## 2022 SEMINARIO DE VOLUNTARIOS Y OFICIALES



RALLY SAFETY
La seguridad en los Rallyes
26/02/2022

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## 2022 SEMINARIO DE VOLUNTARIOS Y OFICIALES





- UK version is published, will be translated Q1 2022
- What's new?
  - Competitor safety reminder:

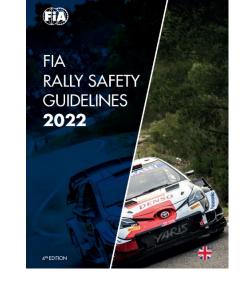


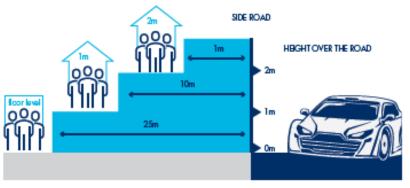
- Safety caravan
  - Dedicated radio channel + windscreen sun strip





- What's new?
  - Safety road book content clarification
  - Refueling safety information
  - Electrical safety
  - Tire Warming Zone (TWZ)
  - New set of illustrations
  - Spectator safety:
    - Safe location area
    - 30min deadline for walking on the stage







- What's new:
  - Spectator safety reminder
  - Electrical safety management:
    - E-Safety concept
    - Recommended training
    - Recommended Personal protection equipment
    - FIA Safety Light
    - Safety check list













## 2022 SEMINARIO DE VOLUNTARIOS Y OFICIALES

**SMART TRACKING** 







- Smartphone tracking based systems
- Framework given by the FIA according to the Software Specification Guidance
- Candidate solutions reviewed by the FIA
- Applications are still possible
- Summary matrix to be published in the upcoming FIA Rally Tracking Guidelines
- Not to be used to downgrade the level of an already used solution!





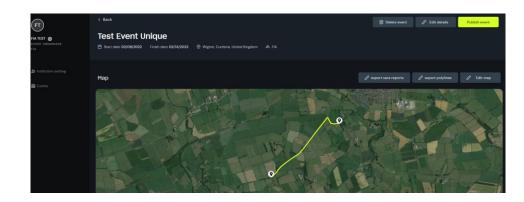
#### FIA SMART Rally Tracking System Software Specification Guidance

25th January 2022 Version: 1.1





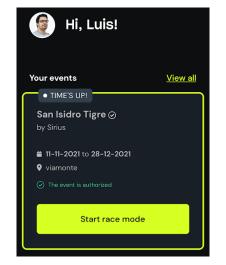




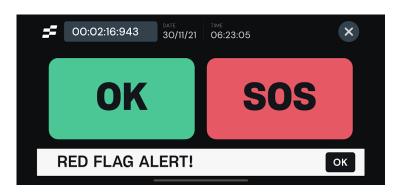
- Approved system:
- Spectra Technology <u>www.spectra-tec.com</u> <u>info@spectra-tec.com</u>
  - Sirius Rally Tracker

Sirius Rally Tracker is a pc/app marshalling and safety system that allows rally organizers to track, communicate with and control competitors through their mobile phones.

This affordable, reliable and user-friendly solution is an excellent alternative to complex and more expensive systems, for races where cell-phone coverage is not an issue. The app is available on <u>Android/Play Store</u> and <u>iPhone/Apple Store</u>.









#### SMART TRACKING PROJECT

- Under review solutions:
  - Rally Stream <a href="http://terzomarumura.com">http://terzomarumura.com</a>
  - VDS Technology <a href="http://www.vdsracing.com">http://www.vdsracing.com</a>
  - Riedel <a href="https://www.riedel.net">https://www.riedel.net</a>
  - Grupo ÉRRE <u>www.grupoerre.pt</u>
  - SAS <a href="https://rallysafe.com.au">https://rallysafe.com.au</a>



# SMART TRACKING PROJECT





FiA >> Purpose>>>Driven

## FIA.COM/RALLY-SAFETY

- FIA.com/rally-safety is the place to find:
  - all the Rally Safety Guidelines Family
  - Regional and SMART tracking specifications 2 2021 Diretrizes de Segurança para Ralis
  - Spectator Safety Campaign PDFs



