

Environmental management systems for border areas
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Transition from the Strategy of Socio-Economic Development of Territories to the Strategy of Sustainable Development



ЭКОНОМИЧЕСКИЙ ФАКУЛЬТЕТ
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Polar Index is a joint project of the PORA Expert Center and the Environmental Economics Department, Lomonosov Moscow State University

The project is aimed at promoting the **sustainable development principles** in the Russian Arctic



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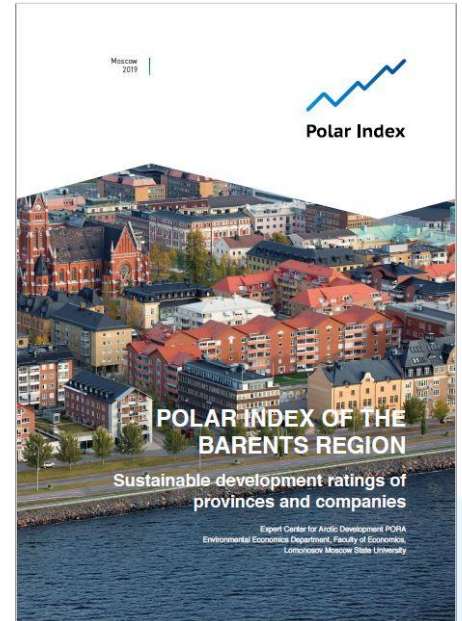
Under the inception phase of the project, two independent, although interconnected, sustainable development ratings were designed, one for the Russian Arctic regions, and the other for the companies operating there.

New stage of the Polar Index project: going international.

PORA and the MSU Faculty of Economy launch a new sub-project, **the Polar Index of the Barents Region**.

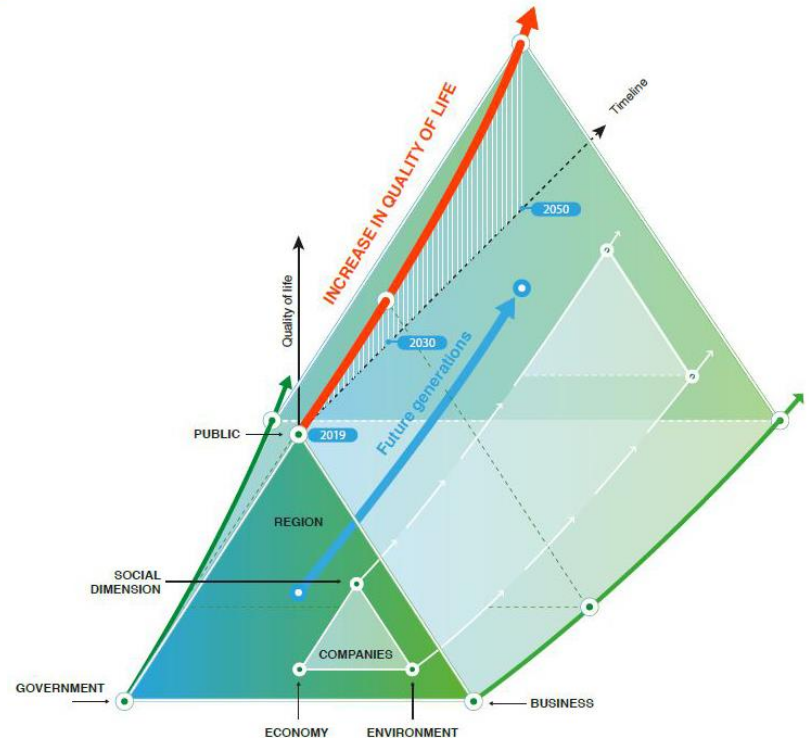
Two ratings were created:

- first sustainable development rating of the Barents region **provinces**;
- sustainable development rating of the **companies** operating in the Barents region



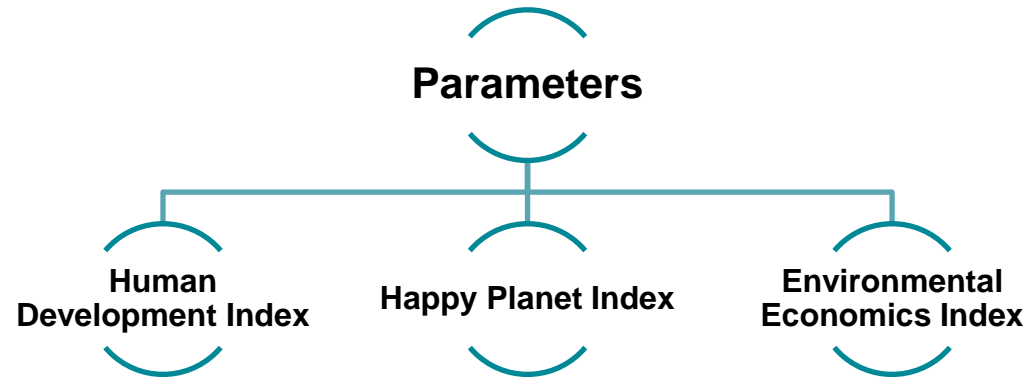
The ratings are methodologically based on the so-called **triple score concept**: sustainable development is interpreted as a balance of its economic, environmental and social components.

