



tukes

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# **Review of mining authority on exploration and mining industry in Finland in 2019**

Turvallisuus- ja kemikaalivirasto (Tukes)

# Operating environment of mining in Finland in 2019

## EXPLORATION

2019 saw 46 companies submit exploration reports to Tukes.

- Total exploration investments dropped by 11% to 62,5 million euros.
- Drilling dropped by 14% to 189 km/year.

## MINING ACTIVITY

24 companies submitted excavation reports to Tukes

- Total mining investments for 2019 were 525 million euros. The increase was 42%. Biggest investment targets were Boliden/Kevitsa, AgnicoEagle/Kittilä, Outokumpu/Kemi, Yara/Siilinjärvi and Sotkamo Silver.
- Total excavation of ore in mines dropped by 9 % to 44,9 million tons.
- Total excavation of mines dropped by 12% to 115,1 million tons.

## FRASER INSTITUTE ANNUAL – Survey of Mining Companies 2019:

- The second jurisdiction in the world for investment based on the Investment Attractiveness Index is Finland, which moved into 2nd place after ranking 17th the previous year .
- Policy Perception Index: A “report card” to governments on the attractiveness of their mining policies. Finland reached the top spot this year with the highest PPI score of 100.
- 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



## Reservation notification

*Valid max 2 years*

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

## 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.

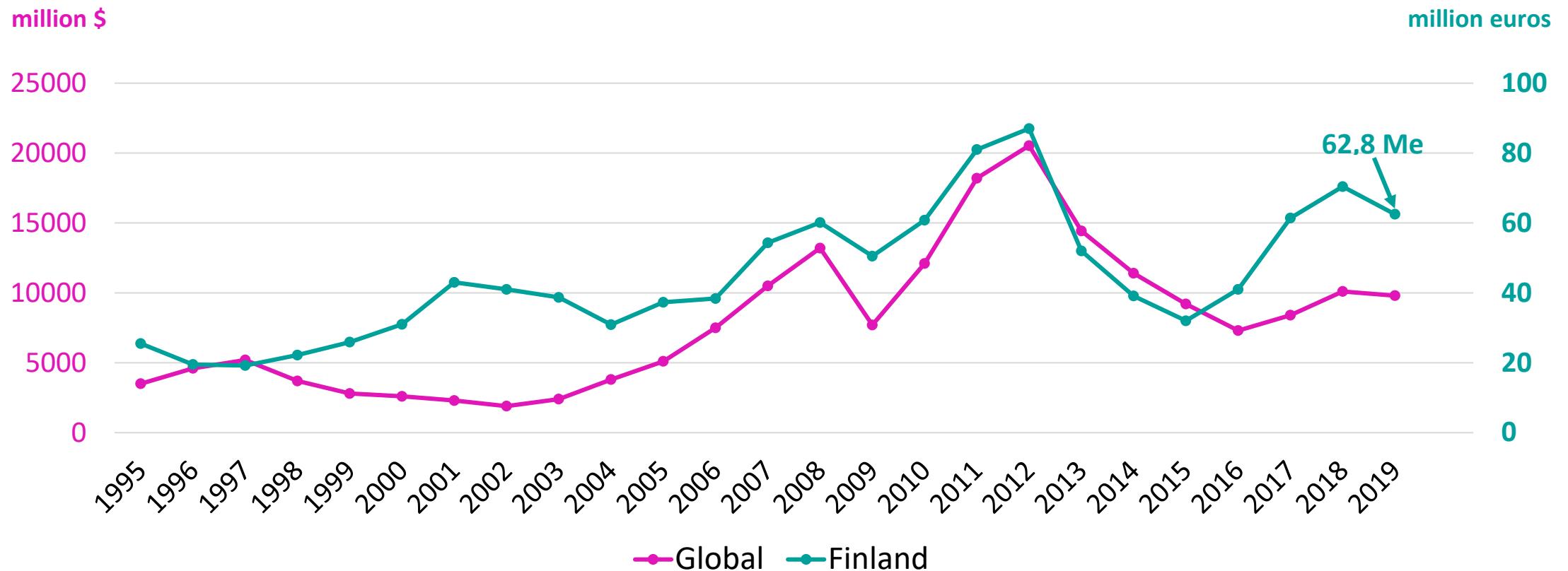
## Mining permit

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 2010–2019

	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Exploration (million €)	62,8	70,4	61,4	41,0	34,5	39,1	52,8	86,8	81,0	60,8
No. of prospectors	46	44	46	41	42	41	38	45	52	49
No. of reservation notifications	88	50	96	68	50	61	64	197	178	138
No. of exploration applications/claims	149	148	185	98	70	120	125	250	58/197	0/250
Area of reservation, (km <sup>2</sup> )	31802									
Area of claims/exploration (km <sup>2</sup> )	1869	1783	1613	1700	1930	1850	1400	1310	1080	890
Area of exploration applications (km <sup>2</sup> )	3499	3573	3426	2.160	1980	3900	5450	8210	4620	2700
Drilling (kilometres)	189	219	273	178	130	142	179	366	369	363
• Grassroot	• 39	•34	•40	•20	• 23	• 26	• 32	• 36		
• Greenfield	• 78	•73	•53	•57	• 51	• 46	• 51	• 103		
• Brownfield	• 72	•112	•180	•101	• 56	• 70	• 95	• 227		

