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Follow up on Batumi core themes

together with the Aarhus Centres

Batumi & Aarhus

- 2016 "Environment for Europe" Conference in Batumi with two major focuses:
 - \rightarrow green economy
 - \rightarrow air quality ("Batumi air action")
- International Community to follow-up until next EfE Conference 2020/2021 (CZ ?)
- Aarhus Centres have important role for assuring public information/participation, at the interface between civil society and governments/businesses
- Following some related considerations regarding:
 - \rightarrow Circular economy and waste management
 - \rightarrow Biosafety and control of GMOs
 - \rightarrow Air quality data/information

EU Vision

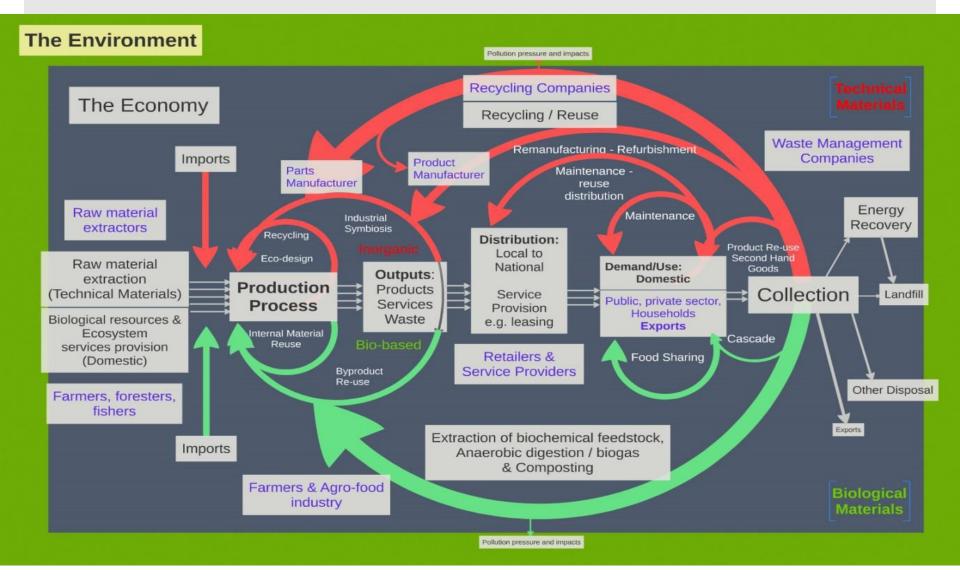
`In 2050, we live well, within the planet's ecological limits.

Our prosperity and healthy environment stem from an innovative, circular economy where nothing is wasted and where natural resources are managed sustainably, and **biodiversity** is protected, valued and restored in ways that enhance our society's resilience. Our low-carbon growth has long been decoupled from resource use, setting the pace for a global safe and sustainable society.'

Source: 7th EU Environment Action Programme

Circular Economy

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Source: IEEP for EC, Circular Economy Scoping Study (2014)

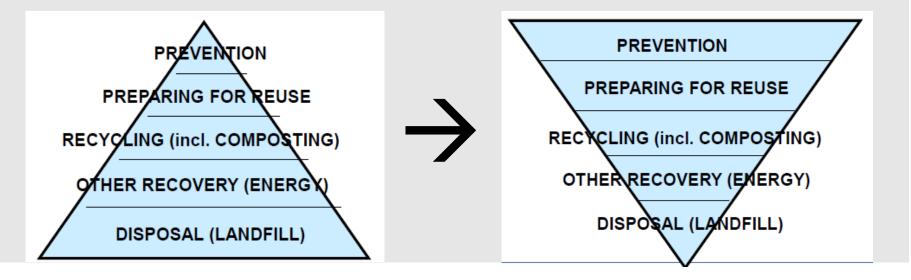
Wastes

can be dangerous (hazardous) for health and environment

 → safe storage, transport and treatment

 can be precious secondary raw material in a circular economy [and also an energy source]

