**Ministry of Transport, Public Works and** 

Watermanagement

### Road and Hydraulic Engineering Division The Netherlands

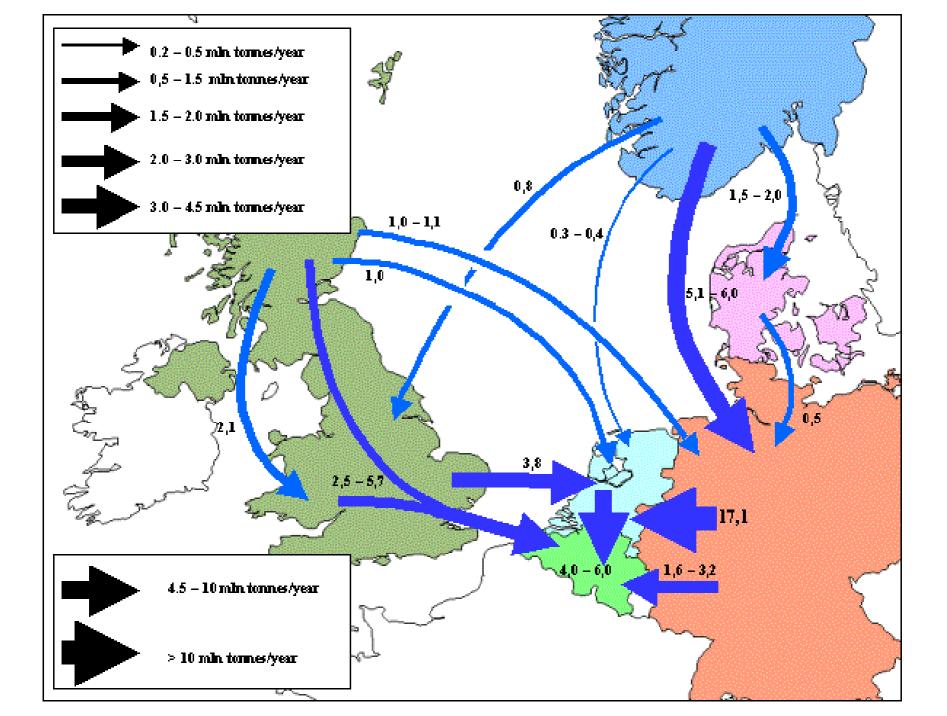
# Why is pavement recycling a preferred pavement rehabilitation approach

Jan van der Zwan, leader subgroup 5, Pavement recycling and rehabilitation-technical recommendations

#### **Reasons to recycle**

- Technical reasons
- Financial reasons
- Environmental reasons





#### **Reasons to recycle**

 In practice the reason to recycle is balanced by technical possibilities, financial aspects and environmental considerations



#### **Reasons to recycle**

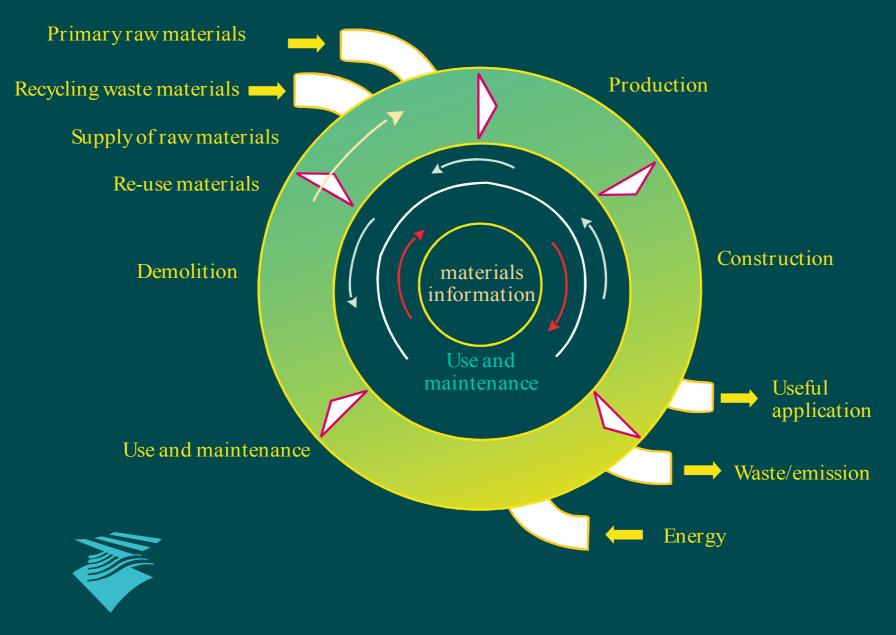
- Recycling is more than technology
- Recycling is economy, politics, market and market acceptance
- Technical issues are more easy to solve than the others



