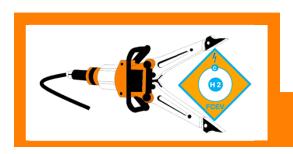
Informal document GRSG-111-31 (111th GRSG, 11-14 October 2016, Agenda items 7 and 9)

GRSG meeting Geneva 2016

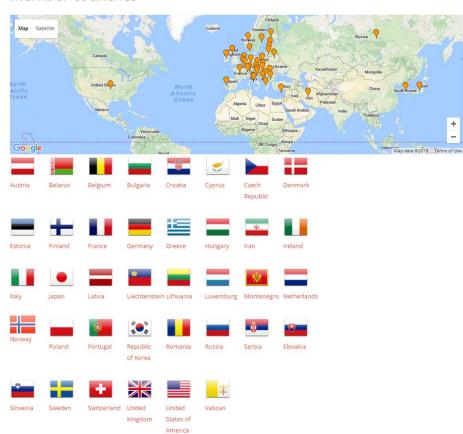


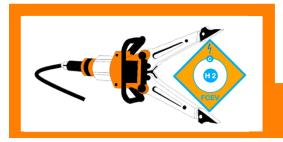


CTIF

INTERNATIONAL ASSOCIATION OF FIRE AND RESCUE SERVICES

Member countries

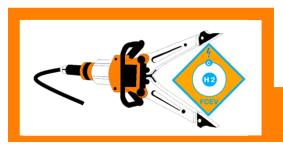






CTIF

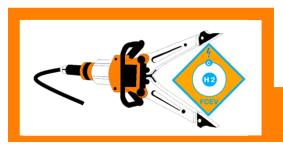
- Several commissions and working groups.
- Commission for Extrication and New Technology.
- Commission's objectives:
 - Availability of crucial information for every firefighter worldwide & free of charge.
 - Create a band of trust between manufacturers, government and other organizations.
 - Assure safe working conditions.
 - Focus on the victims during rescue operations.





CTIF

- How?
 - Working together with Euro NCAP!
 - Standardization information through ISO!
 - Going further than part 1 (rescue sheet)
 - Propulsion energy identification
 - Standard template rescue sheet for buses and trucks
 - Standard template Emergency Response Guide
 - By using the same 10 'ISO chapters'
 - Best practice procedures concerning the power source in a vehicle(Li-ion batteries, CNG, Hydrogen...), return of experience, lessons learned...





Euro NCAP vs Proposal CTIF

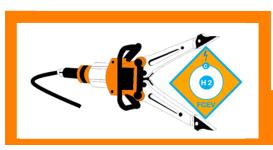




Encourage car manufacturers to take into account rescuers interventions by integrating in EuroNCap ratings all actions led to improve their safety