 →Waste Management Hierarchy





Waste Management in Vienna

- Since 1990 separate collection of recyclables from or near households – paper, glass, plastic bottles, metals (all districts), bio-waste ("greener" districts)
- Civic amenity sites ("Mistplätze") for re-usable second-hand items, bulky and hazardous wastes (incl. Waste Electrical and Electronic Equipment)
- Mobile collection services for small hazardous household waste
- Incineration of residual wastes with energy recovery
- households pay waste fee for residual containers needed
 → may reduce through better recycling
- Since 2006, Vienna Waste Management Plans undergo Strategic Environmental Impact Assessment with public participation

Discussing waste incineration in Vienna

- Used in Vienna since 1961
 → increasing Public resistance due to insufficent flue gas cleaning
- Plant Spittelau re-built 1988-1989 according to then newest technologies
 → demonstrated compliance with strong emission limits, and intensive public dialogue assured acceptance for waste incineration among experts and citizens



Today 4 incinerators in operation (3 for municipal residual waste with energy recovery, one for hazardous wastes), policy re-confirmed by Strategic Environmental Impact Assessment

Messages ...

Modern waste management is an important "green" business

Key indicators on turnover and number employees in the Austrian waste management industry

| | Private waste manage- ment, including spun-off municipal enterprises | Municipal enterprises (including associations) and public administration | General waste management |
|---------------------|--|--|-----------------------------|
| Turnover | approx. € 4,000 m/a | approx. € 1,000 m/a | approx. € 5,000 m/a |
| Number of employees | approx. 25,000 | approx. 6,000 | approx. 31,000 |

- Necessary stages in waste management development, from
 → assuring collection and safe landfilling, to
 - \rightarrow phasing out landfilling of untreated wastes
- High levels of effective material recycling are possible only with separation at source (collection from households)
 → sorting of mixed municipal waste is much less efficient
- State-of-the-art incineration of residual wastes with energy use can be environmentally friendly and efficient
- Public/Civil society interest/participation is important

Public Participation and Transparency in Biosafety

- Biotechnology may be part of Green Economy
- However: Risks of Genetically Modified Organisms (GMOs) have to be taken into account
- Important instruments in this context:
 - Almaty Amendment of the UN-ECE Aarhus Convention focusing on GMOs
 - Cartagena Protocol on Biosafety under the CBD
- Almaty Amendment of the Aarhus Convention is not yet into force, at least 3 ratifications still missing
- Existing legislation is sometimes poorly enforced

Important steps in the GMO area

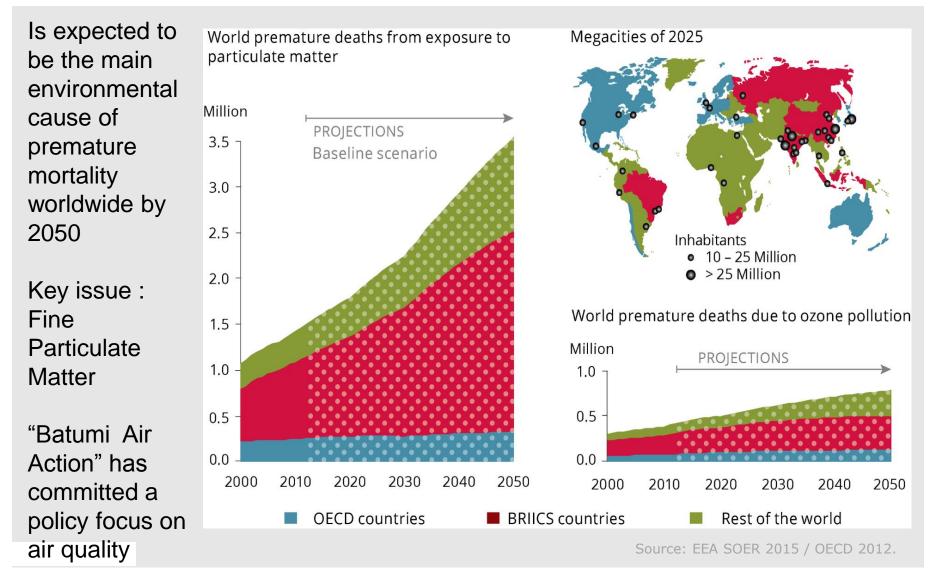
- Austria leads the GMO activities under the UN-ECE Aarhus Convention
- Second Round table on public awareness, access to information and public participation regarding LMOs/GMOs chaired by Austria (Helmut Gaugitsch)
- Last week in Geneva, 15-17 November 2016
- Joint activity by Aarhus Convention/Cartagena Protocol
- More than 45 participants from various stakeholders, including the very active Aarhus Centres

