



# **State of play of the recall actions related to NO<sub>x</sub> emissions**

This document has been prepared by the Commission Services based on the contributions by the Member States (Type Approval Authorities), in the context of the request by Commissioner Bienkowska of 17 July 2017. It provides a progress overview on the recall initiatives related to NO<sub>x</sub> emissions, as last updated on 23 January 2018.

# Voluntary and mandatory recall campaigns of VW group vehicles

| Member State         | mandatory recalls <sup>1</sup> | voluntary recalls <sup>2</sup> |
|----------------------|--------------------------------|--------------------------------|
| AUSTRIA <sup>3</sup> | VW, Audi, Seat, Škoda          | Porsche                        |
| BELGIUM              |                                | VW, Audi, Seat, Škoda, Porsche |
| BULGARIA             | no info provided               |                                |
| CROATIA              |                                | VW, Audi, Seat, Škoda, Porsche |
| CYPRUS               |                                | VW, Audi, Seat, Škoda, Porsche |
| CZECH REPUBLIC       |                                | VW, Audi, Seat, Škoda          |
| DENMARK              | VW, Audi, Seat, Škoda          |                                |
| ESTONIA              |                                | Audi, Seat, Škoda              |
| FINLAND <sup>3</sup> | VW, Audi                       | Seat, Škoda, Porsche           |
| FRANCE <sup>3</sup>  | VW, Audi, Seat, Škoda          | Porsche                        |
| GERMANY              | VW, Audi, Seat, Škoda          |                                |
| GREECE               |                                | VW, Audi, Seat, Škoda          |
| HUNGARY              | no info provided               |                                |
| IRELAND              | no info provided               |                                |
| ITALY                |                                | VW, Audi, Seat Škoda           |
| LITHUANIA            |                                | VW, Audi, Seat, Škoda, Porsche |
| LUXEMBOURG           |                                | VW, Audi, Seat, Škoda, Porsche |
| LATVIA               |                                | VW, Audi, Škoda                |
| MALTA                |                                | VW, Audi, Seat, Škoda          |
| NETHERLANDS          | VW, Audi, Seat, Škoda          |                                |
| POLAND               |                                | VW, Audi, Seat, Škoda          |
| PORTUGAL             | VW, Audi, Seat, Škoda, Porsche |                                |
| ROMANIA              |                                | VW, Audi, Seat, Škoda, Porsche |
| SLOVAKIA             |                                | VW, Audi, Seat, Škoda          |
| SLOVENIA             | no info provided               |                                |
| SPAIN                |                                | VW, Audi, Seat, Škoda          |
| SWEDEN               | no info provided               |                                |
| UK                   |                                | VW, Audi, Seat, Škoda          |

<sup>1</sup> A mandatory recall is a remedial measure, which is carried out under the control of the Member State (Type-Approval Authority).

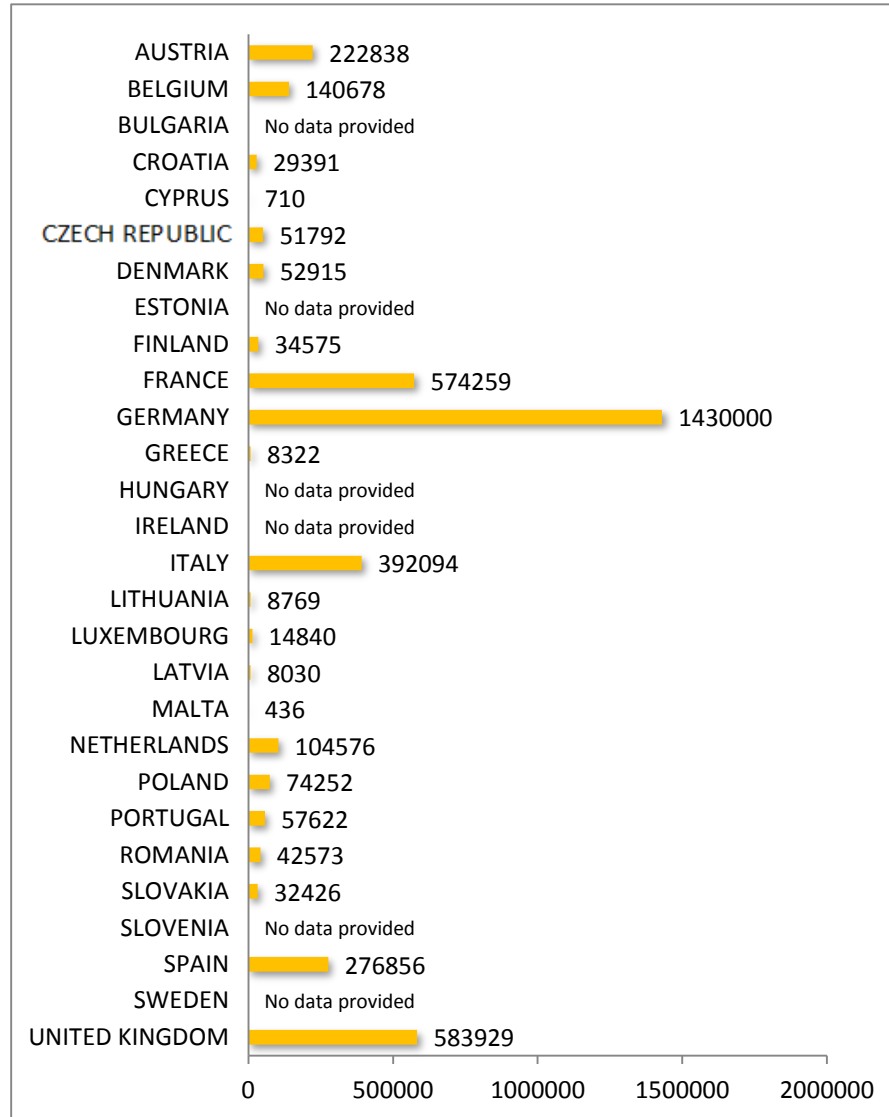
<sup>2</sup> A voluntary recall action is a remedial measure, which is carried out under the control of the vehicle manufacturer and/or distributor.