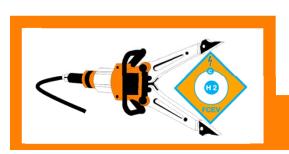




Euro NCAP vs Proposal CTIF











Euro NCAP vs Proposal CTIF













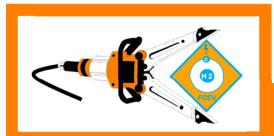








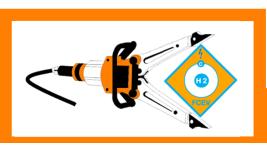






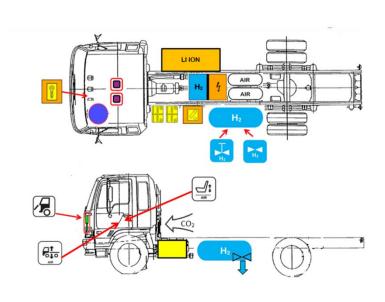
Used Colors

GREY	DIESEL
RED	GASOLINE
GREEN	CNG
WHITE	CRYOGEN LNG
BLUE	HYDROGEN
ORANGE	HIGH VOLTAGE
WHITE	LPG

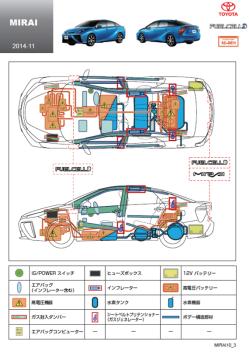


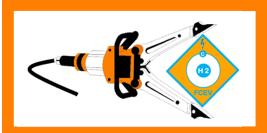


 These colors are also used in Rescue Information and to color vehicle components

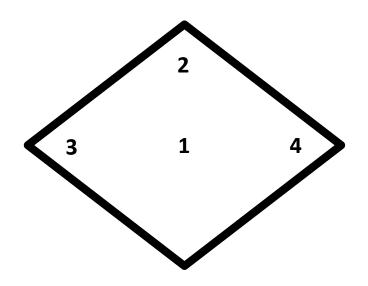




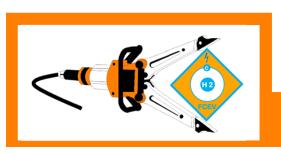








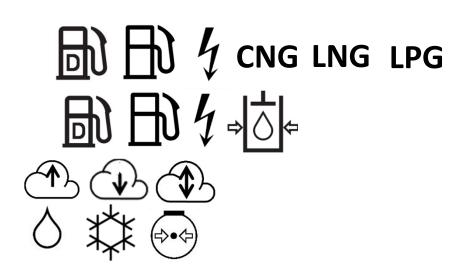
1	First energy source
2	Second energy source
3	Density towards air
4	Stored state

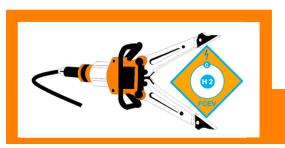




SYMBOLS

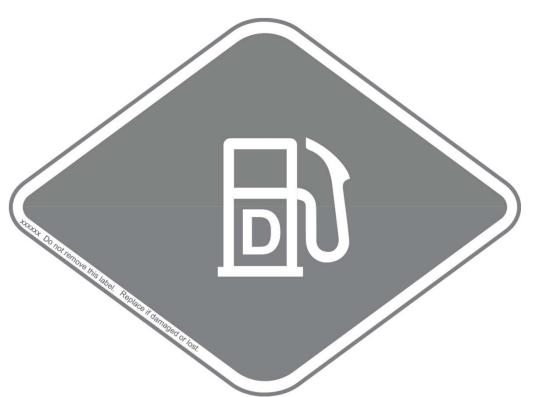
- 1) FIRST ENERGY SOURCE
- 2) SECOND ENERGY SOURCE
- 3) DENSITY TOWARDS AIR
- 4) STORED STATE