The way forward – Chair`s summary at the Geneva Roundtable

- Includes recommendations adressing the national and the multilateral level
- Possible key role of Aarhus Centres
- Examples:
 - Capacity Building is necessary for ratification and implementation
 - Key role for Aarhus Centres by collaboration with other stakeholders (government, NGOs, other centres, academia, industry, etc.)
 - Elaborating and presenting clear benefits for all stakeholders when instruments of public information and effective public participation are ratified and implemented
 - Contributing towards development of laws and ensuring compliance
 - Financial support necessary

Air pollution

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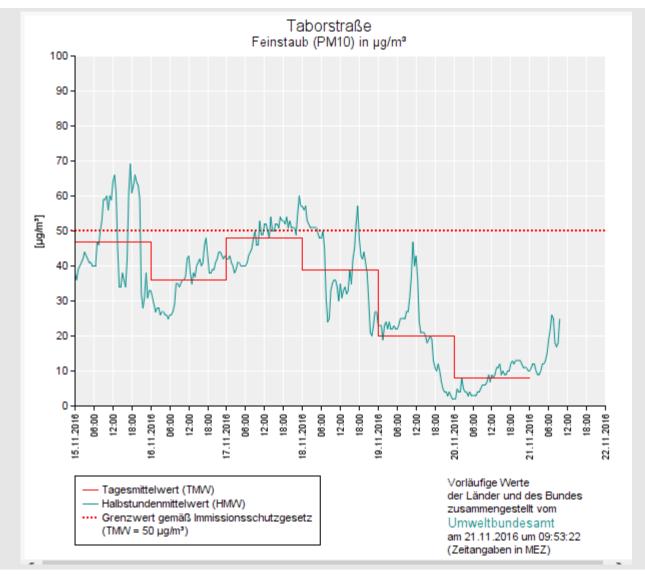


Air Quality

- Austrian air quality data on <u>www.umweltbundesamt.at</u>
 - up-to-date for experts and the public
- Near to real time access since 1996 (core element of first Umweltbundesamt website)
- Web interface from Austrian Air Quality Database which continuously receives data [half hourly mean values] from 10 networks (9 regions & Umweltbundesamt background monitoring) and > 200 Monitoring stations
- Data maintenance/validation/update at network level autmatically relayed to national database
- Austrian Air Quality Database provides all national and EU level reporting

PM10 - today

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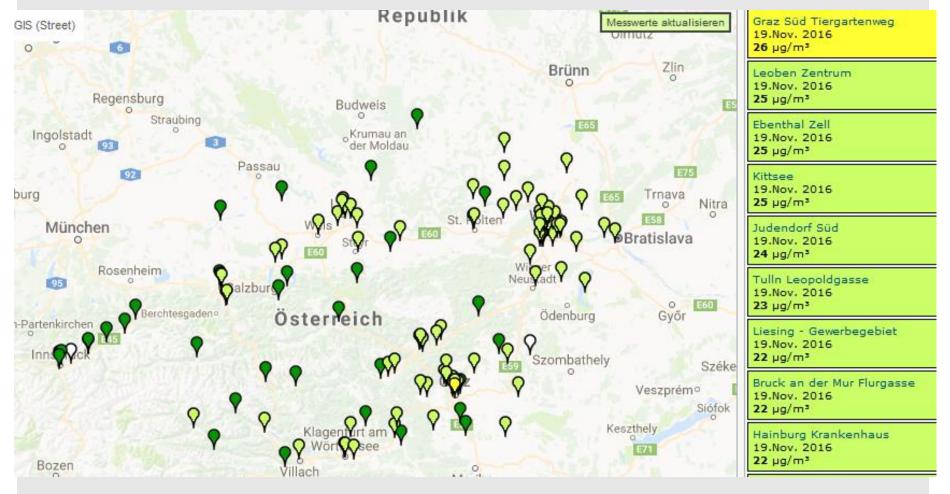


