

MINI E. First Responder Information.



First Responder Information - USA. Summary.



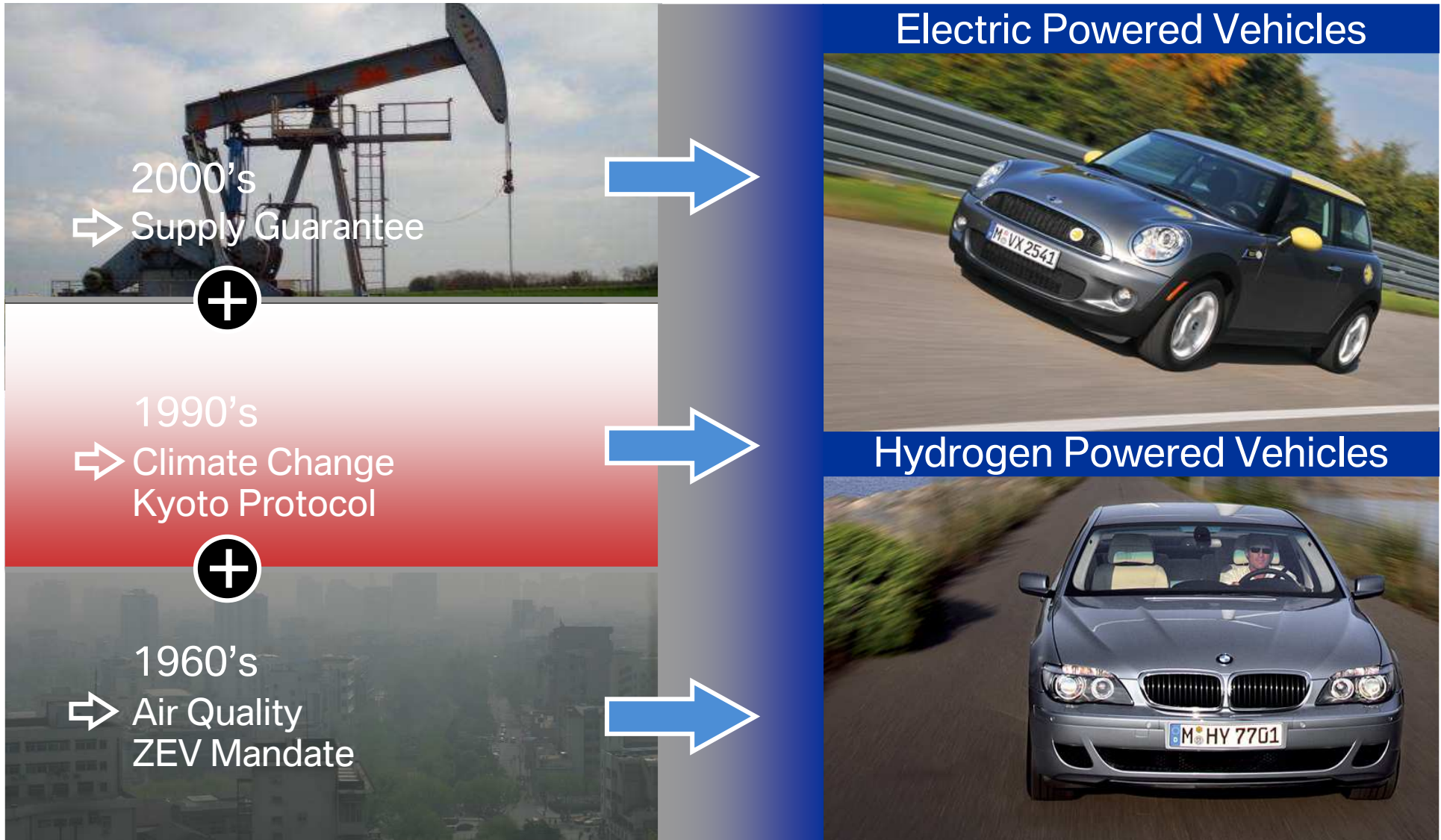
1. Motivation

2. MINI E

3. Safety Concept

4. Rescue Information

1. Motivation. Mobility for the Future.



2. MINI E. Result of almost 40 Years of R&D.



- Approximately 500 equally designed vehicles for the USA
- 230 operated in the LA California area & 220 in NJ / NY City metro
- Car available for leasing starting June 2009
- Initial operation period of 12 months

