



EPSI National Webinar

Italy

Ing. Massimo Rinaldi – Warrant Hub S.p.A.

LIFE RESKIBOOT

Online Event - 24 September 2020

THE PROJECT RESKIBOOT

TAKE-BACK & RE-USE SYSTEM FROM SKI BOOT RENTALS FOR SORTING AND RECYCLING OF MULTI-PLASTICS COMPONENTS

Total budget amount: **2,819,037 €**

Funding rate 55%

PROJECT LOCATION: Bulgaria, Italy, Belgium

DURATION: Start: 01/09/20 - End: 29/02/24

Coordinating Beneficiary: GRIFONE S.R.L.

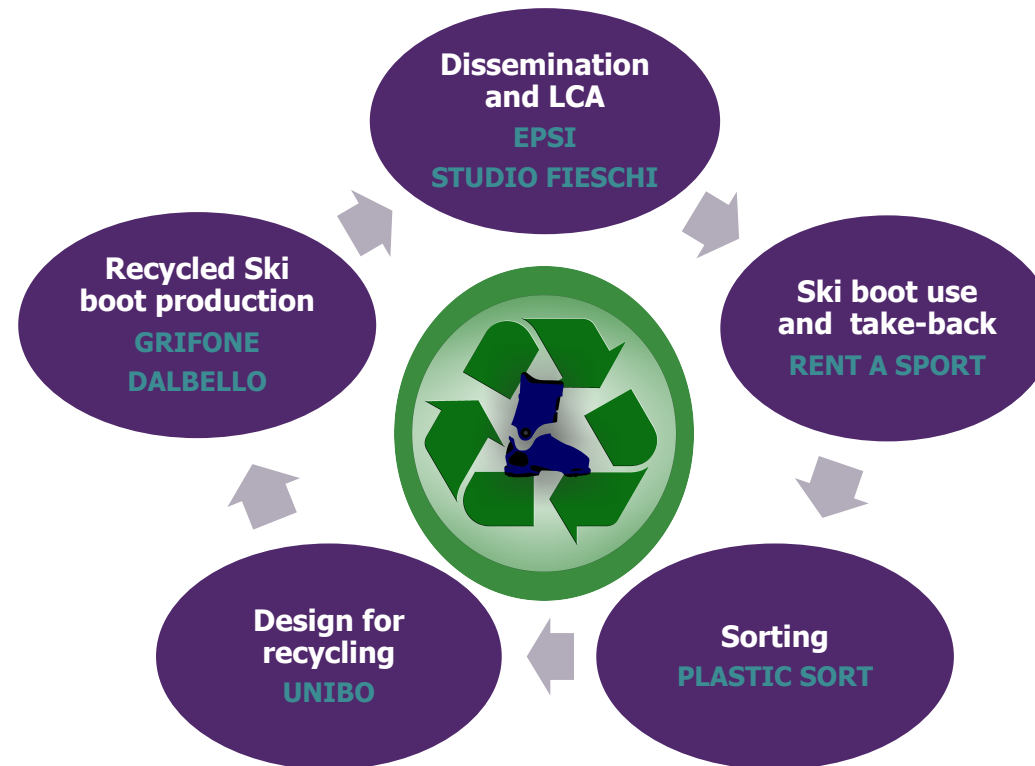
Associated Beneficiary(ies): Dalbello s.r.l.; European Platform for Sport Innovation; Plastic Sort Srl; Rent a Sport Italia S.r.l.; Studio Fieschi & soci Srl; Università di Bologna

With the contribution of the LIFE financial instrument of the European Community



PROJECT'S HIGHLIGHTS

LIFE RESKIBOOT Defines a **circular economy business model** to launch on the market a ski boot made with **soft and hard recycled multi-plastics** obtained from post-consumer ski boots turned into secondary raw materials after a sorting method based on electromagnetic effect.



PROJECT'S HIGHLIGHTS

Take back of post-consumer ski boots



Grinding and separation process



Prototipe from recycled hard plastics



RESKIBOOT implements at industrial level **prototypes already obtained** from recycled plastics

PROJECT'S CRITICAL POINT

Implementation of the **liner production process using recycled materials**. The liner is composed of **foamed material sandwiches** and this is the first project at Worldwide level that targets the production of liners with recycled materials.



Prototype from soft plastics



OBJECTIVES & SCOPE

- ✓ Launch on the market of ski boots made with about **90% of recycled raw materials**
- ✓ Implement a **sorting method**, based on electromagnetic effect, able to achieve a **95% separation efficiency**
- ✓ **Eliminate processing offcuts**
- ✓ Manufacture and **test ski-boots on real slopes**
- ✓ **Define new take-back and re-use services** for ski boots rentals
- ✓ Realize a **certified environmental product declaration** of the new ski boot
- ✓ Commercialize high-quality and cost-competitive ski boots made with recycled materials



PROJECT'S HIGHLIGHTS

At the end of the project:

- **1.000 ski boot pairs will be manufactured** and tested by skiers to demonstrate comfort and technical performances
- 2,24 kg of TPU, 0,7 kg of EVA and 0,5 kg of PO virgin raw materials will be saved for each pair of ski boot and replaced by secondary raw materials

LIFE RESKIBOOT covers the **lack of a recycling system for 3,5 million pairs of ski boots produced yearly worldwide.**

This means:

- 9,4 million kg of virgin raw materials used for new ski boot production
- 9 million kg of post-consumer ski boots sent to disposal
- 33.800 tons of greenhouse gas emissions released in producing virgin materials

REPLICABILITY & TRASFERABILITY

Replicability in the whole **ski-boot costumer line market** with 3,5 million pairs sold every year

Transferability of the **multi-plastic sorting principles** to different sectors such as **motorcycle protection systems, helmets, skate, sport shoes.**







EFD

European Funding Development

L'**obiettivo** della EFD è lo sviluppo di servizi di consulenza finalizzati alla progettazione europea per la partecipazione e la gestione di progetti di ricerca e di innovazione finanziati nel programma quadro Horizon Europe 2021-2027.

Dove?



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Grazie!

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