The RessWInn project focuses on networking and on the transfer of knowledge between the ReziProK projects and beyond. RessWInn will provide technical assistance for the participating projects during their whole funding period, with the main goal to support the networking activities and to support the implementation of their research into industrial practice. This will be done through the organization of events and workshops as well as compiling the research results from the individual projects for dissemination and communication with relevant target groups.

DECHEMA coordinates the networking and research transfer project RessWInn, supported by N Nachhaltigkeitsberatung Dr. Friege & Partner as project partner.
From a linear to a circular economy

Due to a growing world population and the rising standard of living in some areas of the world, the global consumption of raw materials is currently increasing. In Germany alone, 16.1 tonnes of raw materials were consumed per capita in 2017 (Federal Environment Agency, 2018).

Due to the environmental consequences of the high consumption and the limited availability of raw materials it is essential to fundamentally transform the up-to-now mostly linear supply chains (which typically start with raw material extraction, followed by production, (product)use, and disposal) into circular supply chains.

Besides the social and environmental motivation, from an economic point of view, the aim of creating such a resource-efficient circular economy is to maintain the value of products, components and raw materials within the economy as long as possible.

Within the five main case study themes in ReziProK, opportunities for implementing circular economy solutions in various industry sectors will be investigated.

Main topics of ReziProK

- Extended and more intensive product use
  Electronic products, reusable packaging, pumps, clothing sector, construction materials for interior design, furniture and exhibition stands, smartphones, refrigerators

- Increasing the use of recycled materials
  Building materials, secondary plastics, fabric fibres, used tyres, foundry and steel industry

- Remanufacturing
  Capital goods such as machines, technical plant components, industrial knives

- Blockchain
  Aircraft industry

- Recyclable electric vehicles
  Electric cars, e-cargobikes

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