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PM10 - Saturday

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24 h mean values - 19 Nov 2016



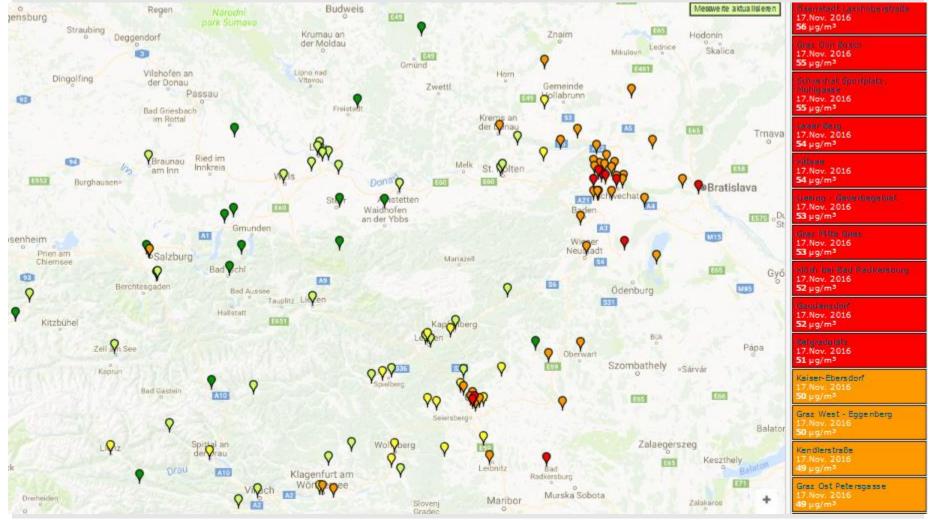
http://luft.umweltbundesamt.at/pub/gmap/start.html

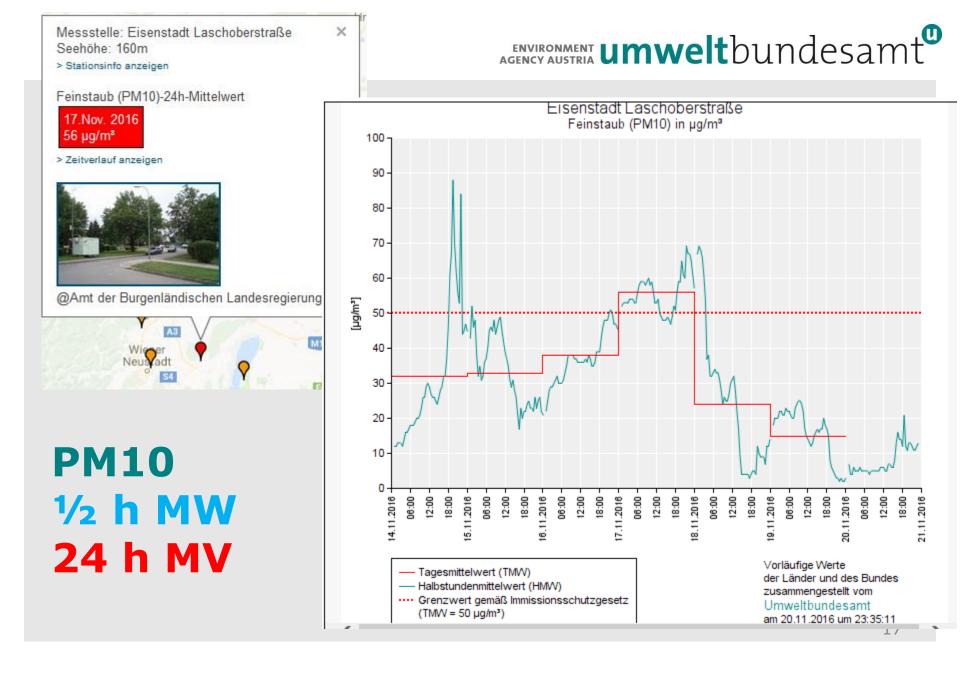
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PM10 – Thursday

