

# RECO

REGIONAL COOPERATION IN WASTE MANAGEMENT



## Entrepreneurship in Waste Management



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### Entrepreneurship in Waste Management Goal of the presentation

- To present several methods/systems of successful waste management as present systems do not provide efficiency required to fulfill the goals set by EU legislation.



## Entrepreneurship in Waste Management Structure

- a. Private vs public companies in waste management service.
- b. Challenges and barriers in production companies.
- c. Successful cases in waste management.



## Entrepreneurship in Waste Management Module a. Private vs Public Services

- On the one hand public services, under control of local authorities are better incorporated into local-regional strategies and plans,
- On the other hand, this may lead to unefficiencies and monopoly practices



## Entrepreneurship in Waste Management Module a. Private vs Public Services

- On the one hand, free market in waste management provides better services through competition,
- On the other hand, commercial activities always look for cheaper but (not always) appropriate solutions



### Entrepreneurship in Waste Management Module a. Private vs Public Services

- On the one hand there is a system that stimulates cooperation of public and private enterprises (Public Private Partnership),
- On the other hand PPP is rarely implemented in waste management,



### Entrepreneurship in Waste Management Module a. Private vs Public Services

Experiences - Private Enterprises

Dariusz Matlak (PL)

Polish Chamber of Waste Management

Experiences - State Enterprises

Tomasz Uciński (PL)

National Chamber of Waste Management

The Public-Private Partnership in waste management

Witold Grzybowski (PL)

Dolnoslaska Consulting Group



### Entrepreneurship in Waste Management Module b. Production companies

- Moving Focus from
  - Waste management to Product life cycle
  - From Community-funded recycling to producer responsibility for end of life products
- WHY ?
  - For every 100 ton of product manufactured in globally, we create at least 3,200 ton of waste.
  - Only 6% of the materials we extract each year from the Earth becomes durable goods, the other 94% is converted into waste within few months



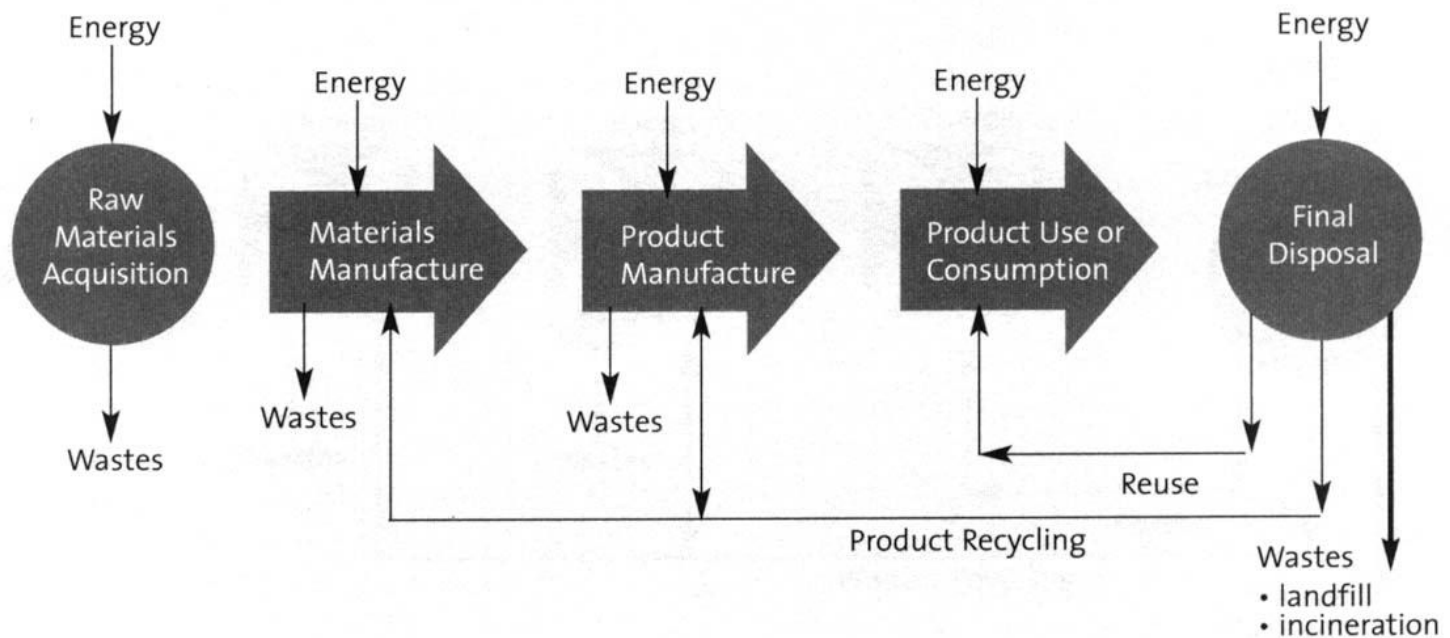
### Entrepreneurship in Waste Management Module b. Production companies

