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**Employees, turnover and intramural R&D expenditure of enterprises, by economic activities and employment size classes<sup>1,2</sup>**

| Economic activity  |                  | 2015   |                       |                            |                 |                      | For information:<br>in the Eastern<br>German Länder<br>and Berlin |              |
|--------------------|------------------|--|-----------------------|----------------------------|-----------------|----------------------|---|--------------|
|                    |                  | Employees <sup>3</sup>   | Turnover <sup>3</sup> | Intramural R&D expenditure |                 |                      |   |              |
|                    |                  |  |                       | Total                      | Per<br>employee | Share of<br>turnover |   |              |
| 1,000              | Millions of €    | Millions of €  | Thousands<br>of €     | in %                       | Millions of €   |                      |   |              |
| <b>A</b>           | <b>01-03</b>     | <b>Agriculture, forestry and fishing</b>   | 6                     | 1,137                      | 150             | 26.7                 | 13.2  | 17           |
| <b>B</b>           | <b>05-09</b>     | <b>Mining and quarrying</b>  | 24                    | 4,119                      | 21              | 0.9                  | 0.5   | 2            |
| <b>C</b>           | <b>10-33</b>     | <b>Manufacturing</b>   | 3,331                 | 1,172,963                  | 51,913          | 15.6                 | 4.4   | 3,065        |
|                    | 10-12            | Manufacture of food products; manufacture of tobacco products  | 103                   | 42,473                     | 318             | 3.1                  | 0.7   | 12           |
|                    | 13-15            | Manufacture of textiles and wearing apparel; manufacture of leather and related products   | 28                    | 6,322                      | 91              | 3.2                  | 1.4   | 16           |
|                    | 16-18            | Manufacture of wood and products of wood and cork (except furniture); manufacture of paper and paper products; publishing, printing and reproduction of recorded media | 54                    | 14,612                     | 215             | 4.0                  | 1.5   | 43           |
|                    | 19               | Manufacture of coke and refined petroleum products   | 5                     | 37,872                     | 135             | 24.5                 | 0.4   | 0            |
|                    | 20               | Manufacture of chemicals and chemical products   | 243                   | 108,297                    | 3,786           | 15.6                 | 3.5   | 122          |
|                    | 21               | Manufacture of basic pharmaceutical products and pharmaceutical preparations   | 115                   | 44,919                     | 3,956           | 34.3                 | 8.8   | 572          |
|                    | 22               | Manufacture of rubber and plastic products   | 154                   | 41,917                     | 1,088           | 7.1                  | 2.6   | 30           |
|                    | 23               | Manufacture of other non-metallic mineral products   | 74                    | 23,576                     | 310             | 4.2                  | 1.3   | 28           |
|                    | 24               | Manufacture of basic metals  | 164                   | 74,786                     | 531             | 3.2                  | 0.7   | 14           |
|                    | 25               | Manufacture of fabricated metal products, except machinery and equipment   | 190                   | 37,640                     | 824             | 4.3                  | 2.2   | 63           |
|                    | 26               | Manufacture of computer, electronic and optical products   | 399                   | 100,252                    | 7,541           | 18.9                 | 7.5   | 932          |
|                    | 27               | Manufacture of electrical equipment  | 199                   | 46,199                     | 2,249           | 11.3                 | 4.9   | 83           |
|                    | 28               | Manufacture of machinery and equipment n.e.c.  | 580                   | 143,295                    | 5,459           | 9.4                  | 3.8   | 305          |
|                    | 29               | Manufacture of motor vehicles, trailers and semi-trailers  | 800                   | 383,573                    | 21,466          | 26.8                 | 5.6   | 225          |
|                    | 30               | Manufacture of other transport equipment   | 91                    | 32,610                     | 2,007           | 22.1                 | 6.2   | 243          |
|                    | 31-33            | Manufacture of furniture; other manufacturing; repair and installation of machinery and equipment  | 132                   | 34,620                     | 1,935           | 14.7                 | 5.6   | 377          |
| <b>D; E</b>        | <b>35; 36-39</b> | <b>Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities</b>  | 148                   | 120,471                    | 161             | 1.1                  | 0.1   | 25           |
| <b>F</b>           | <b>41-43</b>     | <b>Construction</b>  | 97                    | 16,118                     | 75              | 0.8                  | 0.5   | 16           |
| <b>J</b>           | <b>58-63</b>     | <b>Information and communication</b>   | 256                   | 59,280                     | 3,185           | 12.4                 | 5.4   | 572          |
| <b>K</b>           | <b>64-66</b>     | <b>Financial and insurance activities</b>  | 93                    | 207,182                    | 284             | 3.0                  | 0.1   | 0            |
| <b>M</b>           | <b>69-75</b>     | <b>Professional, scientific and technical activities</b>   | 324                   | 53,122                     | 4,390           | 13.6                 | 8.3   | 740          |
| <b>G-I, L, N-U</b> |                  | <b>Remaining categories</b>  | 1,136                 | 295,323                    | 478             | 0.4                  | 0.2   | 62           |
| <b>Total</b>       |                  |  | <b>5,415</b>          | <b>1,929,716</b>           | <b>60,657</b>   | <b>11.2</b>          | <b>3.1</b>  | <b>4,499</b> |

