

# MINERAL RESOURCE BASE

Resources and reserves as of 31 december, 2020<sup>1</sup>

Ore kt

## NORILSK NICKEL GROUP

TOTAL PROVEN AND PROBABLE RESERVES	742,833
TOTAL MEASURED AND INDICATED RESOURCES	2,018,551
TOTAL INFERRED RESOURCES	575,384

## TAIMYR PENINSULA

Proven and probable reserves	663,128
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### Proven reserves

Talnakh ore field, including	315,314
rich	50,942
cuprous	14,735
disseminated	249,637
Norilsk-1 deposit (disseminated ore)	18,666

### Probable reserves

Talnakh ore field, including	307,493
rich	73,441
cuprous	64,185
disseminated	169,867
Norilsk-1 deposit (disseminated ore)	21,655

Measured and indicated resources	1,702,906
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Talnakh ore field, including	1,546,330
rich	107,875
cuprous	66,870
disseminated	1,371,585
Norilsk-1 deposit (disseminated ore)	156,576

Inferred resources	433,234
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Talnakh ore field	433,234
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## KOLA PENINSULA (disseminated ore)

Proven and probable reserves	79,705
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Proven ore reserves	40,578
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Probable reserves	39,127
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Measured and indicated resources	315,645
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Inferred resources	142,150
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Metal grade						Contained metal					
Ni %	Cu %	Pd g/t	Pt g/t	Au g/t	6 PGM g/t	Ni kt	Cu kt	Pd koz	Pt koz	Au koz	6 PGM koz
0.88	1.56	3.71	0.98	0.21	4.93	6,530	11,590	88,606	23,491	5,115	117,681
0.69	1.14	2.96	0.84	0.18	3.98	13,828	22,989	191,932	54,292	11,494	258,127
0.79	1.38	3.17	0.82	0.19	4.15	4,537	7,915	58,684	15,256	3,540	76,695
0.91	1.71	4.15	1.10	0.24	5.51	6,036	11,347	88,533	23,443	5,092	117,558
0.80	1.51	3.69	0.99	0.22	4.88	2,513	4,756	37,365	10,080	2,219	49,448
2.56	3.12	6.03	1.25	0.23	7.58	1,302	1,589	9,874	2,043	383	12,415
0.94	3.76	9.22	2.23	0.62	11.59	139	554	4,368	1,056	292	5,488
0.43	1.05	2.88	0.87	0.19	3.93	1,072	2,613	23,123	6,981	1,544	31,545
0.35	0.51	3.87	1.58	0.17	5.72	65	95	2,322	950	104	3,434
1.10	2.09	4.64	1.13	0.27	6.09	3,397	6,417	45,859	11,207	2,635	60,197
2.91	4.03	7.42	1.46	0.27	9.51	2,137	2,959	17,512	3,438	628	22,453
0.75	3.06	6.86	1.79	0.49	8.87	484	1,967	14,147	3,689	1,017	18,294
0.46	0.88	2.60	0.75	0.18	3.56	776	1,491	14,200	4,080	990	19,450
0.28	0.36	4.29	1.73	0.19	6.43	61	79	2,987	1,206	134	4,479
0.68	1.29	3.50	0.99	0.21	4.70	11,658	21,934	191,461	53,990	11,322	257,295
0.73	1.38	3.50	0.95	0.21	4.66	11,213	21,368	174,034	47,311	10,612	231,715
3.25	4.30	8.05	1.61	0.30	10.24	3,504	4,635	27,907	5,586	1,029	35,530
0.96	3.89	8.88	2.28	0.63	11.41	644	2,601	19,087	4,892	1,350	24,522
0.52	1.03	2.88	0.84	0.19	3.89	7,065	14,132	127,040	36,833	8,233	171,663
0.28	0.36	3.46	1.33	0.14	5.08	445	566	17,427	6,679	710	25,580
0.84	1.73	4.20	1.09	0.25	5.48	3,641	7,474	58,500	15,135	3,480	76,375
0.84	1.73	4.20	1.09	0.25	5.48	3,641	7,474	58,500	15,135	3,480	76,375
0.62	0.30	0.03	0.02	0.01	0.05	494	243	73	48	23	123
0.58	0.25	0.03	0.02	0.01	0.05	236	101	37	27	11	66
0.66	0.36	0.03	0.02	0.01	0.05	258	142	36	21	11	57
0.69	0.33	0.05	0.03	0.02	0.08	2,170	1,055	471	302	172	832
0.63	0.31	0.04	0.03	0.01	0.07	896	441	184	121	60	320

<sup>1</sup> Excluding deposits in Zabaykalsky Region. Data regarding the mineral resources and ore reserves of the deposits of the Taimyr and Kola Peninsulas were classified according to the Australasian Code for Reporting of Mineral Resources and Ore Reserves (JORC code), created by the Australasian Institute of Mining and Metallurgy, the Australian Institute of Geoscientists, and the Minerals Council of Australia, subject to the terminology recommended by the Russian Code for Public Reporting of Exploration Results, Mineral Resources, Mineral Reserves (NAEN Code). The six platinum group metals (PGMs) are platinum, palladium, rhodium, ruthenium, osmium, and iridium. The four elements are platinum, palladium, rhodium, and gold.



Nornickel boasts a unique mineral resource base of Tier 1 assets in Russia, on the Taimyr and Kola Peninsulas and in the Zabaykalsky Region. Nornickel's continued focus on replacing and expanding its resource base is essential to its long-term development.

Ore reserves at Zabaykalsky division at year-end – 301 mln t, average metal content: Cu – 0.7%, Fe in magnetite concentrate – 22.4%, Au – 0.84 g/t<sup>1</sup>. Reserves life: 31 years.

**>75** years  
of resources at the current production rate

## RESOURCES AND RESERVES

Item <sup>2</sup>	2018	2019	2020
Proven and probable reserves			
Ore, mln t	785	757	743
Nickel, mln t	6.9	6.7	6.5
Copper, mln t	12.1	11.9	11.6
PGMs, Moz	123	120	118
Measured and indicated resources			
Ore, mln t	2,209	2,193	2,019
Nickel, mln t	15.3	15.2	13.8
Copper, mln t	23.5	23.2	23.0
PGMs, Moz	263	260	258

<sup>1</sup> According to the Russian classification (A + B + C1 + C2).

<sup>2</sup> Data on mineral resources and ore reserves are based on the JORC Code, exclude GRK Bystrinkoye's deposits. The 2018–2019 data include the Honeymoon Well project.