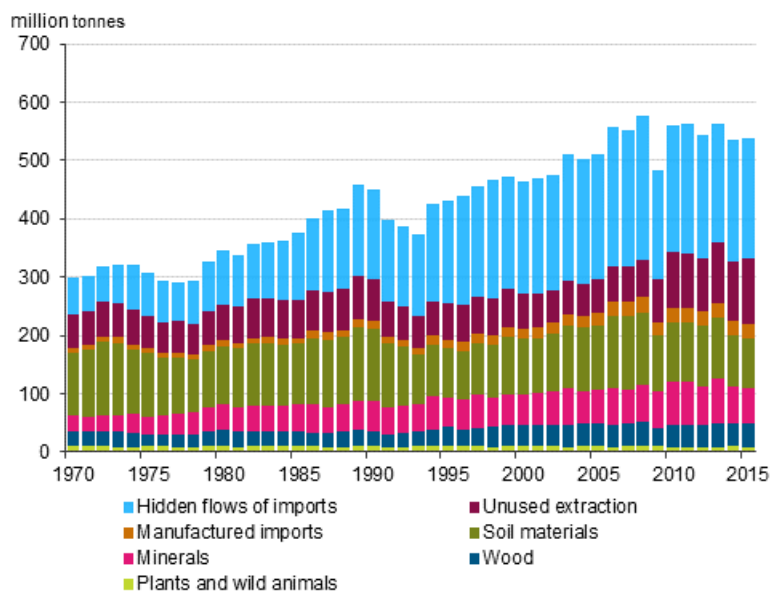


Economy-wide material flow accounts 2015

Need for material decreases slowly

In 2015, altogether 277 million tonnes of material was extracted from the soil and vegetation of Finland. Forty-four per cent of this material was used domestically and 15 per cent was exported. The rest, or good one-third, was left unused in nature. In addition, some 54 million tonnes of products and raw materials were imported, which generated an estimated 208 million tonnes in hidden flows for the production countries. All in all, Finns' material extraction in 2015 amounted to 540 million tonnes. The amount is roughly the same as annual oil production in Russia. Changes compared to 2014 were minor apart from ore extraction, which is on the rise again.

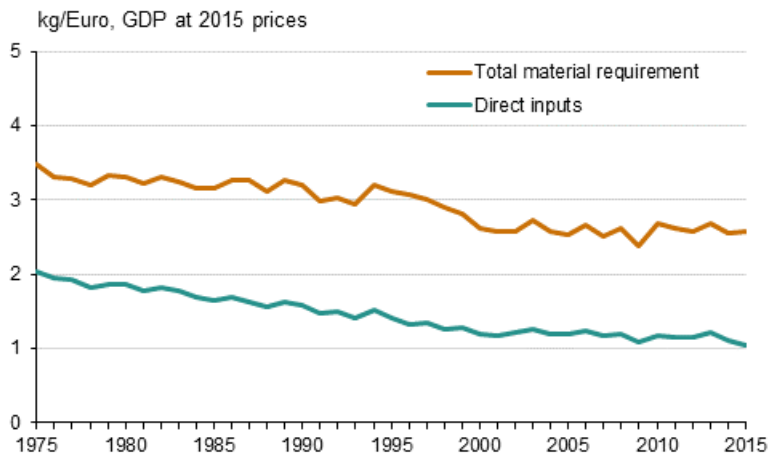
Total material requirement by material group in 1970 to 2015



Both in Finland and throughout Europe, national economies try, in the spirit of circular economy, to lower their material intensity or their economy's dependency on natural resources, or vice versa, to increase the productivity of their natural resources. The dependency of Finland's national economy on nature is significantly larger than in the EU, on average, the average material productivity in the EU was more than

double compared to Finland. Halving of direct natural resource inputs to produce one euro has taken 40 years in Finland. At this rate, we will reach the EU average in four to five decades.

Material intensity of Finland's economy in 1975 to 2015



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Appendix tables

Appendix table 1. Total material requirement by material groups 2006 - 2015

1 000 tonnes	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1. Plants and wild animals	9 564	10 542	10 516	10 555	9 091	9 728	9 227	9 728	9 951	9 187
2. Wood	48 000	51 147	56 198	36 870	47 233	46 426	45 660	50 689	49 947	50 914
3. Minerals	160 981	141 046	166 254	158 667	204 444	202 758	187 239	203 255	195 021	199 791
4. Soil materials	155 645	159 719	161 307	134 381	138 456	134 207	137 494	141 503	121 031	118 178
5. Manufactured imports	177 519	184 961	183 829	142 936	161 409	169 529	163 973	157 142	158 015	160 439
Total	551 709	547 415	578 104	483 410	560 632	562 647	543 594	562 317	533 964	538 509

Appendix table 2. Direct input requirement by material groups 2006 - 2015

1 000 tonnes	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1. Plants and wild animals	9 262	10 306	10 186	10 285	8 868	9 499	8 954	9 451	9 692	8 979
2. Wood	37 352	39 775	42 670	29 494	37 291	36 769	36 530	40 384	39 643	40 398
3. Minerals	64 485	56 783	61 955	63 782	75 647	75 094	68 044	75 284	67 733	61 119
4. Soil materials	123 159	127 191	123 928	97 273	101 083	100 858	103 126	105 223	87 988	84 948
5. Manufactured imports	23 238	24 662	26 304	20 999	24 151	25 401	24 214	24 790	24 055	23 510
Total	257 495	258 717	265 043	221 833	247 040	247 621	240 868	255 131	229 111	218 954

Appendix table 3. Hidden flow requirement by material groups 2006 - 2015

1 000 tonnes	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1. Plants and wild animals	302	237	330	271	223	229	274	277	258	208
2. Wood	10 648	11 372	13 529	7 376	9 941	9 657	9 131	10 305	10 304	10 516
3. Minerals	96 497	84 263	104 299	94 885	128 797	127 664	119 195	127 971	127 288	138 672
4. Soil materials	32 486	32 528	37 379	37 108	37 373	33 349	34 368	36 280	33 043	33 230
5. Manufactured imports	154 281	160 299	157 524	121 937	137 258	144 129	139 759	132 352	133 960	136 929
Total	294 214	288 698	313 061	261 577	313 592	315 027	302 726	307 186	304 853	319 554

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Source: Economy-wide material flow accounts 2015, Statistics Finland