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# The problem

In the UK we produce **400m** tonnes of waste/year

**7%** of waste by weight is household waste

But ... **93%** of waste is commercial, industrial, agricultural, construction, demolition, mines and quarrying, sewage and dredged sludge waste

and.... WEEE, Hazardous Waste, Agricultural Waste, ELV, Batteries ...



# Environmental policies = profit



- Waste costs – can be 4% of turnover
- Income from waste
- Investors are increasingly looking at environmental policies
- Fines – as regulations change
- By 2012 waste could be an economy worth £500m per year to the West Midlands

# What is Industrial Symbiosis?



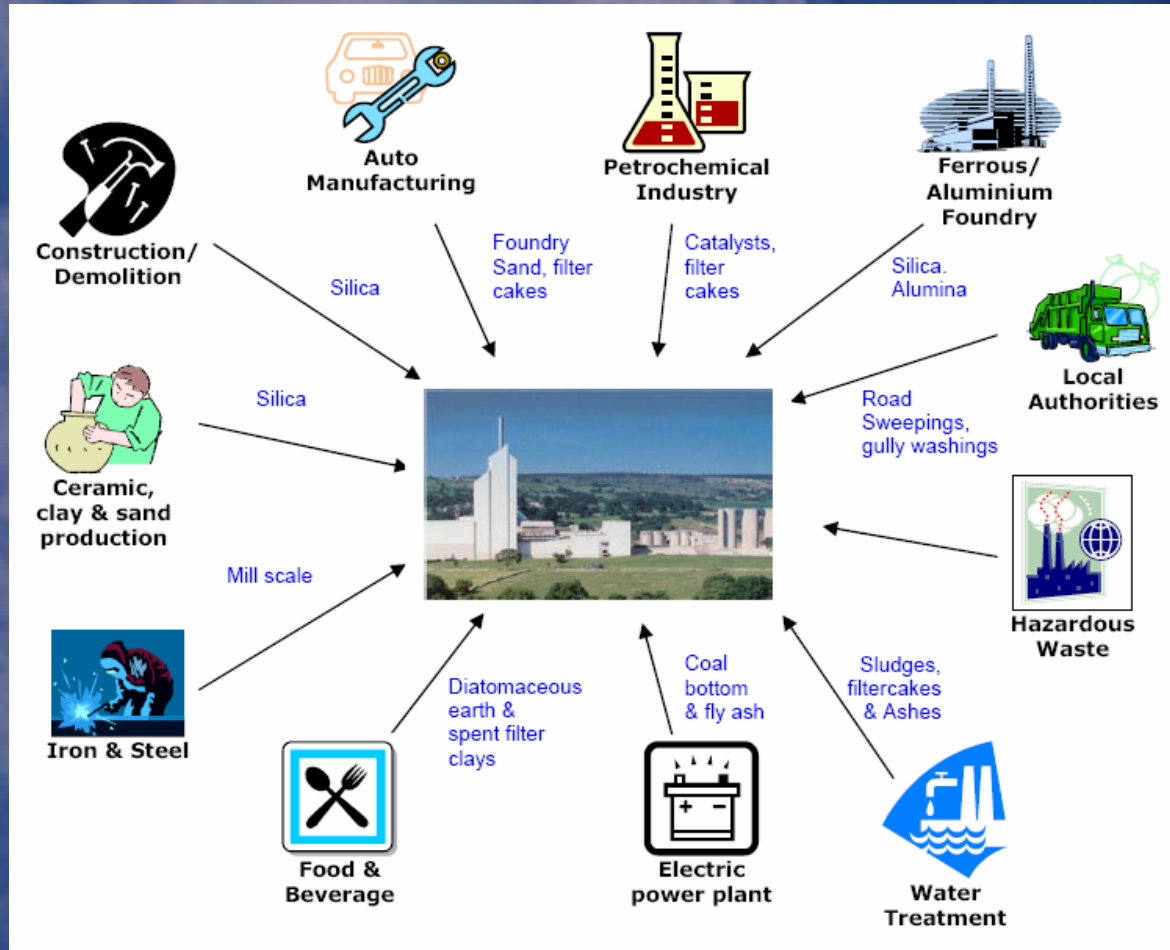
- sharing or selling resources to minimise waste, improve resource efficiency and bring mutual benefits to those involved.

# How does NISP work?

- NISP facilitates **links** between industries from **different sectors** e.g. agriculture, construction, transport, renewables, pharmaceuticals, auto-motive, food and chemicals to create **sustainable commercial opportunities** and improve **resource efficiency**.



# ARMs for cement industry



Industrial Symbiosis



Business Opportunity



Landfill ↓

Jobs ↑

New Business ↑

CO<sub>2</sub> ↓

Sales ↑

Costs ↓

Learning ↑

Innovation ↑

Transport ↓

Pollution ↓

Asset Utilisation ↑

# Materials Resource Strategy

- Waste - an **economic** opportunity
- **Manage** materials more efficiently to minimise wastage and maximise reuse
- More collaborative working to develop **solutions** that are efficient, economic and sustainable
- **Procure** goods to **encourage** materials management



# NISP & LGA Resource Management Workshop - November 2005

*'Promoting practical collaboration to create  
resource efficiency strategies'*



- **Economics** of waste are changing
- Resource management strategies are needed that take a **wider view** than 'how do we manage waste'
- **Role of local government** in strategic and spatial planning is critical

- Local authorities are **pivotal** for sustainable communities
- Local government can **drive** the improved use of material resources
- Economic development, planning, procurement and waste management can make a **real change**
- **Sustainable development** - at the heart of the planning system



# *'From Waste to Resource Management'*

-May 2005 Hampshire County Council

[www.hnri.co.uk](http://www.hnri.co.uk)



- Optimise the **logistics** of recycling and composting to achieve robust, sustainable outcomes and markets
- **Infrastructure** to collect, transport and process large volumes of materials and feed them back into production systems - minimum amount to final disposal
- How can the council **optimise** their own materials management?

# NISP is supported by:

- DTI, DEFRA,
- Environment Agency,
- Local Government Association
- Regional Development Agencies
- Business Council for Sustainable Development – UK



# Creating a market for Bio-diesel



# Battery Reprocessing



# Urban waste recycling







# Thank you:

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