



Project Interreg III A Italy-Switzerland

## RURECOTEC

**“Treatment of cheese factory waste water with technologies economically sustainable to safeguard rural areas”**



Etat du Valais



Union Européenne- FEDER



Stato Italiano



Politecnico di Torino



- ✓ Rurecotec is an Interreg III A Italy-Switzerland project which aim is to study and to compare different innovative solutions for the treatment of cheese factory waste water
- ✓ 2 partners:
  - Assessorato agricoltura e risorse naturali, Regione autonoma Valle d'Aosta
  - University of Applied Sciences Western Switzerland
- ✓ Studied areas:
  - Aosta Valley: Morgex and Verrayes (Champagne)
  - Valais: Val de Joux and Val de Bagnes
- ✓ Studied installation :
  - Morgex: construction of a new phytoremediation plant
  - Champagne: monitoring of the existing phytoremediation plant
  - Val de Joux: analysis of the existing composting process
  - Val de Bagnes: analysis of the existing biological depurator
- ✓ The objective is to follow and to integrate the previews studies about experimentation on new sustainable techniques for the treatment of cheese factory waste water, in particular :
  - 1) Analysis of European, Switzerland, Italian, Aosta Valley and Valais laws about waste water treatment, production management and quality standards
  - 2) Analysis of data concerning the differents plants in order to individuate the best technology
  - 3) Economic analysis of data in order to value the various techniques in terms of costs and cost-benefit
  - 4) Dissemination of the results
- ✓ **SOME GENERAL IMPORTANT DATA**
  - Contest: cheese factory represents an important part of the Aosta Valley agriculture economy because of the production of the Aosta Valley PDO cheese Fontina
  - Waste water treated is just the water used to clean up the production rooms and equipments, NO whey
  - We consider about 2 litres of water each litre of milk treated
  - Champagne treats about 1.764.851 litre/year (12 mounths/year)
  - Morgex treats about 1.323.783 litre/year (6 mounths/year)
  - Treatment of waste water no respecting law limits for drainage systems costs 0,20 €/litre (because of the transport by road using tank trucks)
  - Treatment of waste water respecting limits for drainage systems costs 0,015 €/litre
  - Treatment of waste water respecting limits for rivers costs 0 €/litres