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Information: revision of PPP time series

Today, Eurostat publishes a revised time series of Purchasing Power Parities (PPPs), starting in 1995. This revision was undertaken for three main reasons:

- to incorporate the latest national accounts data that were produced under [ESA2010](#) by all Member States and other countries;
- to harmonise, to the maximum extent, the [methodology](#) used in calculating the PPPs for all reference years;
- to introduce, for all reference years, the latest [classification of expenditures](#).

For more detailed information, please see the annex (only in English).

Information: révision des séries chronologiques des PPA

Aujourd'hui, Eurostat publie les séries chronologiques révisées de parités de pouvoir d'achat (PPA), à partir de 1995. Cette révision a été réalisée pour trois raisons principales:

- pour intégrer les dernières données des comptes nationaux qui ont été produites dans le cadre du [SEC 2010](#) par l'ensemble des États membres et d'autres pays;
- d'harmoniser la [méthodologie](#) utilisées pour le calcul des PPA pour toutes les années de référence;
- d'introduire, pour tous les exercices de référence, la dernière [classification des dépenses](#).

Pour de plus amples informations, prière de se reporter à l'annexe (en anglais uniquement).

Information: KKP-Zeitreihen revidiert

Eurostat veröffentlicht heute revidierte Zeitreihen für Kaufkraftparitäten für die Jahre ab 1995. Die Revision wurde vor allem aus drei Gründen vorgenommen:

- Einarbeitung der jüngsten VGR-Daten nach dem [ESVG2010](#), die seitens der Mitgliedstaaten und anderer Länder vorliegen;
- Harmonisierung der für die Berechnung der KKP benutzten [Methodik](#) über den gesamten Zeitraum hinweg
- Einführung der aktuellen [Systematik der Ausgaben](#) für alle Berichtsjahre

Detaillierte Informationen finden sich im Anhang (nur in Englisch verfügbar).

Annex

Background to the revision

The provision of data for and the calculation and dissemination of Purchasing Power Parities (PPPs) is governed by [Regulation 1445/2007](#) (the "PPP Regulation"). This Regulation stipulates in Article 9:

"1. The Commission (Eurostat) shall publish the final annual results no later than 36 months after the end of the reference year.

(...)

4. Published final PPPs shall generally not be revised."

However, paragraph 4 of this article continues:

"Exceptional general revisions shall be carried out if, owing to changes to the concepts underlying ESA 95 that affect PPP results, the volume index of GDP for any Member State changes by more than one percentage point."

The introduction of [ESA2010](#) had a significant [impact](#) on the level of GDP in many countries. Hence, this initiated a general revision of the PPP time series starting in 1995.

In addition, in 2015 a new classification of "basic headings" was [adopted](#). Basic headings are the lowest level of aggregation for which PPPs are calculated and expenditures collected. The general revision provided the opportunity to recalculate PPPs using the same classification for all years, improving their coherence over time.

Finally, in the course of time, several methodological advances were made to different elements of the PPP calculations. Again, the general revision allowed introducing these changes also for reference years that were already beyond the 36 months mentioned above at the time of introduction.

Most important changes

The most important changes made were:

- Collection of new basic heading level expenditure data according to ESA2010. The expenditure data are used as weights to derive the published aggregate PPPs from the basic heading PPPs.
- Collection of new data on housing (actual rents and imputed rents), following the introduction of results of the [2011 Census](#) in the national accounts in recent years.
- Introduction of the output approach for education for the years 1995-2004 (previously starting in 2005); see chapter 8 of the [PPP Manual](#).
- Use of prices for electricity and gas from Eurostat's Energy Statistics for the years 2007-2011 (previously starting in 2012).
- Introduction of the output approach for [health](#) for the year 2010 (previously starting in 2011).

