



tukes

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Review of mining authority on exploration and mining industry in Finland in 2020

Turvallisuus- ja kemikaalivirasto (Tukes)

Summary, Statistical Review of Mining in Finland in 2020

EXPLORATION

2020 saw 61 companies submit exploration reports to Tukes.

- Companies invested 67.9 millions euro in ore exploration in Finland (up 8% from the previous year)
- Compensation paid to landowners for exploration was approximately EUR 4.6 million
- Ore exploration drilling was carried out 219km (more than 16% of the previous)

MINING ACTIVITY

21 companies report mining from 45 mines

- The companies invested EUR 392 million, which is 25% less than in the previous year. The most significant investments were made in the Kevitsa, Kittilä and Kemi mines.
- Metal ore, carbonate rock, industrial rock and industrial mineral mining was 48.6 million tons (up 9% from the previous year).
- The total extraction of the mines was 115.4 million tons (remained at the same level as in the previous year). The three largest Kevitsa (39.4 million tons), Terrafame (33.4 million tons) and Siilinjärvi (22.4 million tons) mined 82% of this.

FRASER INSTITUTE ANNUAL – Survey of Mining Companies 2020:

- The Investment Attractiveness Index; Finland dropped from 2nd spot in 2019 to 10th in 2020.
- The Policy Perception Index (PPI); Finland dropped from the top spot in year 2019 this year to spot 3.
- Respondents, exploration and mining companies, praise the licensing process of Tukes and GTK's data files.

Major phases of exploration and mining permits in Finland



Phase 1: Reservation notification

Valid max 2 years

For the purpose of preparing an application for an exploration permit.

Phase 2: Exploration permit

Valid max 15 years

An exploration permit is required for gaining a privilege exploiting the deposit. An exploration is subject to exploration permit if the property owner has not given consent to it.

