

*Province of Noord-Brabant*

*N329 Road of the Future*



*Brabant*  
Europe's  
heart of smart  
solutions

# *Noord-Brabant - International*



*N329 Oss:  
'Road of the  
Future'*

# Cooperation

- *Municipal road and provincial road in a single project*
- *Close cooperation between the Municipality of Oss and the Province of Noord-Brabant in the project agency*
- *Motto: ‘Together, we build the Road of the Future!’*



# What is so special?

- *A beautiful road that suits the environment*
- *Sustainability and innovation*
- *Communication*
- *A road that is good to live beside and to drive down!*



6 km long  
2x2 lanes  
Lots of trucks  
2 car tunnels  
3 bicycle tunnels  
Wildlife crossings



# *It all starts with ideas:*

- *Brainstorming sessions*
- *Market consultation*
- *Drawing competition*



*Result: 200 ideas in  
a book*

*Followed by: focus and selection*



# *Tendering:*

- *Design & Construct*
- *Evaluation criteria*
- *Price ceiling*
- *Maintenance to some sections*

*Selection phase:  
8 participants*

*Quote phase:  
5 participants*

*1 contractor*

# *Tendering:*

*Price ceiling:  
€ 45,000,000*

*Elective elements*

*Functional requirements:*

- *Energy neutral road*
- *LED lighting*
- *Intelligent Transport Systems*
- *Maintenance and management*

*Detailed requirements:*

- *Road design (road, tunnels)*
- *Landscaping (trees, verges)*

# *Focus on evaluation criteria*

*Maximum bonus:  
€ 24,000,000*

## *Sustainability:*

- *Energy and CO<sub>2</sub>*
- *Socially responsible enterprise*
- *Contribution to the environment*
- *Design for Re-use*