Country coverage

The coverage of countries in different years has also improved. The following table summarises the new data availability, for the series with EU-15 as base:

Data availability by country and year	<i>GAH = GDP, Actual Individual Consumption and Household Final Consumption Expenditure</i>										
<i>For data with base EU-15</i>	<i>all = all variables</i>										
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005-2015
Belgium	all	all	all	all	all	all	all	all	all	all	all
Bulgaria	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Czech Republic	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Denmark	all	all	all	all	all	all	all	all	all	all	all
Germany	all	all	all	all	all	all	all	all	all	all	all
Estonia	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Ireland	all	all	all	all	all	all	all	all	all	all	all
Greece	all	all	all	all	all	all	all	all	all	all	all
Spain	all	all	all	all	all	all	all	all	all	all	all
France	all	all	all	all	all	all	all	all	all	all	all
Croatia	GAH	GAH	GAH	GAH	GAH	GAH	GAH	GAH	all	all	all
Italy	all	all	all	all	all	all	all	all	all	all	all
Cyprus	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Latvia	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Lithuania	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Luxembourg	all	all	all	all	all	all	all	all	all	all	all
Hungary	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Malta	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Netherlands	all	all	all	all	all	all	all	all	all	all	all
Austria	all	all	all	all	all	all	all	all	all	all	all
Poland	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Portugal	all	all	all	all	all	all	all	all	all	all	all
Romania	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Slovenia	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Slovakia	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Finland	all	all	all	all	all	all	all	all	all	all	all
Sweden	all	all	all	all	all	all	all	all	all	all	all
United Kingdom	all	all	all	all	all	all	all	all	all	all	all
Iceland	all	all	all	all	all	all	all	all	all	all	all
Norway	all	all	all	all	all	all	all	all	all	all	all
Switzerland	all	all	all	all	all	all	all	all	all	all	all
Montenegro	:	:	:	:	:	GAH	GAH	GAH	GAH	GAH	all
FYR of Macedonia	:	:	GAH	GAH	GAH	GAH	GAH	GAH	all	all	all
Albania	:	:	GAH	GAH	GAH	GAH	GAH	GAH	GAH	GAH	all
Serbia	:	:	:	:	:	GAH	GAH	GAH	GAH	GAH	all
Turkey	GAH	GAH	GAH	GAH	all	all	all	all	all	all	all
Bosnia-Herzegovina	:	:	:	:	:	GDP	GDP	GDP	GDP	GDP	all

Impact of the revision on GDP per capita in PPS

The tables on the next pages provide an overview of the impact of the revisions on the main indicator GDP per capita in PPS, with EU-28=100. Revisions to Actual Individual Consumption follow broadly the same pattern.

Next revisions

Until the next general revision, the usual revision routine for PPPs will again apply:

- In June of year t, the first preliminary results for the reference year t-1 are published
- In December of year t, the final results for the reference year t-3, and updated results for the reference years t-2 and t-1 are published.
- Data for reference year t-3 are not further revised.
- Data for reference year t-2 is once further revised in December t+1.
- Data for reference year t-1 is revised further in December t+1 and December t+2.