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24 h mean values - 19 Nov 2016







Limit value Exceedances Statistics Data 1 Jan – 17 Nov 2016:

| Überschreitungen Feinstaub (PM10) 1.1.2016 bis 17.11.2016 | | | | | | |
|--|----------------------------------|----------------------------------|-----------|---------------------|--|--|
| | Feinstaub (PM10) Tagesmittelwert | | | | | |
| Messstelle | Messmethode | Anzahl Tage > 50 μg/m³ | w | /erte vorhanden bis | | |
| St Graz Don Bosco | grav./kont. | | <u>23</u> | 2.10/17.11 (99%) | | |
| K Klagenfurt Völkermarkter Straße | kont. | | <u>22</u> | 17.11 (100%) | | |
| St Graz Süd Tiergartenweg | grav./kont. | | <u>20</u> | 2.10/17.11 (98%) | | |
| St Graz Mitte Gries | kont. | | <u>18</u> | 17.11 (99%) | | |
| St Graz Ost Petersgasse | grav./kont. | | <u>16</u> | 2.10/17.11 (99%) | | |
| St Graz West - Eggenberg | kont. | | <u>15</u> | 17.11 (95%) | | |
| St Köflach | kont. | | <u>15</u> | 17.11 (100%) | | |
| K Ebenthal Zell | kont. | | 14 | 17.11 (98%) | | |
| NÖ Wiener Neudorf Hauptstraße | kont. | | <u>12</u> | 17.11 (100%) | | |
| St Graz Nord Gösting | grav./kont. | | 12 | -/17.11 (98%) | | |
| K Klagenfurt Sterneckstraße | kont. | | <u>11</u> | 17.11 (99%) | | |
| | | | | | | |
| / Liesing - Gewerbegebiet | grav./kont. | | <u>8</u> | 30.9/17.11 (99%) | | |
| Eisenstadt Laschoberstraße | grav./kont. | | 7 | -/17.11 (99%) | | |
| Kittsee | kont. | | 7 | 17.11 (97%) | | |
| | 10 A | | - | 47 44 (4000) | | |

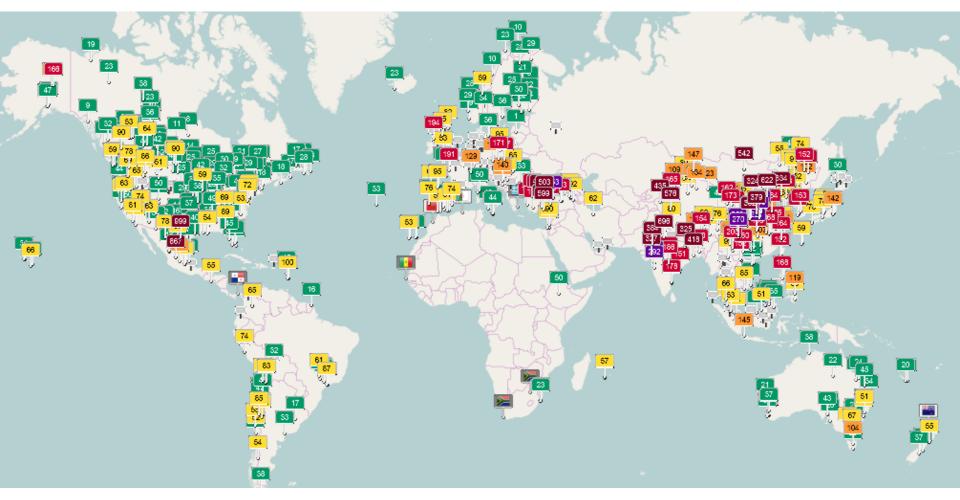
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Limit value Exceedances Statistics for 2015 [available from 2001]:

