

# Ducati Multistrada DI Air®

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The FIM Europe Road Safety Conference

July the 4<sup>th</sup>, 2014

Sheraton Hotel, Cracow



Federico Sabbioni

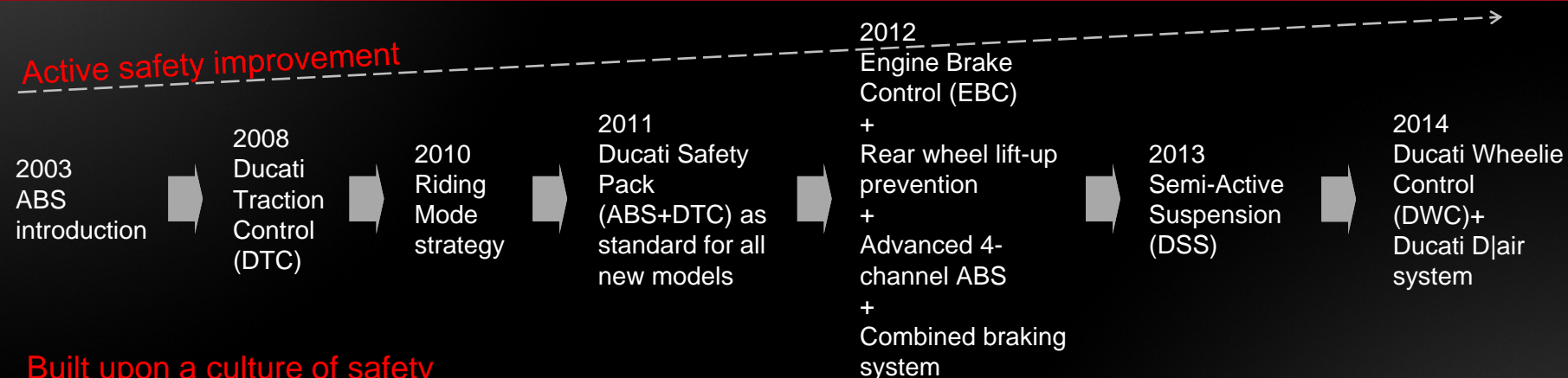
Head of Vehicle Project Management, Ducati Motor Holding

MULTISTRADA  
1200  
Dair



## Ducati safety commitment

### Active safety improvement



### Built upon a culture of safety

#### Educational Commitment



#### Promotional commitment



#### Political Commitment



## System overview

MULTISTRADA  
1200S  
D|air®

### Ducati D|air® Street system





## Requirements for an effective airbag safety system

- Intervention time < 80 ms
- Must protect the vital body parts exposed to impact
- Must operate in all accident scenarios
- Must operate only when necessary and without any side-effects
- Must be ergonomic

Until now, a motorcycle with airbag jacket system satisfying the above list did not exist



# Technology

MULTISTRADA  
1200S  
Dair®

## Ducati D|air® Street system integration



## Technology

MULTISTRADA  
1200S  
**Dair**

### Ducati D|air® Street system integration



## Technology

MULTISTRADA  
1200S  
D|air®

### Ducati D|air® Street system integration

Double back-up systems:

- Double sensors
- Double radio connections

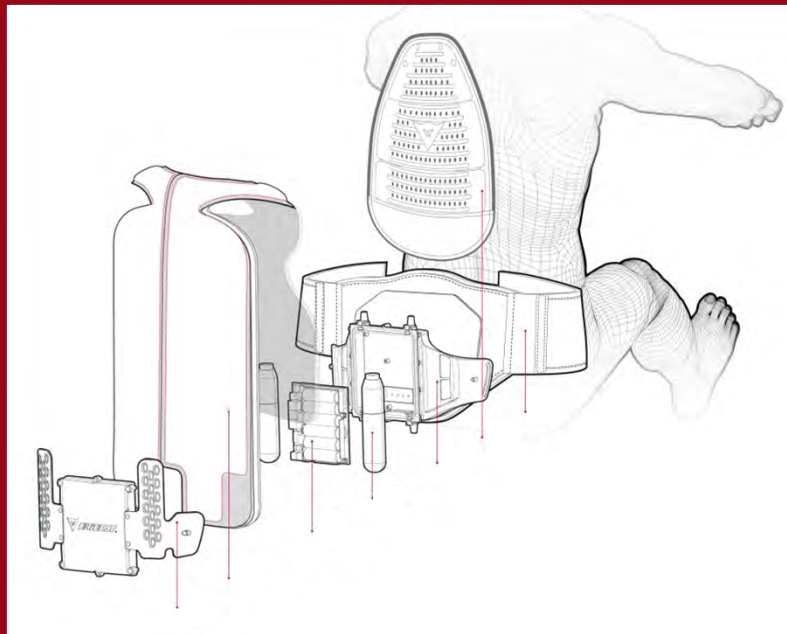




## Technology

MULTISTRADA  
1200S  
Dair®

### Ducati D|air® Street apparel by Dainese



- 2-high pressure 3-dimensional structure air-bags
- 2 'cold' technology gas generators
- 2 radio frequencies with bi-directional communication



