## Potential risk from the use of mine-contaminated sediments for road and rail embankments: preliminary data from Central Italy

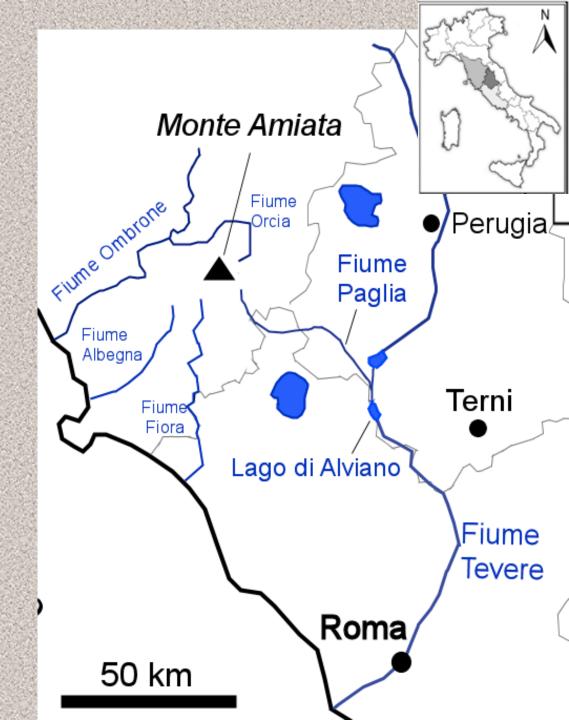
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Contamination of stream sediments in the Paglia and Tiber river catchments (Central Italy) by runoff from the abandoned Hg mine district of M. Amiata



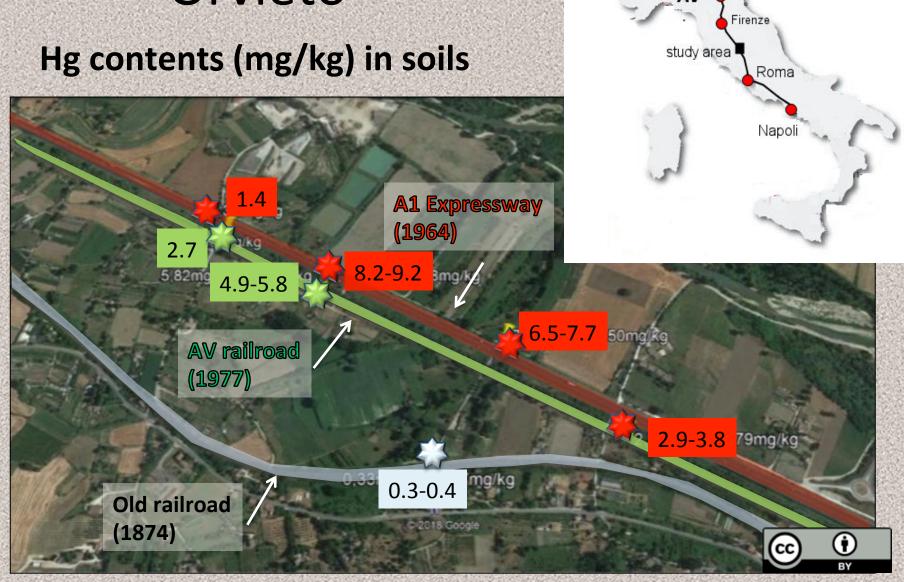


 Fluvial sediments quarried for decades along river courses to obtain sand and gravel for several industrial uses, including construction of road and rail embankments

 Was some of this potentially contaminated material used for two major Italian transport routes, the A1 Expressway, and the AV railroad?



## Preliminary survey near Orvieto



Milano

Bologna

- A1 and AV embankments constructed when mines were in operation
- Nearby soil samples: Hg contents >1 mg/ kg (Italian limit for Hg in soils)
- Samples close to the old railroad embankment: contents below the regulatory limit
- Opportunity of a more systematic study

