Ministry of Transport, Public Works and

Watermanagement

Road and Hydraulic Engineering Division The Netherlands

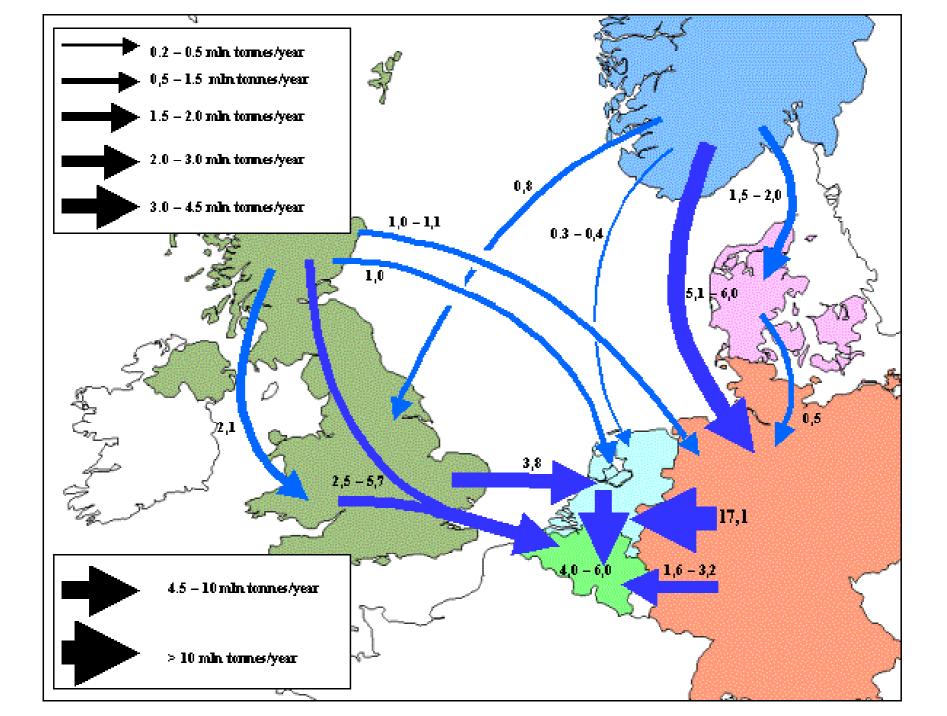
Why is pavement recycling a preferred pavement rehabilitation approach

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

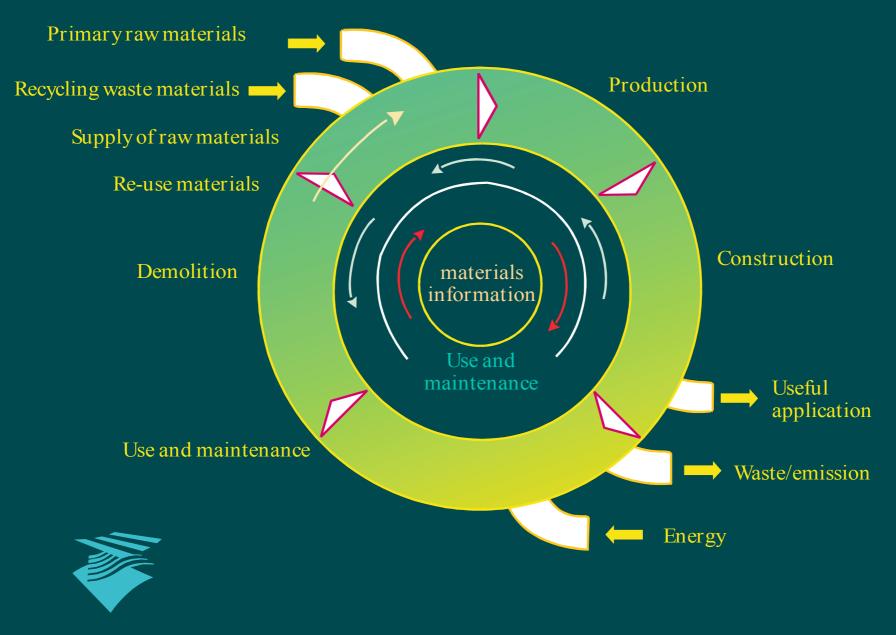
- Recycling is more than technology
- Recycling is economy, politics, market and market acceptance
- Technical issues are more easy to solve than the others



