Smartare Elektroniksystem
ELECTRONIC COMPONENTS & SYSTEMS

VINNOVA

# Project abstract

Title of Project: Water alarm label" Thin Film Detector"
Project number: 2018-01566

***Background***

Water damage costs Swedish property owners almost SEK 5 billion/year according to the 2015 Water Damage Survey (Vattenskadeundersökning). Water damage has increased in recent years, primarily in kitchens. For this reason, the Swedish National Board of Housing, Building and Planning places requirements on preventing such damage.

***Project idea***

The goal of the innovation is to create cheaper water alarms, with new technology, that can more effectively avoid or entirely prevent the occurrence of water damage in building materials in properties and comply with the requirements set by the Swedish National Board of Housing, Building and Planning.

Create a wireless smart water alarm label, "Thin Film Detector", that communicates with various devices and with the "Internet of Things" when it comes in contact with water. The label is applied to exposed areas intended for properties and will be integrated into various existing alarm systems. The label will significantly increase security by allowing customers to buy many more labels compared to existing water alarms.

***Goals***

Prevent water damage to building materials in homes.
Develop a wireless water alarm label
The production and product costs must be low
The label is produced/assembled in Sweden and benefits Swedish industry
With support from Swedish research, ensure the end users' need to protect their home against water damage
Practically implement the theoretical result from the feasibility study.

***Potential***

Ensure the customer's need for the product: Results from the market analysis in the feasibility study show a significant interest in the labels. Our analysis is that there is a clear need for a smarter and cheaper solution compared with the currently available water alarms.

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