

STA Certified Programme in Sustainable Roads

The sign of the times demands that the roads of tomorrow improve their performance in terms of **efficiency and energy saving**. The road infrastructure sector has devoted important efforts to improving road construction materials, as well as to enhancing construction techniques and quality control systems.

It is therefore a priority to deploy **solutions involving recycled pavements, by-products and other waste materials**, lower-temperature manufacturing and emission reduction in road works. Traditional pavement binders (bitumen, bitumen emulsions and concrete) are produced using important quantities of energy and fuel that emit CO₂ and cause an environmental impact: innovative binders are available to reduce this impact.

Up to 50 participants	Duration: 3 days (24 hours)
Target groups <ul style="list-style-type: none">▪ Transport Ministries▪ Road Directorates▪ Road research laboratories▪ Engineering consultancies▪ Road equipment manufacturers▪ Contractors / concession operators▪ Students (departments of civil & mechanical engineering)	Areas of knowledge <ul style="list-style-type: none">▪ Procedures and checklists for road environmental auditing▪ Optimization of route planning via environmental impact assessment▪ Mitigation of habitat fragmentation▪ Soft alignment and energy consumption▪ Quieter roads and noise reduction devices▪ Use of recycled and environmentally friendly construction material▪ Best practices for road equipment▪ Best practices for sustainable road maintenance and preservation
Outcomes <ul style="list-style-type: none">▪ Understand the new materials and construction techniques used for a safer, more efficient and more sustainable road construction & maintenance.▪ Decide which kind of sustainability solution is the most appropriate for a given situation.▪ Build and implement comprehensive sustainable roads strategies.	