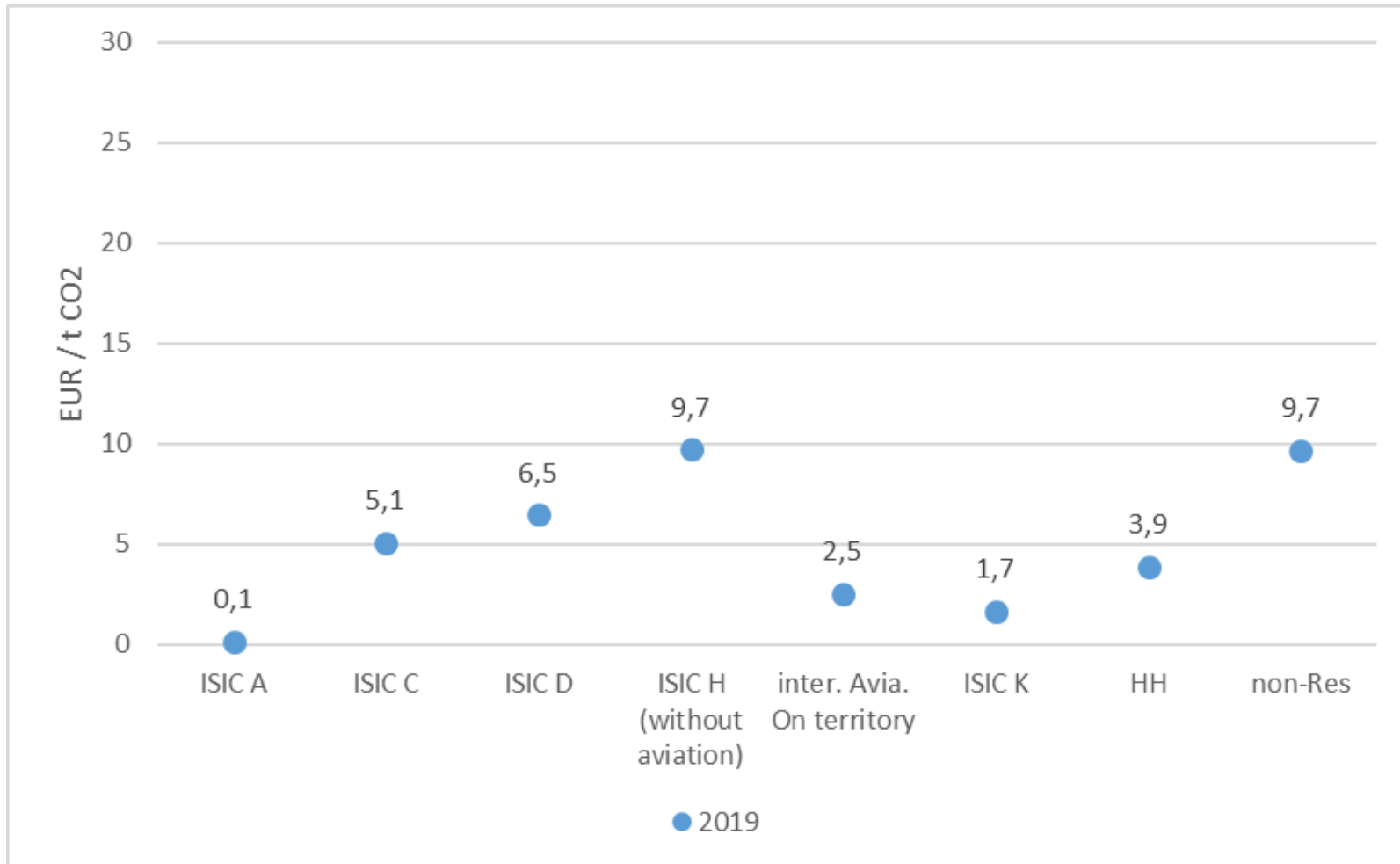


Story of CO₂ emissions and carbon tax

Year 2019



Implicit carbon tax



**1st Jan. 2021
new tax
20 EUR/t CO₂**

Core message

**These analyses can be applied,
in a consistent way,
only if
a System of Environmental-Economic Accounts
is available!**



Any Questions?

STATEC

Institut national de la statistique
et des études économiques

Thank you! / Merci !



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