

DIEGO NAVARRO MARTÍNEZ
CURTIDOS BADIA, S.A.











THE ORGANIZATION: CURTIDOS BADIA, S.A.



History

- Was founded in 1889 as a medium family enterprise.
- Specialized in the tanning of premium quality bovine hides and skins for leather goods fashion industries.
- 90% of exports go to European countries.
- The company is located in the town of Igualada,
 a city with a great tradition in tanning.









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The organization philosophy

- Boost the local wealth: The company uses
 Spanish raw materials.
- Costumer priority: Its philosophy is based on customer care and quality.
- Exclusiveness: Many leather hides are made to measure for specific color, quality and design.









THE ORGANIZATION: **CURTIDOS BADIA, S.A.**



Innovative nature

Always studying and analyzing opportunities, leather sustainability.

International expansion plan.

new qualities and











THE PROJECT CONTENT



- The project is focused on the development of an innovative method of liming and tanning with hair recovery.
- The method is based on the use of H₂O₂ and enzymes for the oxidative step.
- The project involves the application of new control and process technologies to minimize the emissions that occur in this process step.









LEATHER MANUFACTURING



Direct slaughter -house hides

BEAMHOUSE

- Soaking
- Unhairing and Liming
- Fleshing
- Splitting

TANYARD

- Deliming
- Bating
- Pickling (Pickled Hide)
- Tanning
- Moisture reduction
- Splitting and shaving
 (Wet blue: chromium tanning)
 (Wet white: organic tanning)

POST-TANNING

- Neutralization and bleshing
- Retanning
- Dyeing and fatliquoring
- Drying (Crust Leather)

FINISHING OPERATIONS

- Mechanical treatments
- Coating

Leather

Scheme of multistep leather processing steps and denomination (in brackets) of leather at different stage of processing











1st objective: Implement a more sustainable process.

- Satisfy the increasing environmental awareness of citizens.
- Respect the environmental European regulations.
- Increase healthier and secure working conditions for employees.
- Eliminate the current use of sulfide in the production process.
- Couple and up-scale of existing environmental friendly leather processes.











2nd objective: **Gain environmental sustainability over other countries.**

- Demonstrate the sustainability of cutting edge technologies is necessary prior to market penetration.
- Add value to the process.











3rd objective: **Boost the tanning industry in the town of Igualada**.

- Keep and even increase the number of employees.
- Establish the city of Igualada as a global benchmark of tanning, Igualada European Capital of quality leather.











4th objective: **Achieve sustainable items**.

- Improve the environmental footprint by minimizing solid and liquid waste, reclamation and reuse.
- Decrease of pollutants in wastewater (sulphides, chemical oxygen demand (COD), biochemical oxygen demand (BOD), nitrogen and chrome).
- Optimize the exhaustion of reagents.
- Increase the performance of the bovine, which has a diminishing trend.