<sup>3</sup> Whether a recall is mandatory or voluntary is decided by the Member State for each individual case.

## **Data of the VW group by brand**

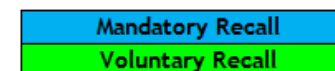
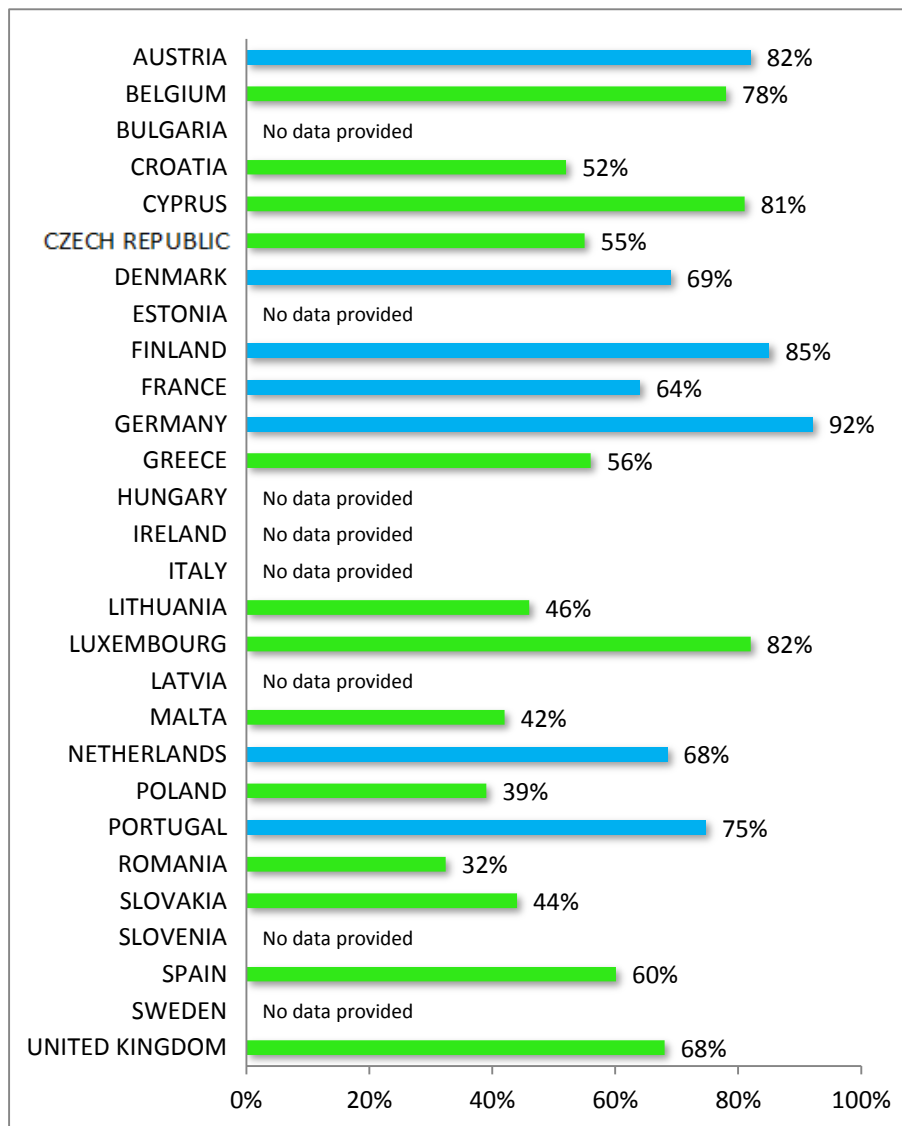
# Volkswagen

