

# MADRID MEETING

## 07/11/2018

Tom Van Esbroeck

Kurt Vollmacher



SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS





## RETEX ACCIDENT

## NEW TECHNOLOGY



Figure Kurt Vollmacher





CEL 2



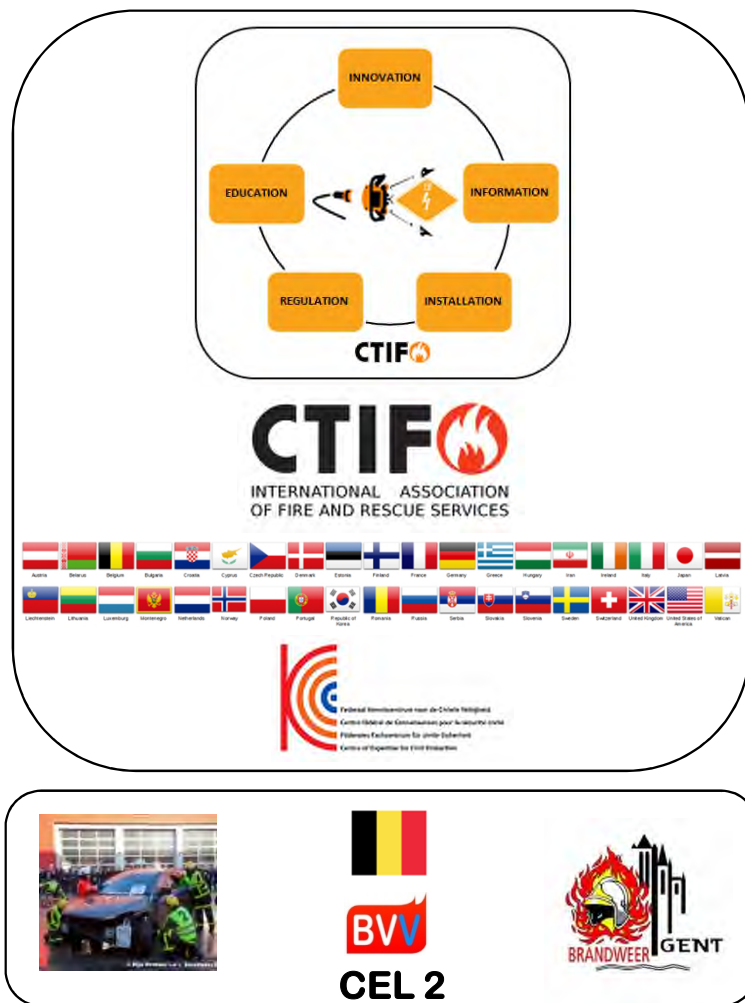


Federale Interventiedienst voor de Schieda Veldspand  
Centraal Bureau de Brandveiligheid voor de Schieda Veldspand  
Federale Brandweer voor de Schieda Veldspand  
Centraal Bureau de Brandveiligheid voor de Schieda Veldspand



CEL 2



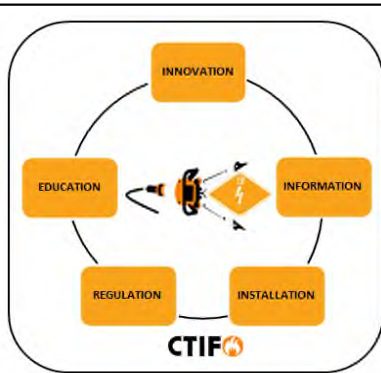




ADVANCING  
PUBLIC  
TRANSPORT



| National activities                      |   |                            |                                 |                                    |
|--|---|----------------------------|---------------------------------|------------------------------------|
| Pillar 1<br>Road safety<br>management    | Pillar 2<br>Safer transport<br>and mobility | Pillar 3<br>Safer vehicles | Pillar 4<br>Safer road<br>users | Pillar 5<br>Post-crash<br>response |
| International coordination of activities |   |                            |                                 |                                    |