Revised results, GDP per capita in PPS, EU28=100																					
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Belgium	125	122	122	120	121	124	122	123	122	121	121	119	117	116	118	121	120	121	120	120	119
Bulgaria	33	30	29	29	27	28	29	31	33	34	37	38	41	43	44	45	45	46	46	46	47
Czech Republic	76	78	75	73	72	71	74	73	76	78	79	79	82	84	85	83	83	83	84	86	87
Denmark	126	127	127	127	126	127	124	124	121	124	124	125	123	125	125	129	128	127	128	127	127
Germany	131	129	127	125	125	122	121	120	120	120	118	117	117	117	117	120	123	124	124	125	124
Estonia	35	36	40	41	40	42	43	47	51	54	60	64	69	69	64	65	71	74	75	76	75
Ireland	105	110	116	123	127	133	137	142	143	145	147	148	148	134	129	130	131	132	133	137	177
Greece	85	86	88	88	87	86	88	91	94	96	93	96	93	93	94	85	75	72	72	70	68
Spain	90	90	91	93	94	95	97	98	99	98	100	103	103	101	101	96	93	91	90	90	90
France	116	115	114	115	115	116	117	116	111	110	111	109	108	107	108	108	108	107	109	107	106
Croatia	44	47	48	48	46	48	49	51	53	55	56	58	61	63	62	59	60	60	59	59	58
Italy	124	123	122	122	120	120	118	115	114	110	109	108	107	107	106	104	104	102	99	97	96
Cyprus	95	92	91	92	93	94	96	95	96	97	101	101	104	106	105	100	96	91	84	81	82
Latvia	31	31	33	35	35	35	38	41	43	46	50	53	57	59	52	53	57	60	62	64	64
Lithuania	33	34	36	38	37	37	40	42	48	49	53	55	60	63	56	60	66	70	73	75	75
Luxembourg	219	220	219	217	238	246	233	234	233	238	245	258	262	259	250	256	263	259	261	267	264
Hungary	51	50	50	51	51	52	56	59	61	61	62	61	60	62	64	64	66	65	67	68	68
Malta	77	78	79	79	79	81	78	79	82	80	81	78	79	79	81	84	83	84	86	86	88
Netherlands	128	129	132	134	137	140	138	137	133	133	135	136	138	139	137	134	133	133	134	131	128
Austria	131	131	130	130	130	130	125	126	126	126	127	126	124	124	126	126	128	131	131	130	128
Poland	43	44	46	47	48	47	47	48	48	50	50	51	53	55	60	62	65	67	67	68	69
Portugal	80	80	81	82	84	84	82	82	82	81	82	83	81	81	82	82	77	75	77	77	77
Romania	30	31	29	27	27	26	27	29	31	34	35	39	43	49	50	52	52	54	55	55	57
Slovenia	75	76	78	79	81	80	80	82	83	86	87	86	87	90	85	83	83	82	81	83	83
Slovakia	48	50	51	52	50	50	52	54	56	57	60	63	67	71	71	74	75	76	77	77	77
Finland	109	107	111	115	117	118	117	115	114	117	116	115	119	121	117	116	117	115	113	111	109
Sweden	126	126	125	125	128	129	125	123	124	126	123	125	128	127	123	125	126	127	125	124	124
United Kingdom	112	115	116	114	113	115	115	115	118	119	117	115	111	109	107	107	105	107	107	109	108
Iceland	131	130	138	140	139	131	133	130	127	132	134	130	129	129	127	115	114	115	117	118	123
Norway	135	143	146	138	144	163	159	153	152	160	173	181	177	187	172	174	179	186	184	175	160
Switzerland	164	161	161	160	158	156	154	151	147	146	146	150	156	158	160	158	161	164	164	163	162
Montenegro	:	:	:	:	:	26	28	28	29	29	30	34	39	41	39	41	42	39	41	41	42
Former Yugoslav Republic of Macedonia, the	:	:	25	25	26	27	26	26	26	27	28	29	30	32	34	34	34	34	35	36	36
Albania	:	:	14	15	16	17	18	19	20	20	21	22	23	25	27	29	29	30	29	30	30
Serbia	:	:	:	:	:	25	26	27	28	30	32	32	33	36	37	36	37	37	38	37	36
Turkey	41	42	43	43	40	41	38	36	37	39	41	44	45	46	46	49	53	53	53	53	52
Bosnia and Herzegovina	:	:	:	:	:	20	20	21	21	22	24	24	25	27	27	27	27	27	28	28	28

Source: [prc_ppp_ind](#)