## Number of total vehicles concerned by the recalls



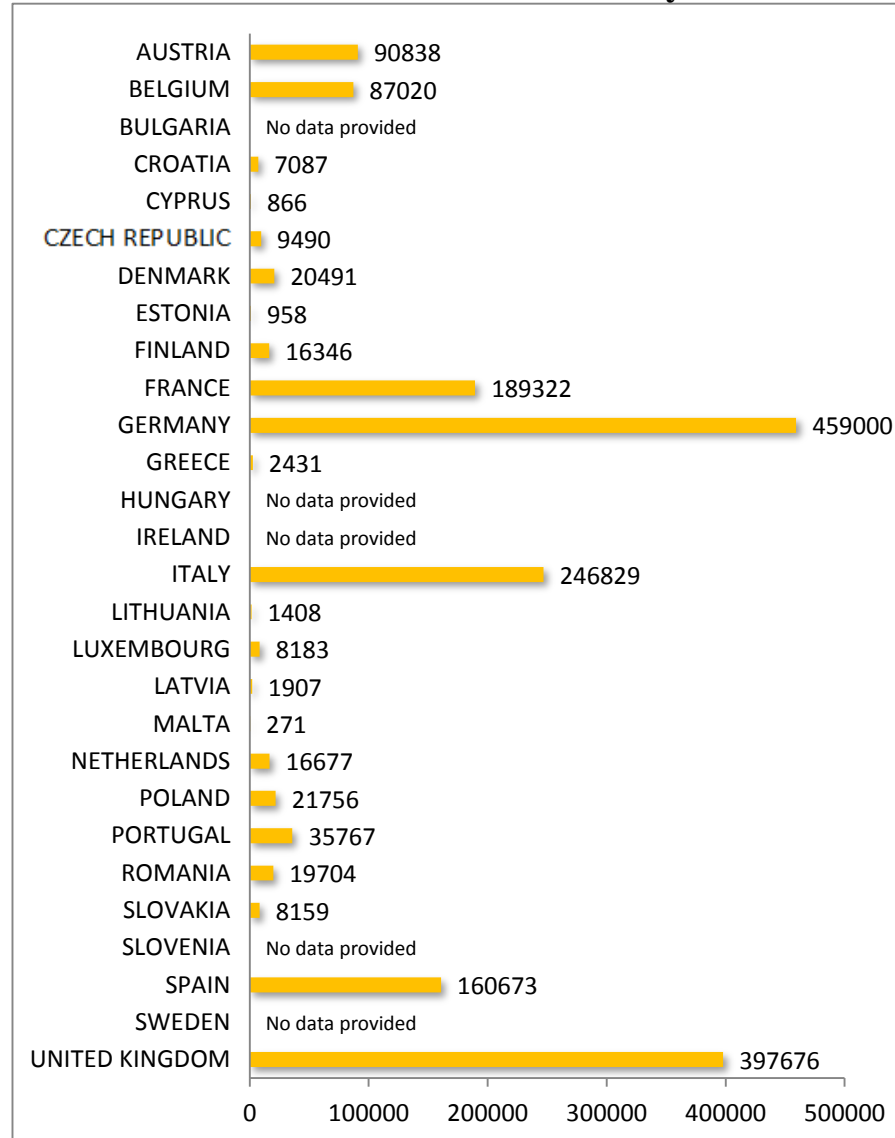
# Volkswagen

## Percentage of recalls carried out



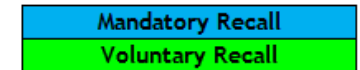
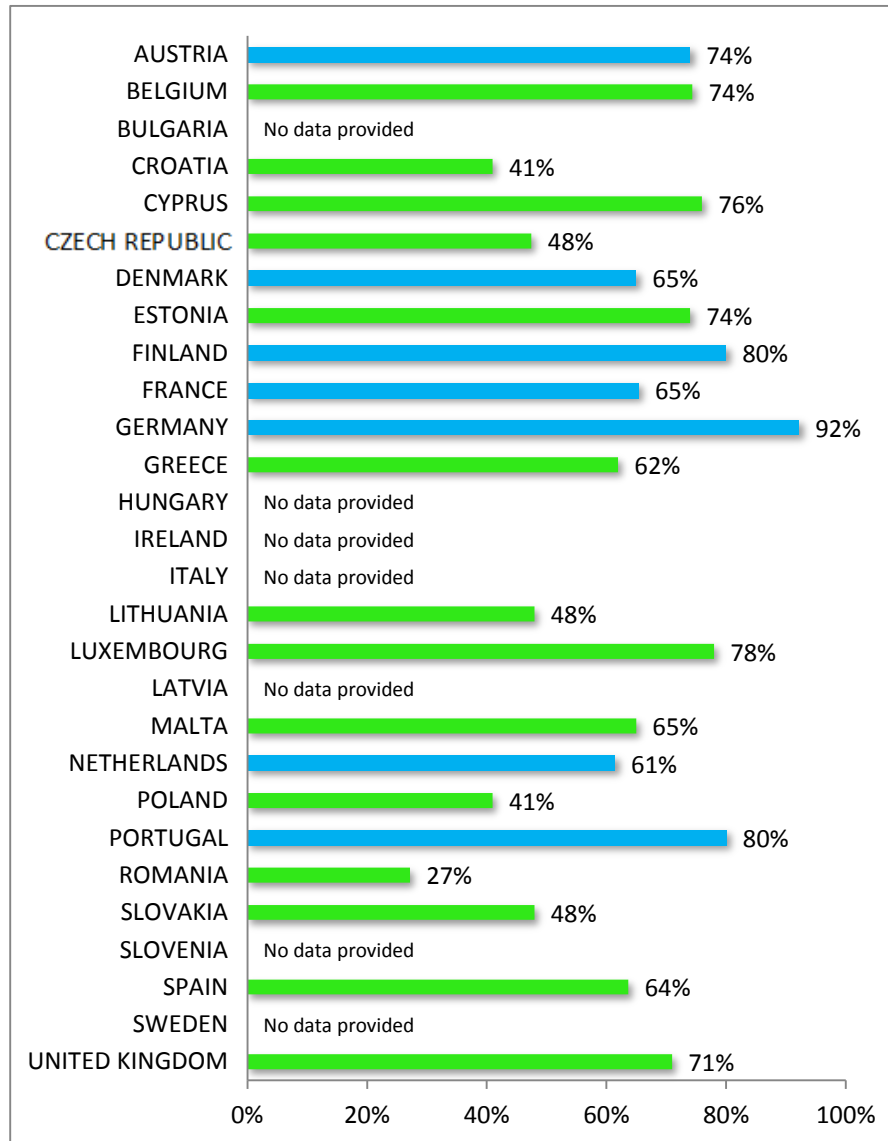
# Audi