**CTIF**  
INTERNATIONAL ASSOCIATION  
OF FIRE AND RESCUE SERVICES



SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS

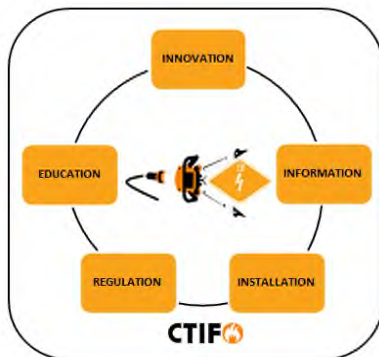




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TRANSPORT



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CEL 2



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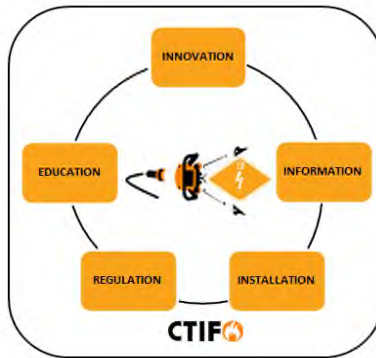
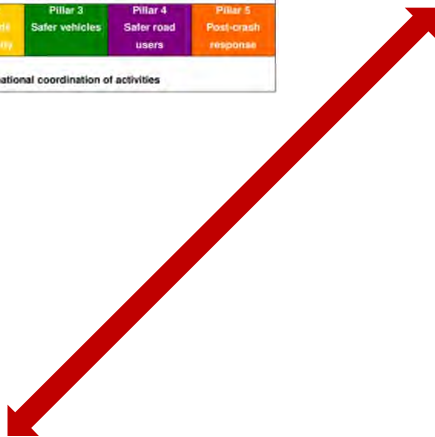




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CEL 2



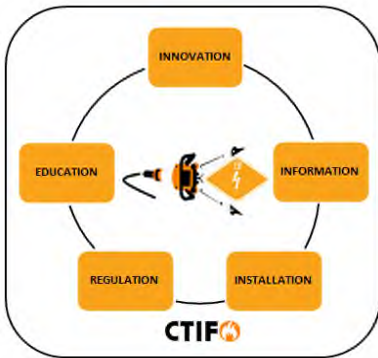
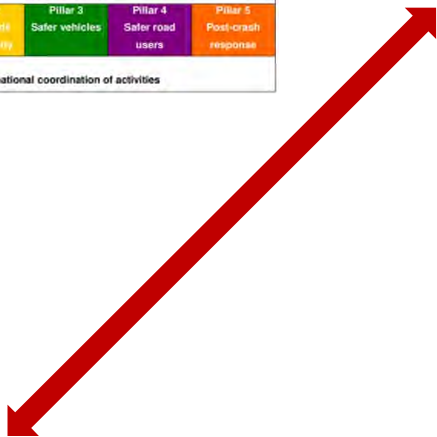
SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS



