The « real life » of firefighters

Tertiary Safety

The project CTIF/Euro NCAP

Tools for firefighters: some examples

Euro NCAP first actions

Operational application

Information reception

Integration in interventions units

Search of new technics / material evolution

Deployment of materials and new technics

car equipment involving firefighters interventions

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Impact

Avoid accidents reduce their consequences (ABS, AFU, ESP...)

Improve occupants protection in accidents (seat belt, Airbag, seats, padding...)

Rescue as fast as possible with maximum safety for all (E call, extrication...)

Avoid additional accident

Hour Minute Second Millisecond Minute Hour

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Primary (or active) accidentology/safety

Secondary (or passive) accidentology/safety

Tertiary accidentology/safety

Avoid accidents
reduce their consequences
(ABS, AFU, ESP...)

Improve occupants protection
in accidents
(seat belt, Airbag, seats, padding...)

Rescue as fast as possible
with maximum safety for all
(E call, extrication...)
Avoid additional accident

Accounted for in Euro NCAP Ratings
Encourage car manufacturers to take into account rescuers interventions by integrating in Euro NCAP ratings all actions led to improve their efficiency and safety.
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Primary (or active) accidentology/safety

Avoid accidents reduce their consequences (ABS, AFU, ESP...)

Secondary (or passive) accidentology/safety

Improve occupants protection in accidents (seatbelt, Airbag, seats, padding...)

Tertiary accidentology/safety

Rescue as fast as possible with maximum safety for all (E call, extrication...)

Avoid additional accident

Accounted for in Euro NCAP Ratings

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Primary (or active) accidentology/safety

Avoid accidents reduce their consequences (ABS, AFU, ESP...)

Secondary (or passive) accidentology/safety

Improve occupants protection in accidents (seatbelt, Airbag, seats, padding...)

Tertiary accidentology/safety

Rescue as fast as possible with maximum safety for all (E call, extrication...)

Avoid additional accident

Expected in future Euro NCAP Ratings
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Euro NCAP 2025 Roadmap

IN PURSUIT OF VISION ZERO

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FOR SAFER CARS

EURO NCAP

INTERNATIONAL ASSOCIATION OF FIRE AND RESCUE SERVICES

Primary Safety

Secondary Safety

Pedestrian

Safety Assist

Adult Occupant

Child Occupant

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Quick information about accident : E call

Energy identification :
- standardized symbols
- Qr code

Standardized
Rescue sheet / ERG

Easy/Standardized
« shut off energy»

Easy/Standardized
« information sticks»

Tools for firefighters : some examples

Euro NCAP first actions
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### Quick information about accident: E call

- **Name**
- **Vehicle ID (VIN)**
- **Propulsion type (energy storage)**
- **Timestamp**
- **Vehicle location**
- **Vehicle direction**

<table>
<thead>
<tr>
<th>Name</th>
<th>Mandatory</th>
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</thead>
<tbody>
<tr>
<td>Vehicle ID (VIN)</td>
<td>O</td>
</tr>
<tr>
<td>Propulsion type (energy storage)</td>
<td>O</td>
</tr>
<tr>
<td>Timestamp</td>
<td>O</td>
</tr>
<tr>
<td>Vehicle location</td>
<td>O</td>
</tr>
<tr>
<td>Vehicle direction</td>
<td>O</td>
</tr>
</tbody>
</table>

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**tools to help rescuers decision**
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**tools to help rescuers decision**

**WHAT ELSE?**

<table>
<thead>
<tr>
<th>Name</th>
<th>No mandatory</th>
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<tbody>
<tr>
<td>Occupants number</td>
<td>O</td>
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<tr>
<td>Types of impacts (front, lateral, rear)</td>
<td>O</td>
</tr>
<tr>
<td>Vehicle position (on its wheels/on the roof...)</td>
<td>O</td>
</tr>
<tr>
<td>Degree of potential injuries</td>
<td>O</td>
</tr>
<tr>
<td>Detection (water, smoke...)</td>
<td>O</td>
</tr>
</tbody>
</table>
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Standardized « shut off energy »

One 12 v battery

Second 12 v battery

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**Easy/Standardized**

« shut off energy»
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Logan GNC

SÉCURISATION DU VÉHICULE

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KILL SWITCH ?

tools to help rescuers actions

GENERAL RESCUE KEY "ALL IN ONE"

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Call

Occupants number ...

Rescue sheets database

Unlocking of auto-lock doors

Additional information (based on ISO Standards)

Multi-collision brake technology

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MORE INFORMATION?

Contact:

Euro NCAP President : Pierre Castaing
pierre.castaing.externe@utacceram.com

CTIF Project leader for EuroNCap: Lieutenant-colonel Michel Gentilleau
michel.gentilleau@sdis86.net