# Investments in ore prospecting 1995–2019

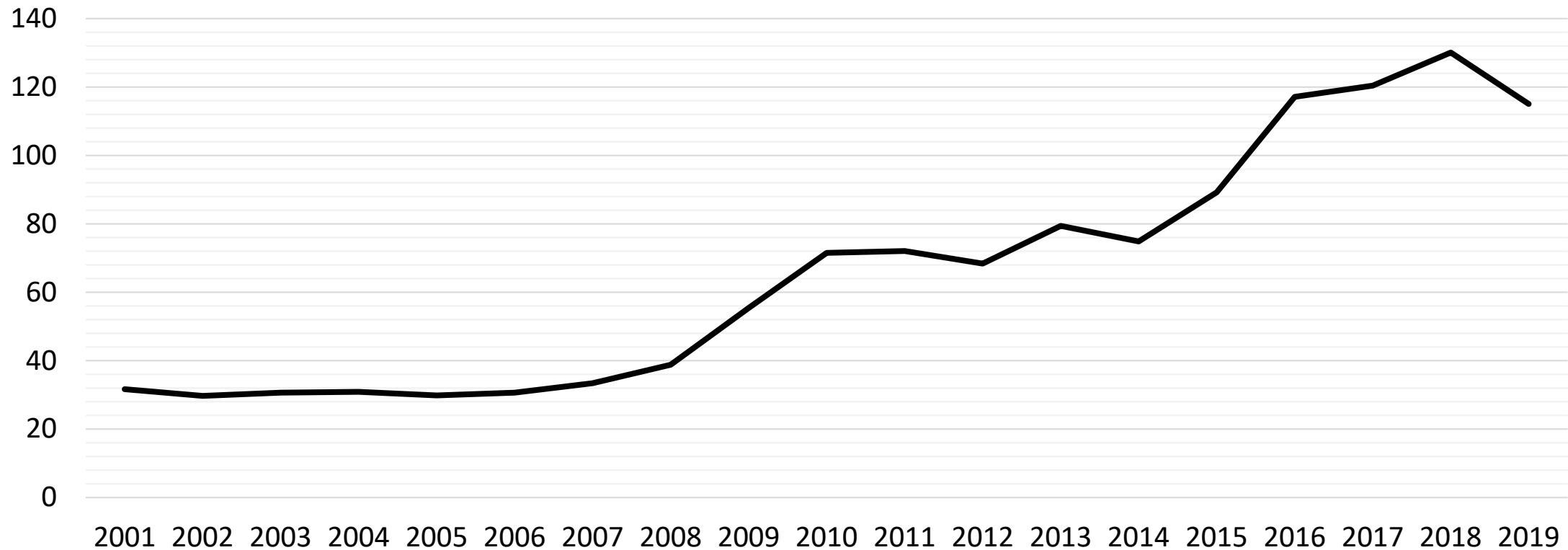


# Mining activity 2010–2019

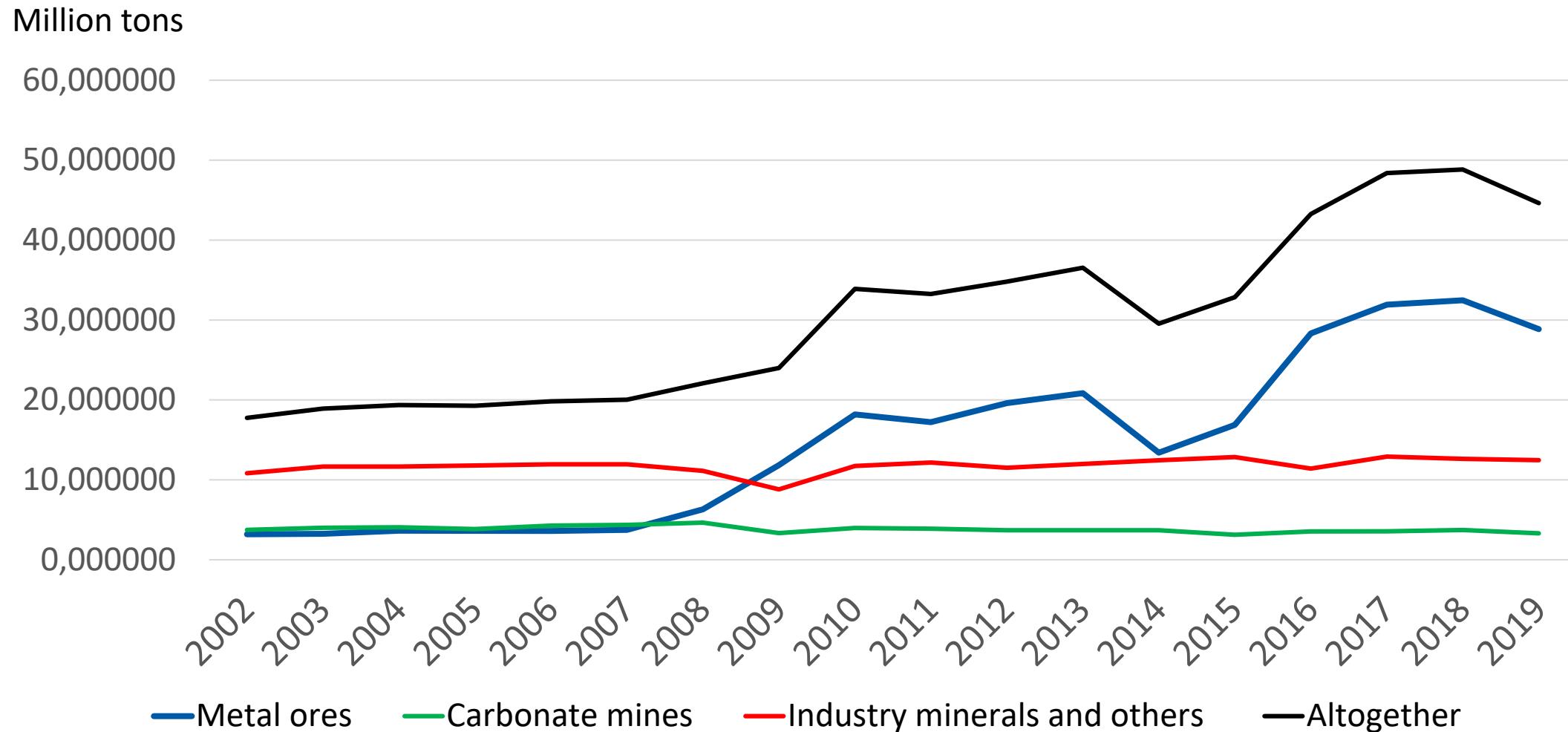
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Number of mines (REPORTED EXCAVATION)	44	46	44	42	45	40	46	50	52	51
Mine investments (million €)	525	390	303	242	157	190	200	320	555	297
Excavation of ore (million tons)	44,6	49,0	48,4	43,7	32,9	29,5	36,5	34,8	33,2	33,9
Total excavation (million tons)	115,1	130,1	120,4	117,2	89,2	74,8	79,4	68,4	72,0	71,5

