

17.10.2017  
Hamburg

Workshop

**Closing the loop-  
Challenges for the future of  
food waste valorisation**



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**TUHH - Hamburg University of Technology**

**17 October 2017**



**DECISIVE**

**A DECENTRALISED MANAGEMENT SCHEME FOR  
INNOVATIVE VALORISATION OF URBAN BIOWASTE**

# Agenda

Hamburg University of Technology (TUHH)  
17 October 2017



## Closing the loop *Challenges for the future food waste valorisation*

Venue: TUTECH: Innovation & Start-up Campus at Startup Dock, Harburger Schloßstr. 6-12, Hamburg  
Moderation: Ina Körner (Hamburg University of Technology) & Andreas Findert (EnergieNetz Hamburg eG)

8:30	<b>Reception</b>
9:00 – 9:10	<b>Welcome</b> <ul style="list-style-type: none"><li>• Prof. Dr. Dr. h.c. Garabed Antranikian, President Hamburg University of Technology</li><li>• Dr. habil. Anne Trémier, IRSTEA, Rennes, France - coordinator of the DECISIVE project</li></ul>
9:10 – 9:30	<b>FOOD WASTE AS BIORESOURCE</b> <b>Potential, collection and recycling of biowaste and food waste: History, status-quo and trends in Germany</b> , Dr.-Ing. Michael Kern (Senior Managing Director of Witzenhausen-Institut für Abfall, Umwelt und Energie GmbH), Germany
9:30 – 9:50	<b>Food waste inventory, prevention, collection and valorisation: challenges on the example of Hamburg</b> , PD Dr. habil. Ina Körner, Hamburg University of Technology (TUHH), Germany
9:50 – 10:10	<b>DECENTRALIZED CIRCULAR SYSTEMS</b> <b>combining food waste and wastewater management in practice</b>  <b>The ecological settlement Lübeck-Flintenbreite and beyond: options for urban-rural co-operation</b> , Prof. Dr. Ralf Otterpohl, Hamburg University of Technology (TUHH), Germany
10:10 – 10:30	<b>From blackwater and food waste to biogas: 10 years of experience with coupled sanitation systems</b> , Brendo Meulman (Technical Director DeSaH BV), the Netherlands
10:30 – 10:50	<b>THE WASTE-FOOD-LOOP</b> <b>Vertical farms, biogas and food waste products: a circular urban farming experiment</b> , Eric Dargent (CEO Refarmers), Lyon, France
10:50 – 11:15	<i>Coffee Break</i>

<p>11:15 – 12:30</p>	<p><b>CLOSING THE LOOP – How we can succeed?</b>  <b>Discussion in a round table panel</b></p> <p><i>Food waste is generated in many sectors e.g. in retail, restaurants and households, but data on food waste are rare. Although bio-waste collection is mandatory in Germany, large amounts are not utilized. Furthermore huge amounts of food are thrown away without being eaten. The panel and the audience will discuss possibilities for the establishment of more effective food waste reduction, collection and valorisation systems under consideration of existing infrastructures.</i></p> <p><b>Moderator:</b> Andreas Findert (EnergieNetz Hamburg eG)</p> <p><b>Participants:</b></p> <ul style="list-style-type: none"> <li>• Prof. Dr. Rüdiger Siechau (CEO Stadtreinigung Hamburg)</li> <li>• Brendo Meulman (DeSaH BV; operator of Dutch eco-village projects)</li> <li>• Dr. habil Anne Trémier (IRSTEA, France; DECISIVE coordinator)</li> <li>• Dr.-Ing. Michael Kern (Senior Managing Director of Witzenhausen-Institut für Abfall, Umwelt und Energie GmbH)</li> </ul>
<p>12:30 – 13:30</p>	<p>Get-together with lunch</p>

## Optional afternoon and evening programme:

### Visit of the ecological settlement Lübeck-Flintenbreite

In the year 2000, the first inhabitants moved into the settlement; today around 250 persons live in Lübeck-Flintenbreite. The settlement is supplied with water saving toilets. The wastewater from bathrooms and kitchens is treated on-site. A small-scale biogas facility is available too, which could be used for local energy production from toilet residues and food waste. Improved methods of food waste collection as biogas feedstock are investigated within the DECISIVE project. The visit includes the following activities:

- Introduction to the settlement
- Guided tour through the settlement
- Information on actual DECISIVE activities in the settlement

After the visit of the settlement a mutual dinner will take place in the “Ratskeller zu Lübeck”, a traditional restaurant in the historic old town of Lübeck.