## Number of total vehicles concerned by the recalls



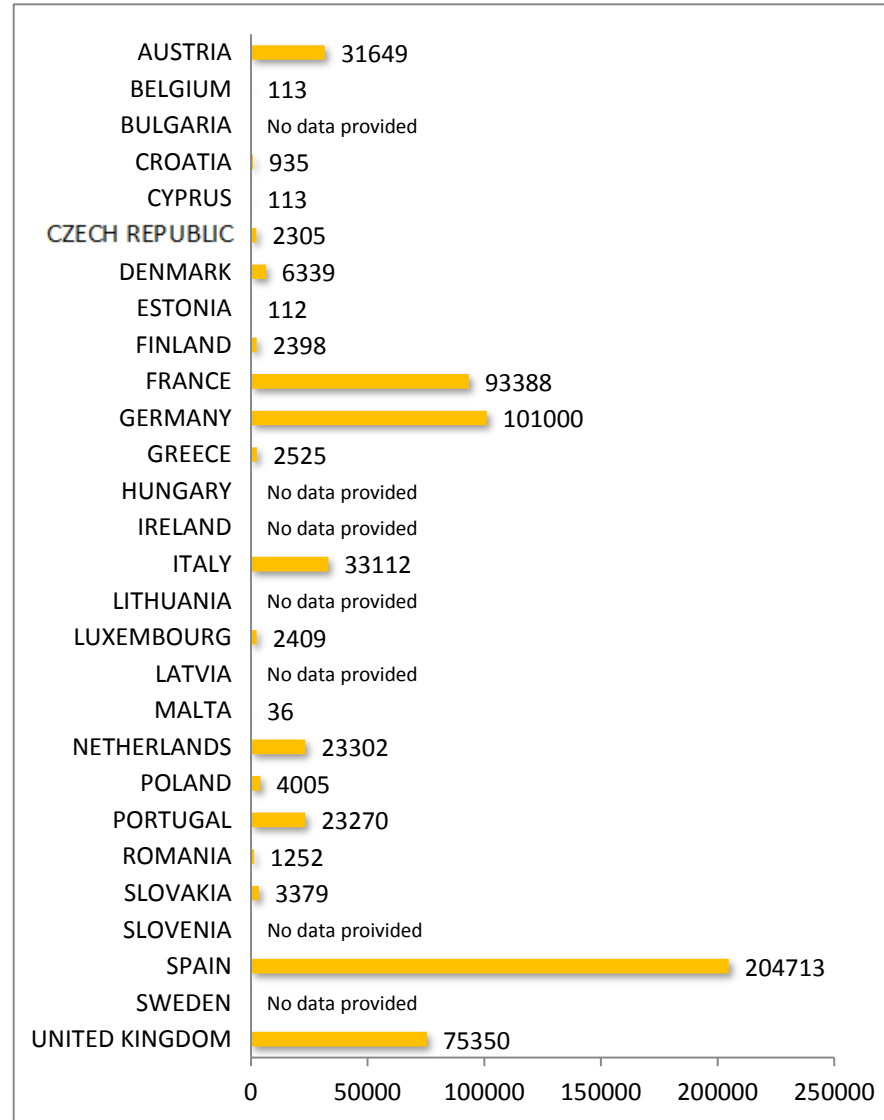
# Audi

## Percentage of recalls carried out



# Seat

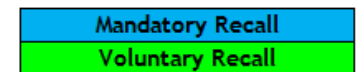
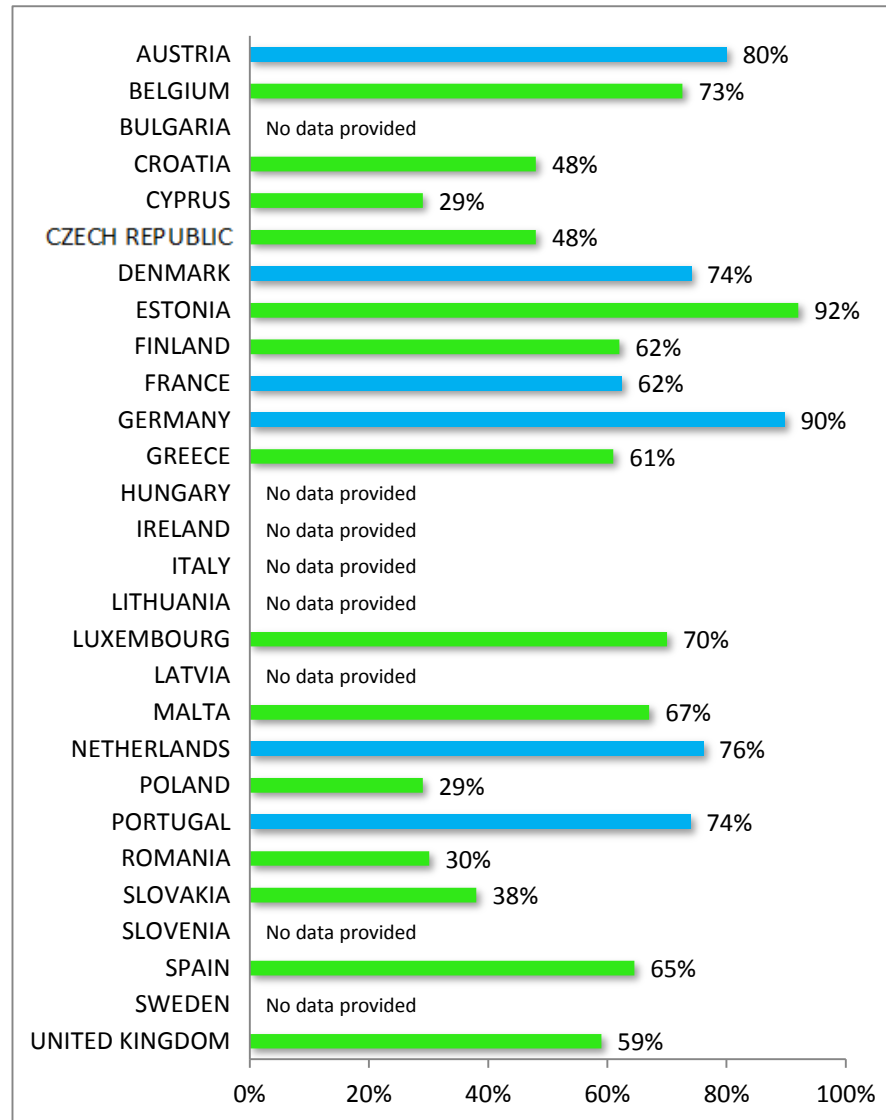
## Number of total vehicles concerned by the recalls