ADVANCING  
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TRANSPORT



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WORLD BANK



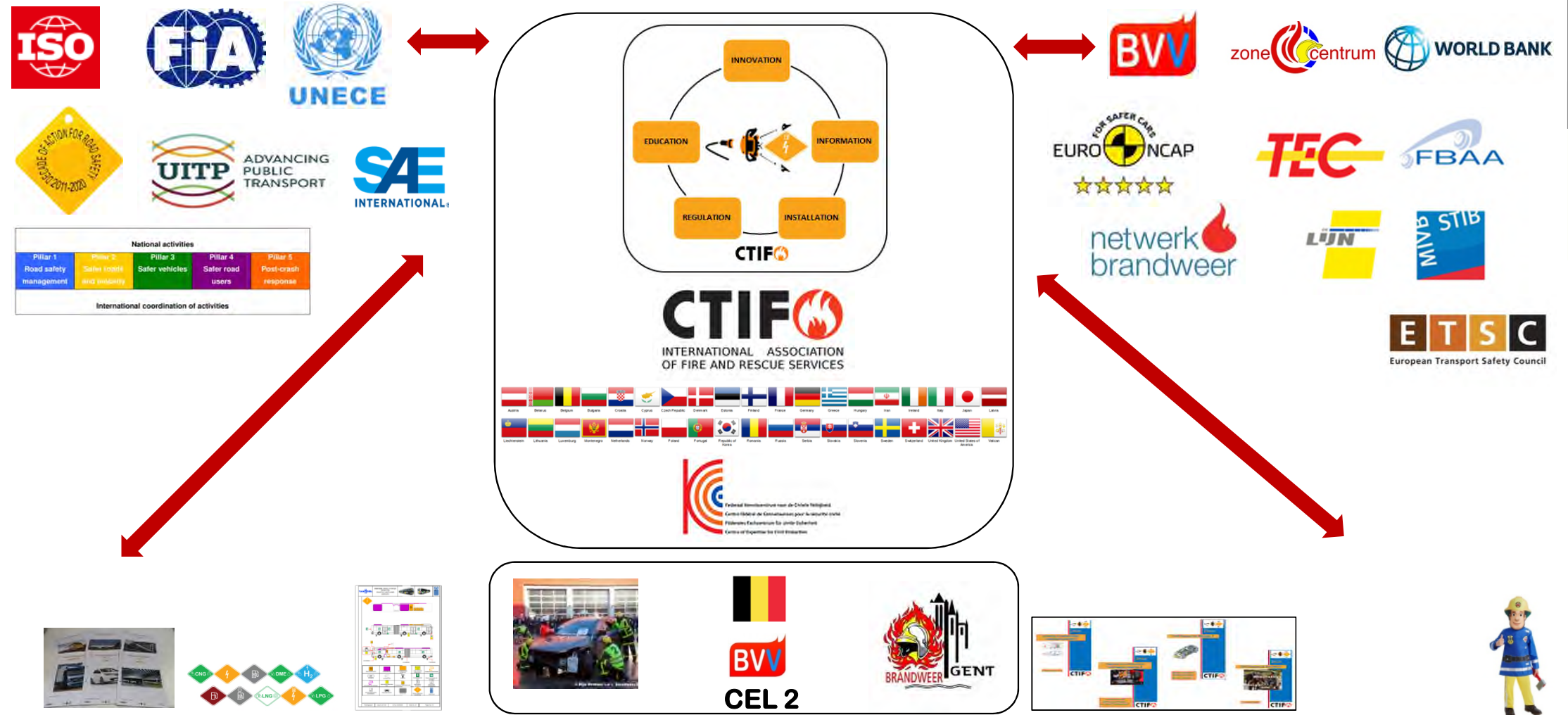
European Transport Safety Council



CEL 2



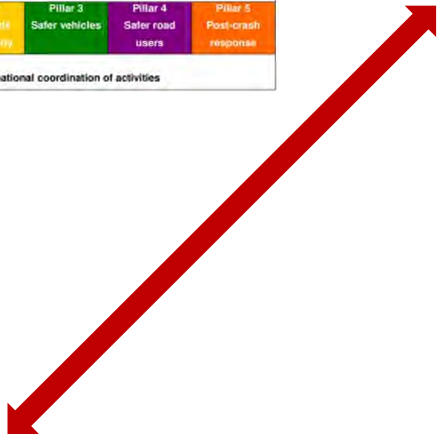
SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS







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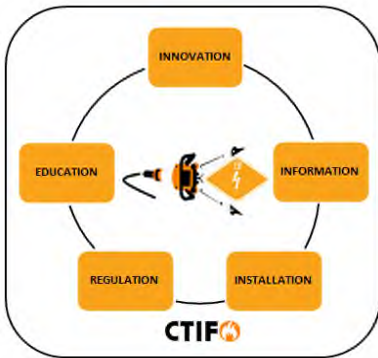
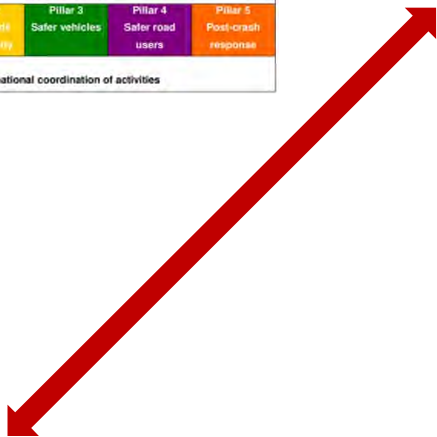
SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS



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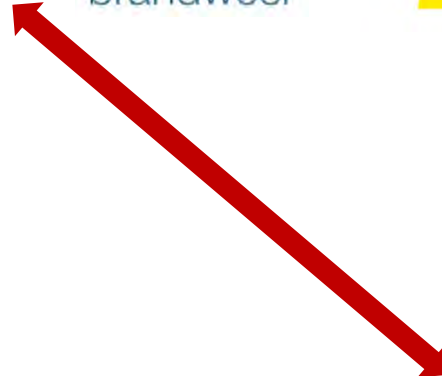
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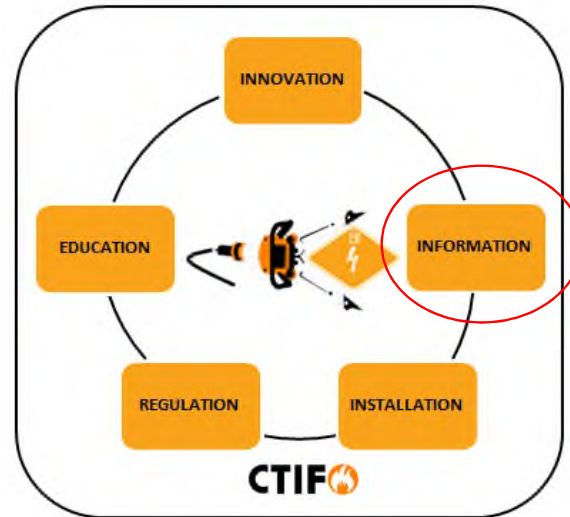
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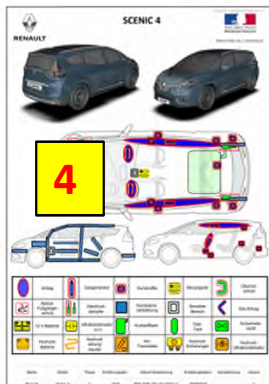
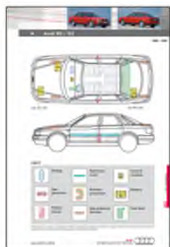
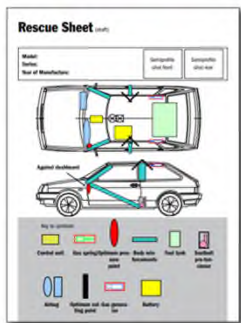
SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS



