



## SmartFood: Engaging citizens in food diversity in cities

### D5.4. Prototype of the SmartFood sensor system

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SmartFood has received funding from the Norway Grants 2014-2021 and the state budget of Poland via the National Centre for Research and Development within "Applied Research" Programme. The project benefits from a grant of €1,364,249.99 from Norway as well as a grant of €240,750.00 from the state budget of Poland. The total project value is €1,604,999.99. The aim of the project is to provide a novel evidence-based socio-technological framework of sustainable food production and consumption towards the sustainable smart city of the future.



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<b>Acronym</b>	SmartFood		
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<b>Project website</b>	www.smartfood.city		
<b>Project Promotor</b>	Research and Innovation Centre Pro-Akademia		
<b>Deliverable</b>	D5.4 Prototype of the SmartFood Sensor system		
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<b>Lead partner</b>	NILU		
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## **Executive summary**

This deliverable is the result for the work implementation on *T5.4 SmartFood sensor systems - lab-scale prototype (NILU, RIC)*, where sensing system will provide sensor data on the real-time food system to the users. The sensor systems have following elements: i) Behavioural sensors is used for opening/closing of cabinets; camera sensing will be installed for identifying plant growth and plant type; ii) Plant required sensors: pH, air humidity, temperature, etc.; iii) Actuators: light, water valves, ventilation – fans, peristaltic pump for dosing of fertilisers. iv) Data communication. NILU develops the sensor system, while RIC co-designs by providing the parameters and testing and validating the sensing system in real-setting.