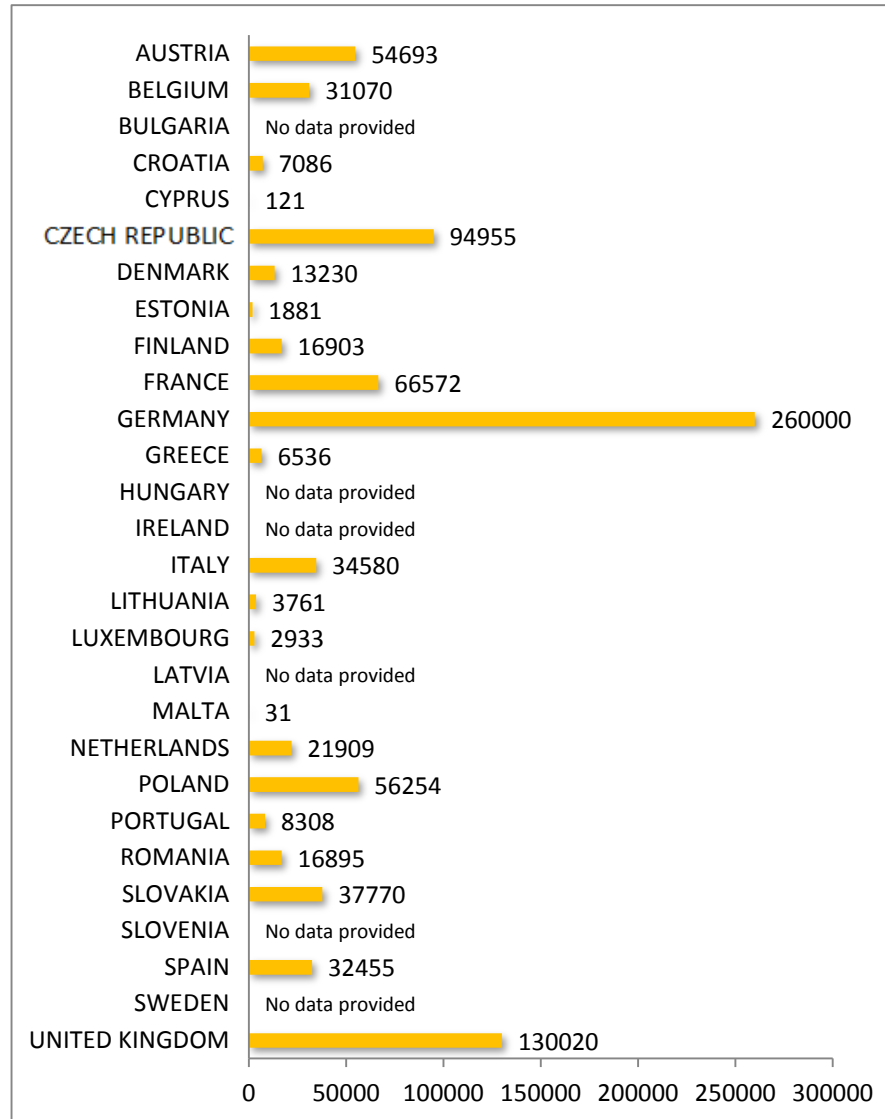
# Seat

## Percentage of recalls carried out



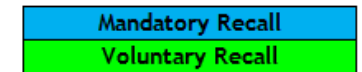
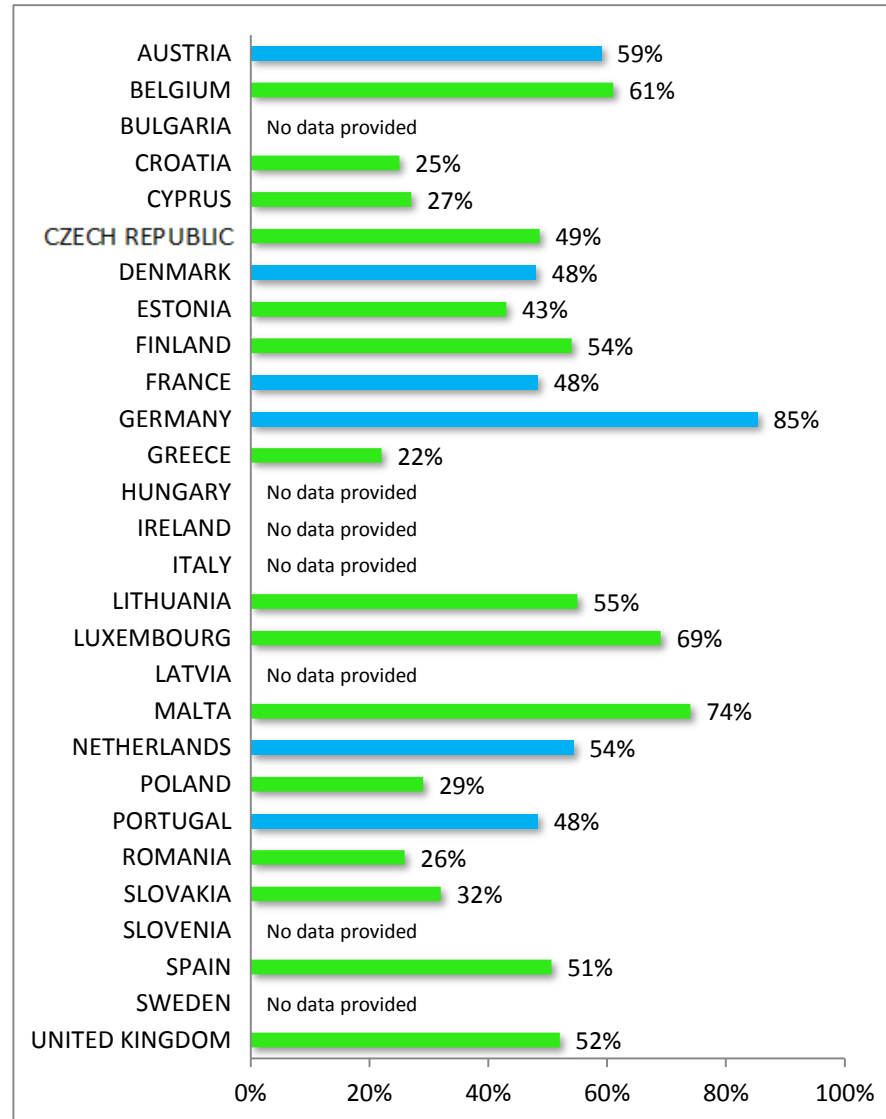
# Škoda