ISO 17840



1



4

3

|  |          |
|--|----------|
| 1. Identification / recognition                | Page ... |
| 2. Immobilisation / stabilisation / lifting    | Page ... |
| 3. Disable direct hazards / safety regulations | Page ... |
| 4. Access to the occupants                     | Page ... |
| 5. Stored energy / liquids / gases / solids    | Page ... |
| 6. In case of fire                             | Page ... |
| 7. In case of submersion                       | Page ... |
| 8. Towing / transportation / storage           | Page ... |
| 9. Important additional information            | Page ... |
| 10. Explanation of pictograms used             | Page ... |



2



|  |          |
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4

|        |              |
|--------|--------------|
| GREY   | DIESEL       |
| RED    | GASOLINE     |
| GREEN  | GAS          |
| WHITE  | CRYOGEN LNG  |
| BLUE   | HYDROGEN     |
| ORANGE | HIGH VOLTAGE |



# MEMORANDUM OF UNDERSTANDING



Top "drone" view bus





**LIEGE  
TEC**



Figures Google



**BRUSSELS**  
**MIVB**



Figures Google

# COURSES/PROCEDURES AND TRAINING



SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS



# COURSES/PROCEDURES AND TRAINING

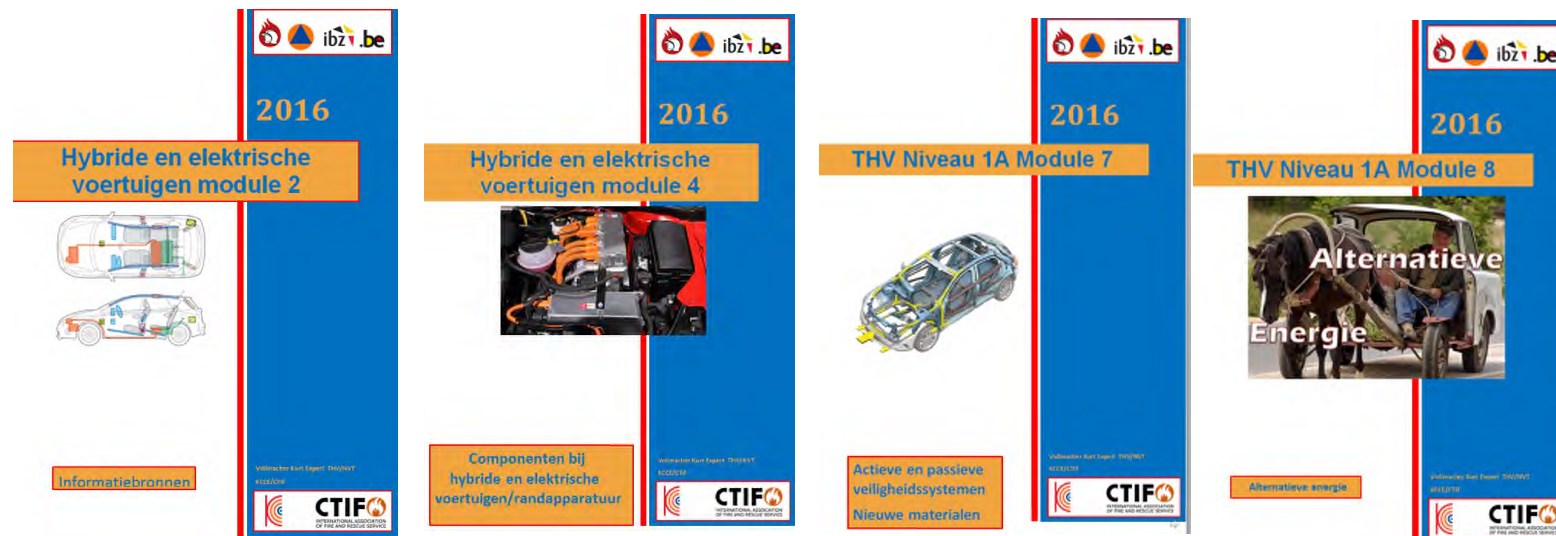


Figure Kurt Vollmacher





## INCIDENT COMMAND TRAINING



Figure Kurt Vollmacher



Figure Kurt Vollmacher  
SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS





## INTERNATIONAL CTIF/EURO NCAP EXTRICATION WEEK



SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS



**RESPECT**



**LEARN**



**ACT**



**TRAINING DOCTERS AND EMERGENCY PERSONEL**

**SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS**





07 Mar 2018