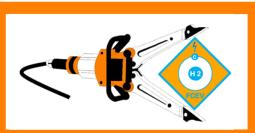






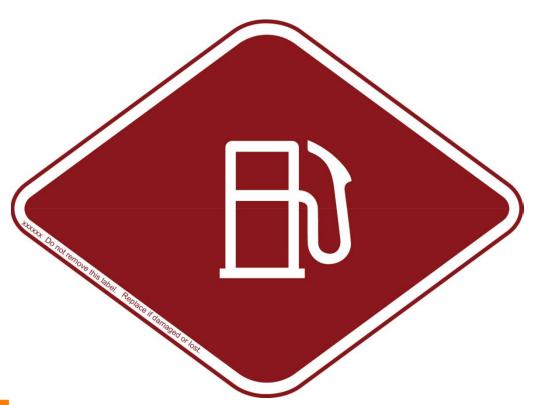
DIESEL

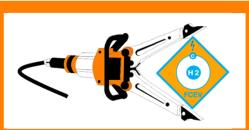






GASOLINE

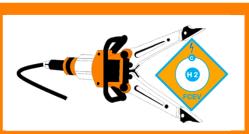






CNG

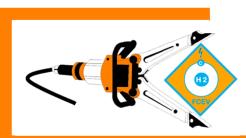






<u>LPG</u>

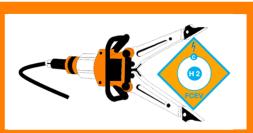




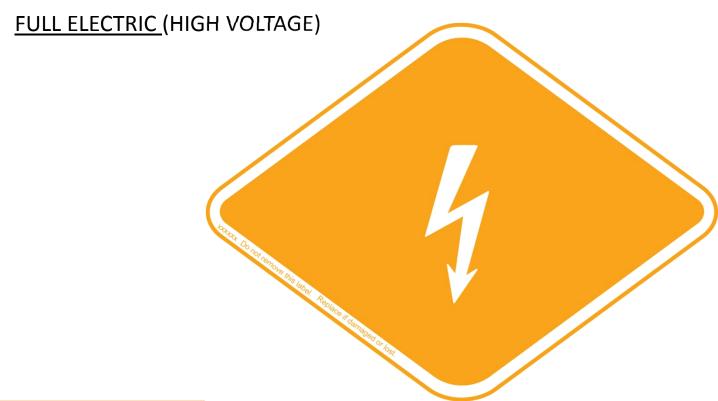


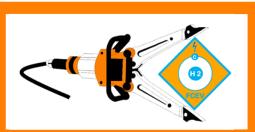
<u>LNG</u>







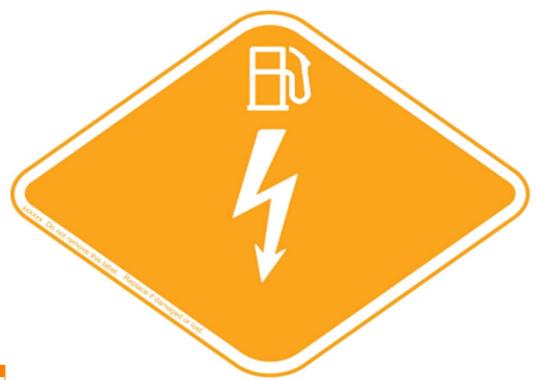


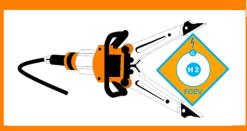




HYBRID: GASOLINE AND ELECTRIC

(HIGH VOLTAGE)

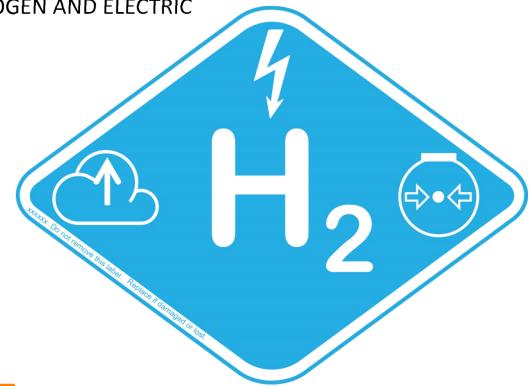


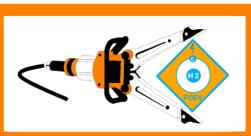




FUEL CELL: HYDROGEN AND ELECTRIC

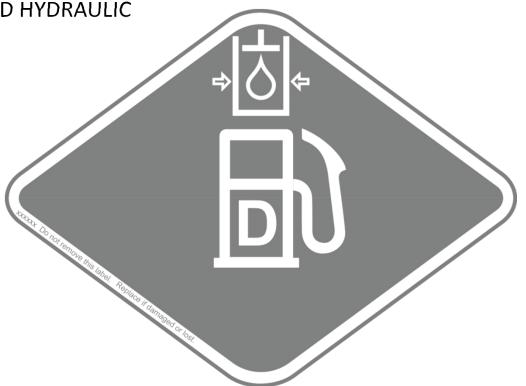
(HIGH VOLTAGE)

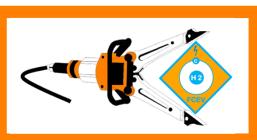










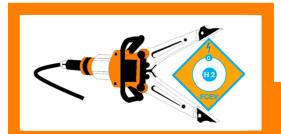




10 ISO chapters template

1.	Identification /	recognition
----	------------------	-------------

- 2. Immobilisation / stabilisation / lifting
- 3. Disable direct hazards / safety regulations
- 4. Access to the occupants
- 5. Stored liquids / gases / solids
- 6. In case of fire
- In case of submersion
- 8. Towing / transportation / storage
- 9. Important additional information
- 10. Explanation of pictograms used



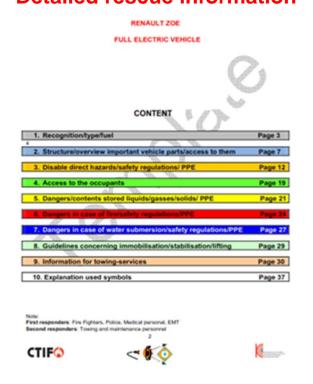


Standard secondary pages rescue sheet(data sheet) versus ISO ERG

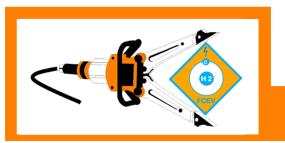
Quick rescue information



Detailed rescue information



Rescue Sheet



Emergency response guide (ERG)



10 ISO chapters template used in ISO ERG

Usable for all means of transport: car /bus /truck /train/tram/ airplane...

