

BIOMASS LOGISTICS

Innovations and Benefits - ENEA develops innovative systems for the biomass availability assessment, logistic, supply chain for biorefineries integrated in the territory.

Use - Accurate estimation of the availability of sustainable biomass and definition of the biomass supply basin. Optimization of location and size of new biomass plants. Optimization of biomass management (collecting, storage and transport to the plant).

Applications and ongoing Activities - Development of innovative analysis systems and decision support tools for a sustainable biomass supply chain management. Joint application of satellite remote sensing, Geographic Information System (GIS) and advanced IT tools.

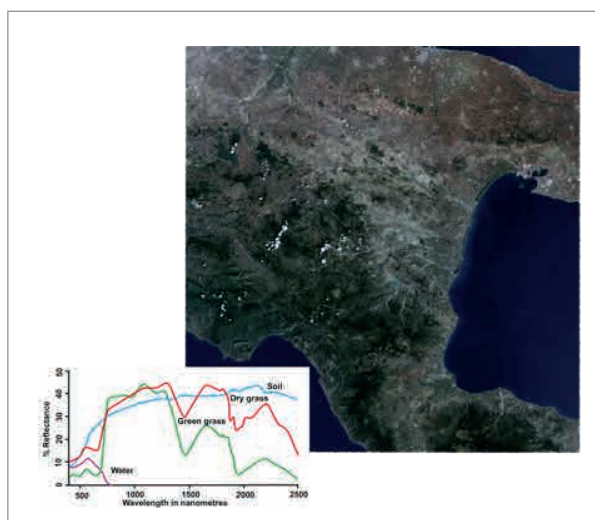


Figure 1 - Landsat image and spectral signatures

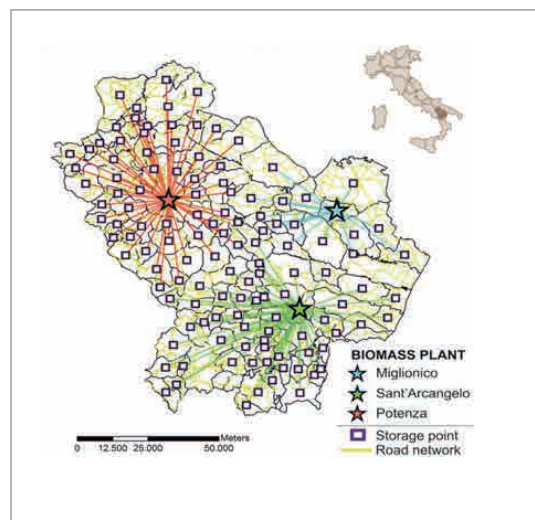


Figure 2 - Biomass supply basins and optimal location for new biomass plants

Characteristics:

CUSTOM: the service can be adapted to different needs, although the quality and reliability of the results depends crucially on the quality and quantity of the data available.