## The EV accident in Dilsen-Stokkem: Intervention guidelines for Plug-in Hybrids

Extrication & New Technology, CTIF, Lessons Learned, RETEX, Traffic Accidents

## LESSONS LEARNED

SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS






10 Jul 2018

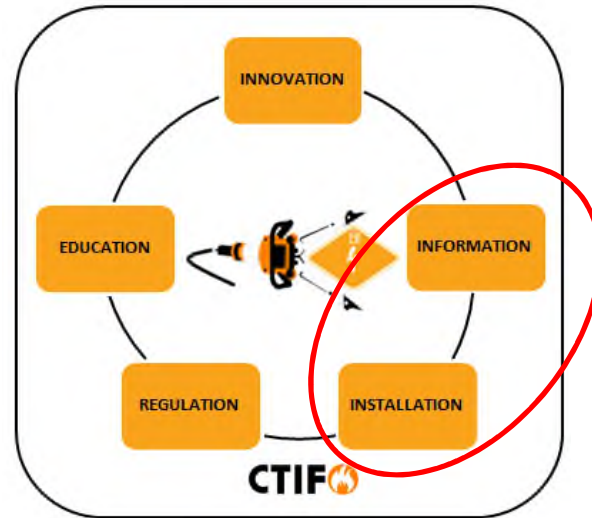
## Lessons Learned from an accident involving an LNG truck

Extrication & New Technology, Hazardous Materials, Education and Training,  
Communication Group, CTIF, Current Affairs |  
RETEX

### Attached Files

-  Download English version
-  Download French version
-  Download Dutch version





NEXT “STANDARDISATION” STEPS

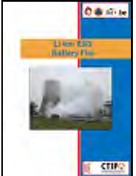
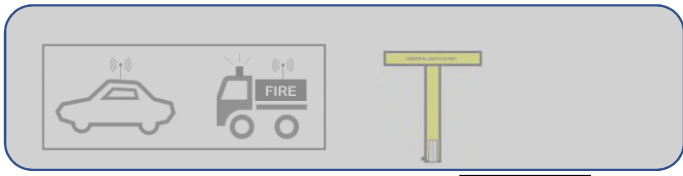
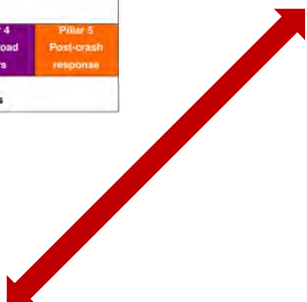




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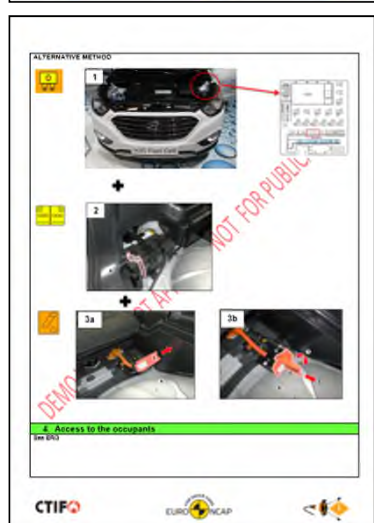
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SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS



# UPGRADE ISO 17840 PART 1 VERSUS EURO NCAP DATABASE



|  |          |
|--|----------|
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| 2. Immobilisation / stabilisation / lifting    | Page ... |
| 3. Disable direct hazards / safety regulations | Page ... |
| 4. Access to the occupants                     | Page ... |
| 5. Stored energy / liquids / gases / solids    | Page ... |
| 6. Personal files                              | Page ... |
| 7. In case of submersion                       | Page ... |
| 8. Towing / transportation / storage           | Page ... |
| 9. Important additional information            | Page ... |
| 10. Explanation of pictograms used             | Page ... |