In terms of this triple score concept implemented under the Polar Index project, the sustainability in the Arctic is seen as a multilevel model based on the nested doll principle.



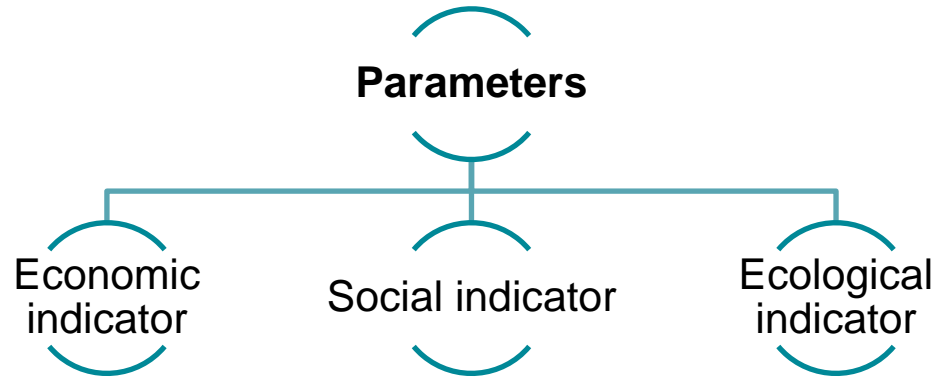
The methodology for calculating the provinces sustainability rating is based on three aggregate parameters as follows:

- Human Development Index (UN methodology)
- Happy Planet Index (updated)
- Adjusted Environmental Economics Index



The methodology for calculating the sustainability rating of the Barents region business entities is based on three aggregate parameters as follows:

- Economic indicator: Revenues, Payments to governments, etc.
- Social indicator: Number of employees, Serious incident frequency, Social investments, etc.
- Ecological indicator: CO2 emissions, Waste generated, Waste recovered, etc.



No.	Region (province)	Country	Polar index	Change
1	Norrbotten	Sweden	0.971	0
2	Västerbotten	Sweden	0.970	0
3	Murmansk oblast	Russia	0.966	0
4	Troms og Finnmark	Norway	0.938	
5	Nordland	Norway	0.923	↑ +2
6	Republic of Karelia	Russia	0.918	↓ -2
7	Komi Republic	Russia	0.889	↓ -1
8	Northern Ostrobothnia	Finland	0.853	↑ +2
9	Kainuu	Finland	0.851	↑ +2
10	Lapland	Finland	0.849	↑ +3
11	North Karelia	Finland	0.822	
12	Arkhangelsk Oblast	Russia	0.812	↓ -3
13	Nenets Autonomous District	Russia	0.801	0

No.	Company	Country	Polar index	Change
1	Rosneft	Russia	0.912	↑ +1
2	Lukoil	Russia	0.906	↑ +2
3	Equinor	Norway	0.901	↓ -2
4	Nornickel	Russia	0.787	↑ +3
5	Boliden Group	Finland/ Sweden	0.785	0
6	DEA Norge	Norway	0.783	↑ +2
7	Agnico Eagle Mines	Finland	0.782	↓ -1
8	ALROSA	Russia	0.763	↓ -5
9	PhosAgro	Russia	0.757	0
10	Gazprom	Russia	0.733	↑ +3
11	Severstal	Russia	0.726	↓ -1
12	Nordic Mining	Norway	0.723	↓ -1
13	Nenets Oil Company	Russia	0.706	↓ -1
14	Gazprom Neft	Russia	0.700	
15	Norge Mineral Resources	Norway	0.680	↑ +3 (+2)

16	LKAB	Sweden	0.668	↓ -2 (-1)
17	Sydvaranger Gruve	Norway	0.656	↓ -2 (-1)
18	Fortum	Finland	0.648	
19	SSAB	Sweden	0.627	
20	Consedo	Norway	0.588	↓ -4 (-1)
21	Leonhard Nilsen & Sønner	Norway	0.585	↓ -4 (-1)
22	First Quantum Mines	Finland	0.564	↑ -2 (+1)
23	Statkraft	Norway	0.553	
24	Dragon Mining	Sweden	0.495	↓ -5 (-1)
25	Rusal	Russia	0.450	↑ +1 (+5)
26	Beowulf Mining	Finland/ Sweden	0.425	↑ -2 (+2)
27	Nussir	Norway	0.417	↓ -5 (-1)
28	Aurion Resources	Finland	0.408	↓ -7 (-3)
29	Sunstone Metals	Sweden	0.392	↓ -4 (0)
30	Skaland Graphite	Norway	0.341	↓ -7 (-3)



PORA Expert Center (Project Office for the Development of the Arctic)

A Russia-wide platform for communication between government, public and business entities interested in sustainable development in the Arctic. The PORA Expert Center's mission is to raise public awareness of social, economic and environmental aspects of human activities in the Russian North.



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Environmental Economics Department , M.V. Lomonosov Moscow State University Russia's leading think tank in the field of environmental protection and stewardship both globally and regionally. The Department played a major role in introducing the concept of sustainable development in Russia.