

2050

Future scenarios for the world of raw materials 2050

Scenario 1:

SUSTAINABILITY ALLIANCE

A new generation puts sustainability above everything else to keep deposits for future generations.



<http://s.fhg.de/INTRAW1>

political leaders form an alliance to push reforms that focus on increasing sustainability



there is only green mining and a reduced consumption of primary raw materials



environment-friendly way of producing with the aid of green technologies



increased use of high tech for exploration and extraction



substantial progress in re-use, recycling and substitution of materials



Postcard from the Future. Recommendations for a robust development in Scenario 1



Scenarios compiled by Fraunhofer IAO | www.intraw.eu



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Scenario 2:

UNLIMITED TRADE

Increased global consumption leads to raw materials growth.



<http://s.fhg.de/INTRAW2>

increased demand for raw materials due to growing consumption



integration of processing industry



international cooperation and elimination of trade barriers



increased use of high tech for exploration and extraction



recycling gains importance



wide application of remote mining



Postcard from the Future. Recommendations for a robust development in Scenario 2



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Scenario 3:

NATIONAL WALLS

Economic standstill gives rise to nationalist politicians and protectionist measures.



<http://s.fhg.de/INTRAW3>



countries that abandoned mining have re-started



mining technology development is at a standstill, but some countries have to catch up



little economic growth, mostly boosted by national government



no collaboration across national borders



acceptance of mining (it is a necessity)



mining practices are basically the same as 40 years ago

less mining employees than 30 years ago

Postcard from the Future. Recommendations for a robust development in Scenario 3



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