## Number of total vehicles concerned by the recalls



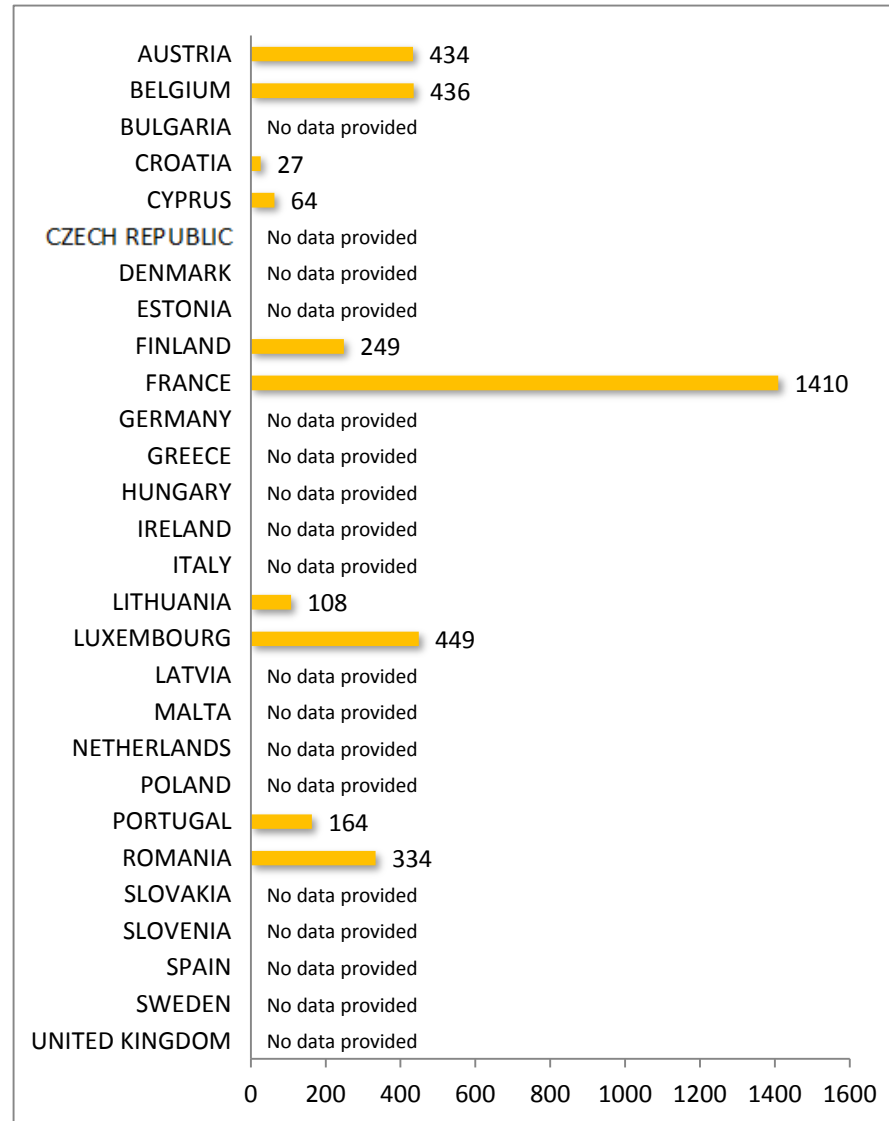
# Škoda

## Percentage of recalls carried out



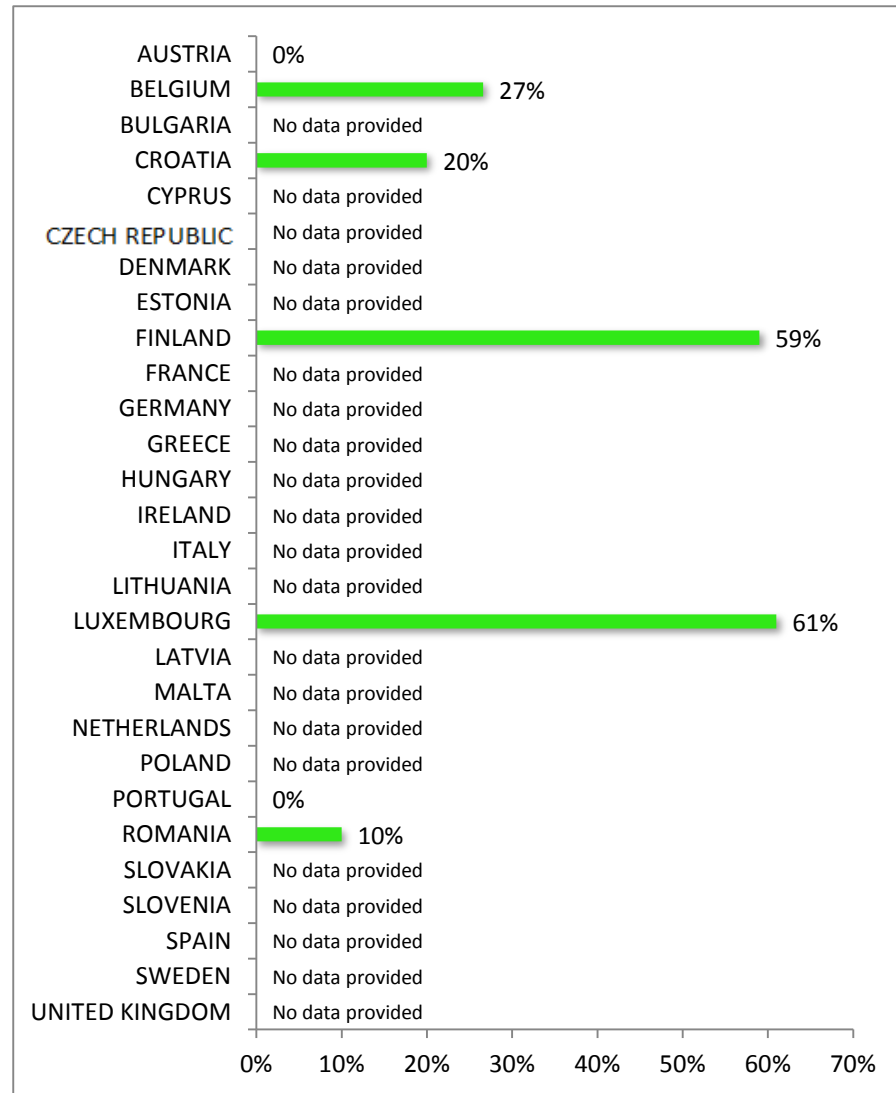
# Porsche

## Number of total vehicles concerned by the recalls



# Porsche

## Percentage of recalls carried out<sup>4</sup>



<sup>4</sup> The recalls for Porsche vehicles were very recently announced by Austria (voluntary recall) and by Portugal (mandatory recall).

## **Data of the VW group by Member State**

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Austria      | VW      | 222838                            | 82                     |
|              | AUDI    | 90838                             | 74                     |
|              | SEAT    | 31649                             | 80                     |
|              | Škoda   | 54693                             | 59                     |
|              | Porsche | 434                               | 0                      |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Belgium      | VW      | 140678                            | 78                     |
|              | AUDI    | 87020                             | 74.4                   |
|              | SEAT    | 15753                             | 72.6                   |
|              | Škoda   | 31070                             | 61                     |
|              | Porsche | 436                               | 26.6                   |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Bulgaria     | VW      | No data provided                  |                        |
|              | AUDI    |                                   |                        |
|              | SEAT    |                                   |                        |
|              | Škoda   |                                   |                        |
|              | Porsche |                                   |                        |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Croatia      | VW      | 29391                             | 52                     |
|              | AUDI    | 7087                              | 41                     |
|              | SEAT    | 935                               | 48                     |
|              | Škoda   | 7086                              | 25                     |
|              | Porsche | 27                                | 20                     |

Last updated: October 2017

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Cyprus       | VW      | 710                               | 81                     |
|              | AUDI    | 866                               | 76                     |
|              | SEAT    | 113                               | 29                     |
|              | Škoda   | 121                               | 27                     |
|              | Porsche | 64                                | 0                      |

Last updated: October 2017

| Member State   | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|----------------|---------|-----------------------------------|------------------------|
| Czech Republic | VW      | 51792                             | 55                     |
|                | AUDI    | 9490                              | 47.5                   |
