# Safe and Sustainable by Design (SSbD) Information Map



### About this map

This Information Map shows what 'Safe and Sustainable by Design' (SSbD) means for companies that develop chemicals and materials. It also provides tips for companies on how to get started with SSbD. In addition, the map is also useful for value chain partners and experts who wish to collaborate closely with these companies. The SSbD concept is still very much under development - what we have provided here is a general overview. This map concerns the development of chemicals and materials. Their subsequent application is also relevant from a safety and sustainability perspective, such as when chemicals and materials are a component or ingredient of products. This Information Map was commissioned by the Ministry of Infrastructure and Water Management of the Netherlands and made by De Argumentenfabriek. The content of the map is based on the outcome of three thinking sessions with experts from the Ministry of Infrastructure and Water Management, knowledge institutions and chemical companies. We thank all of them for contributing their ideas and suggestions.



O Working in a socially responsible manner and anticipating regulation matters, makes companies future-proof.

Companies have a good reputation and are appealing to partners, investors, employees and consumers.

Companies reduce the risk of becoming liable in the future for harm to human health and the environment.

• Value chain partners develop a common language and work method that facilitates cooperation.

## What are the potential drawbacks for companies of 'Safe and Sustainable by Design'?

It takes time to build up the necessary knowledge, skills and collaboration in the value chain.

• To work in accordance with the SSbD principles and achieve long-lasting results, a culture change is necessary.

• SSbD may require the modification of production processes and chemical installations.

O Not all companies will be successful in developing safer, more sustainable alternatives with the same functionality.

## What are some tips for companies that want to get started with 'Safe and Sustainable by Design'?

O Engage in conversation with each other within the company about SSbD and make it part of the company strategy. • Analyse the product portfolio in terms of risks or opportunities with respect to safety and sustainability. Gather information on safety and sustainability from literature, databases, value chain partners and experts. ••• Invest in safety and sustainability knowledge, including toxicology and lifecycle analysis. O Start researching alternative chemicals, materials and processes, and perform interim assessments.

