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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

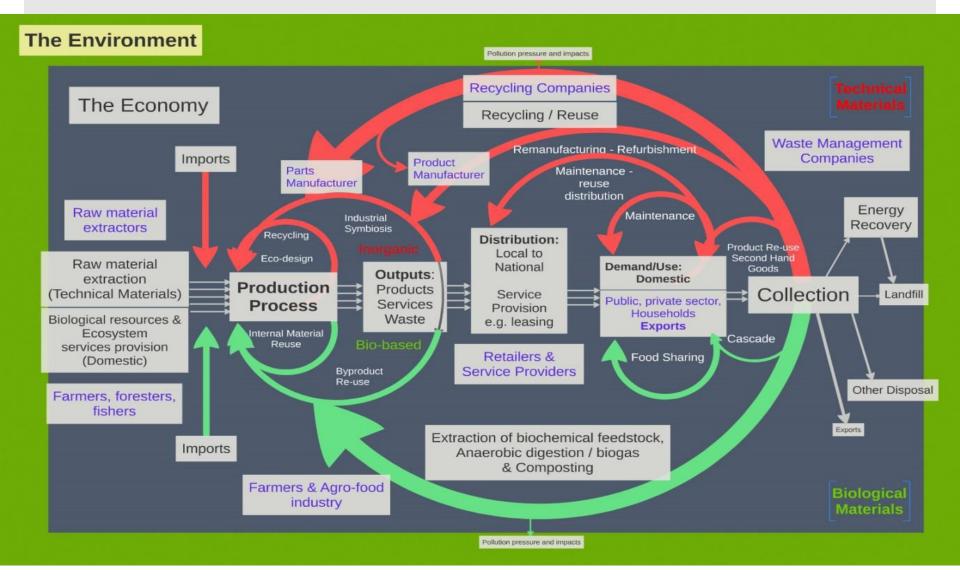
`In 2050, we live well, within the planet's ecological limits.

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)

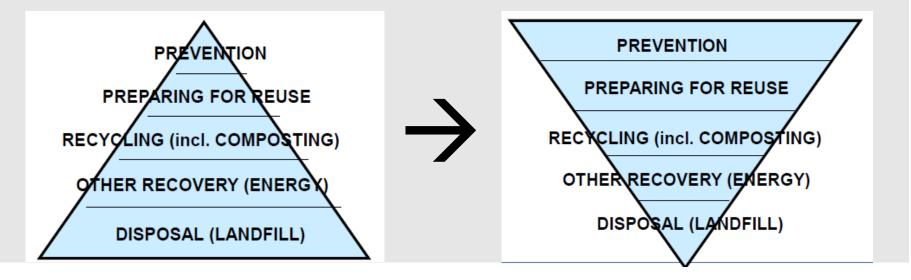
Wastes

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

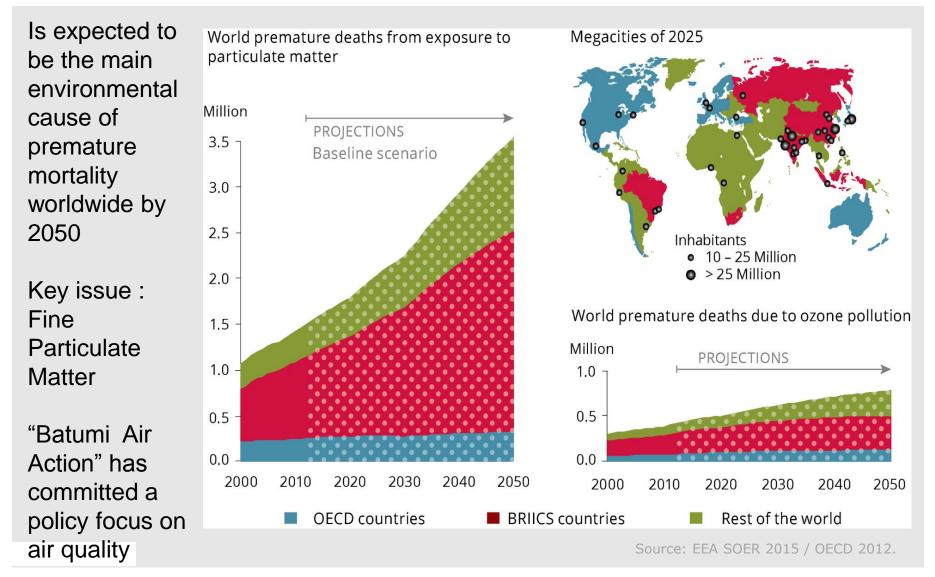
- Austria leads the GMO activities under the UN-ECE Aarhus Convention
- Second Round table on public awareness, access to information and public participation regarding LMOs/GMOs chaired by Austria (Helmut Gaugitsch)
- Last week in Geneva, 15-17 November 2016
- Joint activity by Aarhus Convention/Cartagena 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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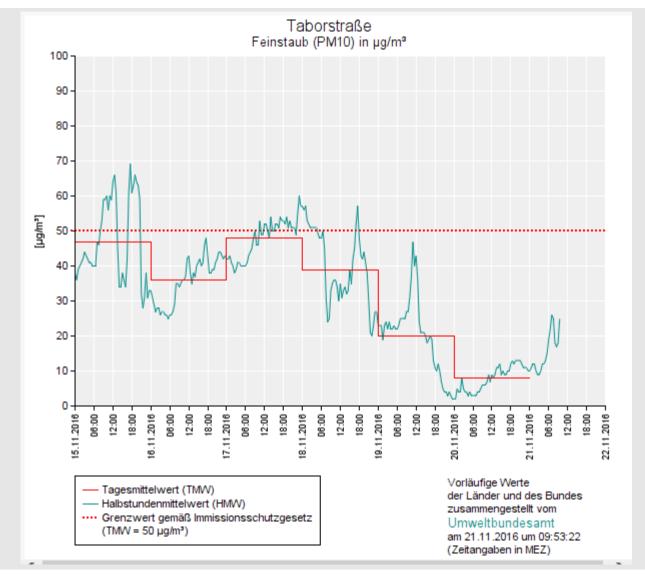