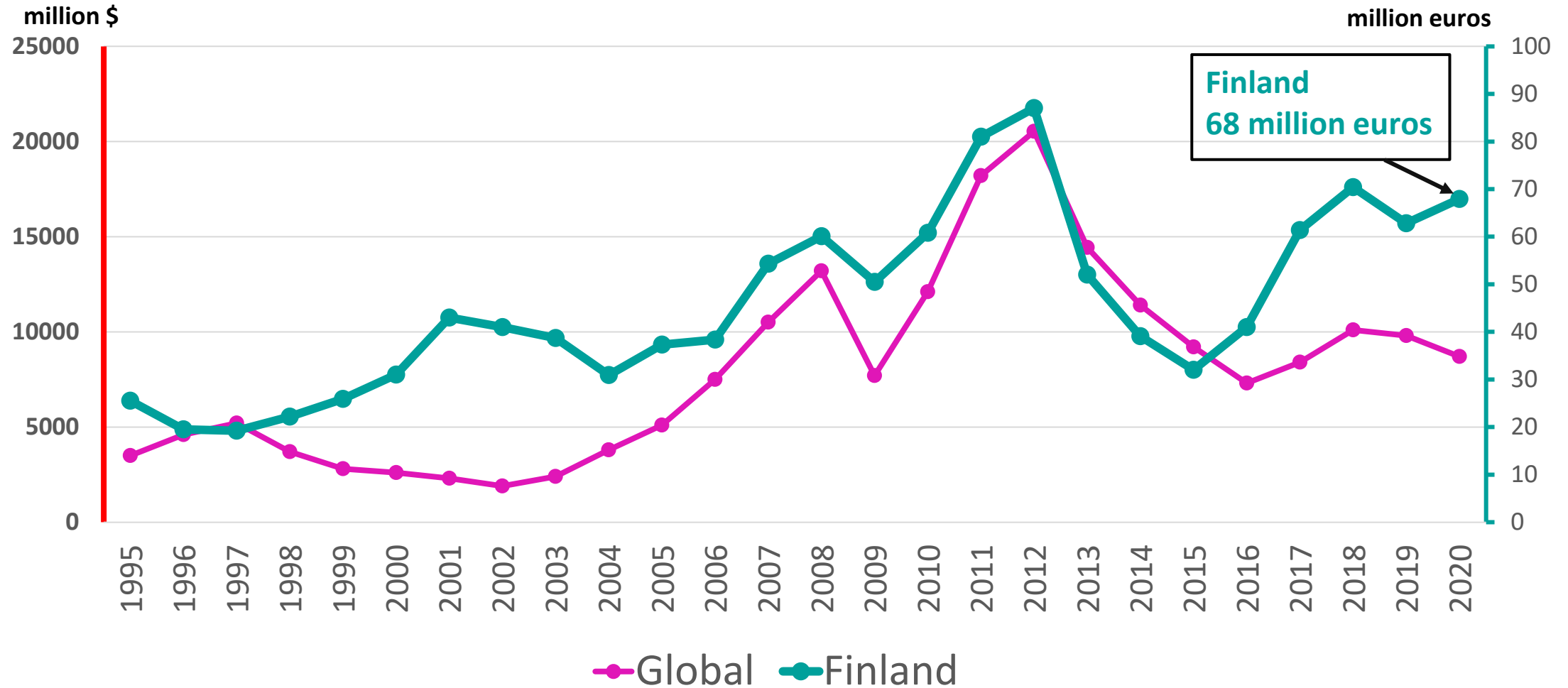
Phase 3: Mining permit

All mines that are to be opened in Finland require a mining permit from Tukes. Mines also need a mining safety permit and a permit for handling and storing chemicals and explosives from Tukes. All mines need an environmental permit from the environmental authorities.

Exploration in Finland 2016–2020

	2020	2019	2018	2017	2016
Exploration investments, reported by prospectors (million €)	68,0	62,8	70,4	61,4	41,0
No. of prospectors	61	46	44	46	41
No. of reservation notifications filed in Tukes	92	88	50	96	68
