

Cleaning with bubbles

The need

Reducing water use is an important goal of the food and drinks sectors. This project will assess the impact on water use and the removal of soils and biofilms when micro- and nano-scale bubbles are introduced into the water used for cleaning and washing.

The approach

The bubbles of most interest have diameters below 40 microns.

Our studies will:

- Identify suitable bubble generation methods
- Carry out pilot scale testing for removal of soils and biofilms
- Estimate costs
- Carry out full scale trials at members' factories.

Other applications

In addition to uses in cleaning, fine bubbles are being used in a range of applications in Japan. Improving plant growth and development of new food products will be considered alongside this project.

