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
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