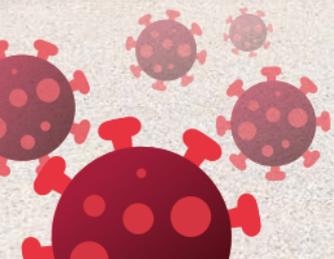


DETECTION OF  
**CORONA**  
IN WASTEWATER

 **Fraunhofer**  
IPA



# Mobile laboratory for efficient localization of Corona hotspots

## What is new and where are the benefits

- New strategy for spread prevention
- Approach so far: individual testing of symptomatic and contact tracing
- New approach: wastewater analysis of a collective sample
  - Five to six days before the first symptoms appear, infected persons excrete viruses that are detectable and quantifiable in wastewater.
  - Results can be obtained more quickly and independently of active participation of individuals in a test.



Analysis of the wastewater samples in the mobile laboratory

## Advantages of wastewater analysis

- Timely mapping of infection events in clusters of about 10,000 inhabitants possible
- Local initiation of prevention / lockdown measures for more effective limitation of spread possible

## Implementation

- Use of a mobile laboratory
- Standardized, comparable approach for a region, providing results directly and without loss of time due to shipment of samples

## Your contact persons

Dipl.-Biol. (t.o.) Sibylle Thude  
+49 711 970-1629  
sibylle.thude@ipa.fraunhofer.de

Dipl.-Ing. Guido Kreck  
+49 711 970-1541  
guido.kreck@ipa.fraunhofer.de