## *Visible innovation*





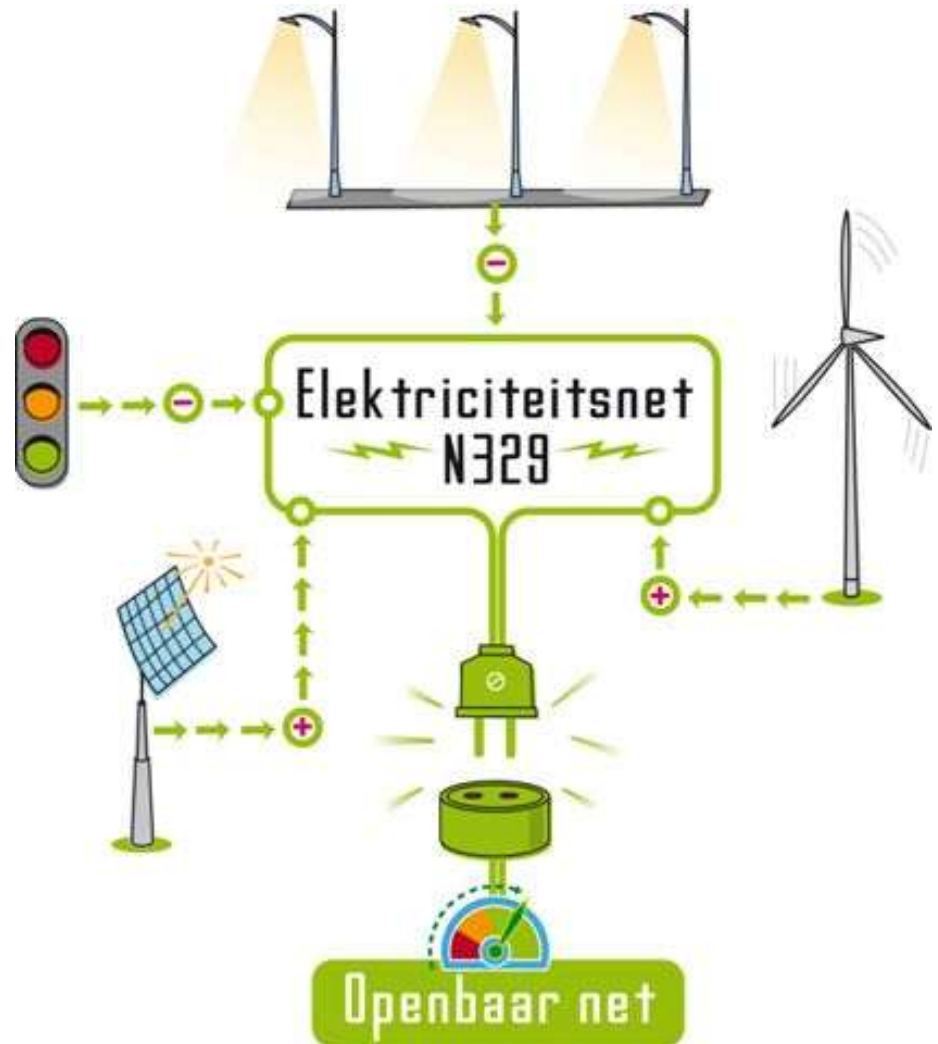
# *Sustainability: energy neutral road*



PV bloem



PV boom



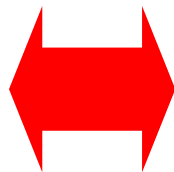
# Sustainability: CO<sub>2</sub>

*offset*

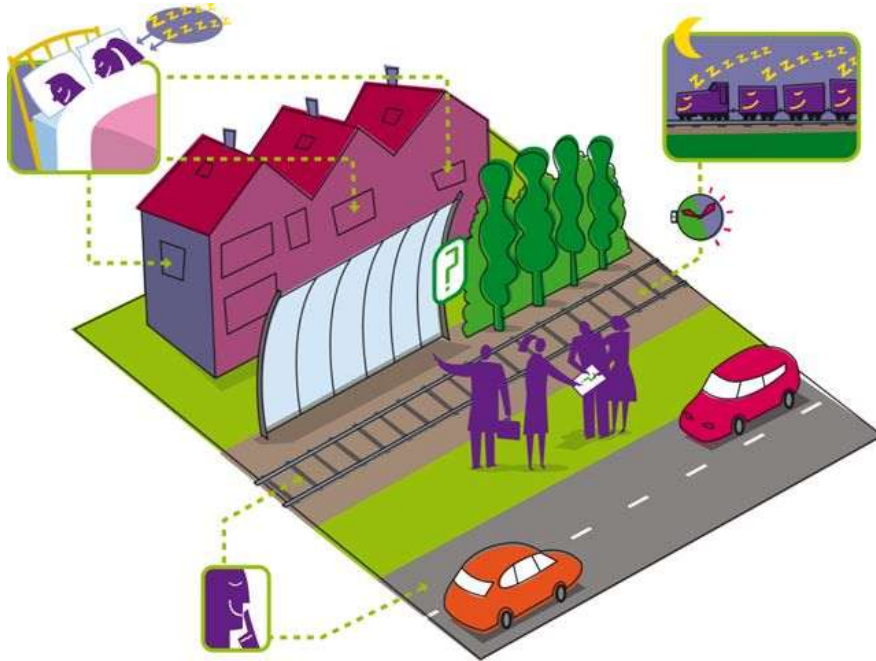
*emissions*



- *'Green' electricity*
- *Energy scans at companies*
- *Energy make-over*



# *Sustainability: limit nuisance*



- *Temporary bicycle bridges*
- *Limit noise and vibrations*
- *The road will not be closed*
- *Multifunctional sound barrier*



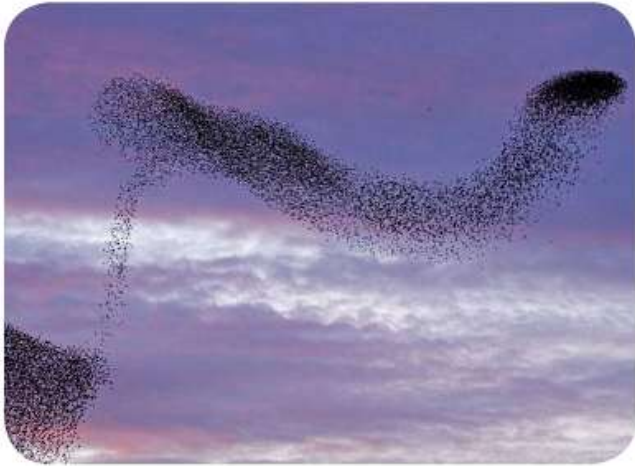
# *Sustainability: material usage*



- *Re-use of materials (e.g. concrete)*
- *Recycling of materials (e.g. aluminium lampposts)*
- *Sustainable materials (e.g. wooden guide rail)*
- *Design for re-use*



# *Visible innovation: Flowman*



- *Odysa LED line*
- *Odysa in-car applications*

# *Current state of affairs:*

- *Tendering was successful*
- *Contractor has started*
- *Road to be completed by mid-2013*



Provincie Noord-Brabant



*Thank you for your attention and for being allowed to present this project from Brabant to you!*

*Stay up to date:  
[www.n329wegvandetoekomst.nl](http://www.n329wegvandetoekomst.nl)*