|                | SEAT    | 2305                              | 48                     |
|                | Škoda   | 94955                             | 48.6                   |
|                | Porsche | No data provided                  |                        |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Denmark      | VW      | 52915                             | 69                     |
|              | AUDI    | 20491                             | 65                     |
|              | SEAT    | 6339                              | 74                     |
|              | Škoda   | 13230                             | 48                     |
|              | Porsche | No data provided                  |                        |

Last updated: December 2017

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Estonia      | VW      | No data                           | No data                |
|              | AUDI    | 958                               | 74                     |
|              | SEAT    | 112                               | 92                     |
|              | Škoda   | 1881                              | 43                     |
|              | Porsche | No data provided                  |                        |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Finland      | VW      | 34575                             | 85                     |
|              | AUDI    | 16346                             | 80                     |
|              | SEAT    | 2398                              | 62                     |
|              | Škoda   | 16903                             | 54                     |
|              | Porsche | 249                               | 59                     |

Last updated: December 2017

|                  |
|------------------|
| Mandatory Recall |
| Voluntary Recall |

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| France       | VW      | 574259                            | 64                     |
|              | AUDI    | 189322                            | 65.4                   |
|              | SEAT    | 93388                             | 62.4                   |
|              | Škoda   | 66572                             | 48.3                   |
|              | Porsche | 1410                              | No data                |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Germany      | VW      | 1430000                           | 92.1                   |
|              | AUDI    | 459000                            | 92.2                   |
|              | SEAT    | 101000                            | 89.7                   |
|              | Škoda   | 260000                            | 85.3                   |
|              | Porsche | No data provided                  |                        |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Greece       | VW      | 8322                              | 56                     |
|              | AUDI    | 2431                              | 62                     |
|              | SEAT    | 2525                              | 61                     |
|              | Škoda   | 6536                              | 22                     |
|              | Porsche | No data provided                  |                        |