Technology

MULTISTRADA  
1200S  
D|air®

Ducati D|air® Street apparel by Dainese



+ 1.5 kg



Jacket



Vest



## D|air® Street performance

MULTISTRADA  
1200S  
D|air®

### Protection



Collar bone



Back



Chest



## D|air® Street performance

MULTISTRADA  
1200S  
D|air®

### Protection - Transmitted Force Reduction

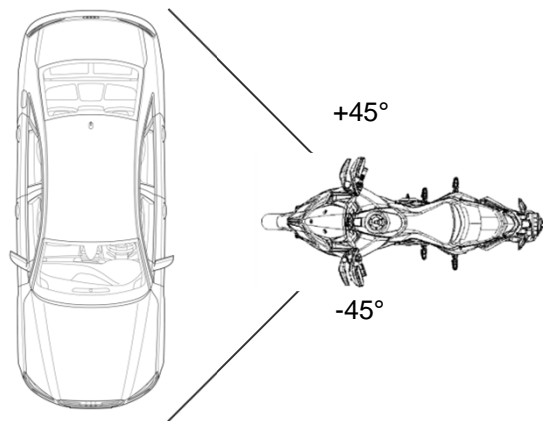




## System performance

MULTISTRADA  
1200S  
Dair

### Road Accident Scenarios



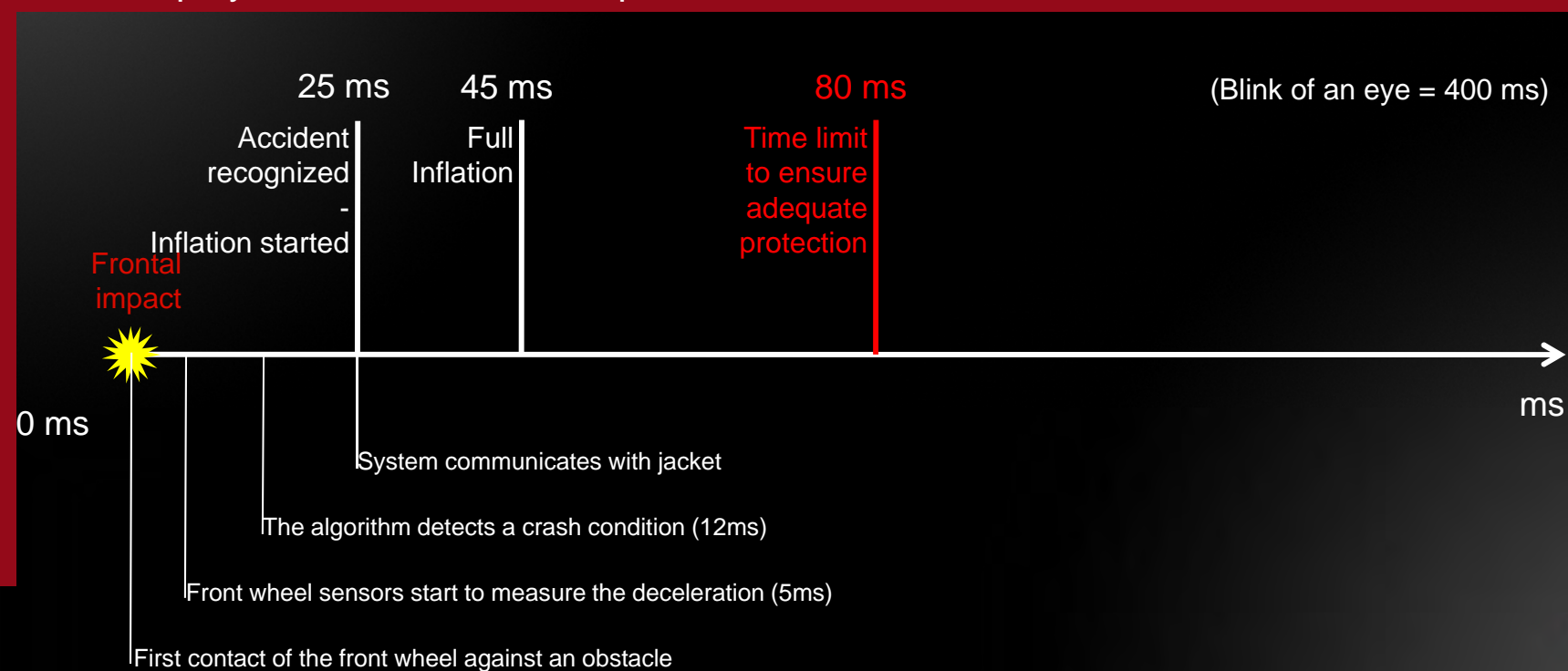
Frontal impact



## System performance

MULTISTRADA  
1200S  
Dair

### 45 ms Deployment Time - Direct impact

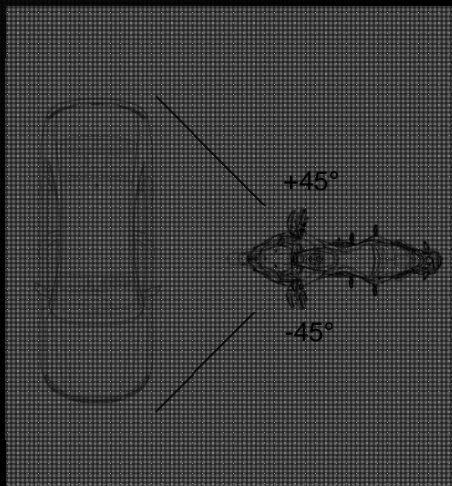


## System performance

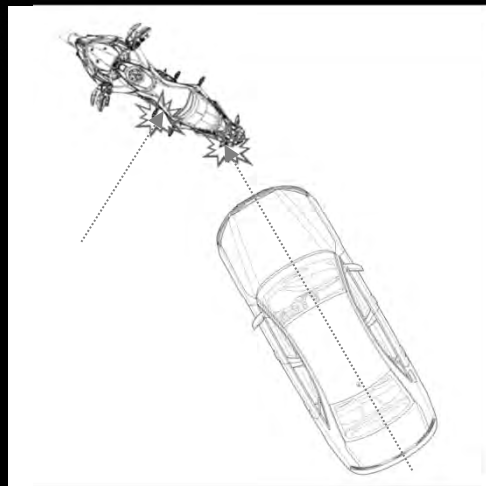
MULTISTRADA  
1200S  
Dair

### Road Accident Scenarios

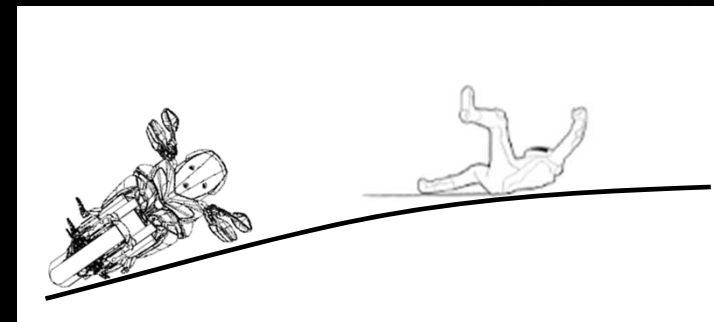
Frontal impact



Rear and side impact



Slide and impact



Speed > 10 km/h

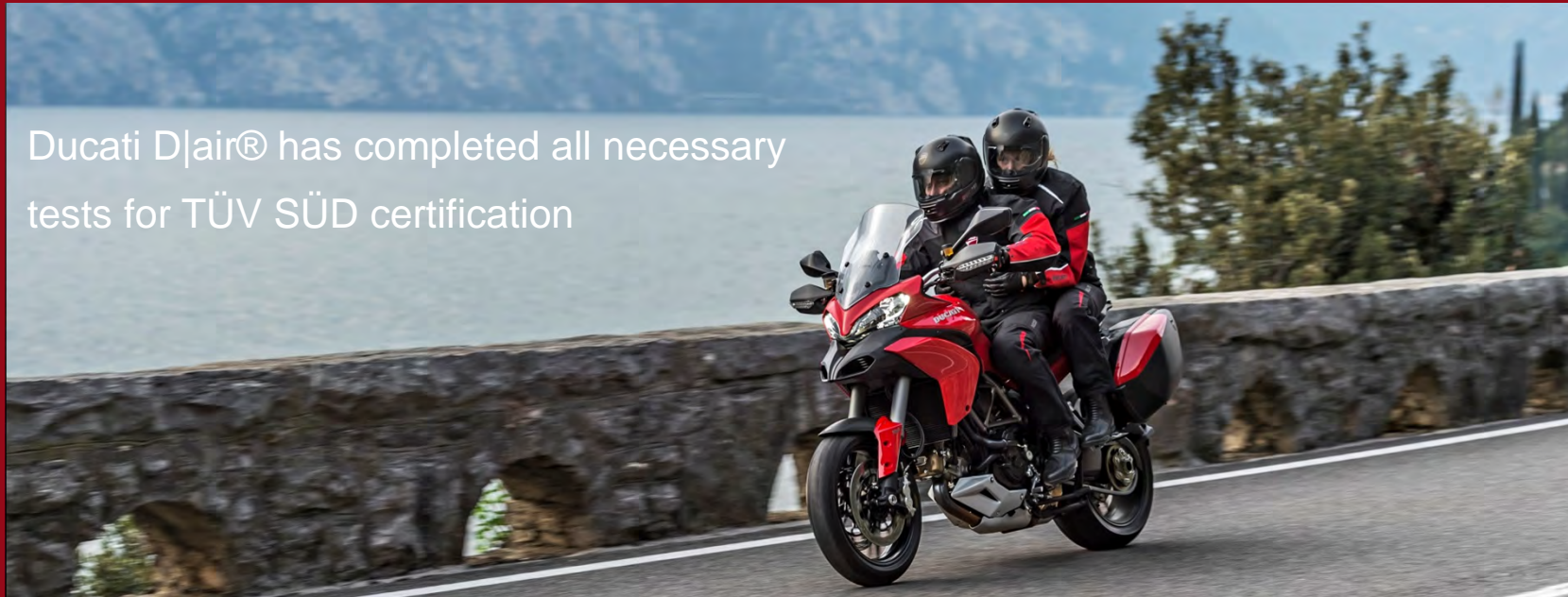


Ducati built quality

MULTISTRADA  
1200S  
D|air®