#### Is recycling simple?

- Socrates: the only thing I know is that I don't know anything at all
- Which methods are to be preferred?
- Tight relation between technical and political issues



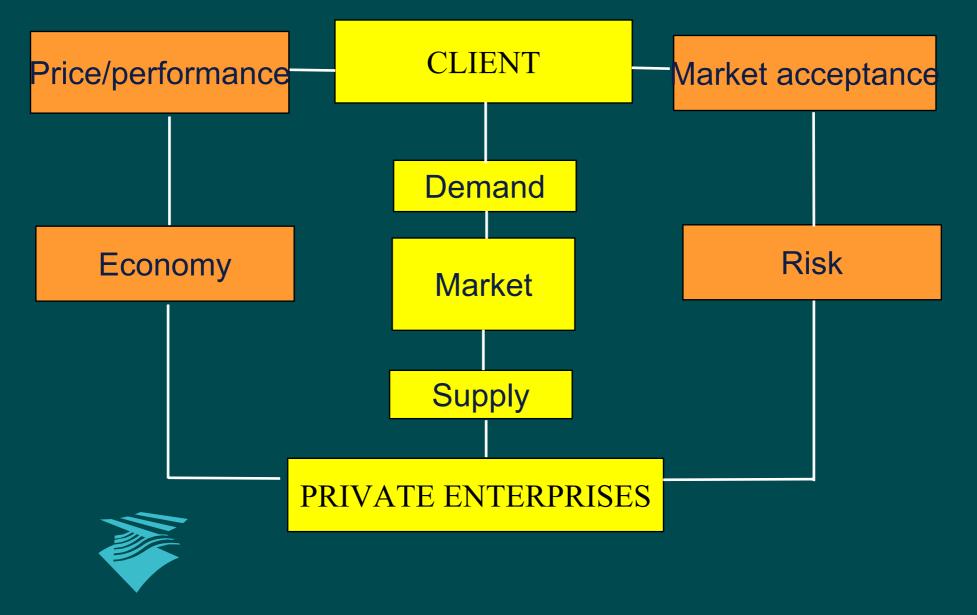


#### Why should you recycle?

• The answer depends on the criteria to be applied

• The driving criterion is money

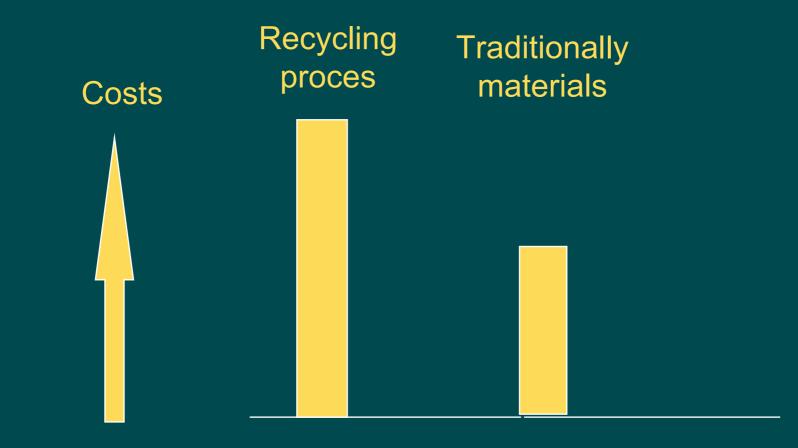




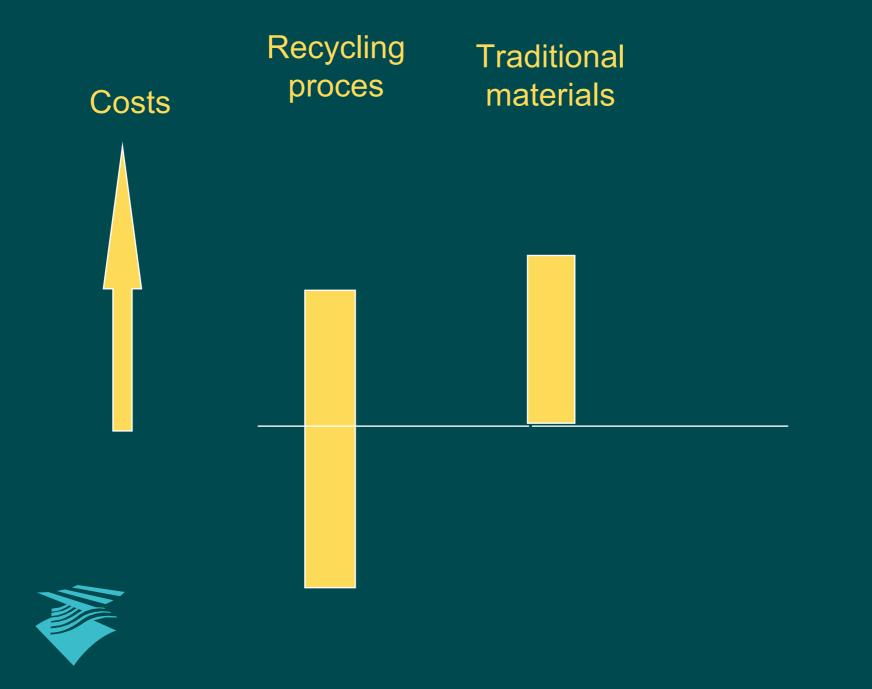
#### **Cost aspects of recycling**

- The mechanical properties of the recycled product
- Recycling market is a substitution market
- Prices of traditional materials determine the price of the recycled product
- However, real costs are the variable and fixed costs of the recycling technique



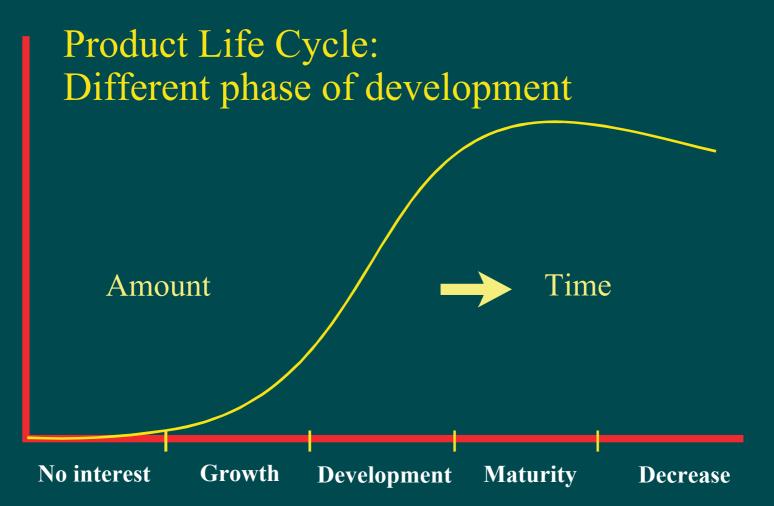














#### **Success factors**

• For the government:

\*An unambiguous policy

\*Straight and clear goals

\*Invest in recycling

\*Make clear in what is and what is not allowed



#### **Success factors**

• For private industry

\*Active sales policy

\*Work together with the government

\*Invest in quality

\*Find special markets



#### Conclusions

- Again, no simple answers
- Financial aspects determine the economic feasibility of recycling
- The government can influence the economy of the recycling process



#### Conclusions

• In my opinion, pavement recycling is to be preferred

• Whether it will be preferred depends on the overall costs



 Go home and investigate the possibilities, technical there are many proven solutions



## It is now up to you