Last updated: October 2017

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Hungary      | VW      | No data provided                  |                        |
|              | AUDI    |                                   |                        |
|              | SEAT    |                                   |                        |
|              | Škoda   |                                   |                        |
|              | Porsche |                                   |                        |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Ireland      | VW      | No data provided                  |                        |
|              | AUDI    |                                   |                        |
|              | SEAT    |                                   |                        |
|              | Škoda   |                                   |                        |
|              | Porsche |                                   |                        |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Italy        | VW      | 392094                            | No data                |
|              | AUDI    | 246829                            | No data                |
|              | SEAT    | 33112                             | No data                |
|              | Škoda   | 34580                             | No data                |
|              | Porsche | No data provided                  |                        |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Lithuania    | VW      | 8769                              | 46                     |
|              | AUDI    | 1408                              | 48                     |
|              | SEAT    | No data provided                  |                        |
|              | Škoda   | 3761                              | 55                     |
|              | Porsche | 108                               | 0                      |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Luxembourg   | VW      | 14840                             | 82                     |
|              | AUDI    | 8183                              | 78                     |
|              | SEAT    | 2409                              | 70                     |
|              | Škoda   | 2933                              | 69                     |
|              | Porsche | 449                               | 61                     |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Latvia       | VW      | 8030                              | No data                |
|              | AUDI    | 1907                              | No data                |
|              | SEAT    | No data provided                  |                        |
|              | Škoda   |                                   |                        |
|              | Porsche |                                   |                        |

Last updated: January 2018

|                  |
|------------------|
| Mandatory Recall |
| Voluntary Recall |



| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Malta        | VW      | 436                               | 42                     |
|              | AUDI    | 271                               | 65                     |
|              | SEAT    | 36                                | 67                     |
|              | Škoda   | 31                                | 74                     |
|              | Porsche | No data provided                  |                        |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Netherlands  | VW      | 104576                            | 68.45                  |
|              | AUDI    | 16677                             | 61.43                  |
|              | SEAT    | 23302                             | 76.06                  |
|              | Škoda   | 21909                             | 54.32                  |
|              | Porsche | No data provided                  |                        |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Poland       | VW      | 74252                             | 39                     |
|              | AUDI    | 21756                             | 41                     |
|              | SEAT    | 4005                              | 29                     |
|              | Škoda   | 56254                             | 29                     |
|              | Porsche | No data provided                  |                        |

Last updated: December 2017

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Portugal     | VW      | 57622                             | 74.7                   |
|              | AUDI    | 35767                             | 80.1                   |
|              | SEAT    | 23270                             | 73.9                   |
|              | Škoda   | 8308                              | 48.3                   |
|              | Porsche | 164                               | 0                      |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Romania      | VW      | 42573                             | 32.4                   |
|              | AUDI    | 19704                             | 27.2                   |
|              | SEAT    | 1252                              | 30.1                   |
|              | Škoda   | 16895                             | 25.9                   |
|              | Porsche | 334                               | 10                     |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Slovakia     | VW      | 32426                             | 44                     |
|              | AUDI    | 8159                              | 48                     |
|              | SEAT    | 3379                              | 38                     |
|              | Škoda   | 37770                             | 32                     |
|              | Porsche | No data provided                  |                        |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Slovenia     | VW      | No data provided                  |                        |
|              | AUDI    |                                   |                        |
|              | SEAT    |                                   |                        |
|              | Škoda   |                                   |                        |
|              | Porsche |                                   |                        |

Last updated: January 2018

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Spain        | VW      | 276856                            | 60.1                   |
|              | AUDI    | 160673                            | 63.7                   |
|              | SEAT    | 204713                            | 64.5                   |
|              | Škoda   | 32455                             | 50.6                   |
|              | Porsche | No data provided                  |                        |

Last updated: December 2017

| Member State | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|--------------|---------|-----------------------------------|------------------------|
| Sweden       | VW      | No data provided                  |                        |
|              | AUDI    |                                   |                        |
|              | SEAT    |                                   |                        |
|              | Škoda   |                                   |                        |
|              | Porsche |                                   |                        |

Last updated: January 2018

|                  |
|------------------|
| Mandatory Recall |
| Voluntary Recall |

| Member State   | Brand   | Number of vehicles to be recalled | % of upgraded vehicles |
|----------------|---------|-----------------------------------|------------------------|
| United Kingdom | VW      | 581167                            | 71.2                   |
|                | AUDI    | 396658                            | 74                     |
|                | SEAT    | 75352                             | 62                     |
|                | Škoda   | 129621                            | 57.2                   |
|                | Porsche | No data provided                  |                        |

Last updated: January 2018

|                  |
|------------------|
| Mandatory Recall |
| Voluntary Recall |

## Data from other vehicle manufacturers<sup>5</sup>

| Renault              |                         |                                      |  |
|----------------------|-------------------------|--------------------------------------|--|
| Member State         | Voluntary/<br>Mandatory | Number of vehicles to be<br>recalled | % of recalled vehicles that<br>have been updated |
| AUSTRIA              | Voluntary in AT         | 149                                  | 37%  |
| NETHERLANDS          | Voluntary in NL         | 62                                   | 33.9%  |
| SLOVAKIA             | No info provided        | 6                                    | 100%   |
| FRANCE               | Mandatory in FR         | 6280 (FR)                            | 78%  |
|                      |                         | 5181 (rest of EU)                    | 70%  |
| FRANCE               | Voluntary in FR         | 480000 (FR)                          | 2.8%   |
|                      |                         | 950000 (rest of EU)                  | 1.3%   |
| Daimler              |                         |                                      |  |
| Member State         | Voluntary/<br>Mandatory | Number of vehicles to be<br>recalled | % of recalled vehicles that<br>have been updated |
| AUSTRIA              | Voluntary in AT         | 7041                                 | 54%  |
| Opel                 |                         |                                      |  |
| Member State         | Voluntary/<br>Mandatory | Number of vehicles to be<br>recalled | % of recalled vehicles that<br>have been updated |
| AUSTRIA              | Voluntary in AT         | 2934                                 | 8%   |
| Suzuki               |                         |                                      |  |
| EU-wide <sup>6</sup> | Mandatory in NL         | 41776                                | 95.2%  |

<sup>5</sup> This overview is based on the information provided by the Member States to the Commission Services. It may not be exhaustive.

<sup>6</sup> Data provided by the Netherlands