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**Employees, turnover and intramural R&D expenditure of enterprises, by economic activities and employment size classes<sup>12</sup>**

| Employment size classes           | 2015                   |                       |                            |                |                   |  |
|-----------------------------------|------------------------|-----------------------|----------------------------|----------------|-------------------|--|
|                                   | Employees <sup>3</sup> | Turnover <sup>3</sup> | Intramural R&D expenditure |                |                   |  |
|                                   |                        |                       | Total                      | Per employee   | Share of turnover | For information: in the Eastern German Länder and Berlin |
|                                   | 1,000                  | Millions of €         | Millions of €              | Thousands of € | in %              | Millions of €  |
| <b>Enterprises with employees</b> |                        |                       |                            |                |                   |  |
| less than 100                     | 276                    | 73,799                | 2,731                      | 9.9            | 3.7               | 764  |
| 100 to 249                        | 320                    | 67,153                | 2,269                      | 7.1            | 3.4               | 416  |
| 250 to 499                        | 327                    | 96,740                | 2,788                      | 8.5            | 2.9               | 335  |
| <b>Sub-total</b>                  | 922                    | 237,692               | 7,788                      | 8.4            | 3.3               | 1,515  |
| 500 to 999                        | 405                    | 120,205               | 3,660                      | 9.0            | 3.0               | 185  |
| 1,000 to 1,999                    | 495                    | 159,021               | 5,585                      | 11.3           | 3.5               | 458  |
| 2,000 to 4,999                    | 576                    | 299,698               | 6,846                      | 11.9           | 2.3               | 402  |
| 5,000 to 9,999                    | 435                    | 132,338               | 6,372                      | 14.6           | 4.8               | 276  |
| 10,000 and more                   | 2,581                  | 980,763               | 30,406                     | 11.8           | 3.1               | 1,663  |
| <b>Sub-total</b>                  | 4,492                  | 1,692,025             | 52,869                     | 11.8           | 3.1               | 2,984  |
| <b>Total</b>                      | <b>5,415</b>           | <b>1,929,716</b>      | <b>60,657</b>              | <b>11.2</b>    | <b>3.1</b>        | <b>4,499</b>   |

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**Employees, turnover and intramural R&D expenditure of enterprises, by economic activities and employment size classes<sup>12</sup>**

| Economic activity  |                  | 2017   |                       |                            |               |                   |  |              |
|--------------------|------------------|--|-----------------------|----------------------------|---------------|-------------------|--|--------------|
|                    |                  | Employees <sup>3</sup>   | Turnover <sup>3</sup> | Intramural R&D expenditure |               |                   |  |              |
|                    |                  |  |                       | Total                      | Per employee  | Share of turnover | For information: in the Eastern German Länder and Berlin |              |
| 1,000              | Millions of €    | Millions of €  | Thousands of €        | in %                       | Millions of € |                   |  |              |
| <b>A</b>           | <b>01-03</b>     | <b>Agriculture, forestry and fishing</b>   | 7                     | 2,114                      | 169           | 24.2              | 8.0  | 21           |
| <b>B</b>           | <b>05-09</b>     | <b>Mining and quarrying</b>  | 26                    | 5,723                      | 25            | 0.9               | 0.4  | 1            |
| <b>C</b>           | <b>10-33</b>     | <b>Manufacturing</b>   | 3,466                 | 1,308,407                  | 58,494        | 16.9              | 4.5  | 3,235        |
|                    | 10-12            | Manufacture of food products; manufacture of tobacco products  | 109                   | 46,607                     | 318           | 2.9               | 0.7  | 12           |
|                    | 13-15            | Manufacture of textiles and wearing apparel; manufacture of leather and related products   | 32                    | 7,770                      | 102           | 3.1               | 1.3  | 18           |
|                    | 16-18            | Manufacture of wood and products of wood and cork (except furniture); manufacture of paper and paper products; publishing, printing and reproduction of recorded media | 56                    | 16,288                     | 248           | 4.4               | 1.5  | 55           |
|                    | 19               | Manufacture of coke and refined petroleum products   | 7                     | 17,860                     | 145           | 19.4              | 0.8  | 1            |
|                    | 20               | Manufacture of chemicals and chemical products   | 248                   | 99,340                     | 4,065         | 16.4              | 4.1  | 149          |
|                    | 21               | Manufacture of basic pharmaceutical products and pharmaceutical preparations   | 149                   | 52,044                     | 4,631         | 31.0              | 8.9  | 656          |
|                    | 22               | Manufacture of rubber and plastic products   | 153                   | 43,008                     | 1,149         | 7.5               | 2.7  | 35           |
|                    | 23               | Manufacture of other non-metallic mineral products   | 77                    | 21,896                     | 319           | 4.1               | 1.5  | 31           |
|                    | 24               | Manufacture of basic metals  | 176                   | 81,027                     | 578           | 3.3               | 0.7  | 16           |
|                    | 25               | Manufacture of fabricated metal products, except machinery and equipment   | 197                   | 42,047                     | 921           | 4.7               | 2.2  | 64           |
|                    | 26               | Manufacture of computer, electronic and optical products   | 327                   | 100,618                    | 7,739         | 23.7              | 7.7  | 1,032        |
|                    | 27               | Manufacture of electrical equipment  | 219                   | 58,814                     | 2,692         | 12.3              | 4.6  | 150          |
|                    | 28               | Manufacture of machinery and equipment n.e.c.  | 607                   | 164,178                    | 7,117         | 11.7              | 4.3  | 481          |
|                    | 29               | Manufacture of motor vehicles, trailers and semi-trailers  | 904                   | 485,622                    | 25,656        | 28.4              | 5.3  | 220          |
|                    | 30               | Manufacture of other transport equipment   | 84                    | 37,106                     | 1,776         | 21.1              | 4.8  | 219          |
|                    | 31-33            | Manufacture of furniture; other manufacturing; repair and installation of machinery and equipment  | 119                   | 34,181                     | 1,038         | 8.7               | 3.0  | 98           |
| <b>D; E</b>        | <b>35; 36-39</b> | <b>Electricity, gas, steam and air conditioning supply; water supply; sewerage, waste management and remediation activities</b>  | 158                   | 154,400                    | 177           | 1.1               | 0.1  | 34           |
| <b>F</b>           | <b>41-43</b>     | <b>Construction</b>  | 91                    | 16,734                     | 85            | 0.9               | 0.5  | 18           |
| <b>J</b>           | <b>58-63</b>     | <b>Information and communication</b>   | 269                   | 66,136                     | 3,380         | 12.5              | 5.1  | 643          |
| <b>K</b>           | <b>64-66</b>     | <b>Financial and insurance activities</b>  | 102                   | 250,723                    | 248           | 2.4               | 0.1  | 0            |
| <b>M</b>           | <b>69-75</b>     | <b>Professional, scientific and technical activities</b>   | 454                   | 71,254                     | 5,594         | 12.3              | 7.9  | 928          |
| <b>G-I, L, N-U</b> |                  | <b>Remaining categories</b>  | 1,095                 | 329,041                    | 617           | 0.6               | 0.2  | 97           |
| <b>Total</b>       |                  |  | <b>5,669</b>          | <b>2,204,531</b>           | <b>68,787</b> | <b>12.1</b>       | <b>3.1</b>   | <b>4,977</b> |