Previously published results, GDP per capita in PPS, EU28=100																					
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Belgium	127	124	124	122	122	125	123	124	122	120	119	116	115	114	116	119	119	120	120	118	117
Bulgaria	34	28	28	30	27	28	29	32	33	35	37	38	42	45	46	45	45	46	46	47	46
Czech Republic	77	78	76	73	73	72	74	74	77	79	80	81	83	81	83	81	83	82	83	84	85
Denmark	130	131	131	130	130	131	127	128	123	125	123	123	121	123	122	126	125	126	126	125	124
Germany (until 1990 former territory of the FRG)	129	127	125	123	123	119	118	116	117	117	117	117	117	118	116	121	124	124	124	126	125
Estonia	35	37	41	41	41	43	44	48	52	55	59	64	68	68	62	63	69	74	75	76	74
Ireland	103	107	113	120	125	131	134	139	142	144	145	146	146	132	129	130	132	131	131	134	145
Greece	85	86	87	86	86	85	88	92	94	96	91	94	92	94	94	87	77	74	74	73	71
Spain	90	91	92	94	95	96	98	100	100	100	100	102	103	101	101	97	94	92	91	91	92
France	115	114	114	114	114	115	115	115	111	109	109	107	107	106	107	108	108	107	108	107	106
Croatia	45	49	50	50	48	49	51	53	55	57	58	58	61	63	61	59	59	60	59	59	58
Italy	122	121	120	121	119	118	119	113	112	108	106	105	105	105	104	103	102	101	98	96	95
Cyprus	92	90	89	90	91	92	94	93	94	97	99	99	100	105	105	102	96	91	84	82	81
Latvia	33	33	35	37	36	36	38	41	45	47	51	55	60	60	52	52	56	60	62	64	64
Lithuania	34	35	37	39	38	38	41	43	49	50	53	56	60	63	56	60	65	70	73	75	74
Luxembourg	216	215	209	211	231	250	236	240	240	246	241	256	259	255	247	254	263	258	264	266	271
Hungary	51	50	51	53	53	53	57	60	62	62	62	62	61	63	64	65	65	65	66	68	68
Malta	86	80	81	81	82	84	80	81	82	80	81	78	78	80	84	86	84	84	86	86	89
Netherlands	128	129	131	134	137	140	138	137	133	133	134	135	137	139	137	134	134	132	132	131	129
Austria	132	131	131	131	131	131	125	126	127	127	125	125	123	124	125	126	127	131	131	129	127
Poland	42	44	46	47	48	47	46	47	48	49	50	50	53	54	59	62	64	66	67	68	69
Portugal	76	76	77	77	79	79	78	78	78	76	79	79	79	79	81	81	78	77	77	78	77
Romania	32	32	29	26	26	25	27	29	31	34	34	38	41	48	49	50	51	54	54	55	57
Slovenia	74	75	77	78	80	79	79	81	83	85	86	86	87	89	85	83	82	81	80	82	83
Slovakia	47	49	51	51	50	49	51	53	55	56	59	62	67	71	71	73	73	74	76	77	77
Finland	107	106	110	114	116	117	116	115	114	117	115	114	117	120	116	115	116	115	113	110	108
Sweden	126	126	125	125	128	130	125	124	126	129	123	125	127	126	122	125	126	127	124	123	123
United Kingdom	117	120	122	120	119	121	121	122	123	125	124	122	117	114	112	108	106	107	108	109	110
Iceland	129	129	136	139	138	131	131	129	125	131	129	122	121	124	123	116	114	115	119	120	124
Norway	134	142	146	137	143	163	159	153	154	162	174	181	178	188	173	177	181	186	185	178	163
Switzerland	160	157	157	155	152	151	148	146	143	141	140	143	148	151	153	154	158	163	164	161	162
Montenegro	:	:	:	:	:	:	:	:	:	:	30	34	39	41	40	40	41	39	40	41	41
Former Yugoslav Republic of Macedonia, the	:	:	26	26	26	27	26	26	26	27	30	30	30	33	35	35	34	34	36	37	37
Albania	:	:	:	:	:	:	:	:	:	:	22	23	24	26	29	28	28	30	29	30	30
Serbia	:	:	:	:	:	:	:	:	:	:	32	33	33	36	36	35	36	37	38	37	36
Turkey	29	30	32	42	39	41	36	35	35	39	41	43	44	46	45	48	51	53	53	53	53
Bosnia and Herzegovina	:	:	:	:	:	:	:	:	:	:	24	25	26	27	28	28	28	29	29	29	29