- For PRODUCTION PROCESSES Cleaner Production includes:
  - conserving raw materials and energy;
  - eliminating toxic raw materials
  - reducing the quantity and toxicity of all emissions and wastes before they leave a process
- For PRODUCTS Cleaner Production focuses on
  - reducing impacts along the entire life cycle of the product...from raw material extraction to the ultimate disposal of the product



### Entrepreneurship in Waste Management Module b. Production companies

Figure 3: THE PRODUCT LIFE CYCLE





### Entrepreneurship in Waste Management Module b. Production companies

- Legal Tools:
- End of Life Vehicles (EoLV)
- Waste from Electrical and Electronic Equipment (WEEE)
- Restriction of Hazardous Substances (RoHS)



### Entrepreneurship in Waste Management Module b. Production companies

How legal tools may streamline development of  
waste-friendly products

Andrius Plepys (SE)

*International Institute for Industrial Environmental  
Economics at University of Lund*

Barriers and incentives for development of waste-  
friendly products

Alexander Startsev (RU)

*UNIDO North-Western International Cleaner  
Production Centre*

Ruta Bendere (LV)

*Waste Management Association of Latvia*



# Entrepreneurship in Waste Management

## Module c. Successful case studies



- Clear strategies to promote reuse: Finland, Germany, Sweden, Denmark, Norway, Iceland, Netherlands, Estonia, Croatia
- Loose strategies to protect reuse: Austria, Belgium
- No strategies to protect reuse: UK, France, Ireland, Greece, Cyprus, Malta Portugal, Italy, Spain, Poland, Latvia, Lithuania and most Balkan states



