



RESYNTEX has 20 project partners from across ten different EU member states. Partners include industrial associations, businesses, SMEs and research institutes.



AboutGoods is a startup based in Annecy, France and launched in June 2012. It uses mobile Internet to strengthen relationships between consumer and consumer goods through an innovative Consumer Assistant mobile Apps suite. Thus, producers, retailers and market research companies can gather relevant information on consumption behaviour direct from the consumers themselves. Its innovative R&D on picture recognition and the semantic web has quickly become recognised by global brands.



Arkema is a leading chemical company with products in specialty chemicals, industrial chemicals and acrylics. It currently operates several plants using renewable resources, such as castor oil for its polyamides. The company will contribute to various tasks throughout the project and valorise the polyamide concentrated oligomers generated.



Biochemtex is a global leader in the development and engineering of technologies and biochemical processes based on the exclusive use of non-food biomass, as an alternative to oil. The company runs two research centres in Italy.

Thanks to a partnership with Beta Renewables, it realises technologies and plants to produce bioethanol and other chemical intermediates. After seven years of studies and €150 million of investment, Biochemtex developed the PROESA™ process, an exclusive technology platform commercialized by Beta Renewables.



Research activities at **BOKU's** Institute for Environmental Biotechnology focus on microbial processes to exploit natural resources. For instance, the degradation or detoxification of pollutants (in soil, water and waste) using biotechnical strategies is investigated. Enzymes are exploited as powerful biocatalysts for material processing, in recycling applications and bioenergy production.

The team participating in RESYNTEX has extensive knowledge and technical experience from industrial projects on the use of enzymes for processing polymers. BOKU will develop the enzymatic steps in polymer recycling where suitable enzymes are already available.



CEFIC is the Brussels-based organisation representing the European chemical industry. It represents, directly or indirectly, about 29,000 chemical companies which employ about 1.3 million people and account for nearly a third of world chemical production. CEFIC addresses key issues of global importance, such as competitiveness, research & innovation, EU chemicals policy, international trade, climate change and energy.



CHIMAR is an SME that develops and provides competitive technology and services to the global resin and wood-based panel industries. Since 1977, its technology has been used for the industrial production of adhesive resins and additives as well as for the application of these products in the industrial manufacture of wood-based panels. Such wood panels are used in furniture and building construction.



Dettin was established in 1962 and has 50 employees. Its activity is divided into two core areas. The first is the construction of equipment for the petrochemical, chemical and pharmaceutical industries. Its second focus is the design and manufacture of specialised textile machinery, including centrifuges and dryers.



The European Apparel and Textile Confederation, EURATEX, is the political voice of the textile and clothing industry in Europe. Its mission is to create a favourable environment within the European Union for manufacturing of textile and fashion products. The industry remains an essential pillar of the local economy across the EU regions. EURATEX member federations represent 173,000 companies of an industry with a turnover of €165 billion, employing 1.66 million workers.



Founded in 1984, **Imec** performs world-leading research in nanoelectronics. It leverages its scientific knowledge with the innovative power of its global partnerships in ICT, healthcare and energy. Imec delivers industry-relevant technology solutions. In a unique high-tech environment, its international top talent is committed to providing the building blocks for a better life in a sustainable society. IMEC is based in Belgium and has research centres in the Netherlands, China, Taiwan and India, employing about 2000 people.



Founded in 2006, the **Institute for Environmental Protection and Sensors (IOS Ltd.)** is a private research company. Its core business is research and development in the field of optical sensor systems, scientific related services in the area of optical sensors and environmental protection, environmental compliance monitoring and preparation/presentation of technical courses to industrial and governmental clients in Slovenia and abroad. IOS currently has 17 employees, all working in research – 9 employees with a PhD and 2 PhD students.



Manchester
Metropolitan
University

MMU provides an academic and creative bridge between the arts, business and science. It has an international reputation for excellence and innovation. The Department of Apparel is the UK's largest provider of fashion-related courses, with strong links with industry and commerce. The School of Science & The Environment has extensive experience of environmental management and sustainable development.