2. MINI E. Identification.



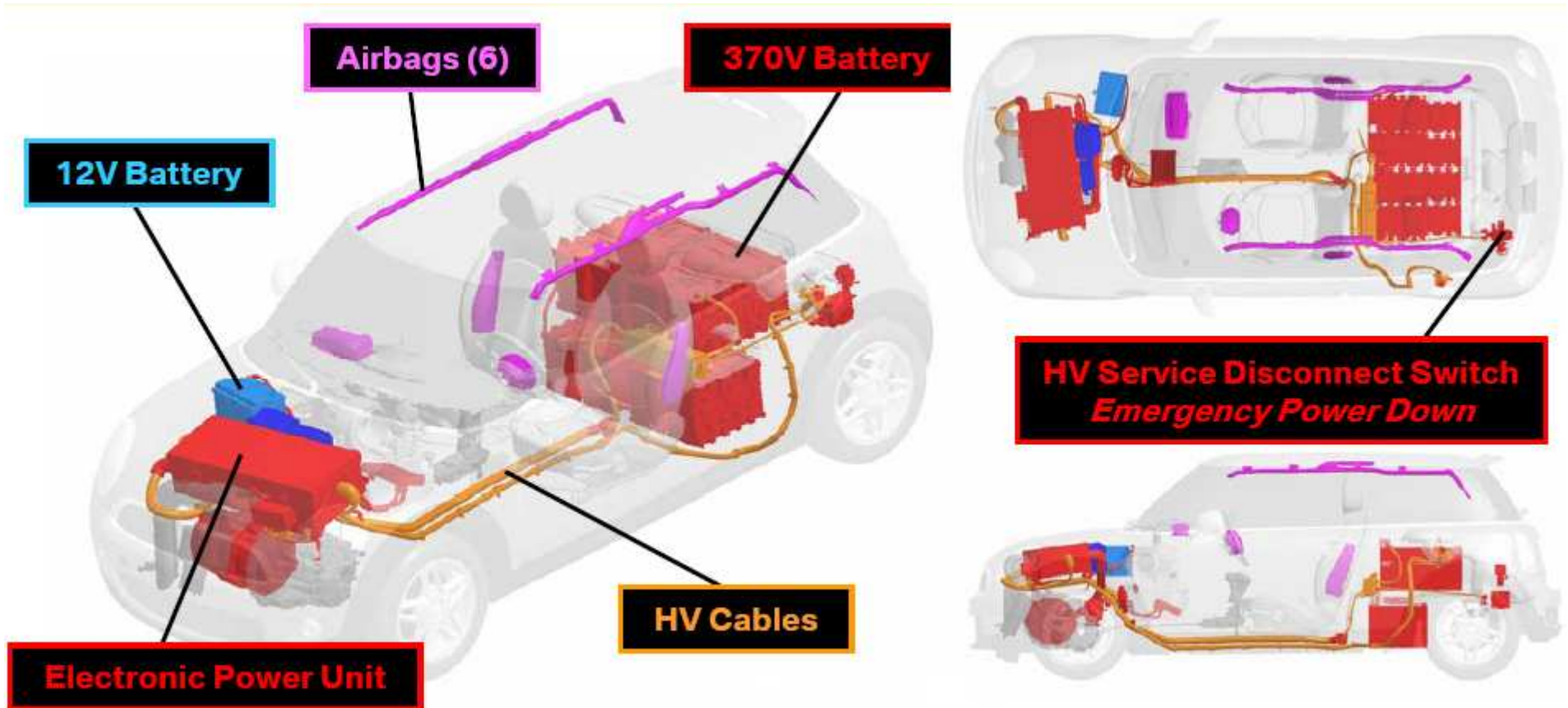
EXTERIOR

1	Electric Socket Logo	5	High Voltage Battery Charge Level Indicator
2	Individual Series Number	6	High Voltage Battery Case Compartment
3	Yellow Accents	7	High Voltage Service Disconnect Switch <i>Emergency Power Down</i>
4	Standard Grey Body Color		

INTERIOR

1	High Voltage Battery Charge Level Indicator
2	High Voltage Battery Case Compartment
3	High Voltage Service Disconnect Switch <i>Emergency Power Down</i>
4	High Voltage Battery Charge Level Indicator
5	High Voltage Battery Case Compartment
6	High Voltage Service Disconnect Switch <i>Emergency Power Down</i>
7	High Voltage Service Disconnect Switch <i>Emergency Power Down</i>

2. MINI E. Location of Key Components.



3. Safety Concept. Electricity Detection.



Voltage cannot be detected by human senses!

