



**RUBTEC**

**Manufacturing of railway  
logs for mining industry**

**RUBTEC**

**Σ smart**  
advanced manufacturing

## ORGANISATION PROFILE

Insert brief description of the leading organisation: Name, Personnel, Size, Products/Services/Technical areas and R&D project expertise.



- Founded in 2015
- Located in Concepción, Chile
  
- We are the only manufacturer in Chile of value added recycled rubber products from end of life tyres
  
- We work closely with the main Research & Development Centers of our Country

# PROPOSAL INTRODUCTION (I)

**Vision:** main project goal

Develop railway log for mining operations using material from end of life tyres and other recycled raw materials. This will allow to obtain a better product in performance for specific climate conditions, also will avoid the utilization of railways manufactured with wood from native forest.

**Motivation:** why the project is necessary

Mining industry is in the mission of being environmentally friendly and sustainable. In that quest they are looking for products manufactured with recycled material from their own waste. In this case from end of life tyres. Also in Chile with the implementation of an Extended Producer Responsibility system for the End of Life Tyres there is a search of use for this material in different applications in order to accomplish the goal of recollection and valorization of priority waste product. This goal in terms of tonnage increase year after year until 90% of valorization. So there is an incentive in looking for new applications. Mining as is a big user of End of Life Tyres also share this responsibility. In RUBTEC we specialize in manufacturing recycled rubber products, and we are looking for overseas partners that help us to manufacture the railway log, developing new technology and technical testing.

**Content:** which are the developments to be made in the project

High tech development and technical testing.

## PROPOSAL INTRODUCTION (II)

**Expected outcome:** descriptions of the results to be obtained in the project

We need to solve the technology to be used to manufacture correctly the railways in order to obtain the mechanical and technical properties requested by the mining customer. Also we need to test this material in lab before going to industrial production.

**Impacts:** what will be the expected market impact of the project

Only 1 mining in Chile that is Codelco has more than 3.000 km of active railway lines. This is 6.000.000 railway logs in their operations. If only they adopt 10% of this with the railway we want to manufacture, then is a sale of USD 66.000.000, only for 1 mining. The mining industry in Chile and Latin America is huge, so the impact of this project. At the same time the environmental benefit will be clear, avoiding more than 1.000 ton/year of end of life tyres to be disposed to landfill or pyrolysis. Also will avoid the harvesting of native forest from the south of Chile to manufacture new railway logs with the traditional manufacturing process.

**Schedule:** start and end dates for the project. Duration. 24 months.

## PARTNERS

**Current Consortium:** list of partners already involved in the project

RUBTEC

Looking for interested partners.

**Partner search:** type of partner searched and countries of origin (if necessary).

Looking for partners interested in this kind of project with strong commitment with the environment but also with the experience in developing new products and application using recycling material. Also has to have knowledge in different technologies and technical test. Mixing, pelletizing, extrusion and moulding technologies experience.

## CONTACT INFO

**Contact info:** of the person coordinating the project proposal

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