No. of exploration applications (claims) filed in Tukes	113	149	148	185	98
Total area of reservation, (km ²)	41.367	31.802			
Total area of exploration applications (km ²)	4.387	3.499	3.573	3.426	2.160
Total area of valid claims/exploration (km ²)	1.975	1.869	1.783	1.613	1.700
Drilling (kilometres)	219	189	219	273	178
• Grassroot	• 65	• 39	• 34	• 40	• 20
• Greenfield	• 89	• 78	• 73	• 53	• 57
• Brownfield	• 65	• 72	• 112	• 180	• 101

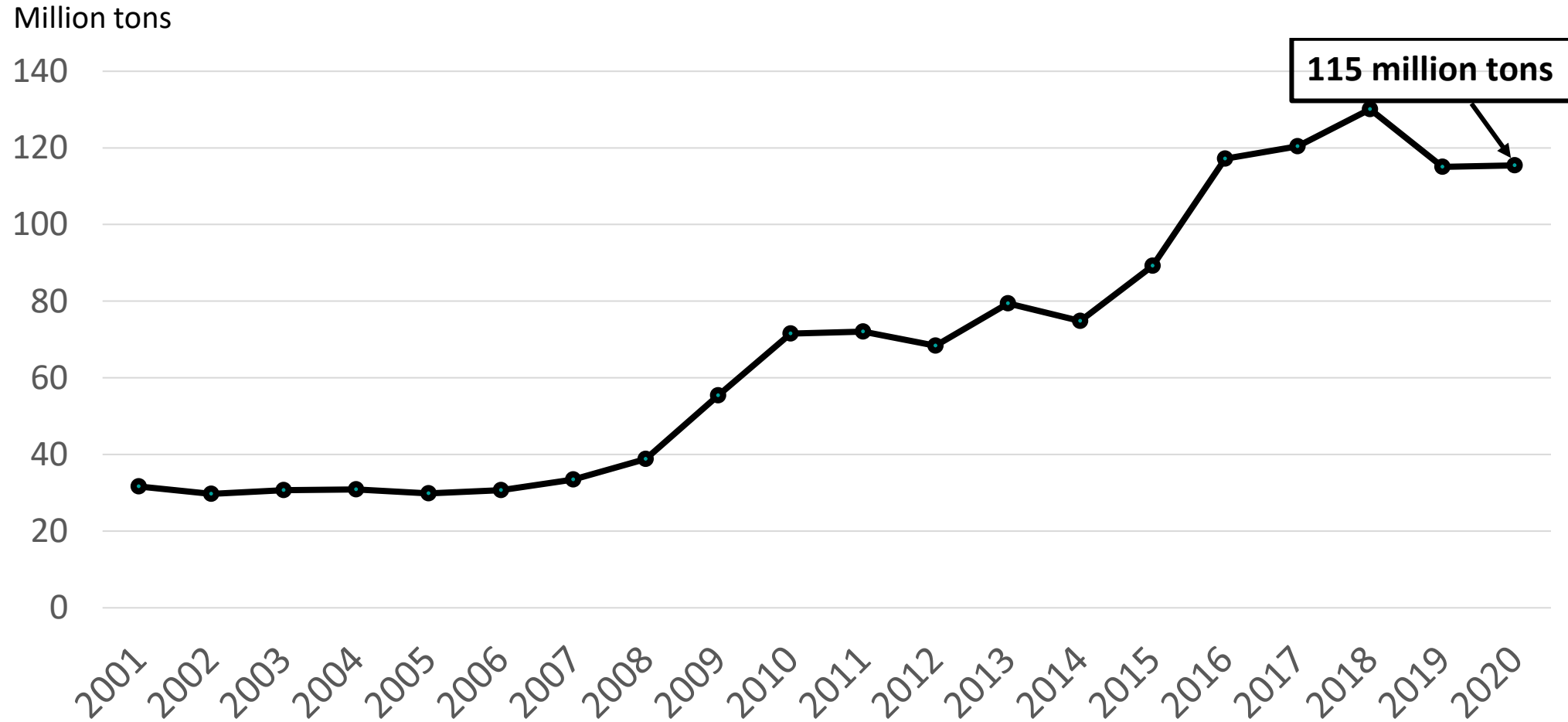
Investments in ore prospecting 1995–2020



