U21 RISE AWARDS FINALISTS

Brief project summaries

1. **KulturKök Lund**, a student-run group that aims to reduce food waste through regular food pick-ups. Through collaborating with local businesses, they collect food that would otherwise be thrown away yet is still in good condition. This food is cooked and served the community. All meals are provided free of charge.

2. **Desalination with industrial waste heat** is a new desalination method that uses industrial waste heat to clean seawater. As the method uses a waste product the energy consumption is really low. It cost only 0.06€ to clean 1000 litres, that’s 30 times cheaper than swedish tap water.

3. **From Theory to Practice: Food Waste Reduction Strategies in Literature and a Case Study of Municipalities in Skåne** has developed a concrete framework of food waste-reduction strategies, which can be used by municipalities and other actors, including relevant action which has been taken locally, in order to inspire further change by the other municipalities.

4. **Hydromesh** has created an AI with machine learning called the Hyve. The Hyve aims to decrease the demand of energy from the grid, leading to a relief of the tense situation on the energy market, where we face a shortage of energy supply both locally and globally.

5. **Circle Centres** goal is to prevent unnecessary consumption and waste by offering a convenient, accessible place for community members to borrow items rather than having to buy them new. They also host open educational events and hands-on workshops focused on sustainable living and reuse.

6. **GreyGrown** is an impact startup project concerned with the filtration and reuse of household greywater for the irrigation of edible foods in non-sewered areas of developing countries. A simple greywater purification device is proposed that addresses both health and environmental risks of using greywater on edible foods.

7. **INVOLVER** works on matching strength and weaknesses of excluded groups together so they can empower one another into social exclusion. As well as developing a foundation were governments take part of user experiences and knowledge for staff recruitment and tool development.

8. **UAV Works for sustainable development in Dhading district, Nepal’s** aim is to use UAV mapping in order to prepare cartographic material on a zonal level and create a solid foundation for development activities as well as manually helping with the renovation of the local school.

9. **Solar4Schools** has developed an automatic stand-alone solar system for schools in developing countries who are struggling with access to affordable and clean energy. By changing the assembling process, Solar4Schools has designed a unique, off-grid solar product with fewer parts.

10. **SHEMS (Swedish Hydrological Engineering & Modelling Solutions)** are providing advanced Hydro-engineering modelling services using a newly developed hydrologic model. Additionally, open-source software and data is used if needed to deliver interactive hydrologic maps and build spatial databases to clients. An example is flooding modelling, simulation and visualisation.