National Technical
University of Athens

The Chemical Engineering School at **NTUA** is the largest in Greece and one of the largest worldwide with 4 departments and 88 academics. It participates in RESYNTEX through the Process Analysis and Plant Design (PAPD) and the Synthesis and Development of Industrial Processes (SDIP) departments. PAPD offers expertise in modelling, optimisation, process synthesis and design, while SDIP's Bio-resource Technology Unit specialises in organosolv technology, techno-economic analysis and the coordination of research networks related to waste valorisation processes.



Prospex Institute, a non-profit organisation, aims to promote the participation of citizens and stakeholders in societally relevant decision-making and dialogue processes. It employs top professionals with extensive expertise in engaging broad stakeholder groups and builds its reputation through a wide array of participatory methodologies.

Prospex Institute's experts have worked extensively for public organisations, businesses and civil society around the world, on a broad range of issues and across sectors, including innovation, technology, environment and ICT.



Founded in 1985, **SEPAREx** is an SME specialised in supercritical fluid (SCF) technology. As a member of the FeyeCon group since 2012, it is now the European leader in the field. SEPAREx is the sole company to offer R&D services (process development), as well as toll manufacturing, equipment design and construction.

Recently, FeyeCon group, through its joint venture DyeCoo, have launched the first industrial waterless dyeing process for sportswear textiles. To close the textile processing loop, SEPAREx is developing a discolouration process for recycled textiles that will be optimised in the RESYNTEX project.



As the global leader in used textile marketing and recycling, with offices and shareholdings in 7 countries and more than 1,000 employees, the **SOEX GROUP** has been giving a new lease on life to used clothing for over 30 years. With subsidiaries and shareholdings, the SOEX GROUP covers the entire value chain for used textile collection, recycling, reuse and marketing on 6 continents.



**SUSTAINABILITY
CONSULT**

Sustainability Consult is the leading bioeconomy communications agency, working with organisations to build their visibility and credibility. It offers sustainability communications and policy communications across sectors. Based in Brussels and operating internationally, it also offers professional communications support to EU projects, including Horizon 2020.

Founded in 2008 by CEO Kathryn Sheridan, a former environment journalist with a vision for a values-based consultancy, Sustainability Consult promotes credible communications. It is an outspoken advocate for the responsible development of emerging technologies and start-ups.



Tekstina is the leading supplier of engineered textile solutions. Founded in 1828, it employs 70 staff including 7 registered researchers and has 2 main laboratories. An innovative, customer focused approach ensures it can design, develop, test and deliver a wide variety of fabrics to international companies. It provides pragmatic advice and recommends the best material choices and most appropriate selection of fit-for-purpose finishes.



Quantis is globally recognised as a leading company in life cycle assessment (LCA) consulting, IT/software, training and research. It specialises in supporting companies or institutions to measure, understand and manage the environmental impacts of their products, services and operations. Quantis has offices in Switzerland, France, Germany and the USA.



University of Maribor

Faculty of Mechanical Engineering

The University of Maribor is the second largest university in Slovenia. Its Laboratory for Chemistry and Environmental Protection is part of the Institute of Engineering Materials and Design. It has the following main research areas:

- Solid textile waste recycling
- Discoloration of textile and other industrial wastewater
- Development of sensors
- Selective adsorption
- Nano-encapsulation



Valagro is a private R&D centre based on the valorisation of biomass and industrial by-products. Its mission is to support industrial innovation through the substitution of petrochemical molecules by those derived from biomass and waste. It is organised into 4 main fields of technical expertise: oleochemistry, lignocellulose chemistry, biomaterials and biopolymers and into 3 activities sectors: R&D contract services, industrial production and industrial transfer. 28 patents are fully owned by Valagro. The wholly-owned subsidiary, EcoEthanol, will contribute its expertise on these patented processes to RESYNTEX.