



Federal Ministry for the
Environment, Nature Conservation,
Building and Nuclear Safety



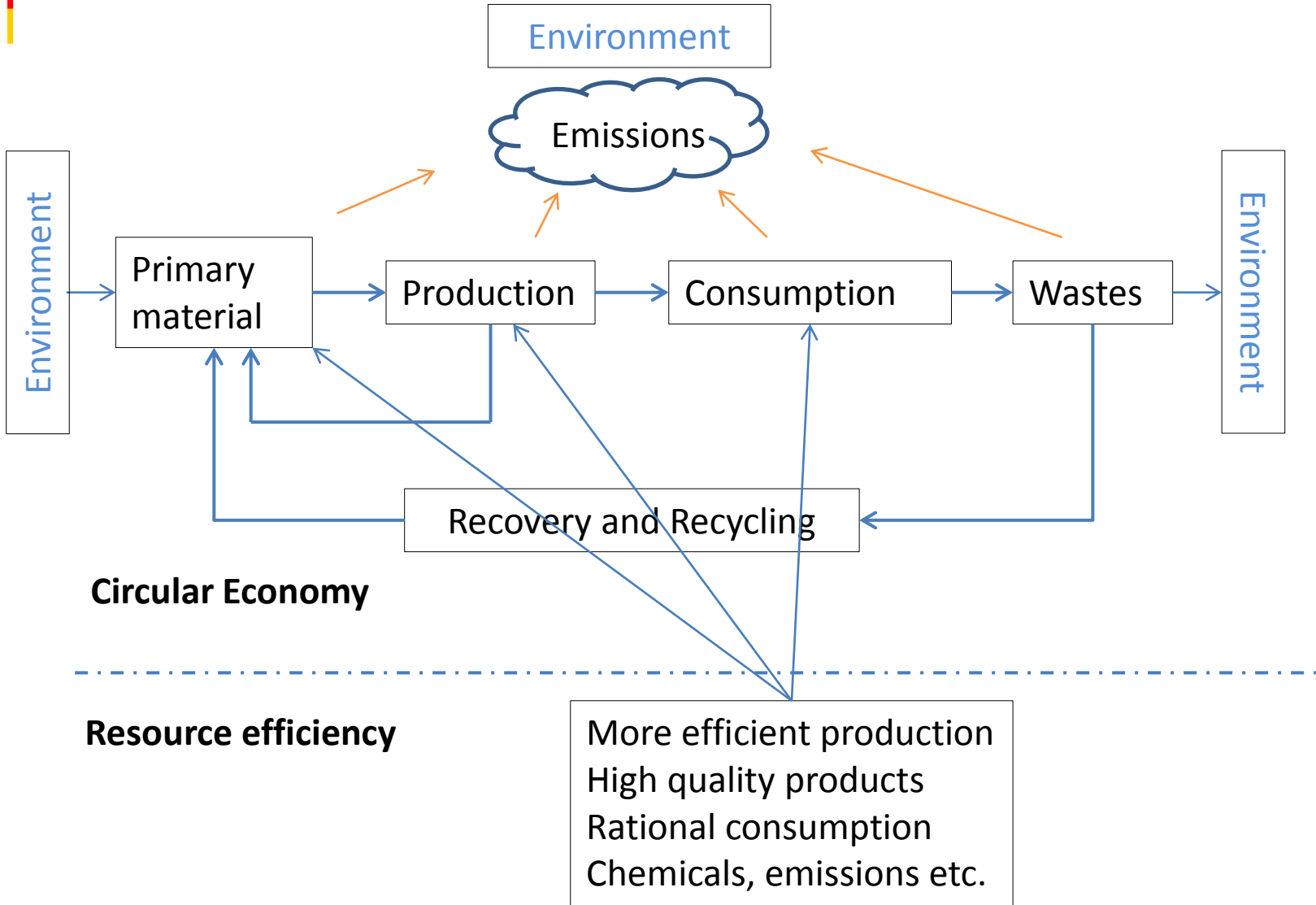
THE ROLE OF BIOWASTE IN THE EMERGING CIRCULAR ECONOMY

Creating new jobs from managing biowaste

Position of Germany on the Circular Economy

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Options of Biowaste Recovery