#### RALLY SAFETY GUIDELINES

2021 Rally Safety Guidelines

2021 Lignes Directrices pour la Sécurité en Rallye

2021 Directrices de Seguridad para Rallies

2021 Rallye Sicherheitsrichtlinien

2021 Linee Guida Per La Sicurezza Nei Rally

#### RALLY SAFETY DELEGATE GUIDELINES

2021 Rally Safety Delegate Guidelines

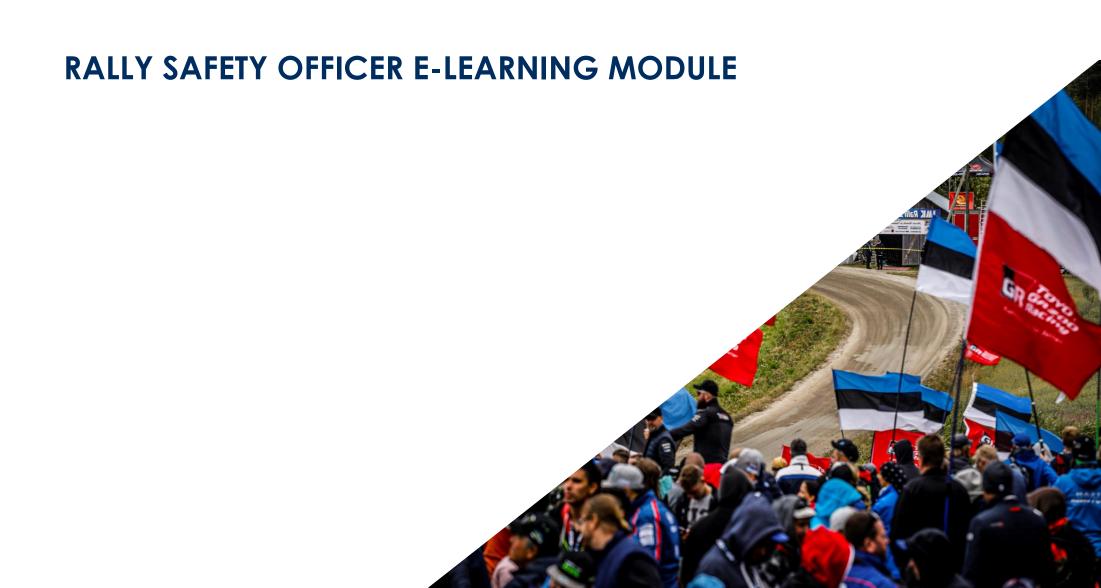
2021 Le Délégué Sécurité en Rallye

2021 Delegados de Seguridad de Rallies





## 2022 SEMINARIO DE VOLUNTARIOS Y OFICIALES





# FIA.COM/RALLY-SAFETY



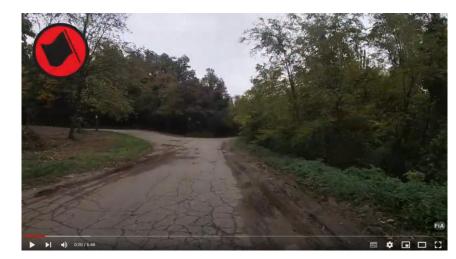




## FIA.COM/RALLY-SAFETY

Video exercise:

Video solution:





- Details to access will be given as soon as the module will be published
- To be translated into 5 languages: UK FR DE PT SP



## 2022 RALLY & CROSS-COUNTRY OFFICIALS SEMINAR





- How the safety caravan works:
  - Act as several layer
  - Dedicated safety radio channel between all SC + RC
  - Use of CCTV to give eyes to the RC
  - In case or FIA / ASN Safety Delegate presence, is to check, not to do
- Spectator areas management:
  - Good location selection
  - Check if there is access roads / car parks / facilities
  - Communicate to the spectators about the areas
  - Marshal the area
  - U shape netting setup







# 2022 RALLY & CROSS-COUNTRY OFFICIALS SEMINAR







- Main purpose:
  - Live view of different cameras that allow faster and more effective decisions on Rally Control
- Please comply with your General Data Protection Regulation

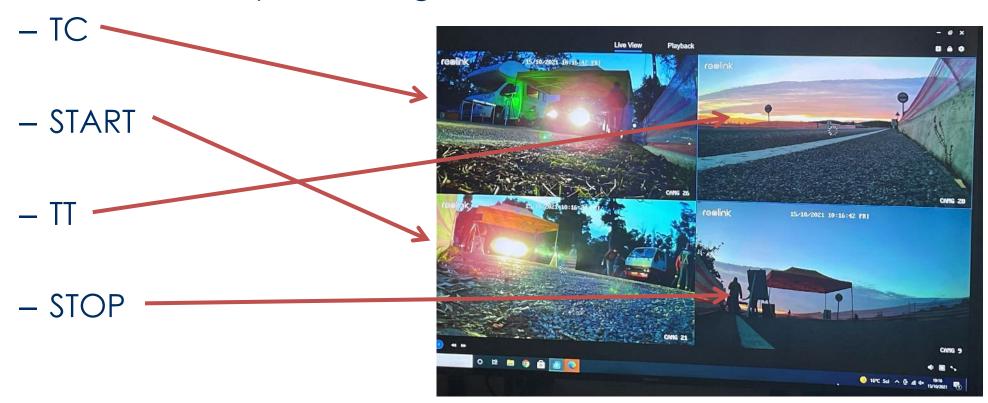
(GDPR)



