



## 2016 MMR Reporting

Austrian experience

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## Content

### National Inventory System Austria

- Legal framework
- Roles and contributors
- Contracts and procedural arrangements
- Experience and lessons learned in establishing efficient data flows
- Key Elements for high quality inventory: Inventory team and internal data flow
- Links to non-GHG and Projections

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## Legal Basis – single national entity

- Austrian Environmental Control Act 1999 result of a outsourcing policy:
  - ❖ The Umweltbundesamt is since then operating as a private limited company with “basic funding”
- Proved a good basis for GHG reporting, as responsibility regarding the reporting obligation under the UNFCCC/ KP and under EC / MMR is clearly handed over to the Umweltbundesamt = single national entity

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## Links to non-GHG

Umweltbundesamt also designated as single national entity regarding non-GHG → same inventory team!

- *Maximizing consistency*
- *Minimizing efforts*

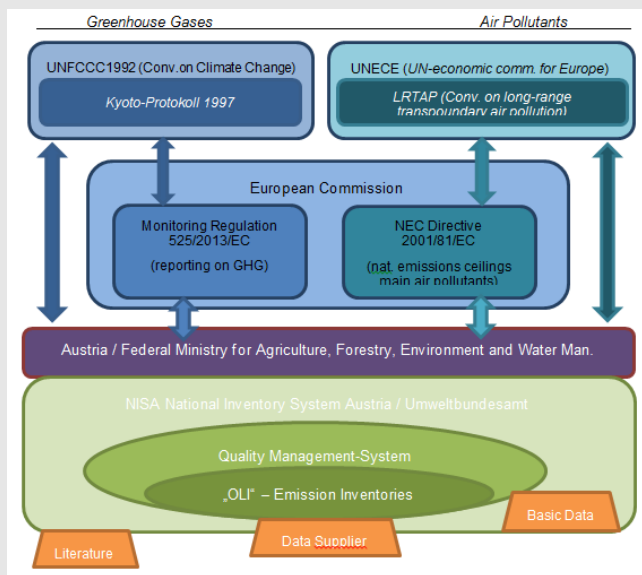
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## QUALITY MANAGEMENT SYSTEM

Accreditation as Inspection Body for Emission inventories (Id.No. 241, Type A) in accordance with the Austrian Accreditation Law (AkkG), by decree of the Minister of Economics and Labour, No. BMWA-92.715/0036-I/12/2005

provides evidence of:

- (1) an efficient quality management system (ISO 9001)
- (2) technical competence of the involved staff
- (3) independence, impartiality, and integrity of the involved staff



## INSPECTION BODY FOR EMISSION INVENTORIES

### Key functions:

HI Head of Inspection

QR Quality  
Representative

SE Sector Expert

SL Sector Lead

### Supporting functions:

PM Project Manager

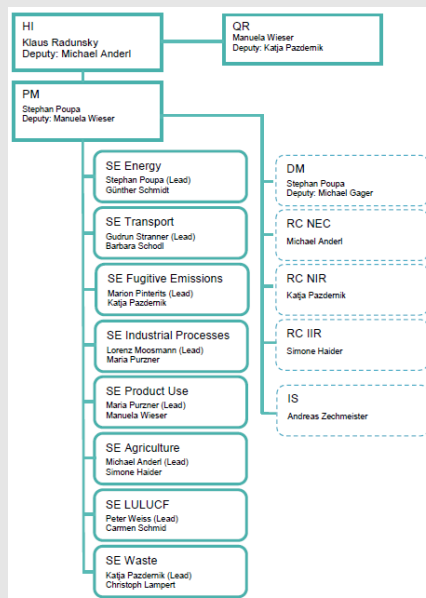
DM Data Manager

RC Report  
Coordinator

IS Inventory + Key Category Analysis  
Support + Uncertainty Assessment

Quality Manual:

[http://www.umweltbundesamt.at/umweltsituation/luft/emissionsinventur/emi\\_ueberwachung/](http://www.umweltbundesamt.at/umweltsituation/luft/emissionsinventur/emi_ueberwachung/)



## Roles and contributors

### Sector Experts I

- Umweltbundesamt internal experts for all sectors (Sector Expert SE)
- Inventory experts: importance to understand the requirements!
- Responsible for quality of inventory (technical and QM)
- SE: Sole responsibility for choice of methodologies (no technical instructions!)

