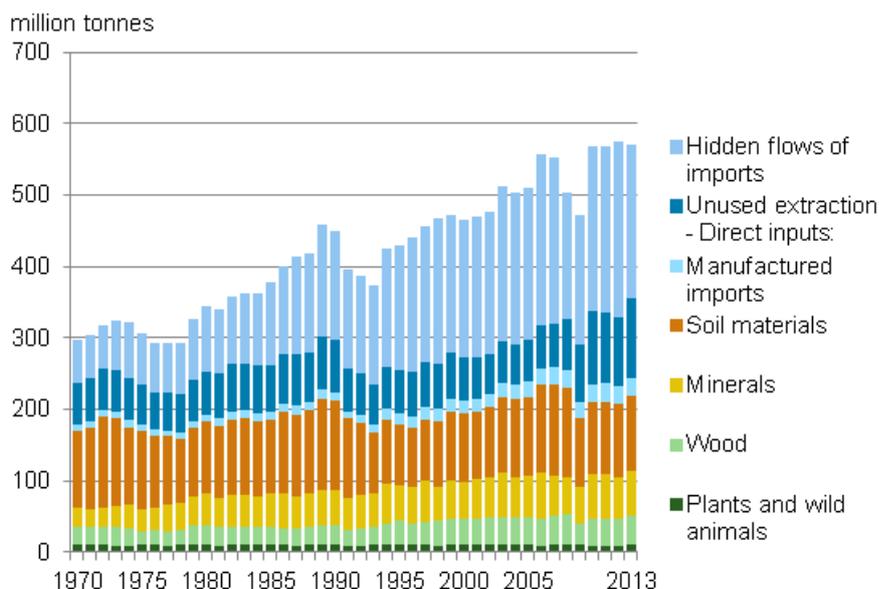


Economy-wide material flow accounts 2013

The economic downturn has not affected the use of natural resources

The material economy did not peter out like the national economy did last year. In 2013, material requirement as direct input in the national economy was 4.7 per cent higher than in the previous year. For example, in agriculture, cereal production grew by as much as 11 per cent, logging in forestry increased by 9 per cent, and altogether more metal ores, industrial minerals and useful stone were extracted from mines than ever before. The use of imported goods remained on level with the previous year. And even though the use of stone, like gravel and crushed stone, in construction fell to the level of the recession year 2009 and even below it, all in all, a similar collapse in the material requirement as seen in the recession of the early 1990s or in 2009 is not visible in Finland at the moment.

Total material requirement by material groups in 1970 to 2013



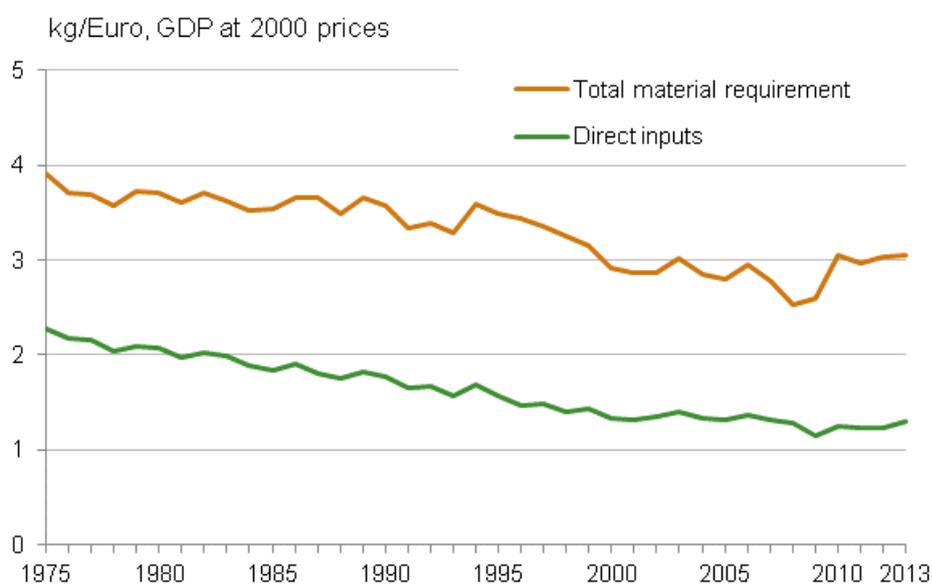
In 2013, direct material inputs used by the national economy totalled around 244 million tonnes, of which domestic inputs made up 77 per cent. A majority of domestic inputs is produced in the use of minerals, mines and construction minerals. Biotic inputs are estimated to have a share of one-quarter of the weight, including wood, cereal, root vegetables and fodder plants, as well as fish and game.