	Revision in %																				
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Belgium	-2	-2	-2	-2	-1	-1	-1	-1	0	1	2	3	2	2	2	2	1	1	0	2	2
Bulgaria	-3	7	4	-3	0	0	0	-3	0	-3	0	0	-2	-4	-4	0	0	0	0	-2	2
Czech Republic	-1	0	-1	0	-1	-1	0	-1	-1	-1	-1	-2	-1	4	2	2	0	1	1	2	2
Denmark	-3	-3	-3	-2	-3	-3	-2	-3	-2	-1	1	2	2	2	2	2	2	1	2	2	2
Germany (until 1990 former territory of the FRG)	2	2	2	2	2	3	3	3	3	3	1	0	0	-1	1	-1	-1	0	0	-1	-1
Estonia	0	-3	-2	0	-2	-2	-2	-2	-2	-2	2	0	1	1	3	3	3	0	0	0	1
Ireland	2	3	3	2	2	2	2	2	1	1	1	1	1	2	0	0	-1	1	2	2	22
Greece	0	0	1	2	1	1	0	-1	0	0	2	2	1	-1	0	-2	-3	-3	-3	-4	-4
Spain	0	-1	-1	-1	-1	-1	-1	-2	-1	-2	0	1	0	0	0	-1	-1	-1	-1	-1	-2
France	1	1	0	1	1	1	2	1	0	1	2	2	1	1	1	0	0	0	1	0	0
Croatia	-2	-4	-4	-4	-4	-2	-4	-4	-4	-4	-3	0	0	0	2	0	2	0	0	0	0
Italy	2	2	2	1	1	2	-1	2	2	2	3	3	2	2	2	1	2	1	1	1	1
Cyprus	3	2	2	2	2	2	2	2	2	0	2	2	4	1	0	-2	0	0	0	-1	1
Latvia	-6	-6	-6	-5	-3	-3	0	0	-4	-2	-2	-4	-5	-2	0	2	2	0	0	0	0
Lithuania	-3	-3	-3	-3	-3	-3	-2	-2	-2	-2	0	-2	0	0	0	0	2	0	0	0	1
Luxembourg	1	2	5	3	3	-2	-1	-3	-3	-3	2	1	1	2	1	1	0	0	-1	0	-3
Hungary	0	0	-2	-4	-4	-2	-2	-2	-2	-2	0	-2	-2	-2	0	-2	2	0	2	0	0
Malta	-10	-3	-2	-2	-4	-4	-3	-2	0	0	0	0	1	-1	-4	-2	-1	0	0	0	-1
Netherlands	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	-1	1	2	0	-1
Austria	-1	0	-1	-1	-1	-1	0	0	-1	-1	2	1	1	0	1	0	1	0	0	1	1
Poland	2	0	0	0	0	0	2	2	0	2	0	2	0	2	2	0	2	2	0	0	0
Portugal	5	5	5	6	6	6	5	5	5	7	4	5	3	3	1	1	-1	-3	0	-1	0
Romania	-6	-3	0	4	4	4	0	0	0	0	3	3	5	2	2	4	2	0	2	0	0
Slovenia	1	1	1	1	1	1	1	1	0	1	1	0	0	1	0	0	1	1	1	1	0
Slovakia	2	2	0	2	0	2	2	2	2	2	2	2	0	0	0	1	3	3	1	0	0
Finland	2	1	1	1	1	1	1	0	0	0	1	1	2	1	1	1	1	0	0	1	1
Sweden	0	0	0	0	0	-1	0	-1	-2	-2	0	0	1	1	1	0	0	0	1	1	1
United Kingdom	-4	-4	-5	-5	-5	-5	-5	-6	-4	-5	-6	-6	-5	-4	-4	-1	-1	0	-1	0	-2
Iceland	2	1	1	1	1	0	2	1	2	1	4	7	7	4	3	-1	0	0	-2	-2	-1
Norway	1	1	0	1	1	0	0	0	-1	-1	-1	0	-1	-1	-1	-2	-1	0	-1	-2	-2
Switzerland	2	3	3	3	4	3	4	3	3	4	4	5	5	5	5	3	2	1	0	1	0
Montenegro	:	:	:	:	:	:	:	:	:	:	0	0	0	0	-3	2	2	0	2	0	2
Former Yugoslav Republic of Macedonia, the	:	:	-4	-4	0	0	0	0	0	0	-7	-3	0	-3	-3	-3	0	0	-3	-3	-3
Albania	:	:	:	:	:	:	:	:	:	:	-5	-4	-4	-4	-7	4	4	0	0	0	0
Serbia	:	:	:	:	:	:	:	:	:	:	0	-3	0	0	3	3	3	0	0	0	0
Turkey	41	40	34	2	3	0	6	3	6	0	0	2	2	0	2	2	4	0	0	0	-2
Bosnia and Herzegovina	:	:	:	:	:	:	:	:	:	:	0	-4	-4	0	-4	-4	-4	-7	-3	-3	-3