



# Germanwings A320 crash

## KILLARNEY 2015



Germanwings A320 crash  
Seyne les Alpes – Haute-Provence  
FRANCE

# Agenda

## **INTRODUCTION movie (5min)**

### **Alert, first operational response (10 min)**

Doctor Frédéric PETITJEAN (Fire-fighter - SDIS 04)

Captain Jean-Paul MARZI (Gendarmerie – Helicopter section of Digne)

### **Judicial operation movie (6 min)**

### **3D Coordination (12 min)**

Colonel Laurent LE GOFF (Gendarmerie – Helicopter force HQ)

### **Terrestrial operation (20 min)**

Coordination : lieutenant-colonel Jean-Joël LORIETTE (Gendarmerie - PGHM)

A day with the rescuers : brigadier-chief Marc ALMONTE (Police – CRS)

### **Operational and family support (10 min)**

Doctor Frédéric PETITJEAN (Fire fighter - SDIS 04)

# Germanwings A 320 crash disaster

## MOUNTAIN RESCUE COORDINATION

### FRANCE – Gendarmerie

Lieutenant-colonel Jean-Joël LORIETTE

Technical mountain councillor (CTM)





## La zone de recherche :

2 ha entre  
1800 mètres et  
1400 mètres  
d'altitude



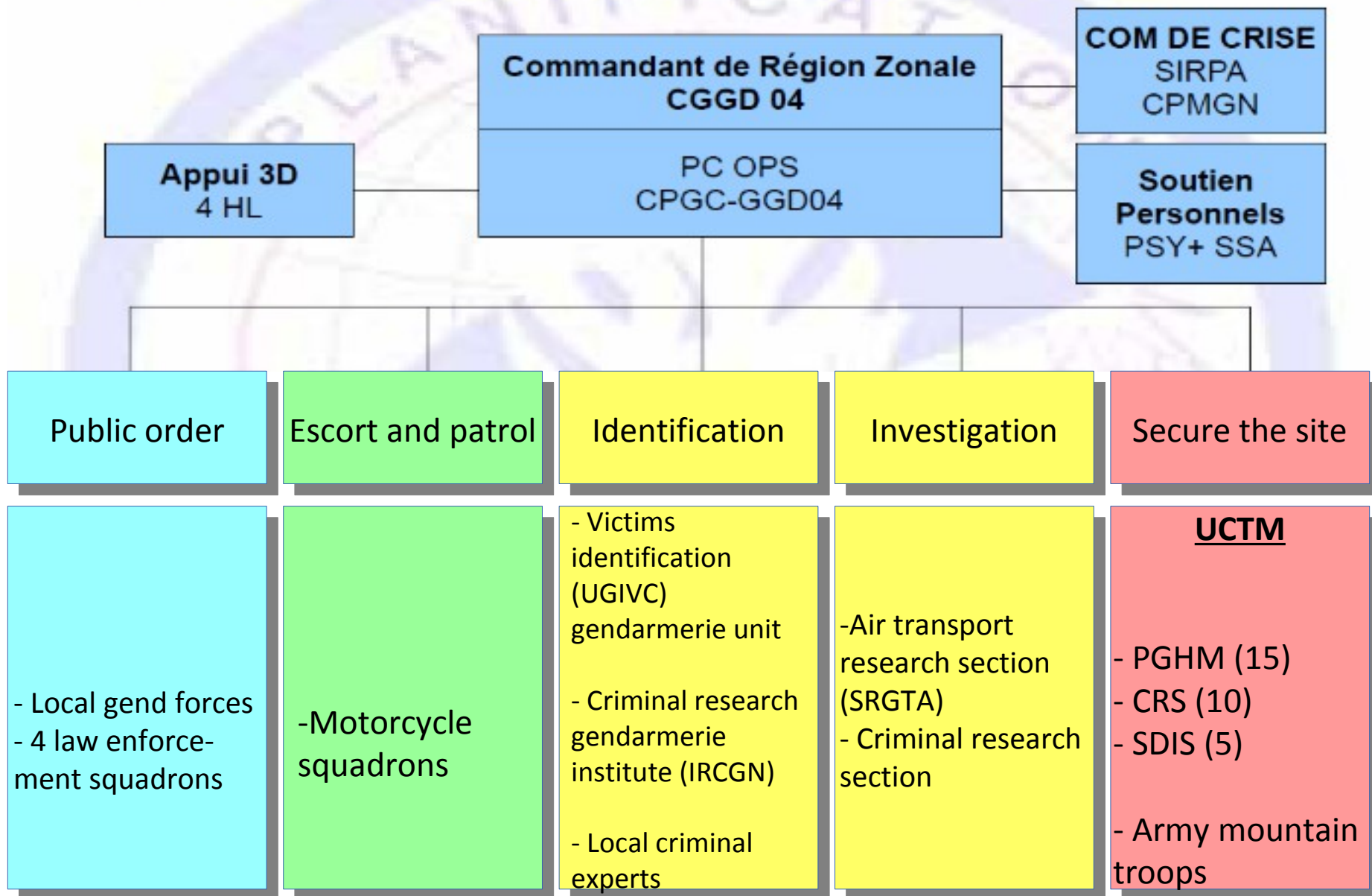
# Gendarmerie missions

- Judicial police
  - **Victim identification**
    - Collecting body pieces
    - Collecting personal belongings
  - **Inquire about circumstances**
  - Securing the site
- Public order
  - Secure official visits
  - Facilitate family visits
  - Protect different HQ





