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**Indexes for innovation in the mining and manufacturing sectors<sup>1</sup>**

Indicator	2008		2009		2010		2011	
	Absolute value	in %	Absolute value	in %	Absolute value	in %	Absolute value	in %
<b>Business enterprises (1,000)</b>	100.4	100.0	97.9	100.0	96.5	100.0	96.5	100.0
Of which:								
Innovators	58.3	58.0	50.1	51.2	51.7	53.6	46.7	48.4
Product innovators	43.7	43.5	38.3	39.2	43.5	45.1	37.3	38.7
Of which:								
Business enterprises with market innovations	18.8	18.7	17.0	17.3	18.6	19.3	16.2	16.8
Process innovators	36.4	36.3	32.0	32.7	26.5	27.4	26.7	27.7
Of which:								
Business enterprises with cost reduction	20.1	20.0	19.0	19.4	14.6	15.2	15.6	16.2
Business enterprises with continuous R&D activities (intramural)	18.5	18.5	18.4	18.8	19.8	20.5	18.2	18.9
<b>Employees (Millions)</b>	6.8	100.0	6.5	100.0	6.4	100.0	6.6	100.0
Of which:								
Innovators	5.6	82.9	5.3	81.7	5.3	82.5	5.3	79.4
Business enterprises with continuous R&D activities (intramural)	4.1	60.4	4.0	61.9	4.1	63.4	4.2	64.0
<b>Innovation expenditure (Billions of €)</b>	92.3	100.0	81.1	100.0	87.0	100.0	98.0	100.0
Share of revenue	-	5.0	-	5.3	-	4.9	-	5.0
Of which:								
Ongoing innovation expenditure	62.2	67.4	59.7	73.6	64.2	73.8	72.0	73.5
Investments for innovations	30.1	32.6	21.4	26.4	22.8	26.2	26.0	26.5
<b>Innovation success (Billions of €/Share in %)</b>								
Revenue/revenue share with new products	488.8	26.4	339.1	22.0	439.2	24.7	475.2	24.4
Revenue/revenue share with market innovations	96.9	5.2	80.9	5.2	108.7	6.1	108.4	5.6
Cost reduction share for process innovations	-	4.5	-	4.1	-	4.2	-	3.6

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### Indexes for innovation in the mining and manufacturing sectors<sup>1</sup>

Indicator	2012		2013		2014		2015	
	Absolute value	in %	Absolute value	in %	Absolute value	in %	Absolute value	in %
<b>Business enterprises (1,000)</b>	95.8	100.0	95.2	100.0	94.8	100.0	95.2	100.0
Of which:								
Innovators	45.4	47.4	43.1	45.3	42.3	44.5	40.7	42.7
Product innovators	37.5	39.1	36.2	38.0	34.2	36.0	31.6	33.2
Of which:								
Business enterprises with market innovations	15.4	16.1	12.1	12.7	15.7	14.1	13.1	13.8
Process innovators	26.1	27.2	23.8	24.9	24.1	25.3	24.9	26.2
Of which:								
Business enterprises with cost reduction	14.2	14.8	11.7	12.3	13.8	14.5	12.4	13.0
Business enterprises with continuous R&D activities (intramural)	17.6	18.3	18.1	19.0	18.1	19.0	17.7	18.6
<b>Employees (Millions)</b>	6.7	100.0	6.7	100.0	6.8	100.0	6.9	100.0
Of which:								
Innovators	5.2	77.4	5.1	76.1	5.1	76.0	5.1	74.2
Business enterprises with continuous R&D activities (intramural)	4.1	60.9	4.2	62.4	4.1	60.1	4.1	60.3
<b>Innovation expenditure (Billions of €)</b>	104.6	100.0	109.3	100.0	109.7	100.0	117.7	100.0
Share of revenue	-	5.3	-	5.5	-	5.5	-	5.8
Of which:								
Ongoing innovation expenditure	74.7	71.3	78.8	72.1	82.4	75.1	89.5	76.0
Investments for innovations	30.0	28.7	30.5	27.9	27.3	24.9	28.2	24.0
<b>Innovation success (Billions of €/Share in %)</b>								
Revenue/revenue share with new products	456.5	23.1	462.1	23.4	457.9	22.9	486.6	23.8
Revenue/revenue share with market innovations	107.7	5.4	92.2	4.7	100.9	5.0	110.6	5.4
Cost reduction share for process innovations	-	3.7	-	3.5	-	3.4	-	3.8

<sup>1</sup> 2015 figures preliminary. All figures are projected for the total enterprise population in Germany with regard to enterprises with five or more employees. Possible rounding differences. 2014 figures revised.

Last update: December 2016

Source: Special evaluation of the Centre for European Economic Research - Mannheim Innovation Panel

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<https://www.govdata.de/dl-de/by-2-0>