25 to 70% of municipal waste

Biowaste



Composting

Digestion

Incineration

Biofuel

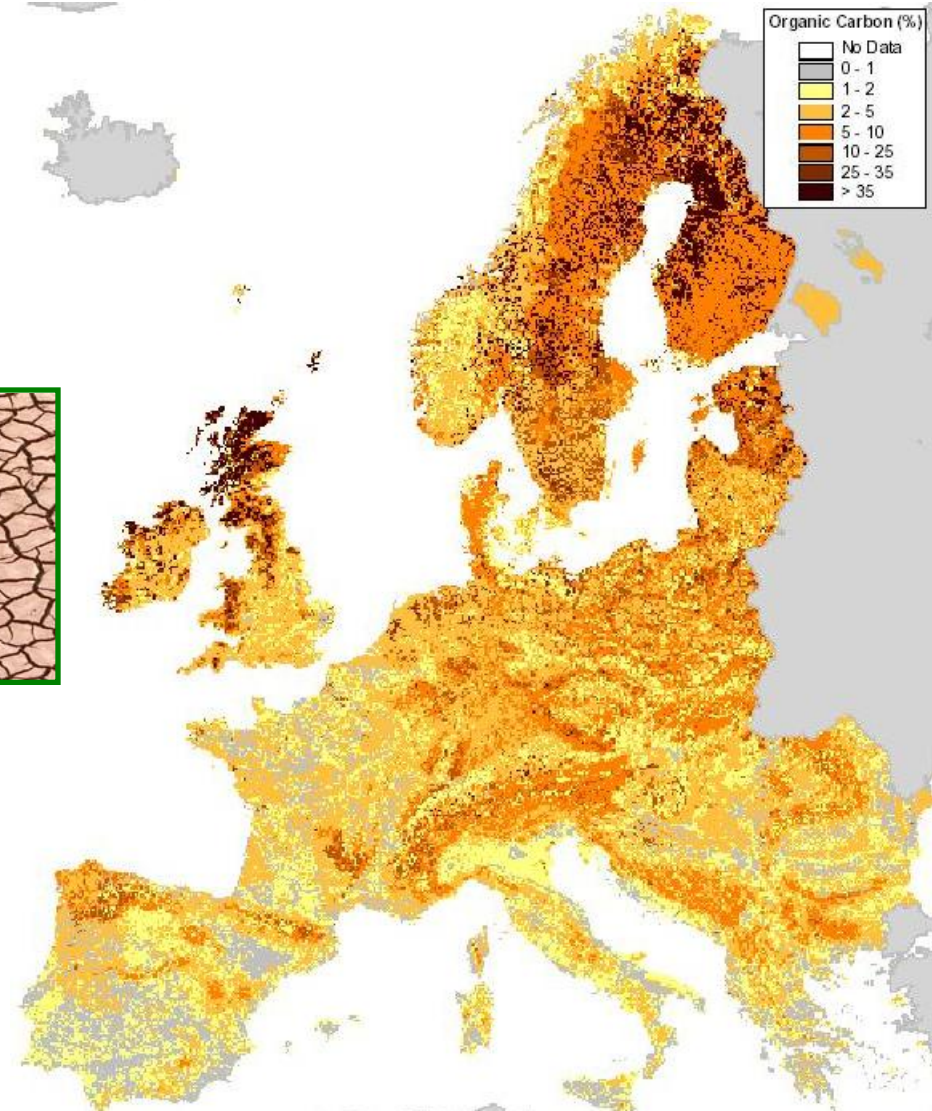
**Biocoal/
Terra Preta**



Biowaste is a positive contribution to ...

Soil Protection

→ Organic Matter





Biowaste is a positive contribution to ...

Resource Protection

→ Use of plant nutrients of the biowaste

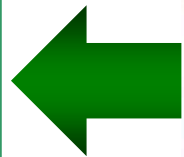
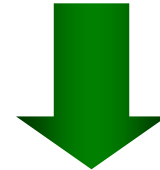




Biowaste is a positive contribution to ...

Climate Protection - by Waste-to-Energy

→ Biogas or energetic recovery





Biowaste is a positive contribution ...

