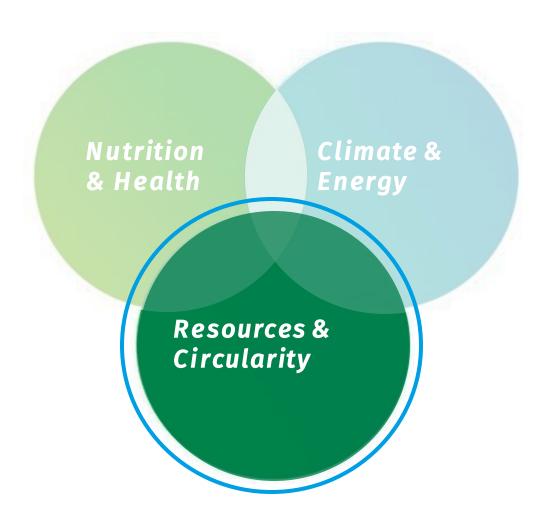


Resources & Circularity







- Improving resource efficiency, including water
- Reducing and recycling waste
- Enabling circular & bio-based solutions: reduce, replace, extend, design, recover
- Increasing yields
- Reducing food loss and waste
- Preserving land, marine biodiversity



Resources & Circularity

Securing the future availability of natural resources and unlocking more value from the limited resources that are available

In order to reach this twofold goal, DSM focuses on five circularity drivers:

reduce

the use of critical resources

replace

scarce,
hazardous, and
potentially
harmful
resources

extend

the lifetime of products

design

for recyclability

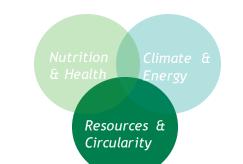
recover

waste streams



Resources & Circularity

Improve. Enable. Advocate.





DSM is turning an inedible **by-product** of rapeseed oil extraction into **valuable food protein** for food & beverages with CanolaPRO™.



DSM is helping to extend shelf life and thus reduce food waste with its portfolio of biopreservatives and antioxidants. Vitamins added to food & beverages prolong shelf life and provide nutritional benefits.



DSM is innovating to help to protect nature, such as creating algae-based alternatives to fish oil to conserve the natural biodiversity of our oceans with Veramaris®.



DSM uses discarded fishing nets as the source to produce the recycle-based polyamide Akulon® RePurposed. It is a versatile, high performance material used e.g. for surfboard accessories.



Measuring Circularity

At the company level

This methodology offers DSM insight into their circularity performance, to...

- to set a baseline on material flows and monitor progress on the transition towards a more circular economy every year next.
- to track progress and determine priorities for improvement through the identification of circular opportunities and linear risks for our company.
- Respond to customer and investor inquiries
- Start value chain conversations around shared circular priorities



With core principles

Simplicity Be as simple as possible within the given context of circular economy

Consistency Drive one common cross industry language and provide consistent insights into circular opportunities and linear risks regardless of company size, sector or value chain position.

Completeness and flexibility Offer a complete set of metrics for any company, regardless of size, sector or value chain position, with the flexibility of accommodating for the most relevant insight needs of the high diversity of businesses.

Complementary Given that circularity is one pathway towards more sustainable production and consumption, it can never be assessed in isolation and will always have to be used to complement other existing sustainability and business metrics.

Neutrality Refrain from generally prioritizing specific materials over one another insofar as they all contribute towards the circular economy.



Measuring Circularity

Online CTI Tool

