



# Introduction on Solar Highways

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# Financing

- Subsidy is necessary to cover extra costs
- Life + program: Subsidy on development and construction
- Cooperation, innovation and objectives are essential for a successful application





# Cooperation

- Life+ program EU
- Rijkswaterstaat
- ECN part of TNO
- SEAC
- Municipality of Uden
- Heijmans (contractor)
- Scheuten, Libra van Campen and Bayards (subcontractors)



# Objectives

To demonstrate:

- *technical feasibility,*
- *environmental, social and financial benefits*

of using *multifunctional constructive modules* for building highway noise barriers, in which *bifacial PV solution* has been integrated

To accelerate the use of PV and noise barriers along Europe's highways, greatly contributing to achieve the EU objectives concerning climate change, noise and air.





# Grant Agreement

- Preparatory actions
- Implementation actions
- Monitoring actions
- Communication and dissemination actions
- Project management including:
  - Partner meetings
  - Networking
  - After Life communication plan
  - Audit
  - Reporting



# Time line

- 2011: The seed has been laid
- 2012: First application for Life+ contribution
- 2014: Grant Agreement; start search for a new location
- 2015: Solar Highways will be realized near Uden
- 2016: Final decision RWS; Solar Highways can be build!
- 2017: Most Economical Advantageous Tender (MEAT):
  - Price
  - Quality: Optimization of system and maintenance=> Construction costs: € 3,0 million
- 2018: Construction
- 2019: Operational





# Benefits

- Reduction of noise
- Improvement of air quality
- Reduction of CO2 emission
- Multifunctional spatial use
- Involvement of residents