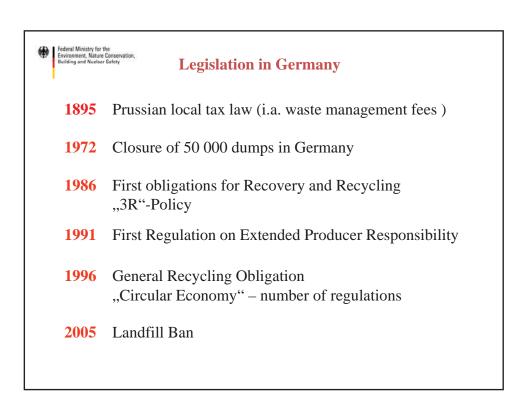
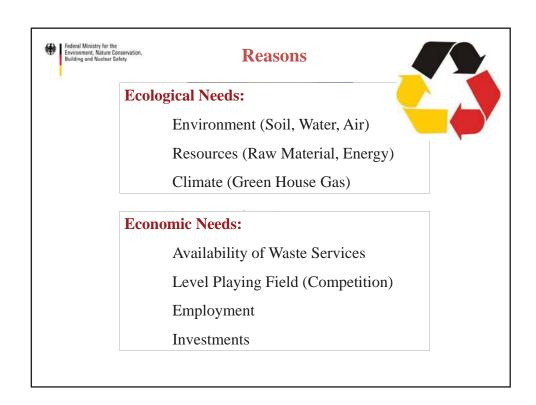
EEF.DEL/14/16 26 January 2016

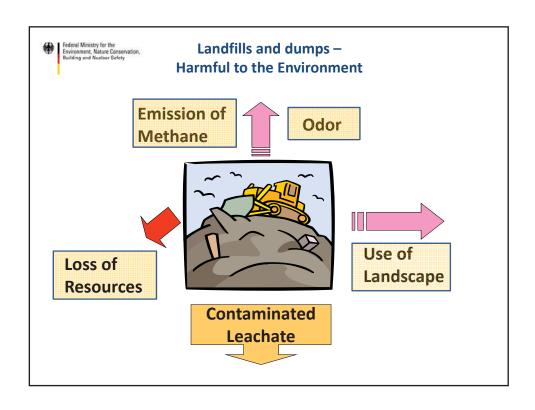
ENGLISH only

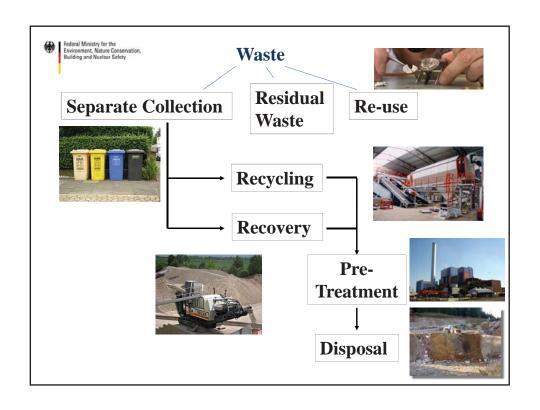
Dr. Andreas Jaron, Head of Division, General, Principal and International Matters of Circular Economy, Transboundary Movement of Waste, Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety, Germany

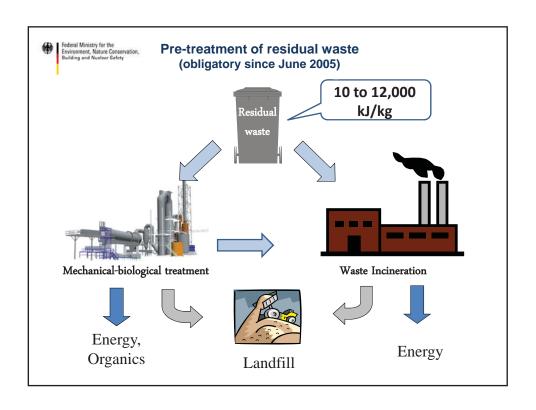














Legal obligations ...