## Roles and contributors


### Sector Experts II

- Technical know how might be bought in – sector expert is responsible for contracting out studies, and implementing them into the inventory (particularly if all requirements regarding data quality are met TACCC)
- BUT: generally, **SE do annual calculations and have full knowledge on methodology!** Subcontracts have to be as transparent as possible to them (**full reproducibility** - some restrictions for (computer) models...)
- Sector Teams (one SE acts as Sector Lead):
  - ❖ Four eyes principle
  - ❖ Resources for related projects (projections, reports but also spin-offs as Training Centre Projects)

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## Roles and contributors

### Other institutions

- **Mobile sources:** Technical University Graz (annual sub contract)
- **Agriculture:** University of Natural Resources and Life Sciences, Vienna (sub contracts for comprehensive methodological changes, annual updates and improvements made by SE) 
- **Other sectors:** occasional sub contracts with changing sub contractors (e.g. every 5-10 years to update basic data)

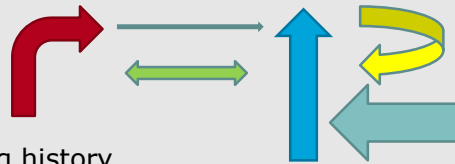
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## Main data suppliers

<i>Energy</i> - energy balance:	5-year contract
<i>Mobile sources</i> – data on traffic counts:	voluntary
<i>Fugitives</i> – emissions data:	voluntary reporting
<i>Industrial Processes</i> – data from ET:	legal basis: EZG
<i>Product Use</i> – FCs data (some):	legal basis: FC ord.
<i>Agriculture</i> – structural data, stock data:	legal basis statistical law / council regulation 92/3508/EEC;
reporting e.g. fertilizers	but also voluntary
<i>LULUCF</i> – forest inventory:	legal basis (!?)
<i>Waste</i> – waste disposal:	EDM legal basis?

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## Data flows



Inventory preparation has long history

- well established data flows

Basic data was in some cases prepared by independent institute – better trust of industry regarding confidentiality and use of data

- high importance to create confidence:
  - ❖ Providing procedures regarding use of data and confidentiality
  - ❖ Providing examples
  - ❖ „input data audits“
  - ❖ “convincing” arguments

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## Input Data Audit I

*In Austrian accredited system obligatory  
 BUT proved to be very helpful in improving data flows!*



### Procedure:

1. Data suppliers are contacted on expert level
2. (official letter to announce audit)
3. Questionnaire on data preparation is forwarded
4. Data supplier is visited and questionnaire (data preparation procedure) is discussed
5. Suggestions for improvements are made
6. Final report is prepared and communicated to data supplier (possibility of comments)
7. (follow up to check implementation of improvements)

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## Input Data Audit II

### Goals/Benefits

- Introducing inventory work and requirements to create an understanding for data quality needs
- Establishing a contact on expert level
- Improving data quality on primary side
- Improving data quality on secondary side: Better insight in data origin → SE can judge reliability and applicability of data

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## Arguments I



Effective Arguments come from the PaMs side:

- (Most) PaMs can only be considered if higher Tier methods are applied
- Higher Tier methods can only be applied if detailed data is available
- The detailed data can only be used if in line with guidelines (transparency! methodology!)

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## Arguments II

- Data flow preferably on a legal basis, but often hard to enforce...
- However, the „threat“ of a legal basis might open the way for voluntary reporting
  - because of disadvantage for country if simple (Tier 1) methodology results in higher emissions this is more likely
- Plus: source with higher emissions: measures are more likely ;)

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## MMR NIS - Data Links I

- EU ETS – Directive 2003/87/EC → Austrian Implementation EZG 2011: Data is made available to the Umweltbundesamt for preparation of emission inventories!
- FCs - (EC) No. 842/2006 – no data available (only inter EC trade); but some data from Austrian Ordinance HFKW-FKW-SF6-VO is used (Umweltbundesamt is commissioned for data management; however, data flow not regulated in ordinance = procedural arrangement)

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## MMR NIS - Data Links II

- ePRTR - (EC) No. 166/2006 – umweltbundesamt has role in reporting; data only used for validation
- Energy Statistics - (EC) No. 1099/2008 – contract between environmental ministry and statistical office, very good cooperation on expert level (important: legal basis for data exchange in UKG)
- NEC inventory data – NEC Directive 2001/81/EC → Umweltbundesamt also responsible for NEC (and air pollutant) inventories

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## Inventory Team

Highly motivated team essential for high quality inventory:

- Choosing personnel with self interest in environmental issues
- Benefits beyond money: personal responsibility, flexibility,...
- Team building measures
- Encouraging / respectful human resource management
- Promoting quality awareness
- Considering resource needs!
- Keep away pressures from inventory team
- *Be ambitious!*