Air Quality

- 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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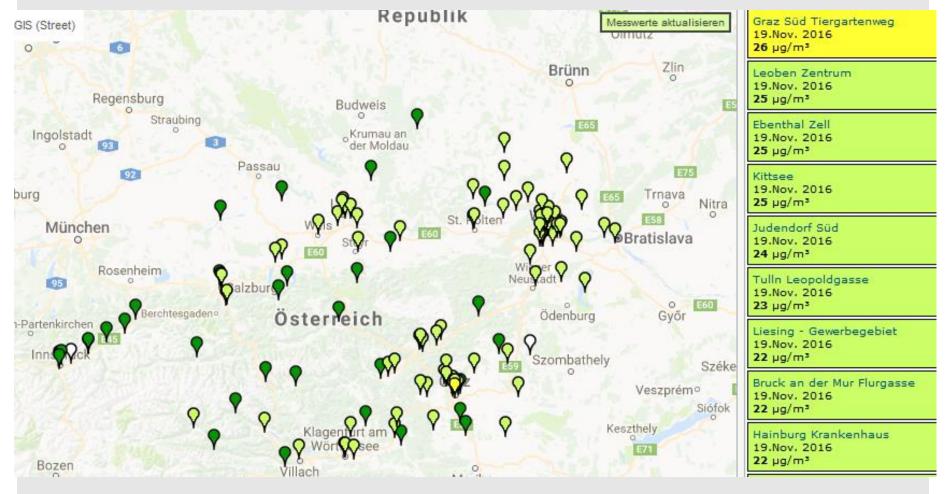


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PM10 - Saturday

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24 h mean values - 19 Nov 2016



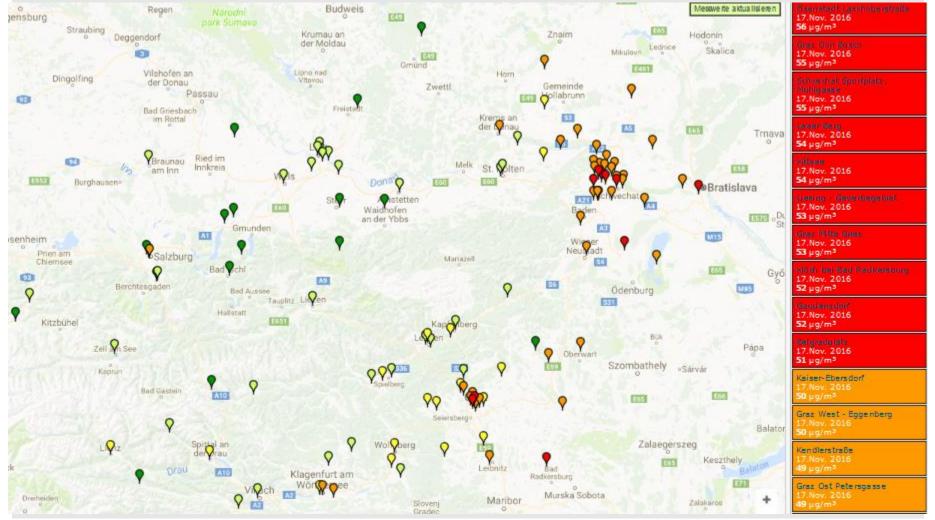
http://luft.umweltbundesamt.at/pub/gmap/start.html