## Certification

Ducati D|air® has completed all necessary tests for TÜV SÜD certification





# Ducati built quality

## Certification

**MULTISTRADA**  
**1200S**  
**Dair**

AV 104 13

ZERTIFIKAT ♦ CERTIFICATE ♦ 認証証書 ♦ CERTIFICADO ♦ CERTIFICAT

  
Product Service

**EC-Type Examination Certificate**  
No. P6 14 05 65854 008

**Holder of Certificate:** Dainese S.p.A.  
Via dell'Artigianato 35  
36060 Molvena VI  
ITALY

**Product:** Sports Protection Equipment  
Airbag protective system, PPP 63103A

This EC-Type Examination Certificate is issued according to Article 10 of Council Directive 89/686/EEC for personal protective equipment as classified in Article 8 (PPE of category 2). It confirms that the listed product fulfills the basic requirements as specified in Annex II of the Directive. This certificate refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification and on its technical documentation. See also notes overleaf.

**Test report no.:** 028-713042277

**Valid until:** 2019-05-27

**Date,** 2014-05-30   
(Thomas Maier)

  
612901

TÜV SÜD Product Service GmbH is Notified Body according to Council Directive 89/686/EEC for personal protective equipment, notified by publication in the Official Journal of the EC No. C 203/44 dated July 07th, 1994 with identification No. 0123.

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## Ducati D|air® Street system

MULTISTRADA  
1200S  
D|air®

### Owner benefits



- Improved protection against all type of impacts
- Operates only when necessary
- Has the usual high quality standards of an Original Equipment Manufacturer



Version

MULTISTRADA  
1200 S  
D|air

## Multistrada 1200 S Touring D|air



- Engine: Testastretta 11° DS 1200, 150 hp
- Electronic features:
  - Ducati Traction Control (DTC)
  - Multi-level ABS
  - Ducati Skyhook Suspension (DSS)
  - Riding Modes
  - Ride-by-Wire
  - D|air
- Touring oriented features:
  - Hands-free ignition
  - Heated grips
  - 58 litre side luggage
  - Centre-stand
- Colour: red

Available in European Ducati Dealerships from May 2014 onwards





Thanks for your attention