Start of the bus tour in Hamburg: **14:15 pm; in front of TUTECH building**  
 Return of the bus: **Around 22.00 pm in Hamburg/Hamburg-Harburg**

The visit is primarily reserved for the DECISIVE-members but **a limited number of bus seats will be available for other workshop participants** as well. **Please register early!** Placing is done by order of registrations.

# Practical information

## Registration and costs

### Workshop event with lunch

**Free of charge.** The workshop is limited to 80 participants

### Visit of the ecological settlement with Dinner in Lübeck

For DECISIVE members: free of charge

For all other participants: **50 € per person**

### Registration


**Till 31<sup>st</sup> August 2017** for the Lübeck tour

**Till 15<sup>th</sup> September 2017** for the workshop

Please make your registration for the **workshop event** by writing an email with the subject “registration DECISIVE workshop” to Erneszt Kovács ([ek@acrplus.org](mailto:ek@acrplus.org)).

For the registration of the **visit to the ecological settlement with dinner in Lübeck**, please write an email with the subject “registration Lübeck tour” to Ole Wilke ([o.wilke@energienetz-hamburg.de](mailto:o.wilke@energienetz-hamburg.de)).

## How to access the venue



**How to reach us**  
TUTECH INNOVATION GmbH is located in the southern part of Hamburg in the redeveloped former inner harbour Harburger Binnenhafen called “channel hamburg”.

**Innovation & Start-up Campus at Startup Dock**  
Harburger Schloßstr. 6-12  
21079 Hamburg , Germany  
(postal address)

**By public transport**

**From Hamburg-Harburg train station (regional and long-distance trains)**

- The walk to Tutech is approx. 15 minutes;
- or take a short taxi ride.

**from Hamburg main station (Hauptbahnhof)**

- By S-Bahn S31 to Harburg Rathaus or S3 to Neugraben/Buxtehude/Stade. Get off at the station Harburg-Rathaus (journey time approx. 15 minutes; trains are frequent). Head for the exit in the direction of the train. At the top of the escalator turn towards the exit on the right and head downhill on Neue Straße, continue through the underpass and cross the road at the traffic lights. Approx. 7 minutes walk (see map 2).
- A taxi from the main station to Tutech will cost around €30.

**from Hamburg Airport**

- Directly to Tutech by taxi. Takes approx. 30-45 minutes cost is around €50.
- By S-Bahn S1 to Hamburg Jungfernstieg then change to S3 to Harburg Rathaus/Neugraben/Buxtehude/Stade (opposite platform). Trains leave every 10 minutes; total journey time is approx. 1 hour)

**By car**

**from the centre of Hamburg**

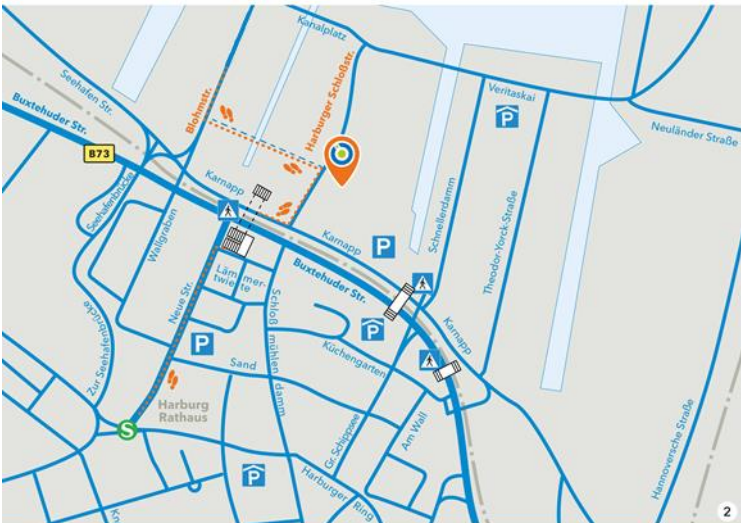
- Crossing the Elbbrücken and Wilhelmsburger Reichstraße, take the exit Harburg-Neuland (approx. 20 minutes).

**from Autobahn A7**

- Take the exit Heimfeld, turn right and follow Stader Straße/Buxtehuder Straße heading towards Hafen Harburg (approx. 10 minutes).

**from Autobahn A1**

- Take the exit Hamburg-Harburg heading towards Hafen Harburg (approx. 10 minutes).



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## Contact

**Chair:**

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**Local organizer:**

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