- 3 different point of view:
  - Special Stages access controls
  - Safety cars inboard
  - Critical points in Special Stages



Point of view 1 Special Stages access controls:





- Point of view 2 Safety cars inboard:
  - 000 (The most important)
  - 00
  - \_ ()
  - Other cars on caravan that make sense to Rally Control
  - It becomes a great advantage
     when we can check before SS start
     some points in a live way
  - Public
  - State of the roads
  - Critical points
  - Etc...





- Point of view 3: Critical points in Special Stages
  - We always have critical points
     in an SS that cause us some added safety concerns:
    - Public areas
    - Jump
    - Bridge
    - More danger turns
    - Very fast zone
    - Etc...



- Usually, we use it with:
  - Marshal
  - Radio
  - Several times with residents of the region, who are available to take care of the camera.



- Logisitcs:
  - Minimum of cameras:
    - 4 For each SS
    - 3 For safety cars
    - ? Critical points:
      - Will depend criterion of organizer



- Camera name: Reolink GO
- 4G (Check quality transmission)
- Battery (Check battery life or provide power supply)
- New cameras are testing
  - Dual cameras with GPS to use inside the all competing cars, will be tested soon (be careful regarding the safety of the mounting)
  - One camera to front, and the other to inside the car to see the crew







- Logistic:
  - Human and physical means for rally control
     (Depends on how many cameras we are using)
    - Several TV or projectors to control all cameras
    - One or two persons to do the cameras management
    - One team on the caravan to check and solve some issues that can happen







- How to clear an unsafe situation before and after the 1st competing car:
  - Importance of marshal locations displayed in the safety plan
  - Use of CCTV and live TV if available
  - Importance of dedicated safety radio channel
- Tyre Warming Zone



## 2022 SEMINARIO DE VOLUNTARIOS Y OFICIALES

TYRE WARMING ZONE SETUP





#### TWZ – TYRE WARMING ZONE

Main purposes:



- Prevent drivers from tyre warming on public roads
- Allow competitors to warm up before the start of a Special Stage, in a safe way



#### TWZ – TYRE WARMING ZONE

- Optional for the organizer
- TWZ road must be set up as a Special Stage
- Rescue cars, remain positioned after the start of the Special Stage
- The TWZ must be marked in the Road Book
- Distance between the Time Control and start of the Special Stage will be a minimum of 500 m.
- The 3-minute gap can be increased considering the length of the TWZ to allow the crew warming the tyres and to prepare for the Special Stage start



#### TWZ - TYRE WARMING ZONE





- The TWZ begins after the time control with the "TWZ" board and ends with the "TWZ End" board
- After "TWZ End" board crews must drive at walking speed to position on the start line
- There will be a minimum of 100 m between the "TWZ End" board and the start of the Special Stage
- Deliberate stopping in the TWZ or driving the opposite direction is strictly forbidden
- Drivers must be able to stop the car at any time in case of danger
- The adjustment of tyre pressure is permitted, before the start of the Special Stage



## TWZ - TYRE WARMING ZONE





#### VOLUNTARY RALLY SAFETY TASK FORCE APPLICATION

- Explanation of the process:
  - We are working to strenghten the support given by the RSTF
  - Could be asked by ASN for wide scale or by an Organiser for a specific event
  - A pool of FIA Safety expert will take care of the demande and provide all necessary support
  - Free of charge
- rally.safety@fia.com



