



# REFORM

pRinted Electronics FOR the circular econoMy

**Harnessing organic conductive inks and biodegradable or recyclable materials to develop environmentally sustainable printed electronics**

## Vision:

REFORM seeks to progress green electronics from early-stage research to near-market-readiness by building prototypes that can be validated by industry so that they can be scaled quickly.

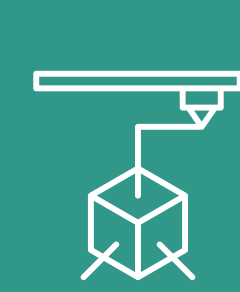
## Objectives:

- Create awareness and access to the critical building blocks that enable rapid adoption of sustainable flexible, printed electronics.
- Construct a suite of sustainable fully-organic conductive inks for use in printed flexible electronics.
- Develop sustainable, flexible substrates for printed green functional electronics.
- Build bio-based debondable adhesives to separate electronic components on demand for recycling.
- Integrate developed components into new green sensors and technology concepts that enable circularity.
- Validate plastic and metal recovery processes enabling circularity.
- Establish a complete testing and verification workflow and support standard development.
- Manufacture applied industrial sensor prototypes that enable mass-scalable green electronics.

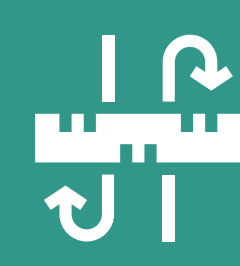


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## Pioneering Innovations:



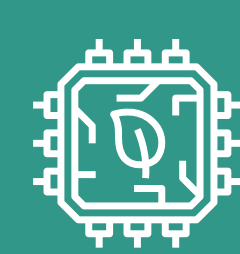
Suite of sustainable fully organic conductive inks for use in printed flexible electronics



Bio-based flexible substrates that promote longevity and performance



Bio-based de-bondable adhesives for micro electronics



A fully-organic microsupercapacitor that does not require sintering



Prototype a Green RFID tag beyond TRL 5



Embedded sensor for hydrogen tanks