

## Case study: Environmental services company *Sustainable waste transport*

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### About waste transport: type of shipments and transport volumes

Waste products, such as like amiantiferous/asbestos sands for example, are shipped from North Western Italy to Germany/Poland/Sweden in boxes grouped in big bags. At present, shipments to most destinations are managed as Full Truck Loads.

A single waste producer could transport 2,000 full trucks per year, about 8 every day.

### Transit time requirements

The transit times usually required for export waste transport from Italy to Germany and other countries are not strict. Most of the times, these are goods that are dangerous to human health, so there must be special precautions, but timing doesn't seem to be a problem, the important thing is that transport is regular.

### Access by road and rail

The material transported abroad originates on construction sites (for new railway lines, for example). From construction sites, today, the material is transported to storage and consolidation centers and from there it is transported by road to its final destination. Destinations are, for example, former salt mines in Germany.

The construction sites, origins of the flows, are in various parts of northern Italy. The proximity of a railway terminal cannot be determined. On the other hand, the position of the collection and consolidation centers can be determined, but currently they are not next to intermodal centres.

The idea is to build a collection and consolidation centre inside of the freight village close to Novara. In this way the material destined abroad can be loaded directly onto the train carriages without further transport by road from the collection centre to a terminal.

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### Bottlenecks

The difficulties of setting up a collection and consolidation centre for inorganic waste at a freight terminal/village and the following loading onto the wagons towards the destination countries are as follows:

- Combining the flows of multiple waste management companies to create enough critical mass to justify full trains
- Create a special purpose company involving a railway operator to manage waste within a freight village/terminal