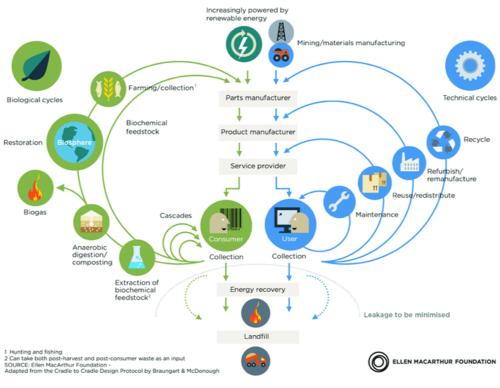


WASTE MANAGEMENT

Circular Economy











 The growth of industrial production, the generation of electric energy and heat, extraction of mineral raw materials, agricultural ctivities related to the growth of the number of inhabitats and caused by increased requirements for living, transport, consuption, infrastructure results in increasing requirements the quality of the environment.



- There is influence increasingly showing itself on the global scale.
- Since the industrial revolution in the 19thcentury environmental pollution has extended to a global cross-border problem.





- The use of fossil fuels increased 12-times during the 20th century.
- From 1990 to 2010 the emissions from the combustion of fossil fuels increased by 50%. It is estimated that almost 50% of European waste generated is being landfilled.





FROM LINEAR TO CIRCULAR ECONOMY







- A current linear model of economic growth does not correspond to the needs of today's society.
- To ensure sustainable growth it is necessary to use resources more intelligently and sustainably.





- If the product reaches the end of its life cycle, resources are not eliminated from the economy, but they are reused for creating a new value.



- In comparison with the linear model, the circular economy separates economic growth from the need to extract new and rare materials.
- The materials are saved, reuse, there is a change in the eco-design of products, and by developing new products and services with decreased material requirements or reuse in the circular cycle.



- Production and consumption:
 - self-sufficiency for raw materials
 - avoiding the generation of waste and reducing, change the consumer behavior
 - reducing food waste





- Waste management:
 - increasing recycling rate
 - the recycling rate of specific waste streams





- Secondary raw materials:
 - contribution of recycled materials to raw materials demand
 - trade in recyclable raw materials





- Competetivnes and innovation
 - green jobs and investments
 - o patentsrelated to recycling