# Total excavation (million tons) of mines in Finland 2001–2019

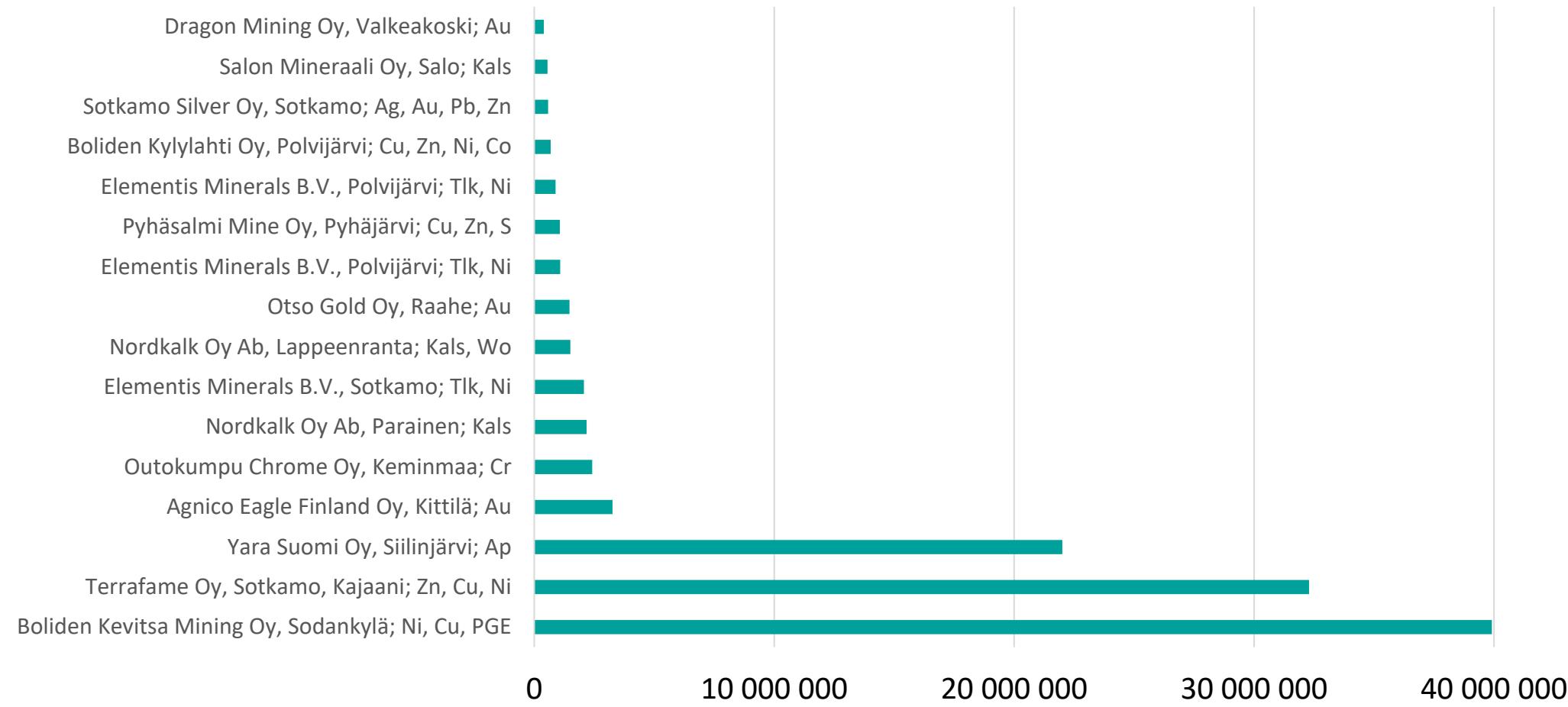
Million tons



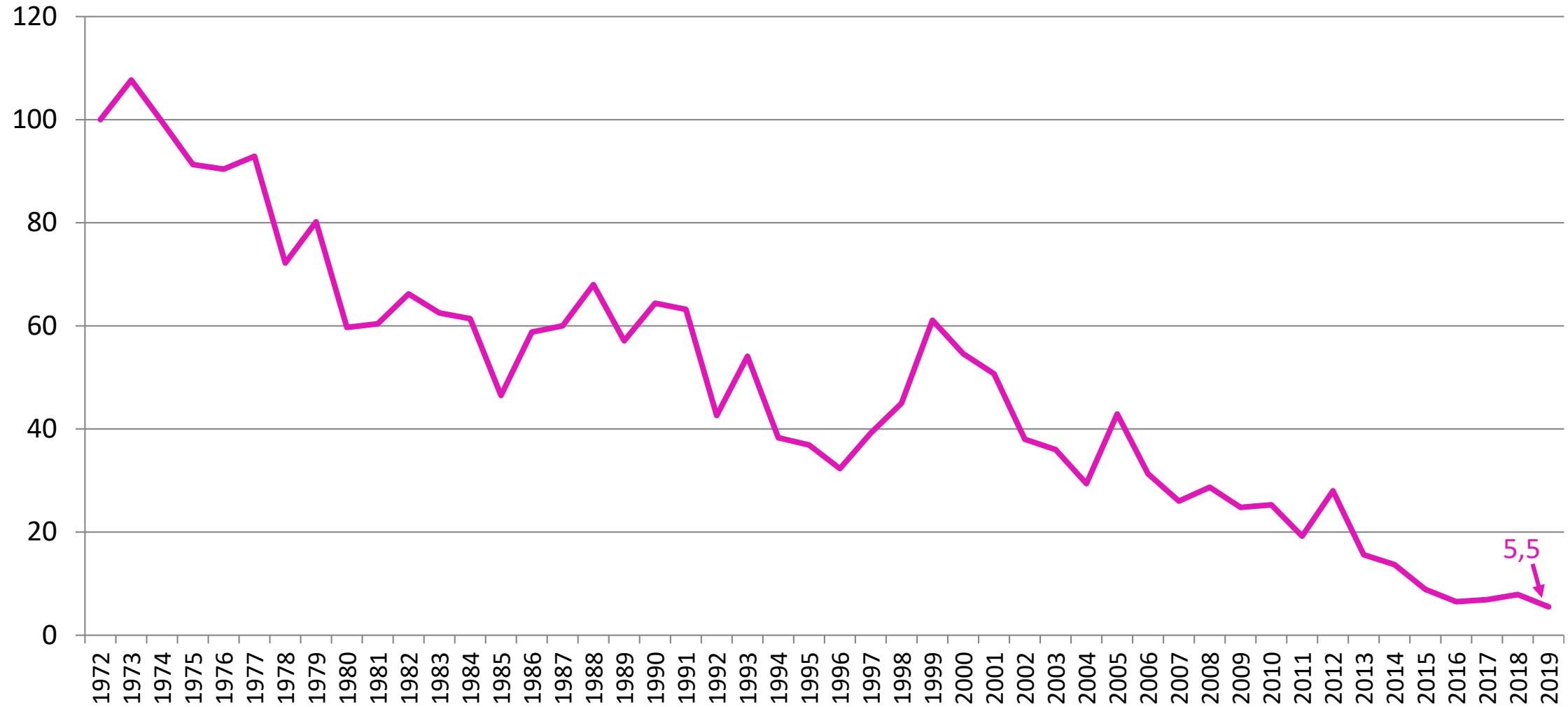
# Excavation (tons) for ore in 2001–2018



# Total excavation (tons) of 16 biggest mines in Finland 2019



# Accident frequency mining accidents that resulted in more than one day away from work 1972 - 2019 (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)

Address: Valtakatu 2, 96100 ROVANIEMI

- [kaivosasiat@tukes.fi](mailto:kaivosasiat@tukes.fi) / [miningauthority@tukes.fi](mailto:miningauthority@tukes.fi)