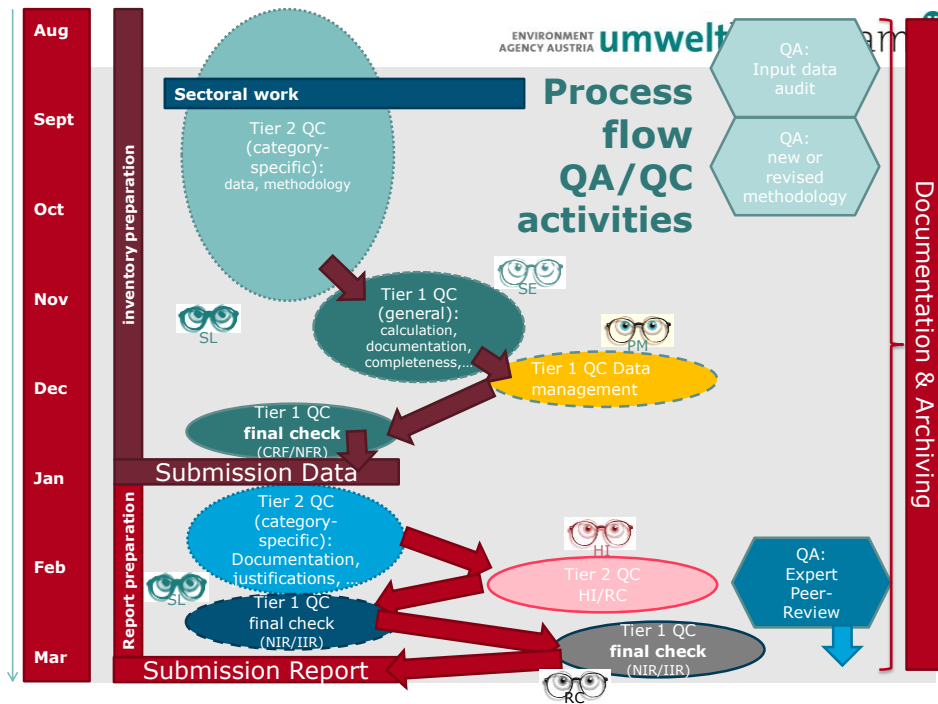


## Internal Data Flow

Database made up of excel spreadsheets:

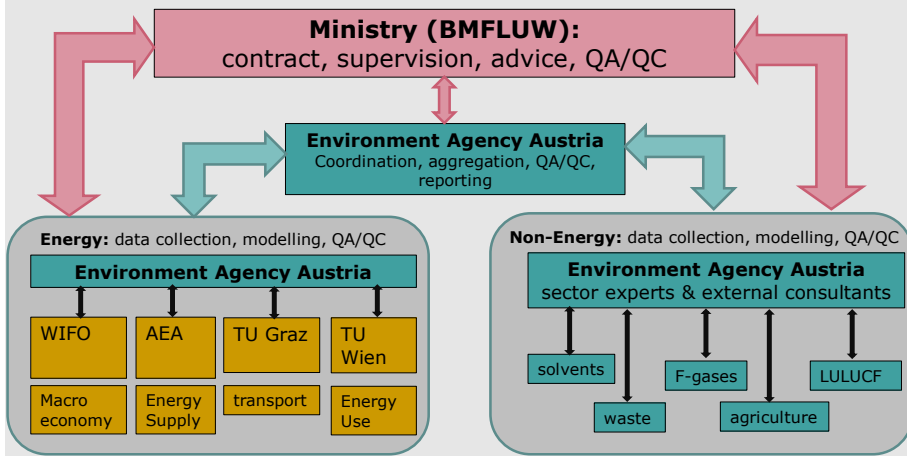
- One for every calculation
- One for every sector
- Overall inventory
- Historically set up on SNAP nomenclature (developed for air pollutants; highly detailed)
- **Simple (but/) and efficient!**

*SE+DM in one person: risk and chance*



ENVIRONMENT AGENCY AUSTRIA **umweltbundesamt**

## National System for PAMs & Projections: Institutional Arrangements



## Austrian climate finance

- Austrian Climate Finance Budget for capacity building in Western Balkan countries
- Workshop with national focal points in Vienna (7-8 June)
- Decision to form a steering committee with Worldbank and Energy Community
- Meetings 4 times a year in Vienna
- Implementation WS in Western Balkan countries

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## Contact & Information

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TAIEX WS on National Systems for GHG Inventories  
Podgorica ■ 28 June 2016

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## MMR

- Low carbon development strategy
- NIS
- GHG inventory + proxy
- Registries
- Policies and measures + projections
- Other information related to CC (adaptation measures, support for developing countries, auctioning revenue and project credits, BR and NC)