The circular ecological economy - a beneficial environment in light of the use of natural resources in the Republic of Moldova

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The welfare of the Republic of Moldova much depends on the use of its natural resources. However, the pace at which the natural resources are exploited exceeds the ability of the environment to regenerate them. Land resources are the main natural wealth of the country. The conservation and increase of effective fertility of the soils becomes the basic task of the owners of agricultural lands. The methods of the conventional agriculture do not work anymore to make the sector competitive at regional and global markets. New concepts and technologies of Green and Circular economy are of more perspective. They also are more effective under the continuous unbalanced extraction of natural resources which causes environmental damage.

The case of Moldova reflects the global trends. Some international studies have shown that the global consumption of materials per capita has doubled, while the consumption of primary energy has tripled in the last hundred years. In other words, each of us consumes three times as much energy and twice as much material as our predecessors consumed in 1900. Moreover, nowadays there are 7.2 billion consumers compared to 1.6 billion in 1900.

At the same time, the requirements for quality standards in Green economy are very high and rigid as well as “the annual financing demand to green the global economy has been estimated to be in range 1.05 USD to 2.59 USD trillion” (UNEP, 2011). That is why the Circular ecological economy is seen as more viable solution for world, regional and national economies. “Ecological economy” generally refers to an economy in which all the choices regarding production and consumption are made taking into account the welfare of the society and the global health of the environment. “Circular economy” implies a system of production and consumption that generates as little loss as possible.

The EU Circular economy Package and CE Stakeholder Platform are a good start for regional economy as well as that of Republic of Moldova as its Associate Member. The beneficial solution for improving the environment of the country consists in redesigning products, production and consumption processes by minimizing waste and transforming that unused part into a resource.