Mining activity 2010–2020

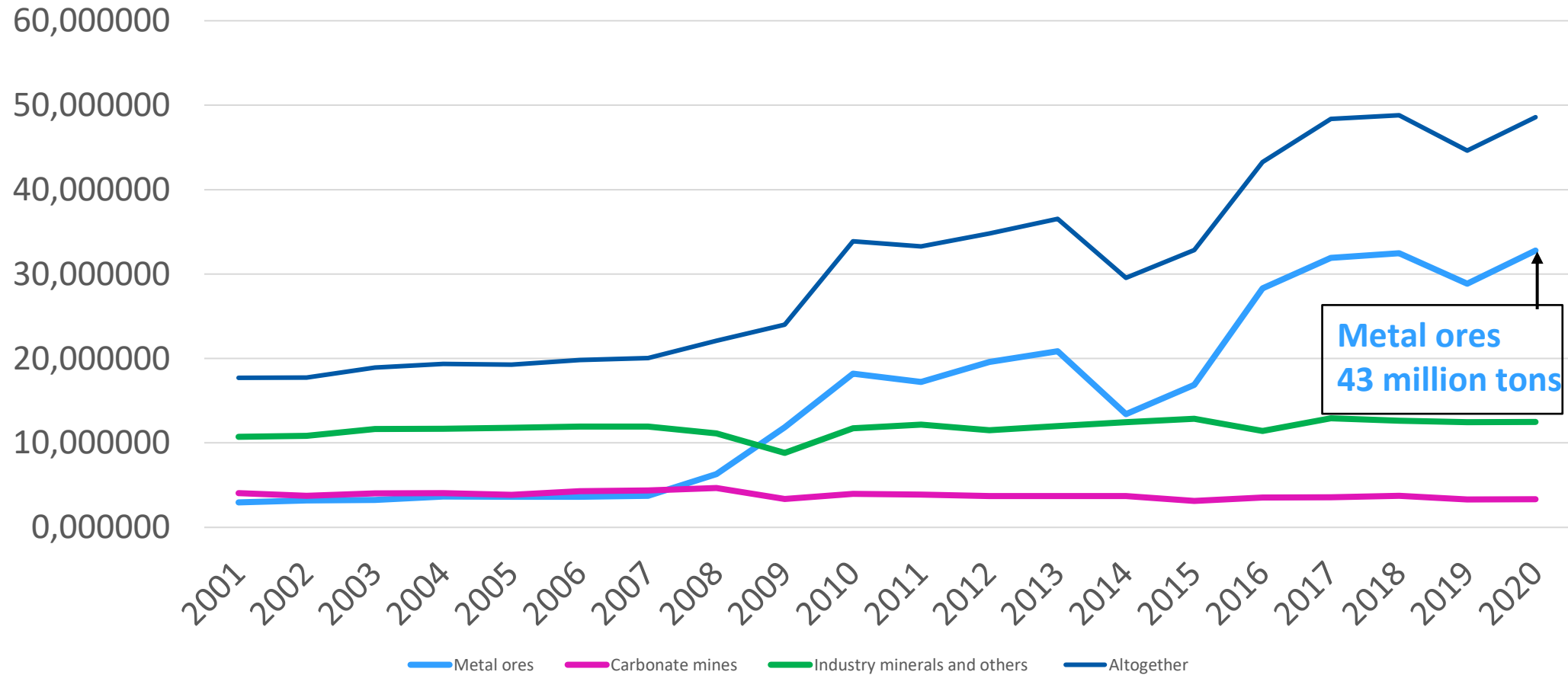
	2020	2019	2018	2017	2016
Number of mines (REPORTED EXCAVATION)	45	44	46	44	42
Mine investments (million €)	392	525	390	303	242
Excavation of ore (million tons)	48,5	44,6	49,0	48,4	43,7
Total excavation (million tons)	115,4	115,1	130,1	120,4	117,2