if

**... it's collected separately and
recovered properly**



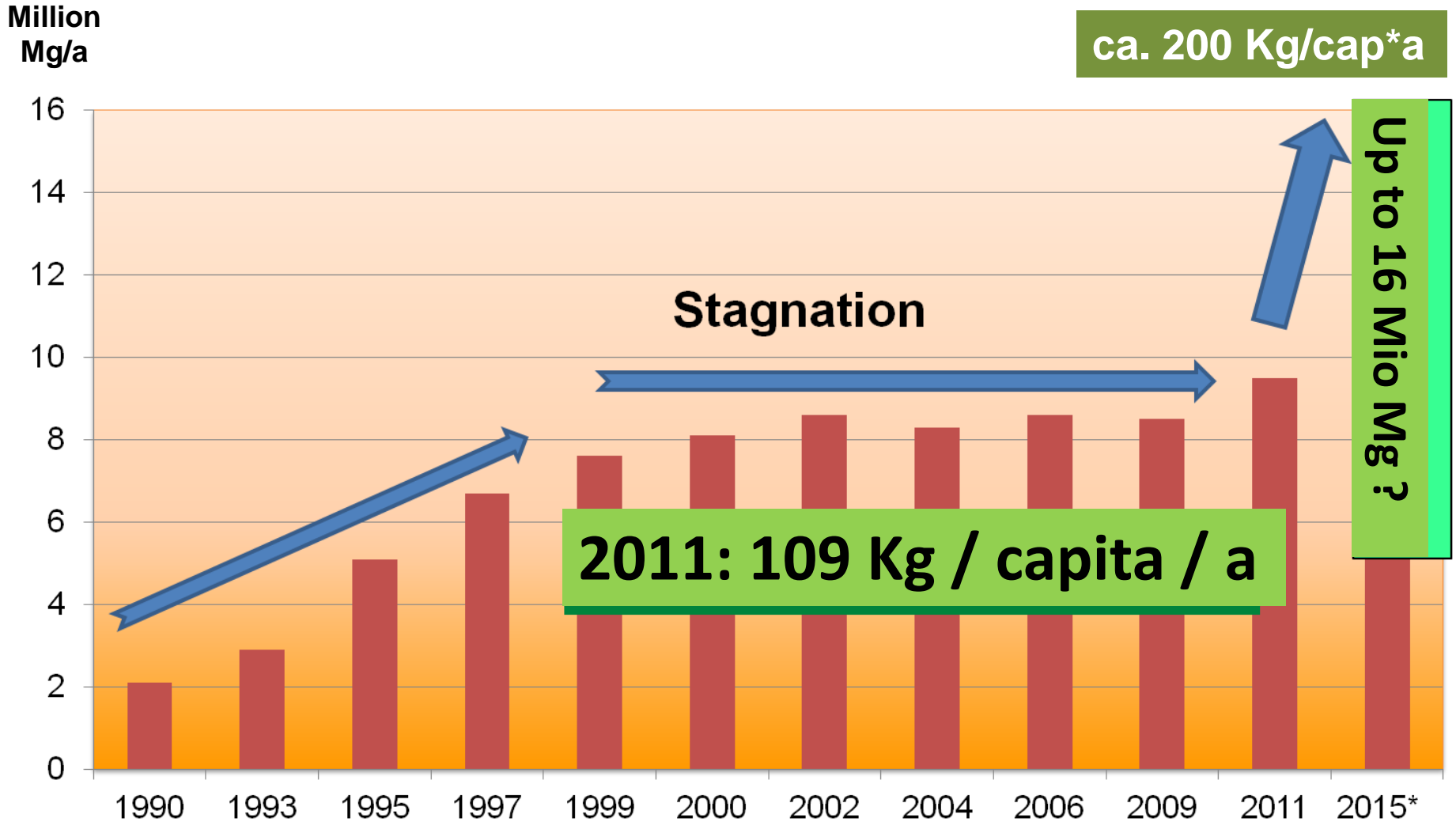
Separate Biowaste collection in Germany (2011)

- **3 989 400** tons from private households
- **4 149 000** tons green waste from gardens and parks
- **467 400** tons of food waste from canteens and restaurants
- **34 000** tons of market wastes





