City of Stockholm

- Capital of Sweden
- 867,000 inhabitants
- 440,000 flats and villas.
- Located between Lake Mälaren and the Baltic Sea
- Built on 14 islands around the medieval city centre
Solid Waste Sector

The Sustainable City
Solid Waste Policy and Programmes

Waste Management Strategy

Waste hierarchy

-The foundation in Waste Management

1. Prevention
2. Reuse
3. Recycle
4. Energy recovery
5. Landfilling
Solid Waste Policy and Programmes
Sustainable Waste Management

Interaction between

Legislation
Strategy and visions
Collection
Recycle
Treatment
Waste Management Services

**Household Waste (Municipal Solid Waste) incl. Food-waste**
- Municipality
- Producer

**Hazardous Waste**
- From households
- From commercial business

**Bulky waste from Households**
- Recycling-centres (ÅVC)
- Authorised bulky waste contractors

**Waste from Electrical and Electronic Equipment**
- Producer

**Medical Waste (Hospitals, Health Care Facilities, Medicine rests etc.)**
- Pharmacies
- Regional contractors

**Commercial waste and domestic solid waste**
- excl. waste from households
Waste Management Services

- 73,000 Collection-points
- 4,000,000 Collections per year

5 Contractors, collection of Household-Waste
1 Contractor, collection of Food-Waste
13 Contractors, Bulky Waste
75 Trucks Collection of Household-Waste,
100% running on non fossil-fuel (Bio-gas)

Public Procurement

12 districts
4-6 year contracts
Waste Management Services

Financing and Waste-fee

**Who and how to pay?**
The property-owner pays

**Investments**
Public, private, PPP, BOT

**Waste-fee**
Fee-structure:
- Prime-cost
- Equal service = equal pay
- Basic-fee
- Collection
- Treatment
- Landfill-tax
Waste Management Services

Need of the energy and nutrients

Incineration with energy-recovery
Biogas-and bio-fertilizer production

Treatment and recycling of Residues

Ban on organic waste to landfills and Landfill-tax has given

Minimum Landfilling
Conclusions and Next Steps

Challenges for Sustainable Waste Management

Choice of technology
Financing
Operation
Environment demands
Conclusions and Next Steps

“There is only one earth - be careful with it”