**5 PAGES MAX.  
IN LINE WITH  
PART 2,3,4**

Figures Kurt Vollmacher



# SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS

# IMPLEMENTATION ISO 17840 PART 4



SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS



Figure Kurt Vollmacher



Figure Kurt Vollmacher

SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS





Figure Kurt Vollmacher

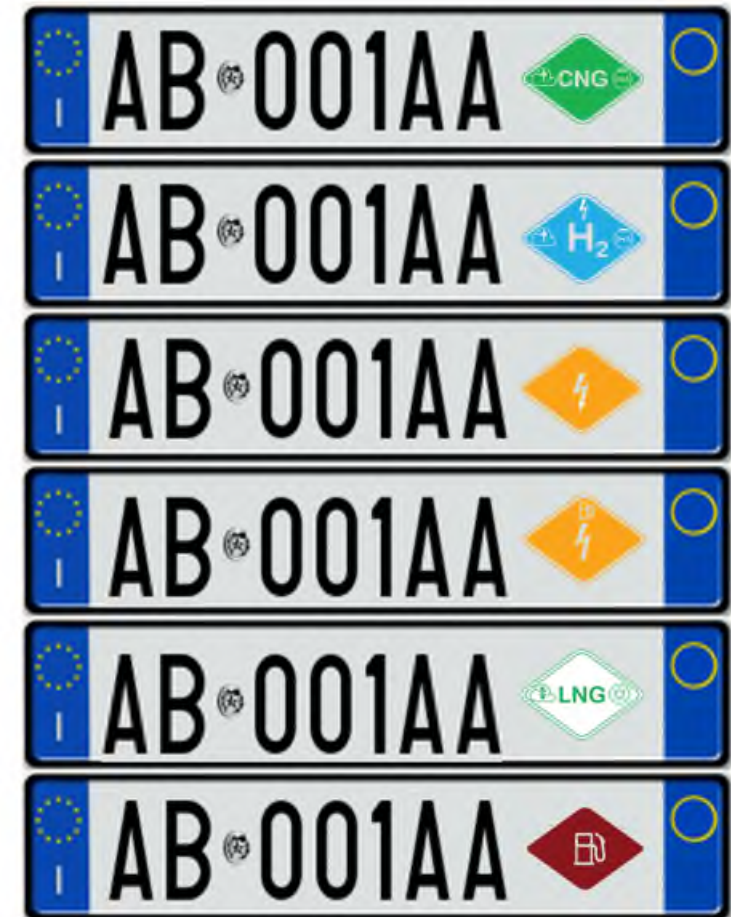


Figure Kurt Vollmacher



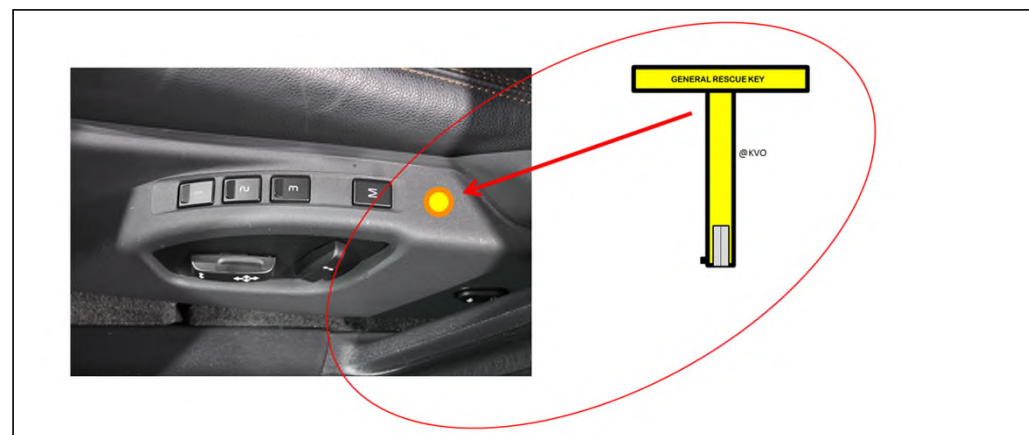
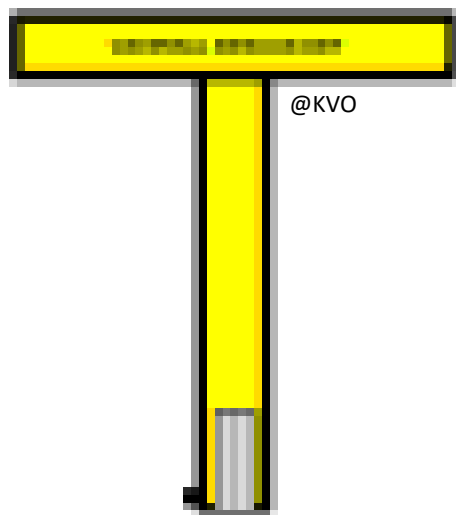
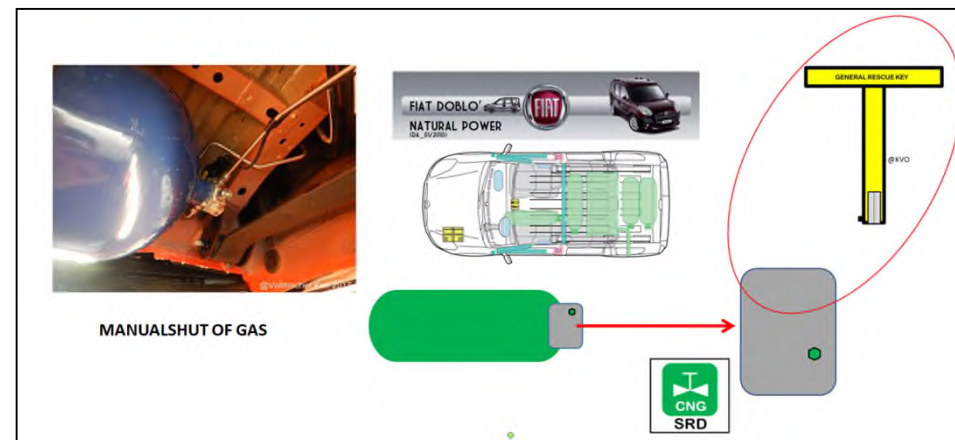
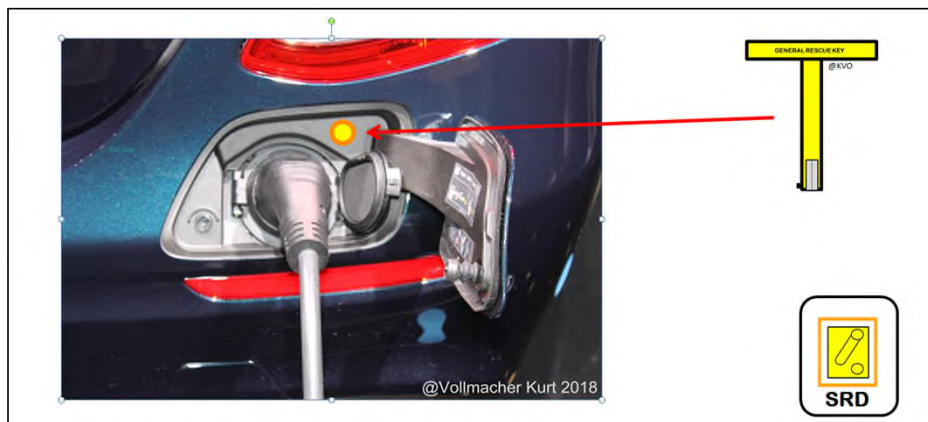
SAFER CITIZENS THROUGH SKILLED FIREFIGHTERS

