



InnoMatch

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Provincia di Siena

Matchmaking Provincia di Siena, Italy



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Italy



Non-profit foundation in the municipal public sector

- The Province is an intermediate local authority between municipalities and the region, endowed with autonomy and with both its own and delegated functions. It represents the local community, promotes its development, and, together with municipalities, contributes to the definition and implementation of the objectives set out in State and Regional plans and programmes.
- **The Public Works Design and Expropriations Service**, coordinated by Director Massimo Betti, oversees and coordinates the main road infrastructure interventions, including upgrading, rehabilitation and the construction of new infrastructure.

Current problem

- **Context:** The road network of the Province of Siena has geological and structural characteristics that require specific and innovative maintenance and repair approaches. The existing road structures, largely dating back to the 1970s, were designed using standards and materials that do not adequately address these conditions, resulting in differential settlements and significant pavement cracking and deterioration.
- **Unmet need:** Traditional maintenance interventions, such as simple milling and patching with new asphalt, are often ineffective on weak subgrades and fail to address the root causes of deterioration, leading to the rapid recurrence of damage and high ongoing costs.



Reconstruction of roads using sustainable and durable materials that act not only on the surface but also on the reinforcement or stabilisation of the localised subgrade.

- Long-term effectiveness, addressing not only the pavement surface but also the reinforcement or stabilisation of localised subgrades;
- Use of innovative techniques and materials (e.g. geosynthetics, alternative binders, eco-friendly or cold-mix asphalts) to ensure durability and sustainability;
- Rapid, targeted and less invasive interventions, as an alternative to full road reconstruction;



Reconstruction of roads using sustainable and durable materials that act not only on the surface but also on the reinforcement or stabilisation of the localised subgrade.

Expected impact and outcomes:

- Facilitate matching with an EIC Awardee offering suitable solutions
- Support the authority in defining a pilot testing plan on a specific road section within the Province of Siena
- Assess the potential procurement of innovative solutions proven to be effective at the end of the pilot phase

Benefits

For the Provincia di Siena:

- Achieving more durable, safer and sustainable road infrastructure, with reduced long-term maintenance costs and disruption, by adopting innovative solutions specifically designed to address pavement deterioration caused by weak silty-clayey subgrades.

For EIC Awardee:

- Opportunity to implement and validate an innovative and sustainable solution at scale, benefiting a large number of citizens and demonstrating its effectiveness in a real public infrastructure context.

Collaborate with us to develop this Innovative solution!



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Thank you



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