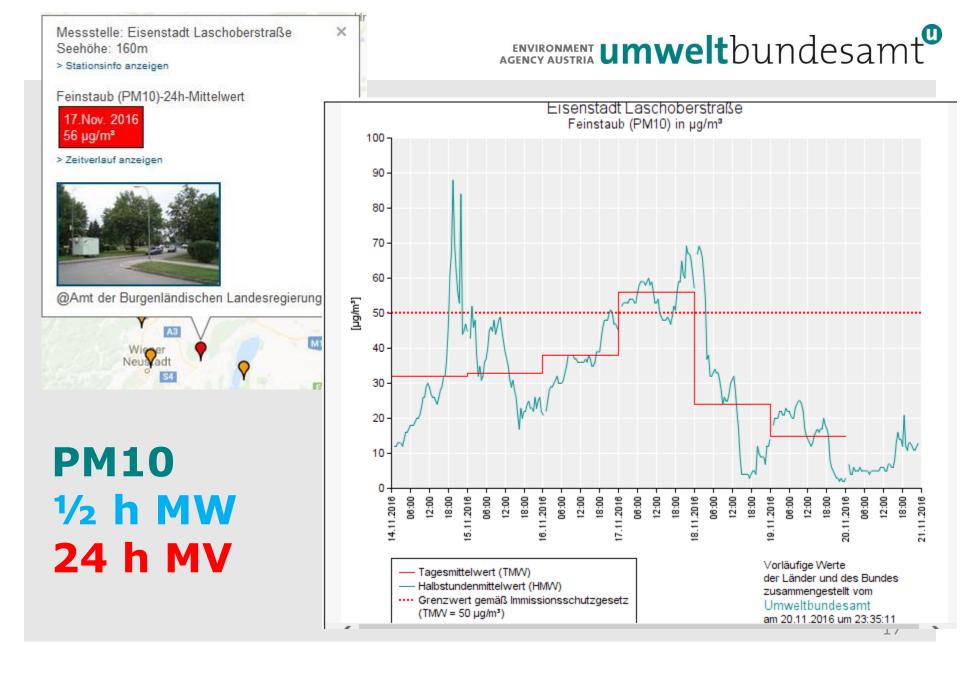
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PM10 – Thursday

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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)		

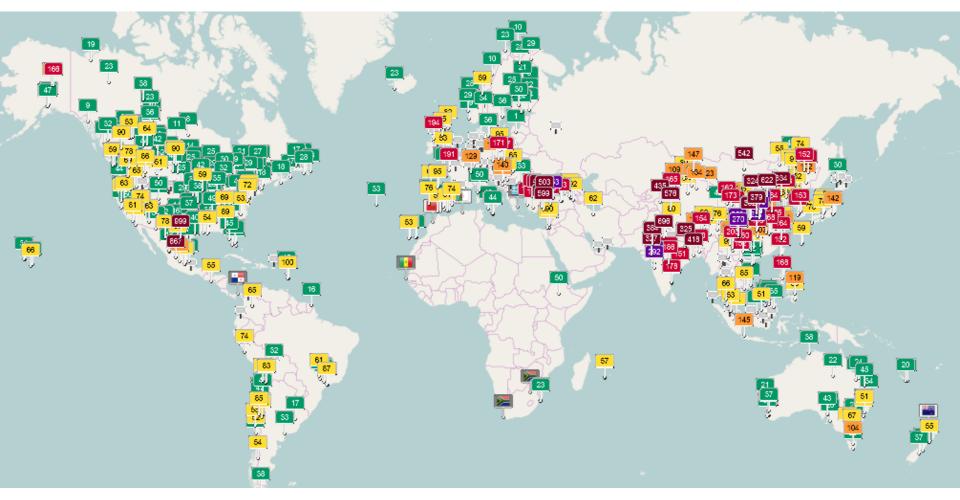
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Limit value Exceedances Statistics for 2015 [available from 2001]:

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							

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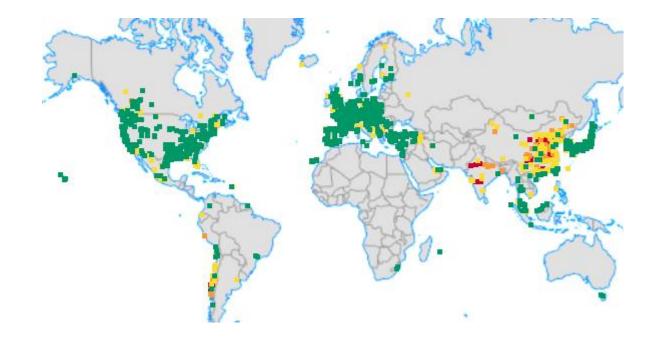
as registered on 20 Nov 2016 through www.aqicn.org and UNEP-live

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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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