## Entrepreneurship in Waste Management Module c. Successful case studies

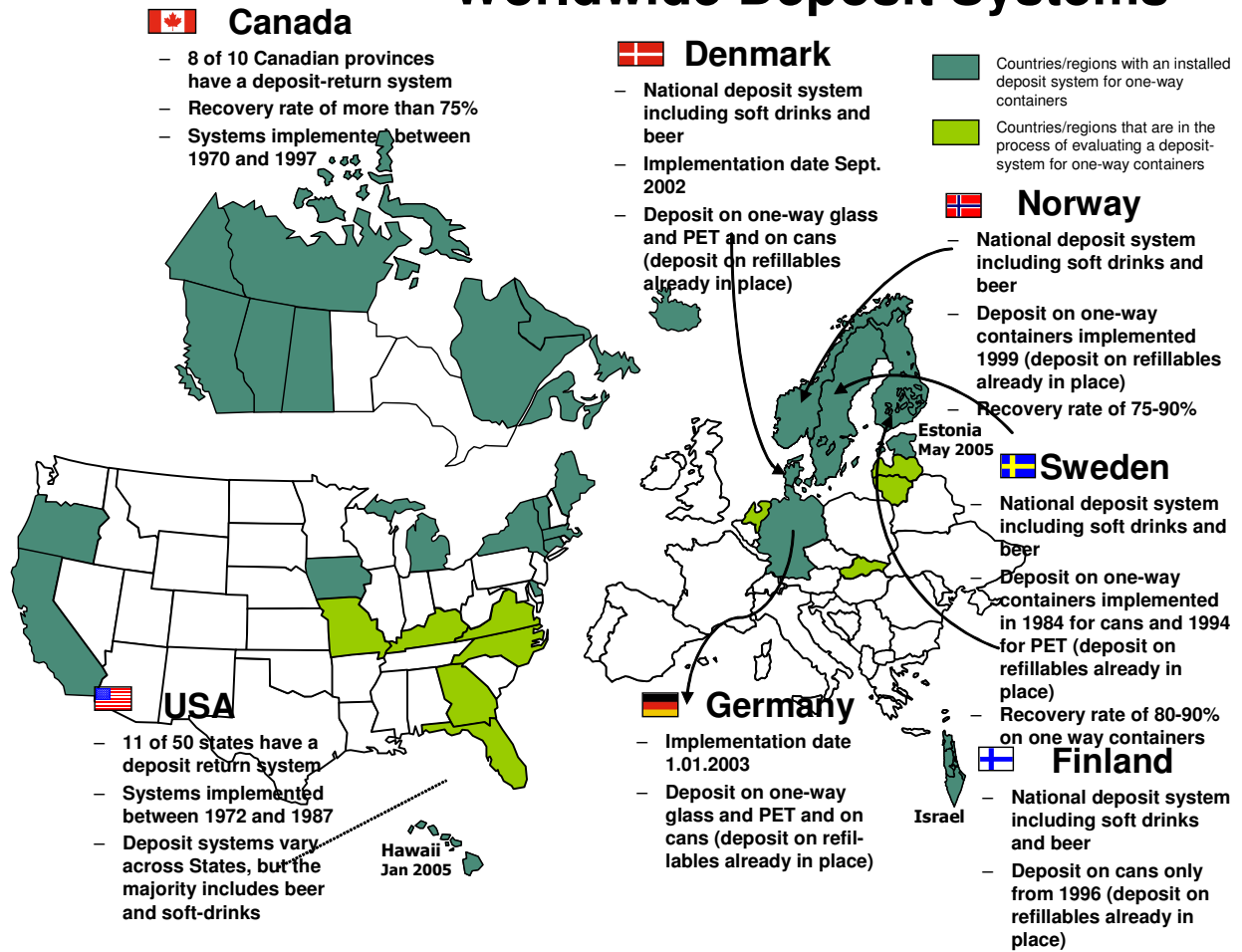
- Bans for one-way containers (Denmark until 2002) and Obligations for specific product-packaging combinations (Netherlands until 2006)
- Fiscal Measures on one-way containers or tax reduction on reuse containers (Ontario, New York State, Finland, Belgium)
- Return- and Collection systems with deposit on one-way containers (about 30 systems worldwide, in Europe: Germany, Sweden, Estonia, Netherlands for bottles > 0,5l and Croatia)
- Combination of Deposit and Tax (Finland on cans, Denmark, Norway)



# Entrepreneurship in Waste Management

## Module c. Successful case studies

### Worldwide Deposit Systems





## Entrepreneurship in Waste Management Module c. Successful case studies

Management of packaging waste

Harri Moora (EE)

*Stockholm Environment Institute - Tallinn Centre*

Management of waste electrical and electronic equipment

Zbigniew Milkiewicz (PL)

*CCR Poland (ERP)*

Municipal waste collection scheme - Tallin

Jana Kivimägi (EE)

*City of Tallin*

Hazardous waste management system - Lithuania

Jurgita Ulinskaite (LT)

*Institute of Environmental Engineering (APINI)*



Thank You...

... and do not forget to  
consult our speakers after  
their sessions