| Überschreitungen Feinstaub (PM10) 1.1.2015 bis 31.12.2015 | | | | | | | |
|--|-------------|----------------------------------|---------------------|--|--|--|--|
| Feinstaub (PM10) Tagesmittelwert | | | | | | | |
| Messstelle | Messmethode | Anzahl Tage > 50 μg/m³ | Werte vorhanden bis | | | | |
| St Graz Ost Petersgasse | grav./kont. | 46 | -/31.12 (100%) | | | | |
| St Graz Don Bosco | grav./kont. | 39 | 31.12/- (99%) | | | | |
| St Leibnitz Lastenstraße | grav./kont. | <u>36</u> | -/31.12 (99%) | | | | |
| St Graz Süd Tiergartenweg | grav./kont. | 35 | 31.12/- (99%) | | | | |
| OÖ Linz Römerberg B139 | grav./kont. | <u>23</u> | 31.12/- (100%) | | | | |
| <u>B Kittsee</u> | kont. | 20 | 31.12 (97%) | | | | |
| St Fürstenfeld Schillerplatz | kont. | 20 | 31.12 (99%) | | | | |
| <u>St Köflach</u> | kont. | 20 | 31.12 (99%) | | | | |
| K St. Andrä i. L. Volksschule | kont. | <u>19</u> | 31.12 (100%) | | | | |
| T Innsbruck Reichenau - Andechsstraße | grav./kont. | <u>19</u> | 8.12/31.12 (99%) | | | | |
| St Graz Mitte Gries | kont. | <u>18</u> | 31.12 (100%) | | | | |
| K Klagenfurt Völkermarkter Straße | kont. | <u>17</u> | 31.12 (100%) | | | | |
| OÖ Linz Neue Welt | grav./kont. | <u>17</u> | 31.12/- (99%) | | | | |
| St Graz West - Eggenberg | kont. | <u>16</u> | <u>31.12 (100%)</u> | | | | |
| NÖR FILDER | | | | | | | |

up-to-date online air quality information world-wide



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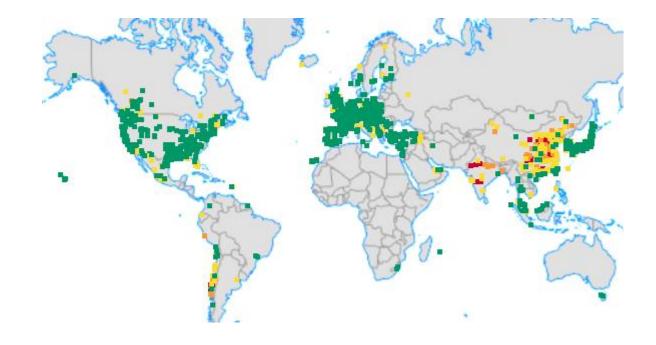
as registered on 20 Nov 2016 through www.aqicn.org and UNEP-live

up-to-date online air quality information world-wide



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as registered on 20 Nov 2016 through www.aqicn.org and UNEP-Live











Twinning project AZ/15/ENP/EN/43

Upgrading the National Environmental Monitoring System (NEMS) of Azerbaijan on the base of EU practices

Member State Partners Finland (Lead), Austria and Latvia

27 months from November 2016

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Thank you for your attention

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