



Raw materials shortage influencing the path for Sustainability





Some expected raw materials shortages

Sustainable Cotton for Fashion Brands – On 2018, only 21% of cotton worldwide was grown sustainably: difficult to meet demand, due to small farmers financial efforts linked to those sustainable practices

Battery Inputs - The supply of lithium, nickel, cobalt, manganese and graphite is now less than 1/3 of what will be required to meet only the battery demand in 2030 for automotive, according to Cairn Energy Research Advisors. Lithium production should increase by 20 times since now to 2030. There is a shortage also of rare earths, useful for cell phones, computers, televisions, etc..

Recycled Plastics - According to BCG analysis, about 45% of the demand for rPET will be unmet by 2025. rPET packaging targets in consumer-packaged goods companies are well difficult to be achieved.

Green Hydrogen - Industry projections of supply and demand of green hydrogen suggests production capacity will need to grow by a factor of 100 to 200 over the next 30 years to meet demand.



EuChemS Periodic Table

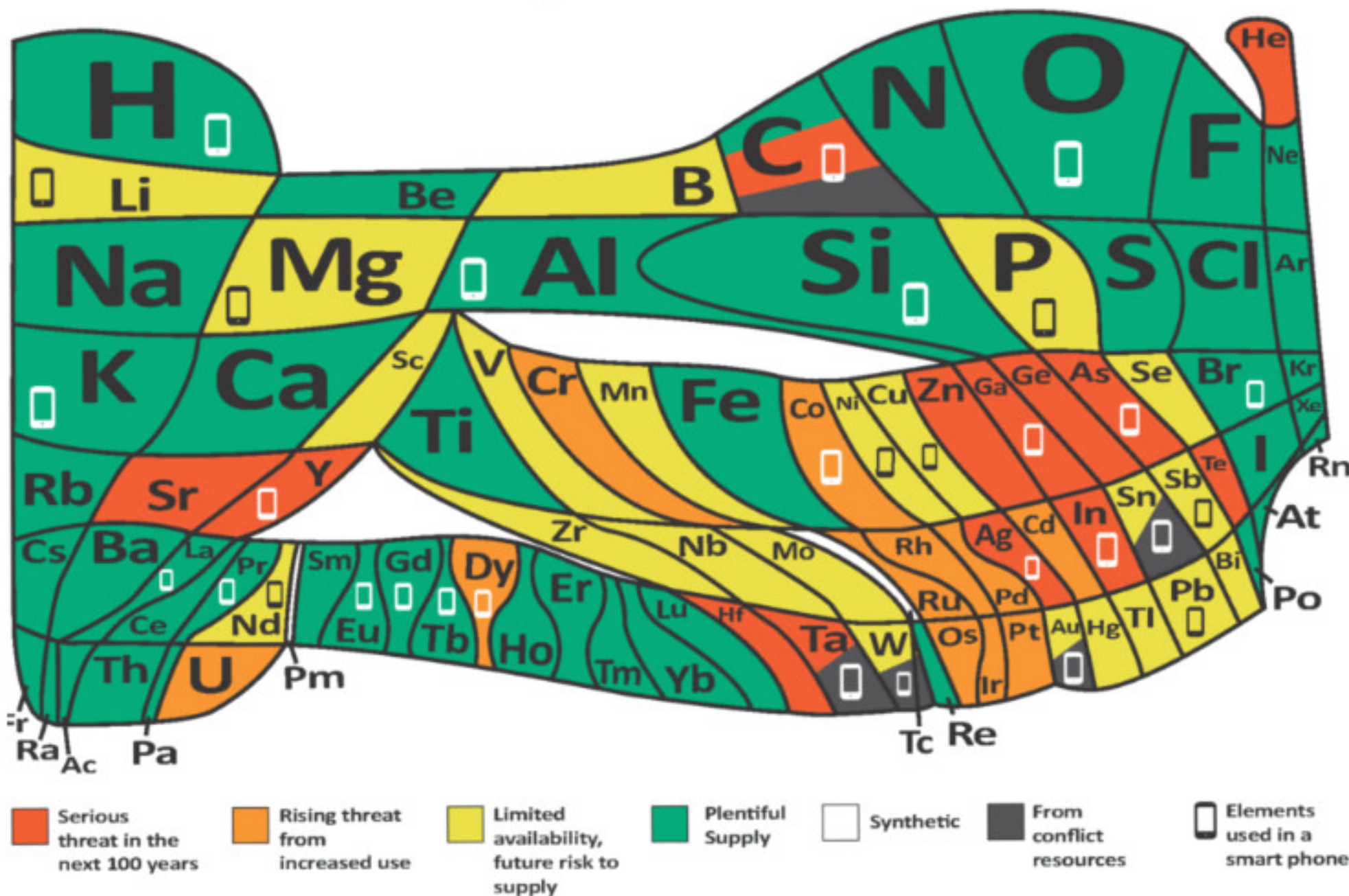
Eco-transitions and scarcity risks

1. 39 elements at risk of shortage
2. Stop using grey-black elements from conflict resources
3. Rare earths and special clays come also from war zones, such as Ukraine

BUT.... The materials consumption for renewable electricity supply is expected far less than the same supply obtained through fossils use. **!**

The 90 natural elements that make up everything

How much is there? Is that enough? Is it sustainable?



Fonte: <https://www.euchems.eu/euchems-periodic-table/>





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per un confronto
senza impegno**