The material generated in the utilisation of natural resources that is not transferred into input in the economy is called domestic hidden flows and hidden flows of imports. The total domestic and foreign hidden flows are higher than direct inputs, around 326 million tonnes. Of this amount, around 120 million tonnes were generated in Finland, for example as wall rock, logging waste and soils from construction.

Total material requirement rose to over 570 million tonnes in 2013. The use of natural resources calculated per person is relatively high in Finland compared to other EU member countries.

Economy-wide material flow accounts are part of environmental accounts, on which the European Union passed a Regulation in 2011 and the UN gave an international recommendation in 2012.

Material intensity of Finland's economy in 1975 to 2013



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Appendix table 1. Total material requirement by material groups in 2003 to 2013.....4

Appendix tables

Appendix table 1. Total material requirement by material groups in 2003 to 2013

1 000 tonnes	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
1. Plants and wild animals	9 858	10 198	10 664	9 564	10 542	10 307	10 493	9 051	9 699	9 259	9 737
1.1 direct inputs	9 521	9 792	10 343	9 262	10 306	10 102	10 204	8 796	9 432	8 958	9 451
1.2 hidden flows	337	406	321	302	237	205	290	254	268	301	286
2. Wood	49 915	50 025	50 148	48 000	51 147	54 149	36 519	47 866	46 683	46 595	51 264
2.1 direct inputs	38 238	38 571	38 563	37 352	39 775	42 670	29 494	37 291	36 769	36 530	40 384
2.2 hidden flows	11 677	11 453	11 586	10 648	11 372	11 480	7 025	10 575	9 914	10 065	10 880
3. Minerals	163 421	145 843	139 121	160 981	141 046	129 555	146 951	206 093	203 266	201 650	200 838
3.1 direct inputs	62 759	56 982	57 196	64 485	56 783	52 263	51 494	63 724	63 835	59 815	63 814
3.2 hidden flows	100 662	88 860	81 925	96 497	84 263	77 292	95 457	142 370	139 431	141 835	137 023
4. Soil materials	137 208	137 969	140 594	155 645	159 719	161 307	134 381	138 456	134 207	137 494	141 503
4.1 direct inputs	106 182	108 822	110 842	123 159	127 191	123 928	97 273	101 083	100 858	103 126	105 223
4.2 hidden flows	31 026	29 147	29 752	32 486	32 528	37 379	37 108	37 373	33 349	34 368	36 280
5. Manufactured imports	147 641	154 875	163 759	177 519	184 961	147 376	143 021	168 165	175 261	179 572	166 511
5.1 direct inputs	19 511	20 279	21 430	23 238	24 662	26 304	20 999	24 151	25 401	24 214	24 790
5.2 hidden flows	128 131	134 596	142 328	154 281	160 299	121 072	122 022	144 014	149 861	155 358	141 722
Total	508 043	498 909	504 286	551 709	547 415	502 694	471 365	569 632	569 117	574 570	569 852
direct inputs	236 210	234 446	238 374	257 495	258 717	255 267	209 464	235 046	236 294	232 643	243 661
hidden flows	271 833	264 463	265 912	294 214	288 698	247 427	261 901	334 586	332 822	341 927	326 191

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Source: Economy-wide material flow accounts 2013, Statistics Finland