## LICENCE PLATE



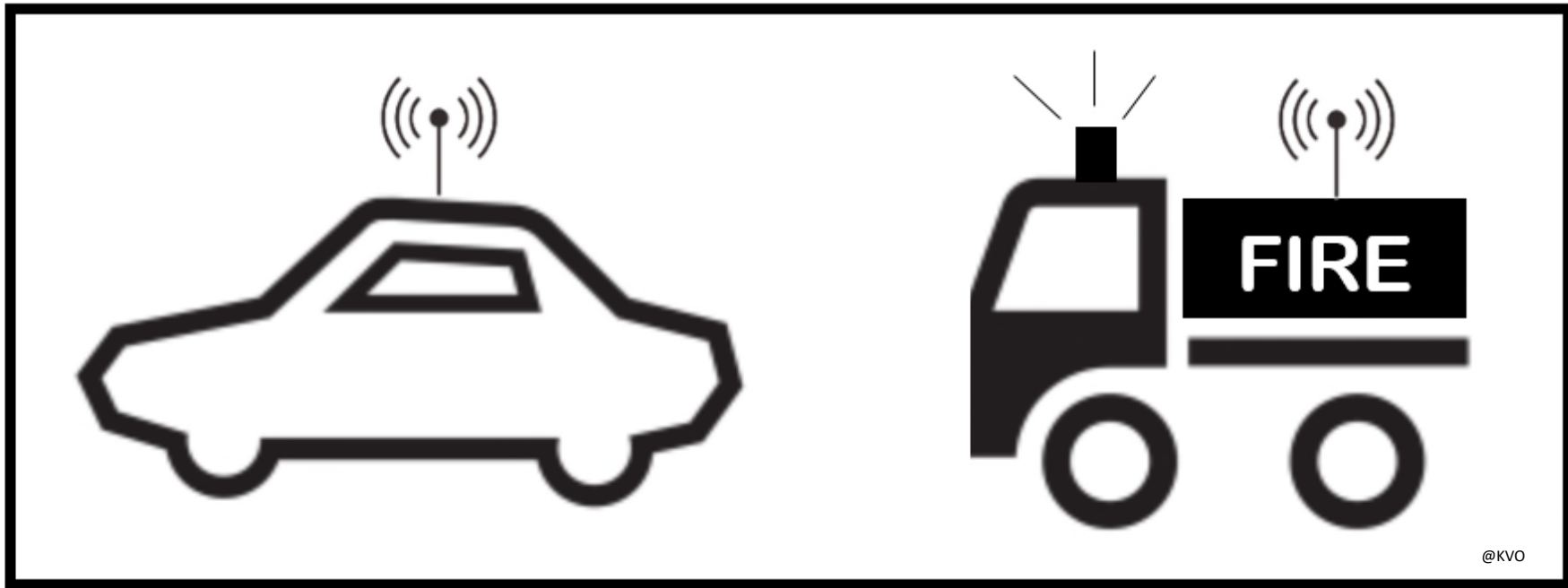


# ISO STANDARDISATION OF INSTALLATION



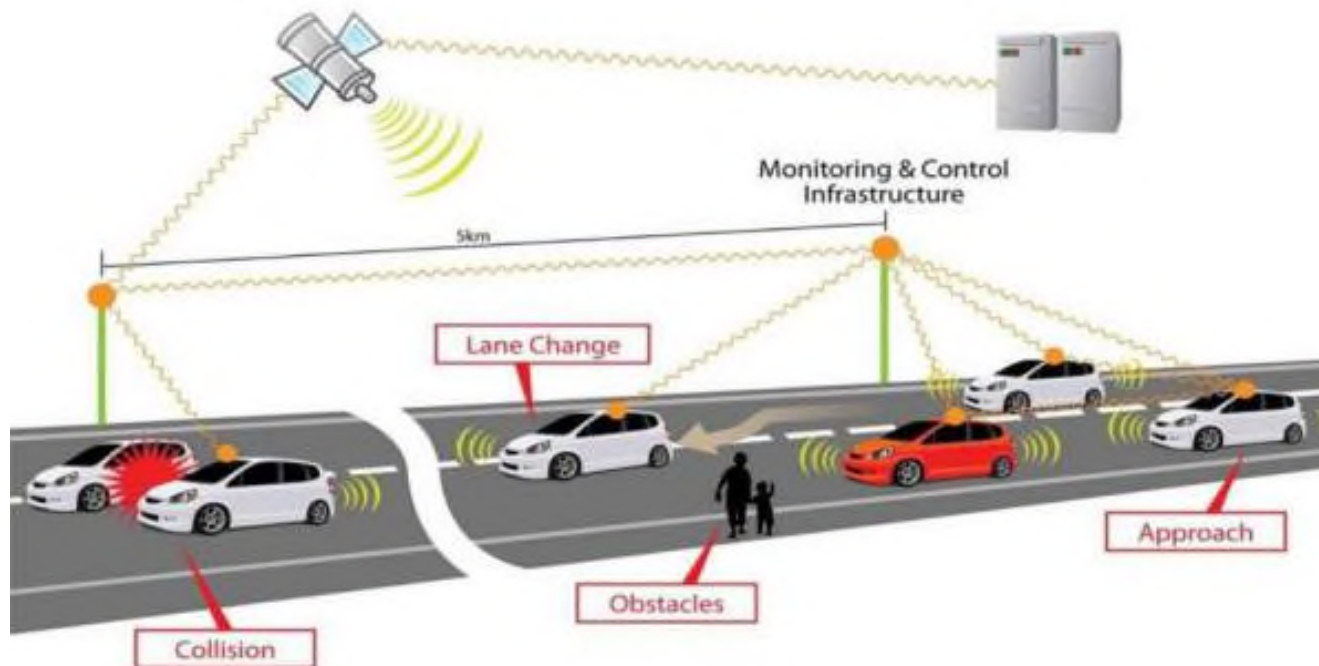
# DATA TRANSMISSION 'TALKING TO OUR FIRETRUCK...'





Figures ISO/ Kurt Vollmacher

## BASED ON VEHICLE TO VEHICLE: V2V



Vehicle to Infrastructure Technology. Image  
Credit: Automobile Innovations

## IDEA: VEHICLE TO FIRE TRUCK: V2FT

- Black boxes/ in-vehicle data recorders (MOBILITY AND TRANSPORT Road Safety European commission) = E CALL from 2018
- Based on Telemetry
- Signal can be read by first responders when approaching vehicle
- This by ordinary receiver in Fire Truck
- Free of charge and available for all first responders



# DATA SIGNAL CONTAINS

- No “HOT” information!!!
- Exact place: GPS Coordinates
- Time frame complete accident
- Brand and type vehicle
- Propulsion Type: ISO sign pops up
- Detection
  - Leaking substances (gas, liquid)
  - Seats
  - Smoke/Fire
  - Water inside vehicle
  - Noise (voice people,...)

## DATA Signal contains

- Number of persons in vehicle
- Position vehicle (on wheels/upside down...)
- Airbags diploid/seatbelts diploid/other
- ISO Rescue Sheet and ISO Rescue Guide from this vehicle
- Shut off state/ 3 D Image power lines, components in vehicle
- ...

## MORE INFORMATION?

**Contact:**

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[kurt.vollmacher@bwzc.be](mailto:kurt.vollmacher@bwzc.be)