# Articulation Gendarmerie





This mission required to  
coordonate movements and work  
on the crash site :

- to **prevent accident**
- to be efficient

# UCTM organisation



UCTM

Created in august 2014  
to prevent accidents

**GENDARMERIE**  
**Operations director**  
**General PATTIN**

**CTM**  
**LCL LORLETTE**  
**Technical mountain councillor**

UNITE DE COORDINATION TECHNIQUE MONTAGNE

**UCTM**

Mountain rescue coordination unit

**Operational support**

Cne RENARD  
Maj GARY

**Assesment  
and control**

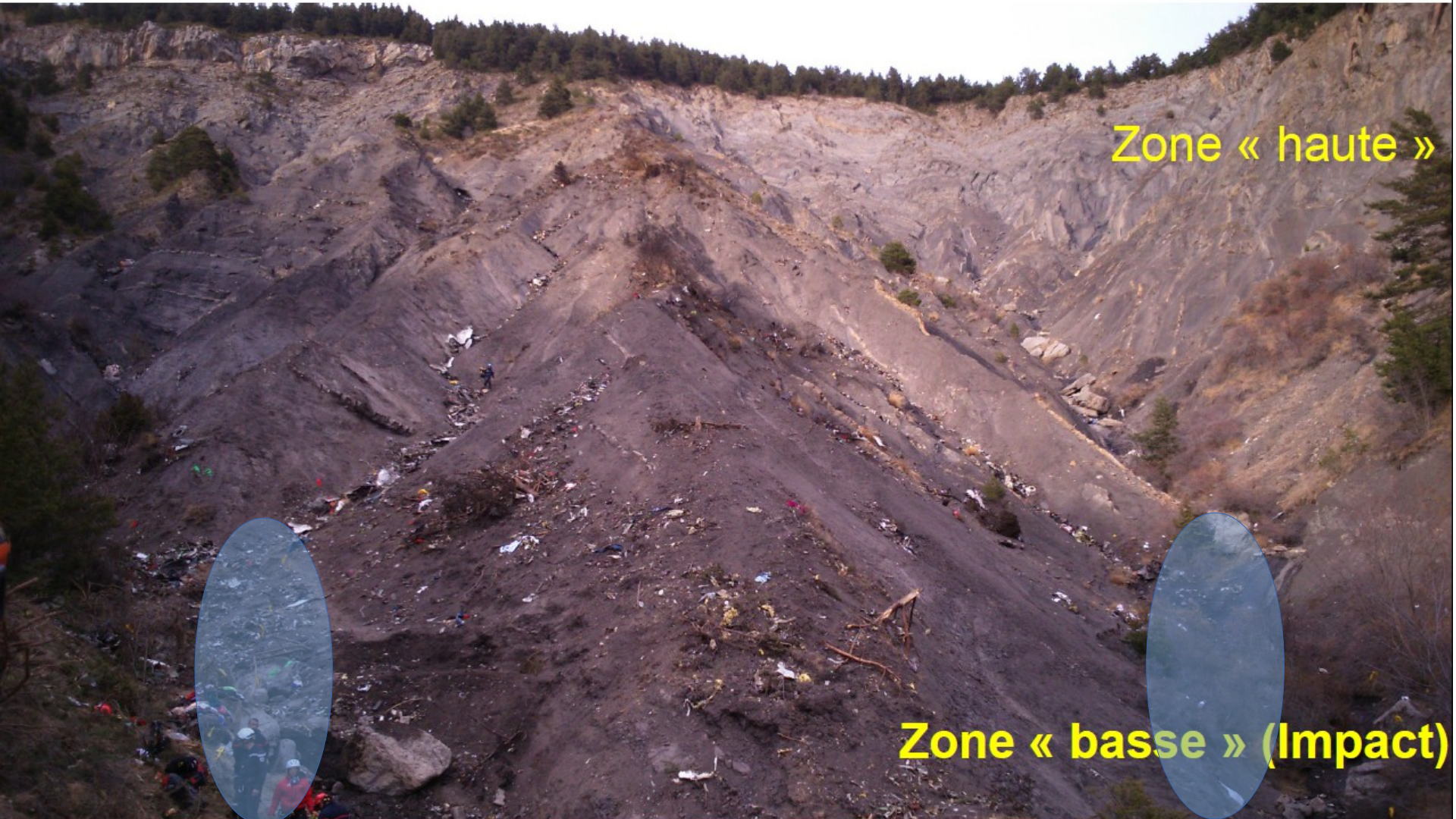
Cne FERNANDEZ  
Maj RASTOUIL

**Logistic**

Maj JOUANNY

# UCTM : first mission of operational support

Ravines A à F



Zone « haute »