Total excavation (million tons) of mines in Finland 2001–2020



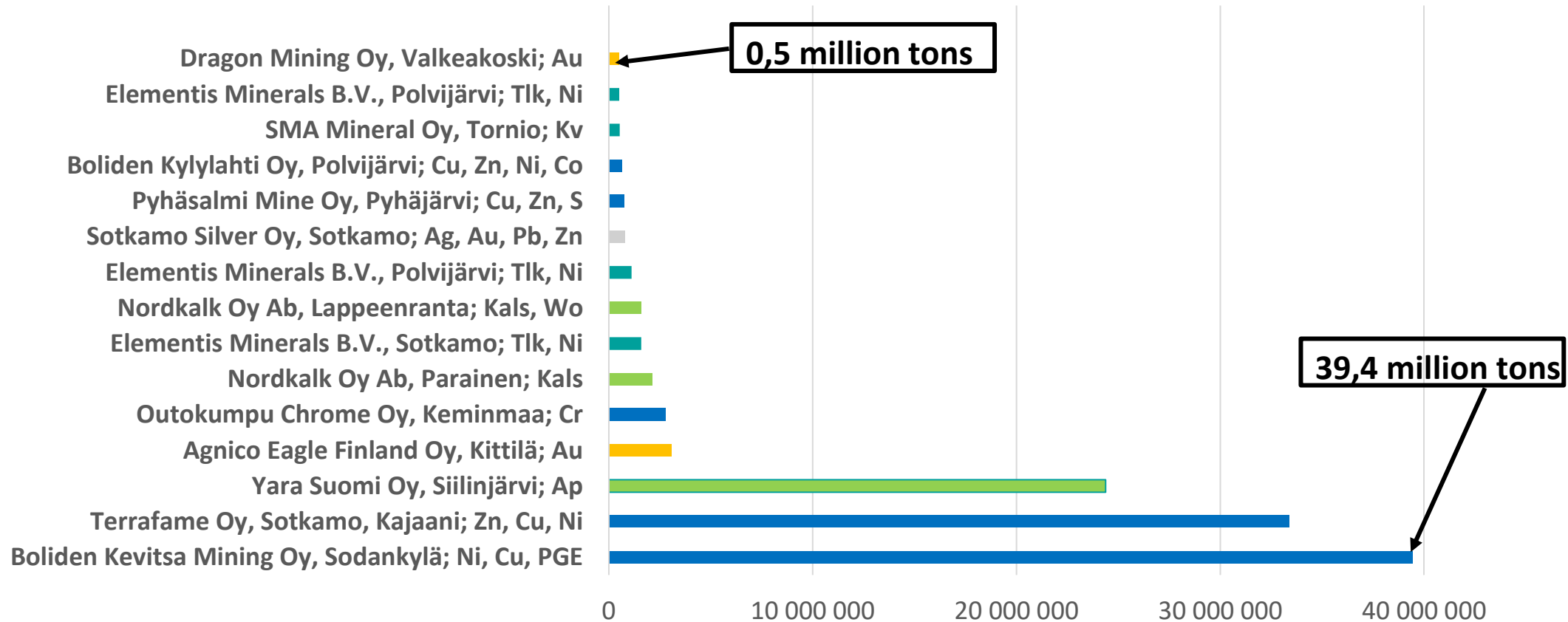
Excavation (tons) for ore in 2001–2020

Million tons

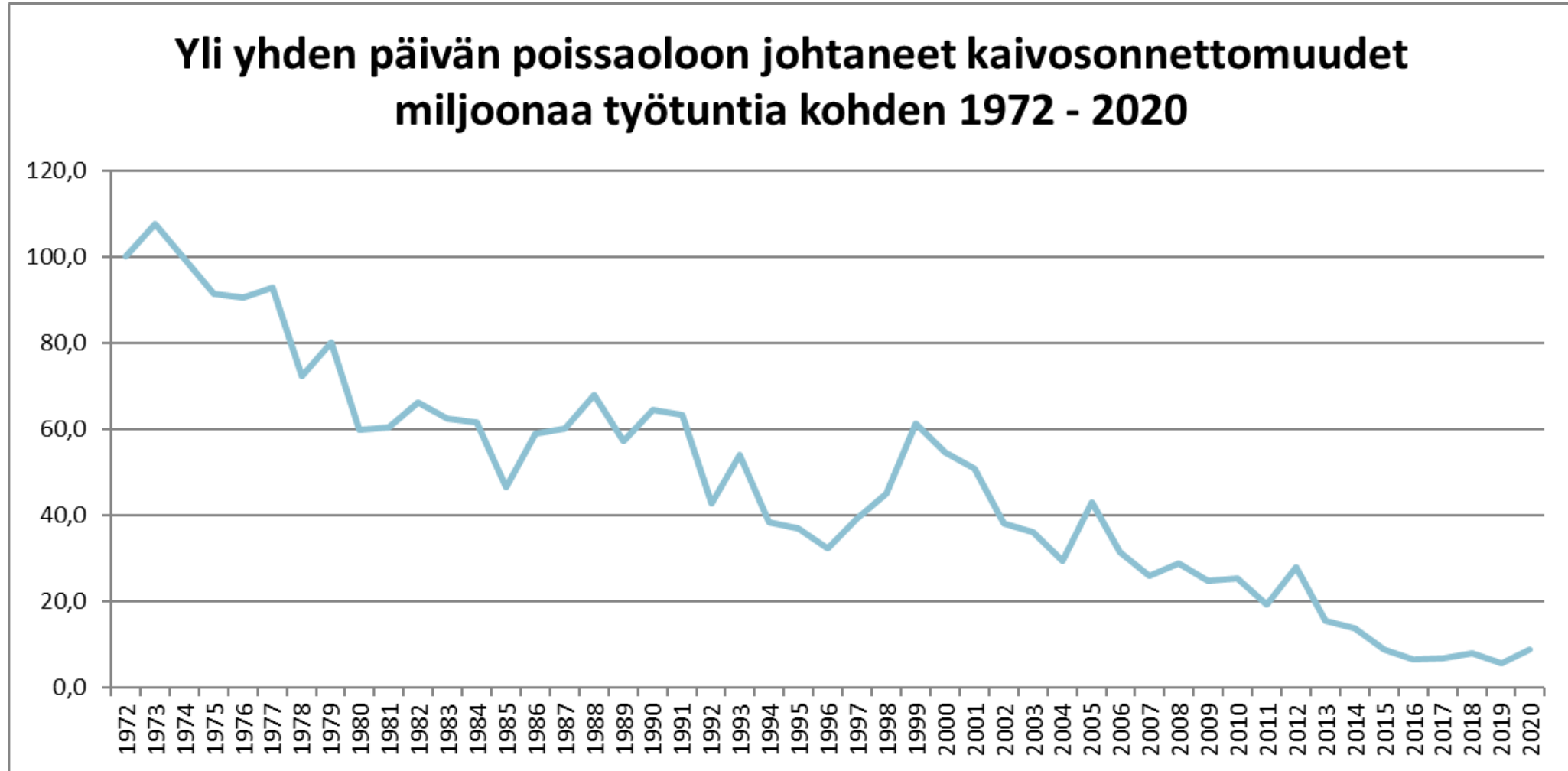


Metal ores
43 million tons

Total excavation (tons) of 15 biggest mines in Finland 2020



Accident frequency mining accidents that resulted in more than one day away from work 1972 - 2020 (number of accidents per million working hours)



More information about mining and exploration in Finland

Contact to mining authority

Finnish Safety and Chemicals Agency (Tukes)

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- kaivosasiat@tukes.fi / miningauthority@tukes.fi

Homepage of the mining authority

- <https://tukes.fi/en/industry/mining-ore-prospecting-and-gold-panning>

Map service of the mining register in Finland (in Finnish)

- <http://gtkdata.gtk.fi/kaivosrekisteri/>

Mineral Deposits, Exploration and Mining Registry (in English)

- <http://gtkdata.gtk.fi/mdae/index.html>



Screenshot from mining registry map service 25.3.2021