It has:

- **no** smell
- **no** color
- **no** taste

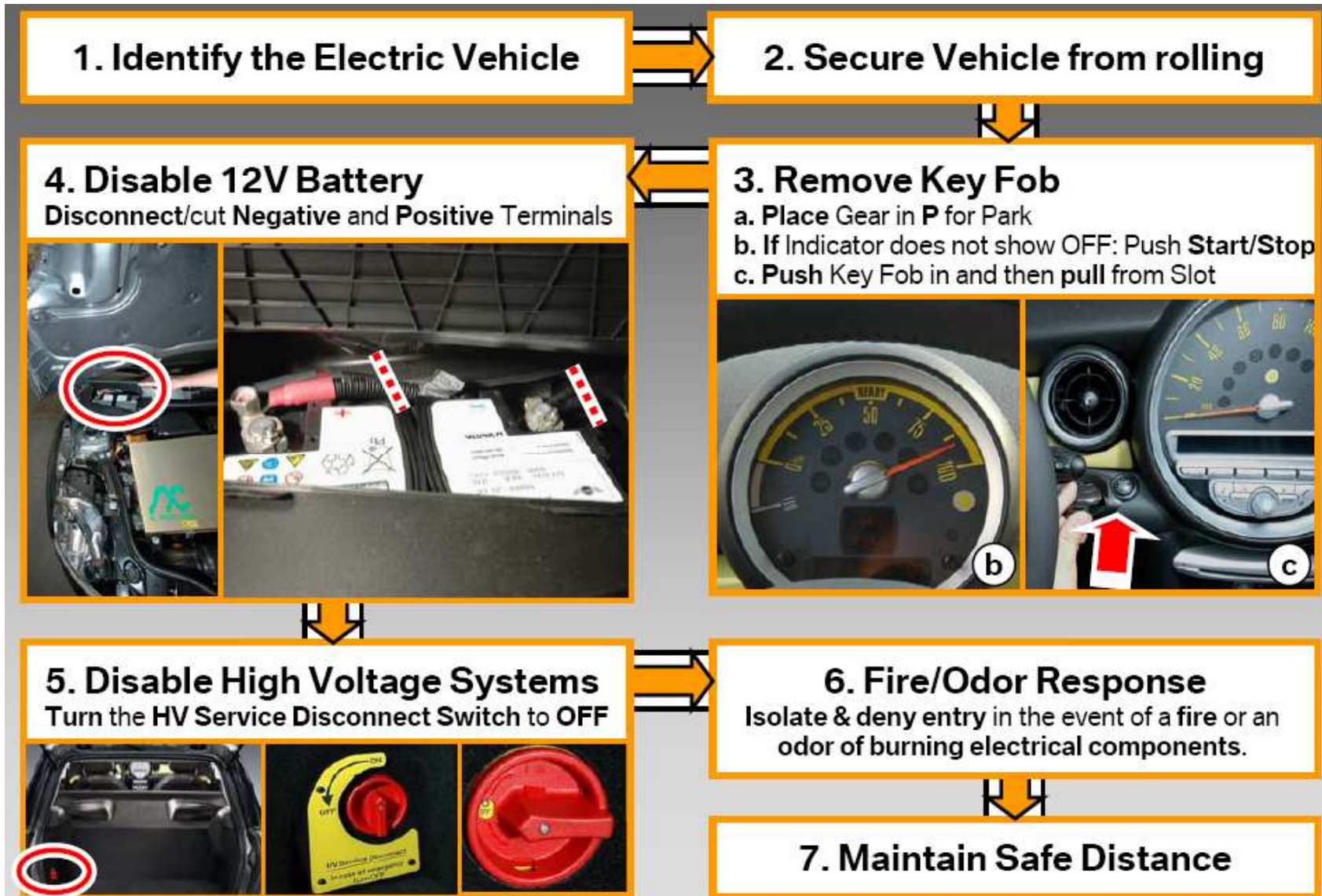
3. Safety Concept.

System & Component Testing.