Bio and Green Waste in Germany 1990 to 2015





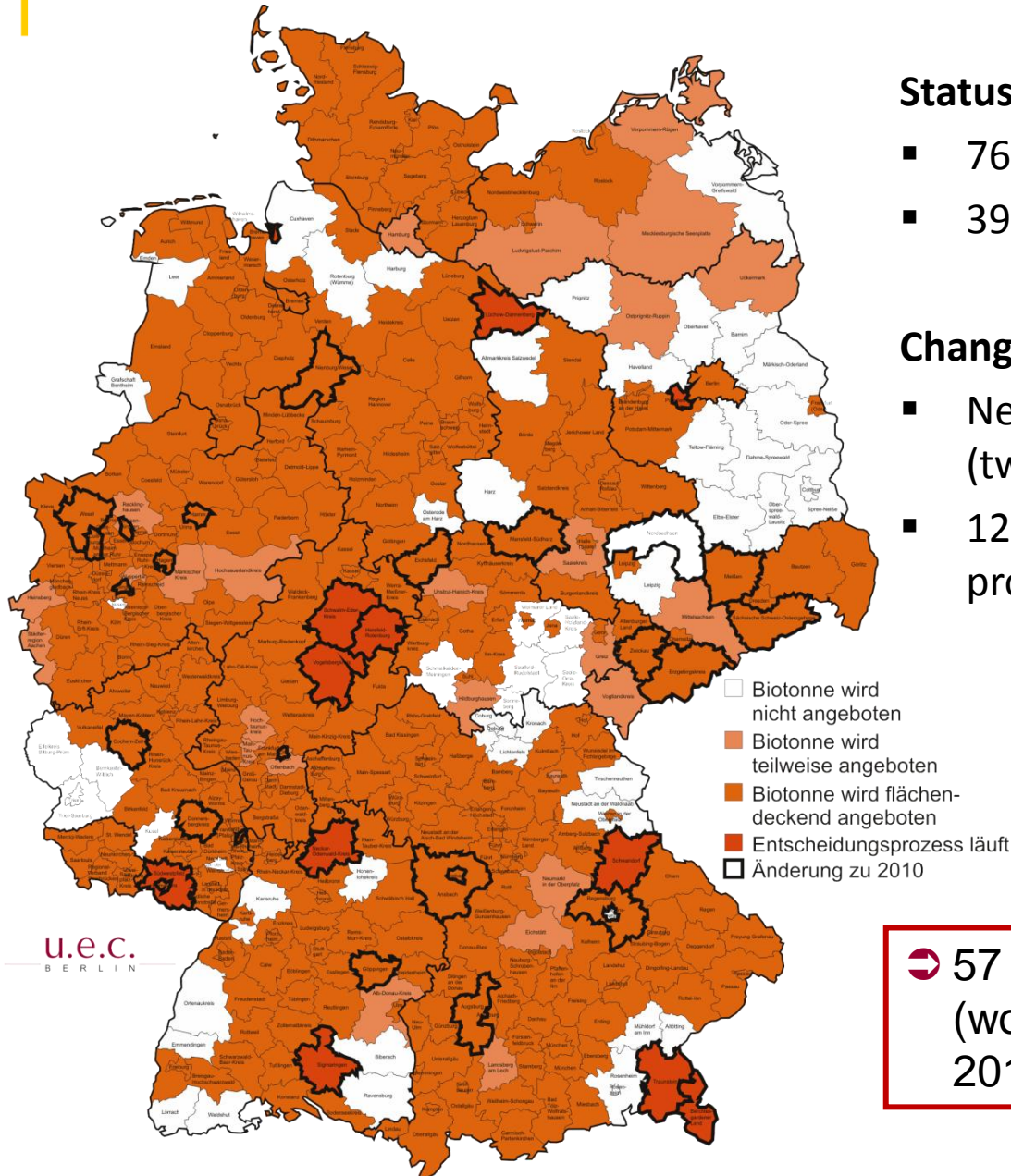
Estimated separate collection in 2015

Status bio bin 2010:

- 76 Counties of 402 without bio bin
- 39 Counties with reduced entry

Changes of bio bins until 2015:

- New systems in 10 counties
(two more in 2016)
- 12 counties in current decision
process



➡ 57 (best case) to 69 counties
(worst case) have no bio bin in
2015



Biogas in Germany

- Ca. **7.500** biogas plants in Germany (2012)
- Ca. **100** bio waste digestion plants
- Total electricity generation from biogas **23,1 TWh**
(especially renewable resources)
- Just under **4%** of electricity consumption





Waste Package Legislative Proposal Circular Economy Package

- Proposal July 2014:**
- No sufficient Impact Assessment
 - No previous communication with Member States
 - Unpractical, unachievable or wrong targets
 - Legally insufficient
 - No sufficient tools
 - Not respecting subsidiarity
 - Less duties, but more power to COM
 - More bureaucracy in companies & administrations

Nevertheless regret over withdrawal ! Bad political signal !



Why the first proposal failed

Two political postulations:

1. Change of Calculation method
2. Increase of target from 50% to 70%

**With the proposed Calculation method it is
technically impossible to reach 70% !**



Role of targets

Indicators are a tool to compare situations in different periods of time or regions !