Zone « basse » (Impact)



# Mountain rescue coordination

- Reconnaissance mission to define a strategy
  - Constraints
    - Natural ground dangers
    - Scattered plane fragments
    - Steep slope
  - Requirement :
    - avoid a new-accident
      - => Limit the number of people on the site (50)
      - => Coordination rescuers movement
      - => daily briefing
    - Continuity of mission
      - => building a track

# Mountain rescue coordination

- **Course of action**
  - Constant assistance of high mountain rescue units
    - => Couple « mountain rescuer / investigator »
  - Winch operation
  - Operate from the top
  - Coordinate the top and the bottom work
  - Limit the exposure to jet fuel inhaling

# The staff

- On the crash site : 30 mountain rescuers a day
  - 15 gendarmes
  - 10 policemen
  - 5 fire-fighters
  - Army mountain troops platoon (on peripheric area)
- Amount of staff limited to 50 (including the investigators) on the crash site



1<sup>er</sup> jour





# Première évacuation vers une zone sécurisée...





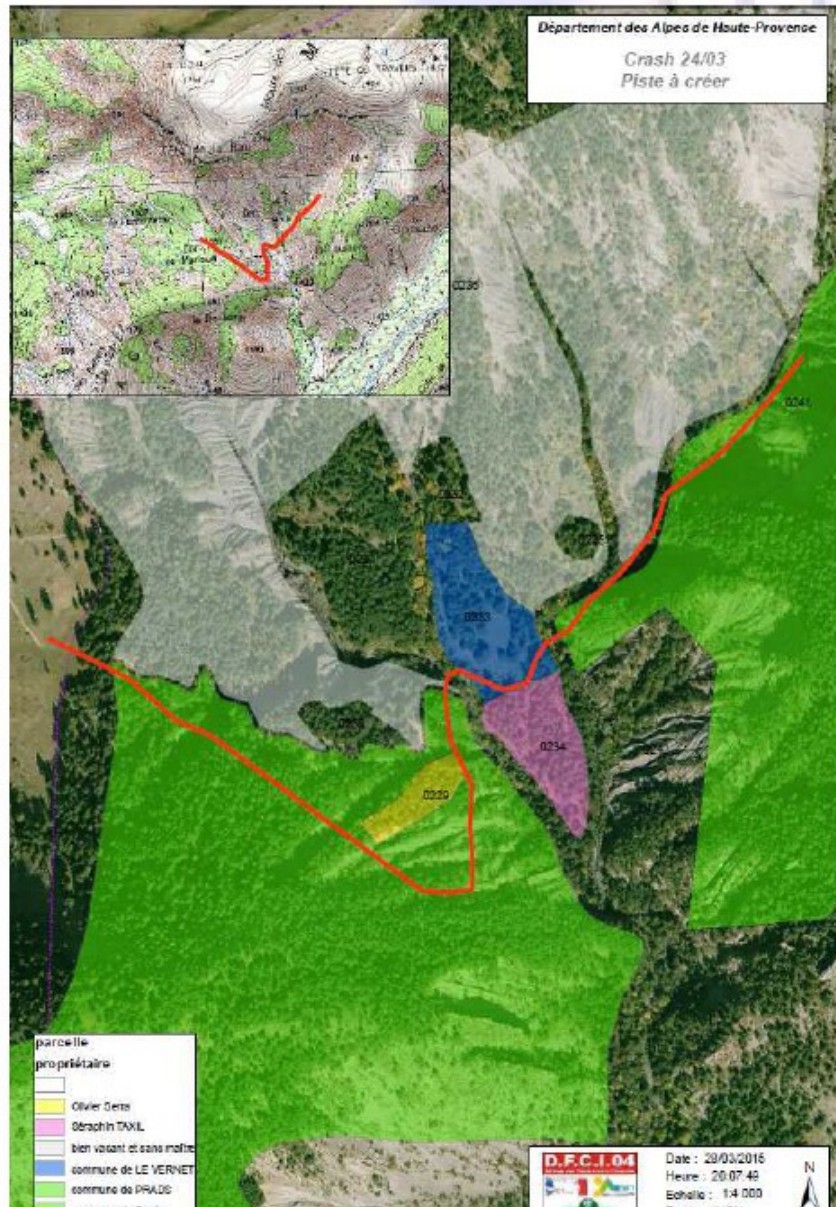




# Anticipation

- Freedom of movement
  - => Building a track
- Staff turn-over and psychological support
  - On the site and after
- Logistical support
  - Rescue team HQ
  - Alpinism equipment for investigators

# Building a track to maintain continuity of the mission



# Results

- Discovery of the two black boxes
- Treatment of 2866 biological fragments leading to 150 different DNA
- More than 500 personal belongings sealed
- 104 flight hours
- 304 drops
- **No accident**
- 10 days instead of 3 weeks