Repurposing CO2: Polymers, surfactants and beyond.

Econic is pioneering the sustainable transformation away from oil or oleo-based raw materials to the use of renewable carbon by repurposing captured CO_2. Our technology is infinitely scalable, and in the process of reducing the carbon footprint our technology gives higher performance, which means less consumption. Econic's process can be used to make cost-competitive, high-quality equivalent, and superior-performing surfactants and polymers.

Polymers derived from CO_2 represent a promising avenue for sustainable materials science, as they offer a novel way to utilize CO_2, a major greenhouse gas, as a feedstock for polymer production. These polymers exhibit unique properties, including enhanced mechanical performance, thermal stability, and biodegradability, making them suitable for a wide range of applications.

Surfactants are the essential ingredient in all water based formulations for products that enhance our lives every day – products like cleaners, personal care products, and paints. They typically contribute over 50% of the carbon footprint and are growing worldwide at over GDP rates. As the world grows and higher standards of living proliferate consumption of life-enhancing products will consume more raw materials. Reengineering supply chains away from diminishing feedstocks to readily available, affordable raw materials allows productive sustainable growth.