ICAR 2016
Downhill Bikepark GPS location
1. INTRODUCTION

2. GEOLOCATED TAGS SYSTEM

3. RESCUE PROCESS

4. « LES 2 ALPES » RESORT DEVELOPMENT AND GENDLOC

5. PERSPECTIVES
INCREASING DOWNHILL MTB IN FRANCE

- More users
- More tracks
- More accidents and rescue missions
- New and faster location system
In 2014, Fabien ECARNOT, a “Serre Chevalier” bike patroller, created a geolocated system which consists in prepositioned tags along MTB tracks.
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Serre Chevalier Tracks cartography

IGN 1:25 000
Preposioned Tags = easy location
From 80 to 150 meters between 2 tags

Visible everywhere on the track
1. Introduction
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5. Perspectives
Each tag has a specific geolocation (Global Positioning System)

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Altitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>N44.93692 E6.56182</td>
<td>1525 m</td>
</tr>
<tr>
<td>T2</td>
<td>N44.93660 E6.56173</td>
<td>1539 m</td>
</tr>
<tr>
<td>T3</td>
<td>N44.93607 E6.56261</td>
<td>1578 m</td>
</tr>
</tbody>
</table>
Database: All tags are registered in the Rescue Base.
1. Introduction

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UN ACCIDENT?! 

Je donne 
NOM de la piste & 
NUMERO de la balise 

Je fais le 112
ALERT PROCESS

1 – ALERT (112)

2 – EXACT VICTIM POSITION (Tags Name and number)

3 – CONTACT WITH MEDICAL DISPATCHING CENTER AND MOUNTAIN RESCUE BASE

4 – STARTING RESCUE MISSION
DEVELOPMENT

This system has been developed in another resort in 2015: « Les 2 Alpes » mountain resort. In collaboration with rescue organisations: French Police, Gendarmerie and Fire department (112)
SUMMER 2015
Implantation in Les 2 Alpes resort

- Adapted tags position (always visible)
- Cartography and database for all Rescue Centers
- Included in Gendloc database
Gendloc database
Downhill tracks and geolocated tags
**Domaines VTT (demo 38)**

**Recherche piste balise**
par exemple : "diabl" ou "lilith 15" ou vide pour lister les pistes de la vue

<table>
<thead>
<tr>
<th>PISTE</th>
<th>BALISE</th>
</tr>
</thead>
<tbody>
<tr>
<td>lilith</td>
<td>12</td>
</tr>
</tbody>
</table>

**Balises PDIPR (demo 06)**

**Recherche balise**

Activity report and perspectives

- Accidentology analysis = identification of dangerous areas = reshaping tracks = less accidents in 2016

- (76 helicopter rescue missions during summer 2015 in ISERE). Most of them in « Les 2 Alpes » resort

- Improving rescue missions’ flow due to faster casualties location.

Faster choice between Air / Terrestrial rescue missions
PERSPECTIVES

- Spreading concept to other Mountain Bike ski resorts

- Implementing concept for other activities: choosen dangerous areas for hiking trails?

- Exemple: Hiking trails tags in Alpes Maritimes department (developed by local authorities)
THANKS
un acteur de terrain incontournable :
le patrouilleur
INTERETS :

- Éviter un sur-accident
- Transmettre un premier bilan
- Effectuer les gestes de premiers secours
- Rendre les secours plus rapides, plus efficaces et moins coûteux