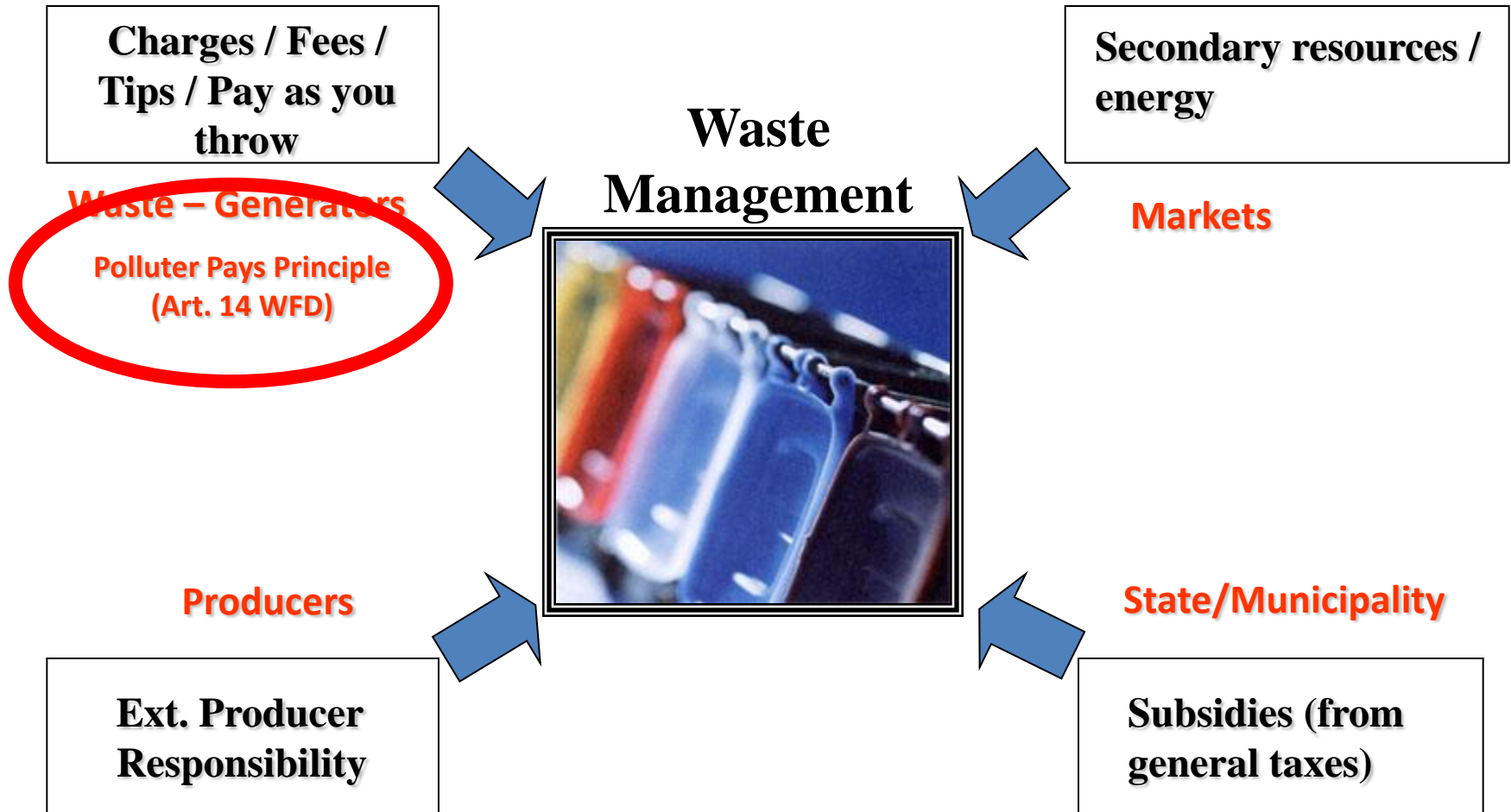
Indicators and quantitative targets are **not** a tool to achieve environmental goals !

The **right** tools to achieve goals are:

- Duties (Polluter-Pays-Principle and BAT !!!)
- Knowledge-transfer
- Support
- Money
- Incentives
- Sanctions



Financing of Circular Economy (in general)





What we expect

„Waste legislation“

- A better, practical, achievable proposal
- Taking account of the different situations in Member States
- Previous participation / communication with experts from Member states
- Clear definitions
- Duties to implement the **Polluter Pays Principle** (Fee and price systems)
- Attention to the relation between amount and quality of recycled material (possibly different approaches for different waste streams)
- Strategy for Critical Raw Materials
- Qualitative restrictions for landfilling
- To consider: Maintain the existing recycling target / calculation method and supplement it with an efficiency (input-output) indicator (possibly with voluntary targets)



What we expect

„Accompanying program (roadmap, action plan, strategy ...)“

- Knowledge transfer (Twinning, workshops, guidelines)
- Support (incentives, financial instruments, funds ...)
- Relation to other policies (chemicals, water, energy, markets ...)
- Regular involvement of Member states in development of strategies
- Information exchange and constructive discussion between Member states, and Commission
- Development of indicators and targets for Resource efficiency



New COM Proposal

Resource Efficiency
Production - Products - Consumption

Thank you very much for your attention

Waste / Circular Economy Package