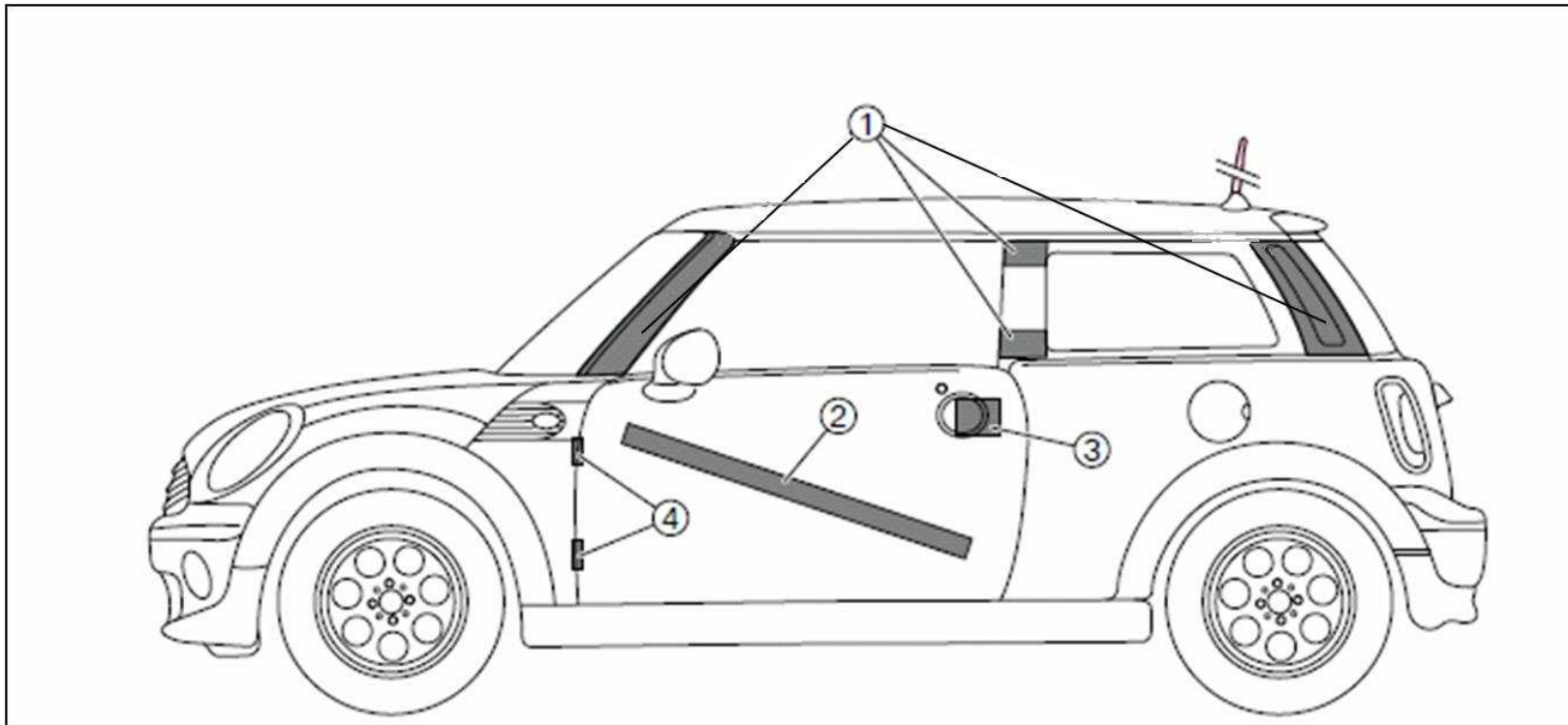


- **Accident causes a disconnection from the battery to the entire High Voltage System**
- **Energy storage unit is encased and protected by 3 boxes**
- **Isolation measurement for electrical leakage**
- **Redundancy (mechanical and electrical)**
- **9 front, 5 side, 4 rear-end crash tests**
=> safety characteristics which fully comply with the stringent BMW Group standards for the development of series production vehicles
- **Redundant tests in production line for electrical safety**

