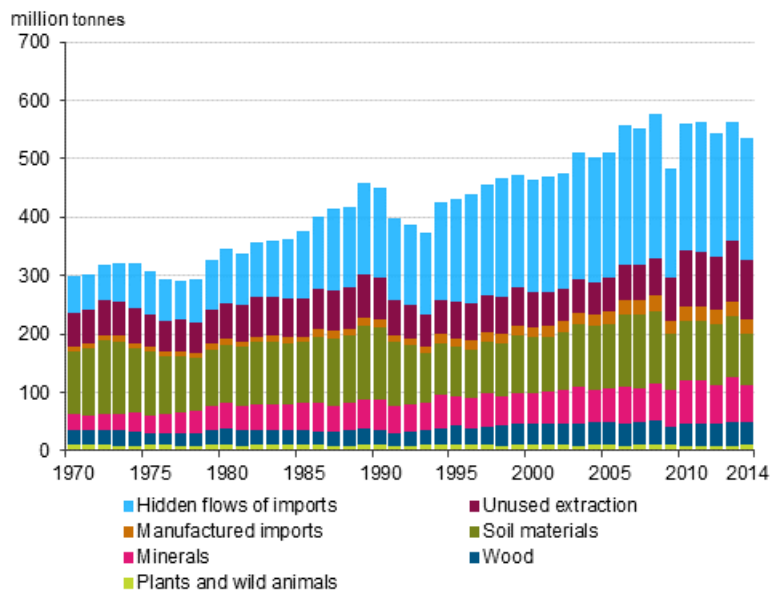


Economy-wide material flow accounts 2014

Soil extraction decreased in 2014

The extraction of sand, gravel and other stone from soil for building materials decreased by five to six per cent in 2014 from the previous year. The extraction of stone has fallen to 78 million tonnes, almost to the same level as in the deepest recession years of the 1990s, as shown by the statistics on economy-wide material flow accounts published by Statistics Finland.

Total material requirement by material groups in 1970 to 2014



Stone is used for the production of concrete and asphalt and for support and foundation structures of buildings, roads and railways. Crushed rock has a share of nearly 60 per cent in total material requirement of stone. Stone has been replaced with waste material, such as scum, ash and crushed concrete, which may in part have diminished the need for stone.

Mines were quieter last year than in the previous one

The volume of quarrying in ore mines dropped by 16 per cent and the volume of ore even more than that, by over one third. In contrast, nearly the same volume of industrial minerals was recovered as in the year before. A total of 75 million tonnes of ore, useful stone and waste stone were extracted last year.

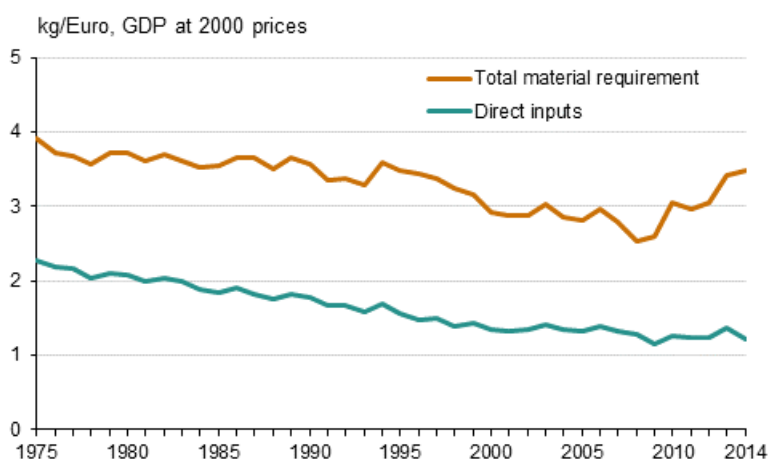
The bioeconomy has remained on level with the previous year

In all, 40 tonnes of wood were used as direct inputs, domestic and foreign ones combined. The figure in the early millennium was lowest in 2009, when the extraction of wood was 29 million tonnes, that is, around one quarter less than at the moment. Silage comes first in the extraction of plants and wild animals. Its annual material requirement is nearly two million tonnes. It is followed by cereal crops, barley, wheat and oat.

Finland is a material-intensive country

Each euro earned in Finland is tied to a material input of over one kg and to 3.5 kg of total extraction of natural resources. In the EU, the average material productivity is two to three-fold compared to Finland. Finland's figures of total extraction are particularly enlarged by the structure of our imports focusing on large items of raw materials and manufactured products, such as minerals, wood and building materials. Last year, the imported volume of raw materials was 33.7 million tonnes. Hidden flows of imports are very big.

Material intensity of Finland's economy in 1975 to 2014



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Appendix tables

Appendix table 1. Total material requirement by material groups 2006 - 2014

1 000 tonnes	2006	2007	2008	2009	2010	2011	2012	2013	2014
1. Plants and wild animals	9 564	10 542	10 516	10 555	9 091	9 728	9 227	9 728	9 951
2. Wood	48 000	51 147	56 198	36 870	47 233	46 426	45 660	50 689	49 947
3. Minerals	160 981	141 046	166 254	158 667	204 444	202 758	187 239	203 255	195 980
4. Soil materials	155 645	159 719	161 307	134 381	138 456	134 207	137 494	141 503	121 031
5. Manufactured imports	177 519	184 961	183 829	142 936	161 409	169 529	163 973	157 142	158 015
Total	551 709	547 415	578 104	483 410	560 632	562 647	543 594	562 317	534 924

Appendix table 2. Direct input requirement by material groups 2006 - 2014

1 000 tonnes	2006	2007	2008	2009	2010	2011	2012	2013	2014
1. Plants and wild animals	9 262	10 306	10 186	10 285	8 868	9 499	8 954	9 451	9 692
2. Wood	37 352	39 775	42 670	29 494	37 291	36 769	36 530	40 384	39 643
3. Minerals	64 485	56 783	61 955	63 782	75 647	75 094	68 044	75 284	64 208
4. Soil materials	123 159	127 191	123 928	97 273	101 083	100 858	103 126	105 223	87 988
5. Manufactured imports	23 238	24 662	26 304	20 999	24 151	25 401	24 214	24 790	24 055
Total	257 495	258 717	265 043	221 833	247 040	247 621	240 868	255 131	225 586

Appendix table 3. Hidden flow requirement by material groups 2006 - 2014

1 000 tonnes	2006	2007	2008	2009	2010	2011	2012	2013	2014
1. Plants and wild animals	302	237	330	271	223	229	274	277	258
2. Wood	10 648	11 372	13 529	7 376	9 941	9 657	9 131	10 305	10 304
3. Minerals	96 497	84 263	104 299	94 885	128 797	127 664	119 195	127 971	131 772
4. Soil materials	32 486	32 528	37 379	37 108	37 373	33 349	34 368	36 280	33 043
5. Manufactured imports	154 281	160 299	157 524	121 937	137 258	144 129	139 759	132 352	133 960
Total	294 214	288 698	313 061	261 577	313 592	315 027	302 726	307 186	309 338

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Source: Economy-wide material flow accounts 2014, Statistics Finland