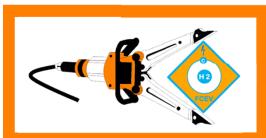






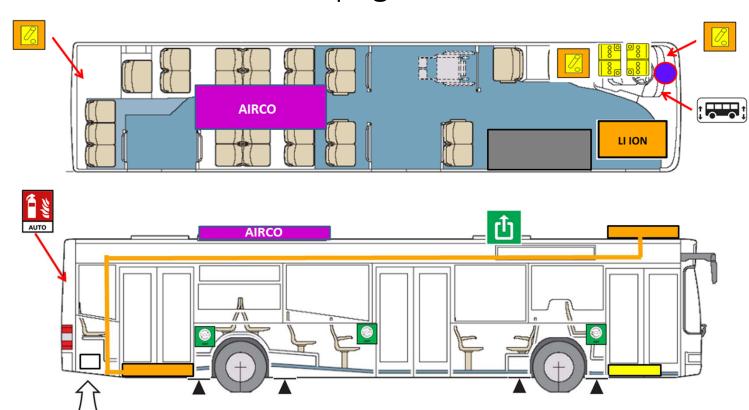


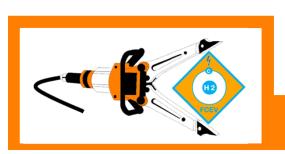






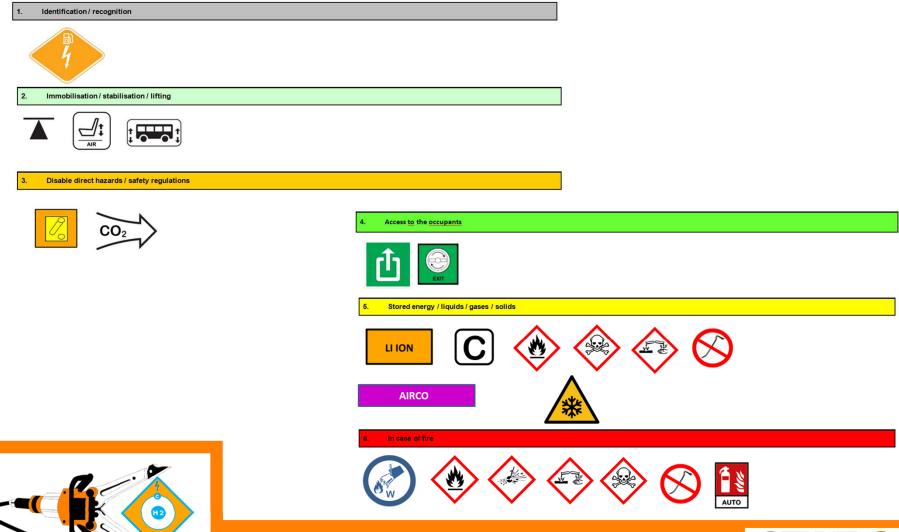
Rescue sheet bus front page





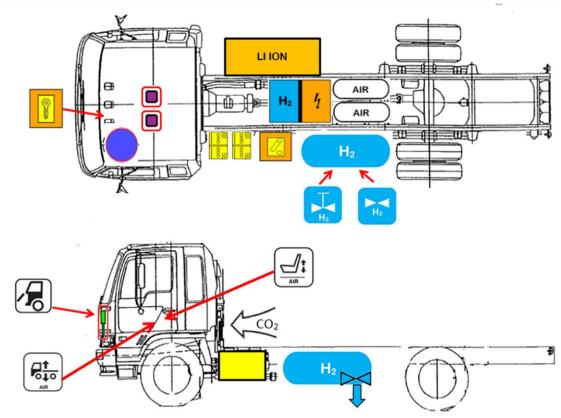


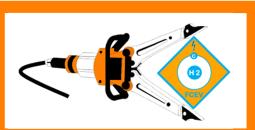
Rescue sheet bus secondary page(s)





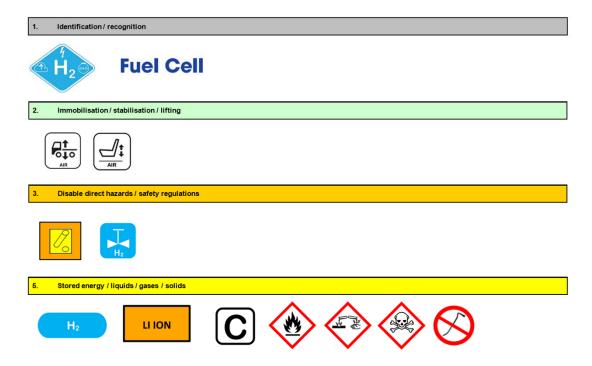
Rescue sheet truck front page

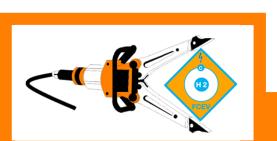






Rescue sheet bus secondary page(s)





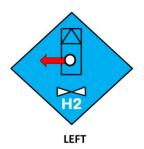


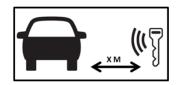


New designed symbols

















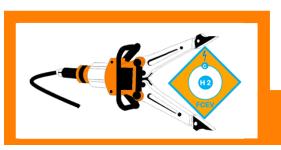














Interested to become a Commission member?

Every (official) representative of any country is welcome in our commission!

Please contact:

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tom.vanesbroeck@brandweerzonecentrum.be

ISO Project Leader: Kurt Vollmacher

kurt.vollmacher@brandweerzonecentrum.be