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



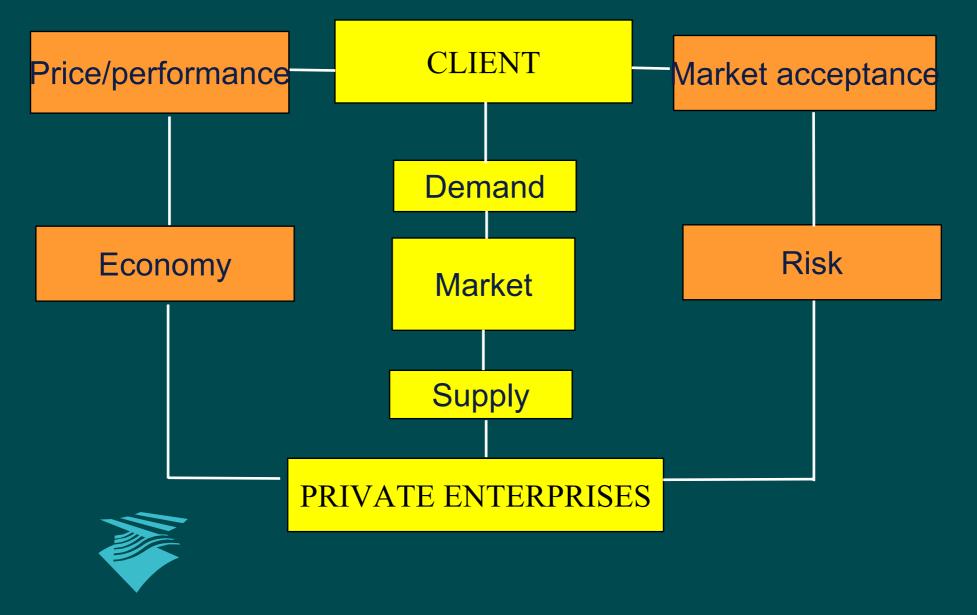


Why should you recycle?