## Homepage of the mining authority

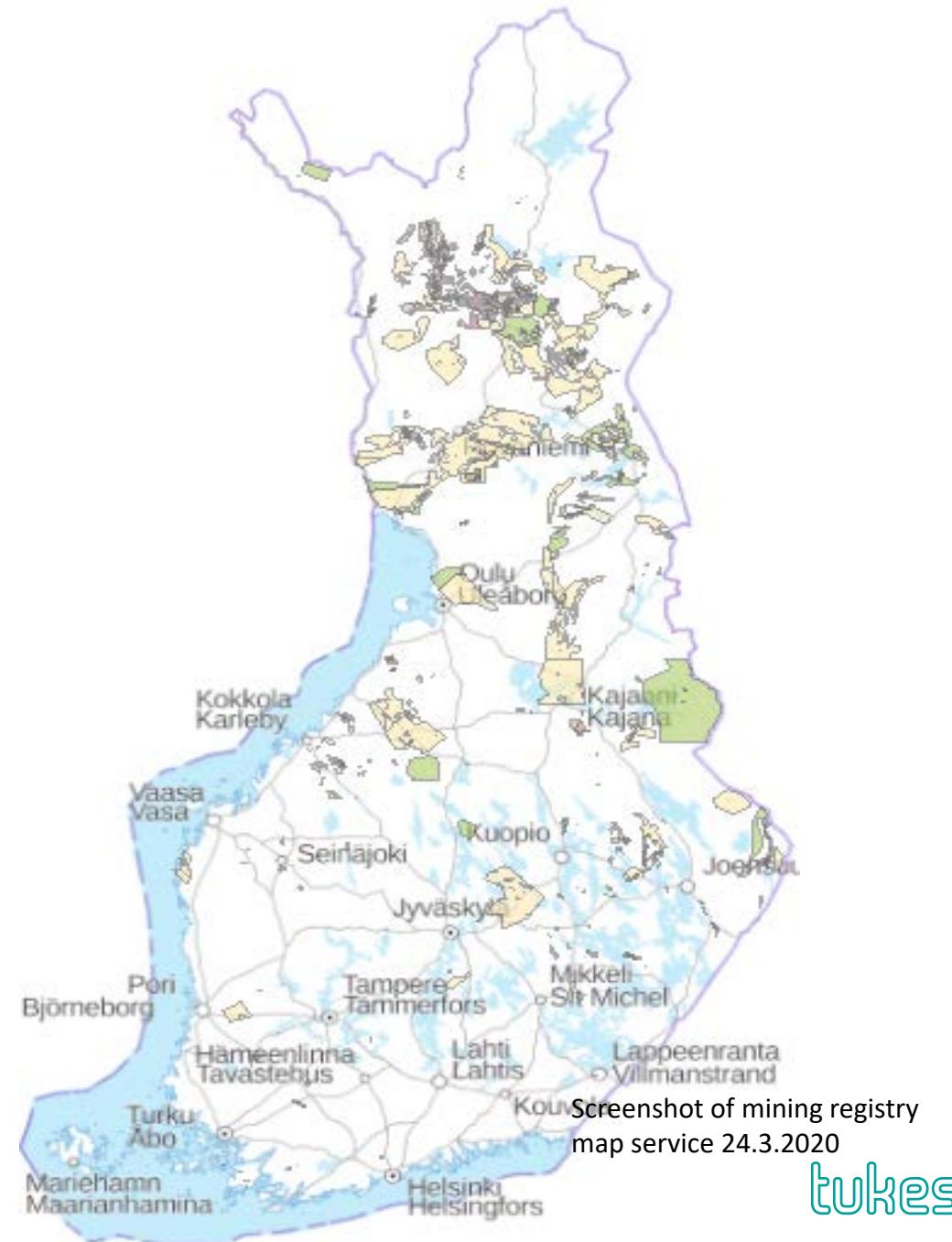
- <https://tukes.fi/en/industry/mining-ore-prospecting-and-gold-panning>

## 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 of mining registry map service 24.3.2020