### ELECTRICAL SAFETY CAMPAIGN





### GLOBAL SPECTATOR SAFETY CAMPAIGN







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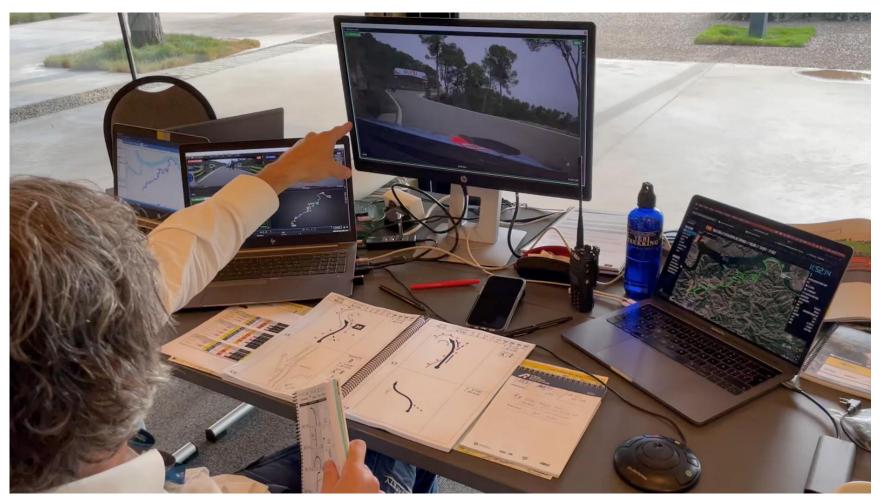






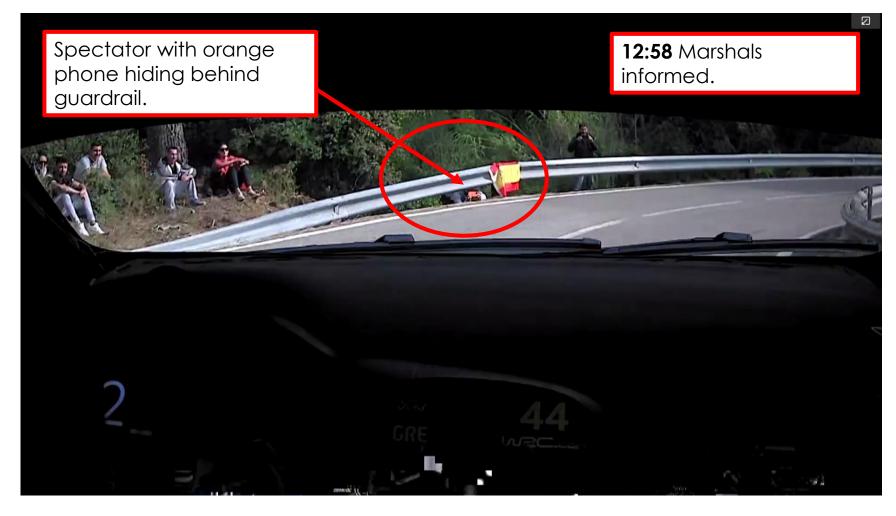
WRC Deputy Safety Delegate workstation in Rally HQ













T+10: Neuville 13:08





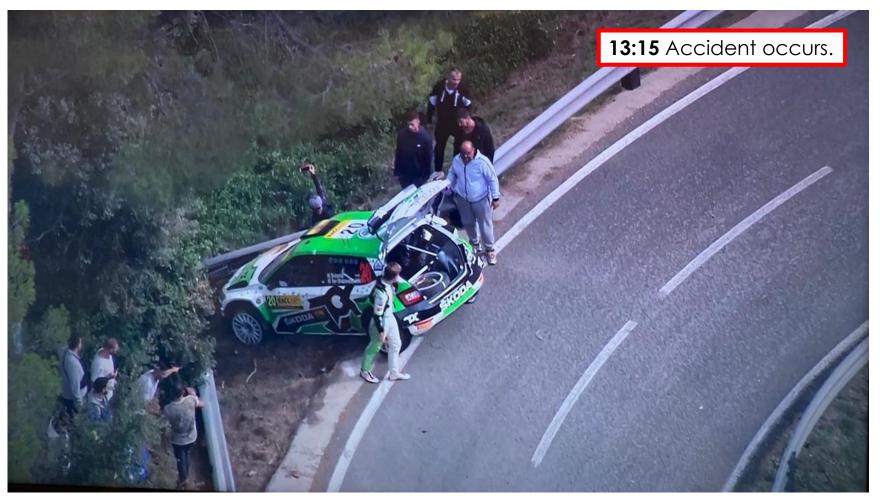




T+17: Bulacia 13:15









### IMPORTANCE OF MARSHAL BRIEFING





### SPECIFIC MESSAGES





#### 2022 SEMINARIO DE VOLUNTARIOS Y OFICIALES

**CASE STUDIES** 





















CASE STUDY
What is good? What is bad? What can be done?













CASE STUDY
What is good? What is bad? What can be done?