• The answer depends on the criteria to be applied

• The driving criterion is money

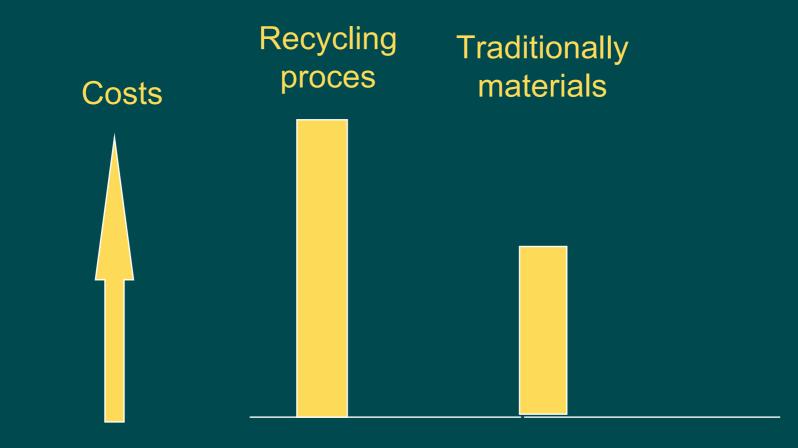




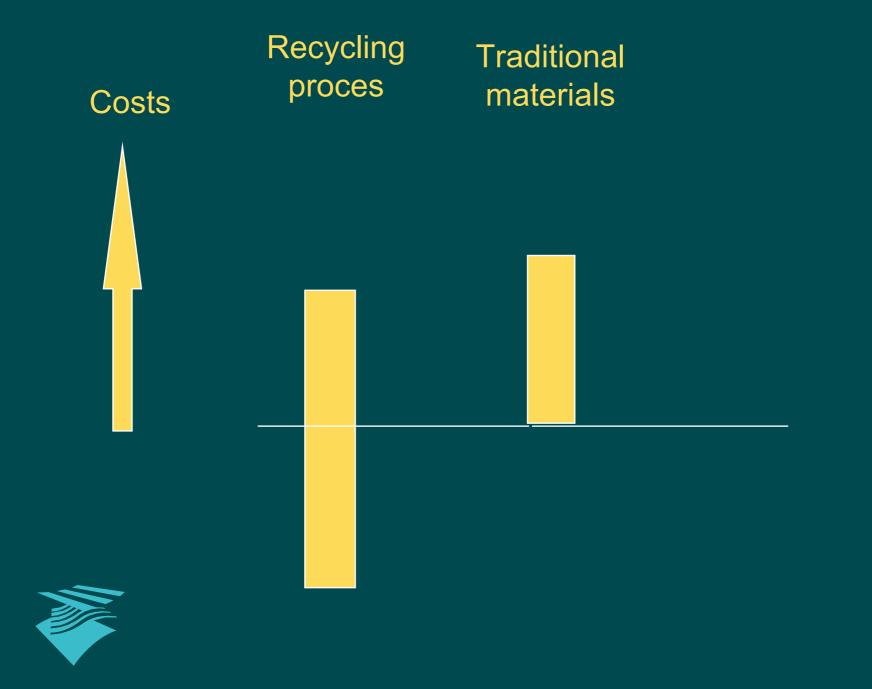
Cost aspects of recycling

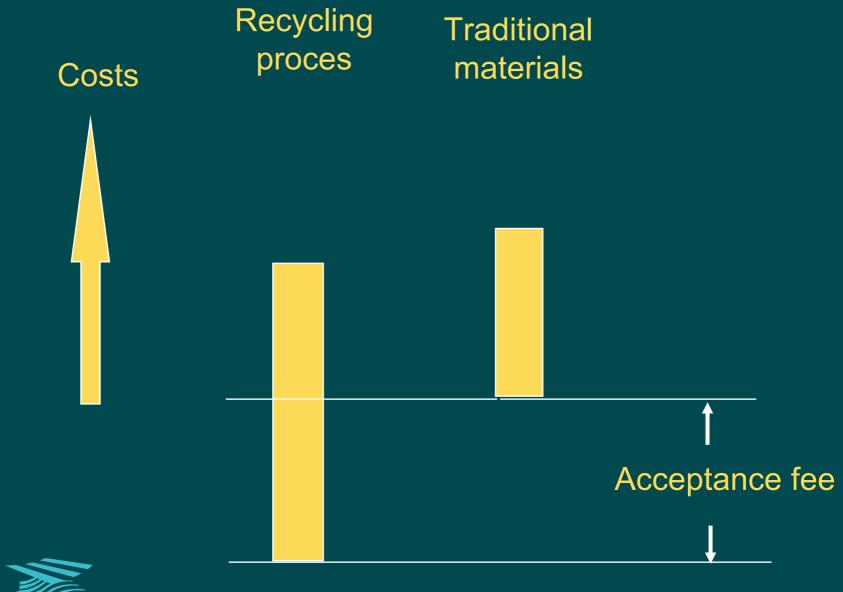
- The mechanical properties of the recycled product
- Recycling market is a substitution market
- Prices of traditional materials determine the price of the recycled product
- However, real costs are the variable and fixed costs of the recycling technique



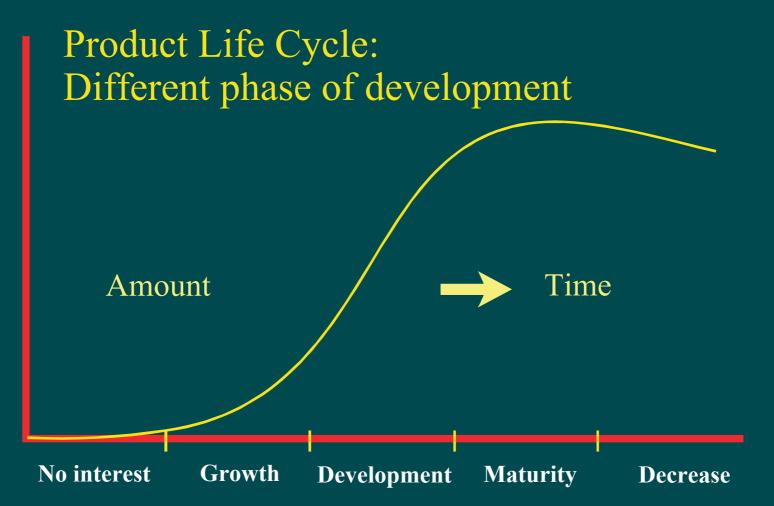














Success factors

• 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