Segregation at source

Separate collection and separation after collection

Recycling

Incineration of residues (recovery of energy / high standard gas cleaning)

No bio-degradable waste to landfills

... plus incentives

High technical and organisational standards

Higher costs and prices

Less waste, more seperation, more recycling / recovery



Recycling by segregation / separation



Private Households

Bio waste

Paper

Packaging

Glass

[Metals]

E-waste

Batteries

Textiles

Hazardous waste

Residues

Commerce / Industry



Wood

Plastics

Metals

Mineral waste

other mono-charges:

slags,

sludges,

RDF

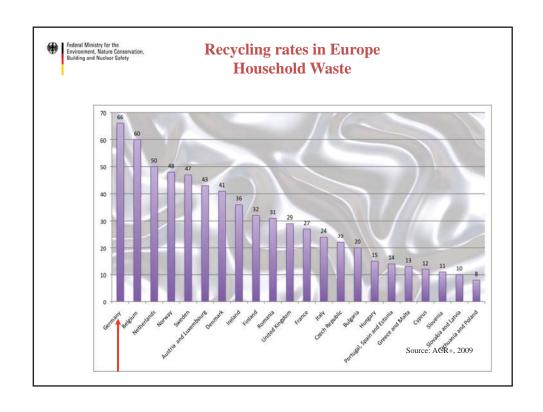


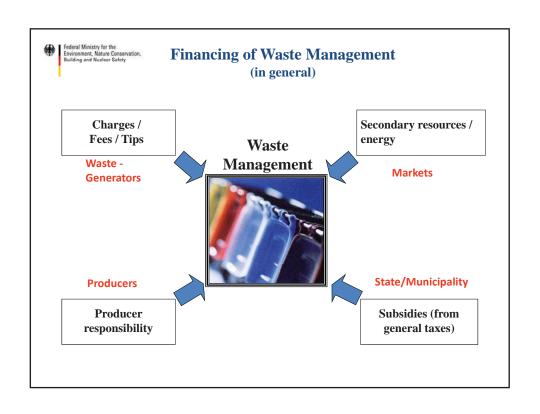
Germany: Basic Data (2013)

		Recycling
Total Waste Generation:	339 Mio to	(71 %)
Municipal waste:	50 Mio to	(64 %)
[Household waste:	44 Mio to]	(65 %)
Production and commercial waste:	57 Mio to	(51 %)
Mining waste:	29 Mio to	(1%)
C&D waste:	203 Mio to	(88 %)
[Treatment waste:	47 Mio to	(54 %)]
[Hazardouzs Waste:	17 Mio to	(57 %)]

More than **200,000 people** work in waste management Annual turnover of about **40 billion Euro**

Federal Ministry I Environment, Nat Building and Nuo	ure Conservation,	Waste Management Infrastructure (2013)		
	167	Waste-Incineration Plants (incl. 70 MWI)		
,	705	Waste-to-Energy Plants		
:	552	CP-Treatment Plants		
,	2462	Biological Treatment Plants (Comp./Digestion etc.)		
:	58	MBT		
	1094	Sorting Plants	15 586 Plants	
	1331	ELV-Dismantling Plants	3000 Companies	
	321	WEEE-Dismantling Plants	402 Municipalities	
	114	Soil Treatment Plants		
,	2172	C&D-Recovery Plants		







Results

- Saving of 46 Mio tons of CO2 equivalents until 2005
- 20 % of Kioto-Targets for 2005 and 10 % for 2020 by waste management
- ⇒ 3.6% electricity and 2.2% thermal energy by Waste-to-energy
- No uncontrolled biological or burning processes in landfills
- ⇒ 65 % Recycling Rate for Municipal Solid Waste
- Appr. 200.000 Persons working in this sector



Green Economy

Ecological Benefits

Protection of

- Resources
- Environment
- Climate



Social Benefits

- Employment
- Qualification
- Welfare

Economic Benefits

- Investments
- Turnover
- Profits
- Employment



Bilateral and multilateral Cooperation

Bilateral:

GIZ

Ministry - Several EU-Member states

- i.a. China, Egypt, Jordan, Israel, Turkey

Twinnings (currently: Serbia)

Multilateral:

• European Union and OECD

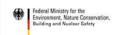
 Basel Convention on Hazardous and other Waste Expert Working Group on ESM

Manuals (brief and practical) on Permitting, Model legislation, Certification, Prevention etc.)

Waste Fact Sheets (i.a. Municipal, Hazardous Waste)

Pilot Projects

Contributions of Private Sector



Thank You very much for Your attention

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Deutschland 2016