4. Rescue Information. Rescue Procedure.



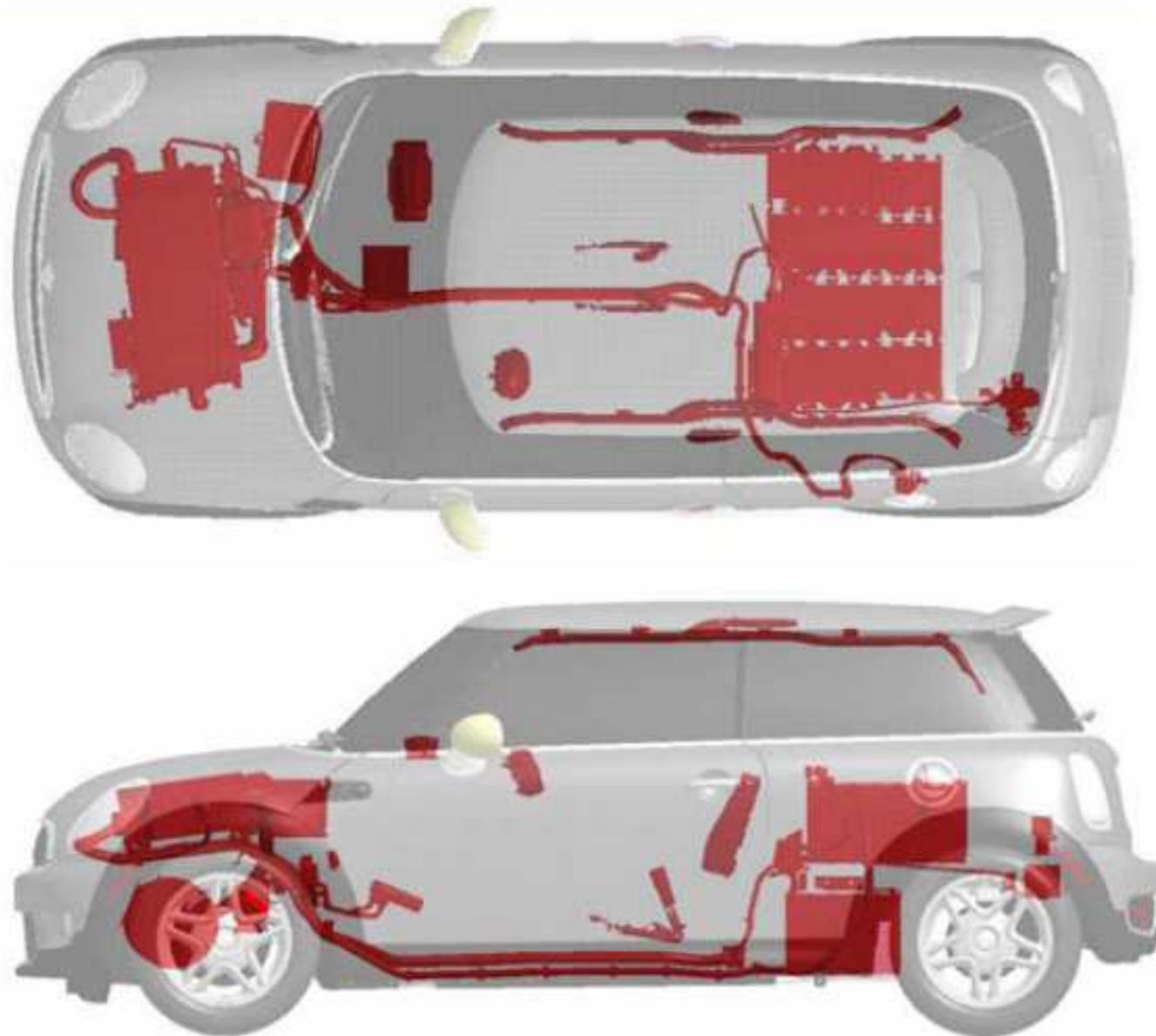
4. Rescue Information. Opening the vehicle.



- 1 surfaces indicate the areas from where the roof can be removed
- 2 side-impact protection (diagonal)
- 3 door locks
- 4 door hinge

4. Rescue Information.

Do **not cut** zones.



4. Rescue Information.

Lithium Ion battery safety information.



The HV Battery contains Lithium Hexafluorophosphate:
Harmful if swallowed, inhaled, or absorbed through the skin.

**Utilize self-contained breathing apparatus (SCBA)
and firefighting protective clothing in a defensive mode
(uphill, upwind, upstream).**

Firefighting:

- **Dry chemical, CO₂, water or regular foam**
- **Cool down battery and adjacent structures with water from a safe distance**

Spill or Leak:

- **Eliminate all ignition sources**
- **Do not touch or walk through spilled material**
- **Absorb with earth, sand or other neutralizing substance**

MINI E. First Responder Training USA.



Thank you