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**Employees, turnover and intramural R&D expenditure of enterprises, by economic activities and employment size classes<sup>1,2</sup>**

| Employment size classes           | 2017                   |                       |                            |                |                   |  |
|-----------------------------------|------------------------|-----------------------|----------------------------|----------------|-------------------|--|
|                                   | Employees <sup>3</sup> | Turnover <sup>3</sup> | Intramural R&D expenditure |                |                   |  |
|                                   |                        |                       | Total                      | Per employee   | Share of turnover | For information: in the Eastern German Länder and Berlin |
|                                   | 1,000                  | Millions of €         | Millions of €              | Thousands of € | in %              | Millions of €  |
| <b>Enterprises with employees</b> |                        |                       |                            |                |                   |  |
| less than 100                     | 305                    | 80,734                | 3,154                      | 10.3           | 3.9               | 884  |
| 100 to 249                        | 347                    | 85,690                | 2,571                      | 7.4            | 3.0               | 496  |
| 250 to 499                        | 372                    | 116,946               | 3,160                      | 8.5            | 2.7               | 335  |
| <b>Sub-total</b>                  | 1,024                  | 283,370               | 8,885                      | 8.7            | 3.1               | 1,715  |
| 500 to 999                        | 438                    | 160,043               | 4,099                      | 9.4            | 2.6               | 348  |
| 1,000 to 1,999                    | 530                    | 198,239               | 5,822                      | 11.0           | 2.9               | 396  |
| 2,000 to 4,999                    | 653                    | 277,788               | 7,571                      | 11.6           | 2.7               | 499  |
| 5,000 to 9,999                    | 475                    | 204,291               | 6,771                      | 14.3           | 3.3               | 284  |
| 10,000 and more                   | 2,550                  | 1,080,800             | 35,639                     | 14.0           | 3.3               | 1,736  |
| <b>Sub-total</b>                  | 4,645                  | 1,921,161             | 59,902                     | 12.9           | 3.1               | 3,263  |
| <b>Total</b>                      | <b>5,669</b>           | <b>2,204,531</b>      | <b>68,787</b>              | <b>12.1</b>    | <b>3.1</b>        | <b>4,977</b>   |

1 Not including institutions for cooperative industrial research and experimental development.

2 Classification of economic activities, 2008 edition (based on NACE 2008 - Nomenclature statistique des activités économiques dans la Communauté européenne).

3 Employees and turnover of enterprises with internal and/or external R&D expenditure.

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This table also appears in the Federal Report on Research and Innovation as Table 22.

Source: Special evaluation of the Stifterverband Wissenschaftsstatistik

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