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
Recycling processes vs. Traditionally materials costs.
Recycling process

Traditional materials

Acceptance fee

Costs
Product Life Cycle: Different phase of development

Amount

No interest  Growth  Development  Maturity  Decrease

Time
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