

# Flexible printed electronics

*Replacing traditional printed circuit boards (PCBs)*



## Positive Impact

- Ultra-thin, flexible, lightweight
- Highly sustainable and recyclable



## Initial Validation

Prototype to create roll-to-roll production of printed circuitry on polymer films and on medical grade fabrics is available.



## Solution

Solution lies in creating a flexible, high throughput and recyclable technology that contributes to reduced electronic waste and is also efficient and cost saving to current businesses.



## Problem

Rigid electronics such as circuit boards significantly damage environment due to their chemical-intensive manufacturing, as well as being non-recyclable at the end of life – they end up in landfills.

Even when electronic boards are recycled, the improper recycling practices, such as open burning and acid baths, release toxic fumes and pollutants into the environment.



## Technology

- Technology is available to create recyclable printed circuits on thin polymer foils, fabric and functional paper.
- Technology that allows the assembly of chips and other electronic components (LEDs, battery, passives, etc.) on the printed circuitry, in a reliable manner.



## Call to Action !!!

We are looking for individuals with a passion for sustainable circuitry solutions. If you have a background in electrical engineering, materials and mechanical engineering, do not hesitate to contact us and reach out at:

[entrepreneur@hightechxl.com](mailto:entrepreneur@hightechxl.com)



## Potential Markets

Several markets will be benefitted from this technology such as:

- Health Care and Wellness
- Automotive
- Consumer electronics
- Internet of Things (IoT)
- Smart buildings