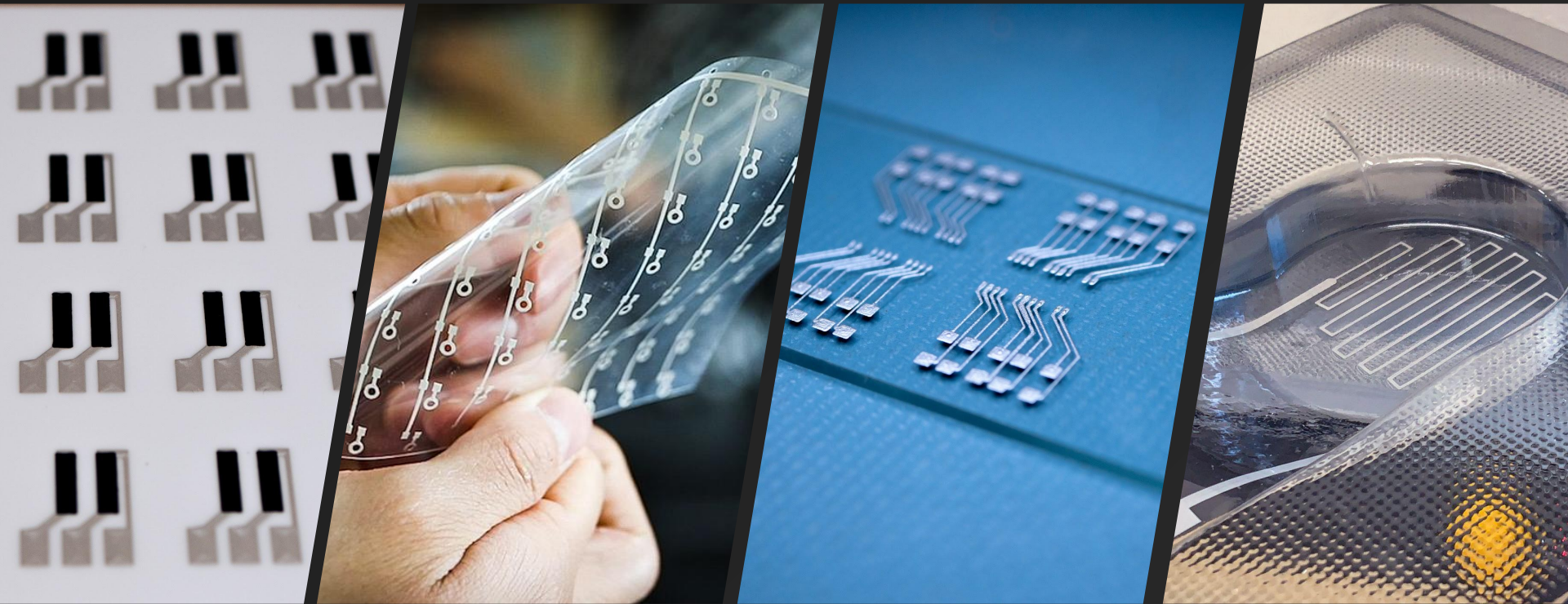
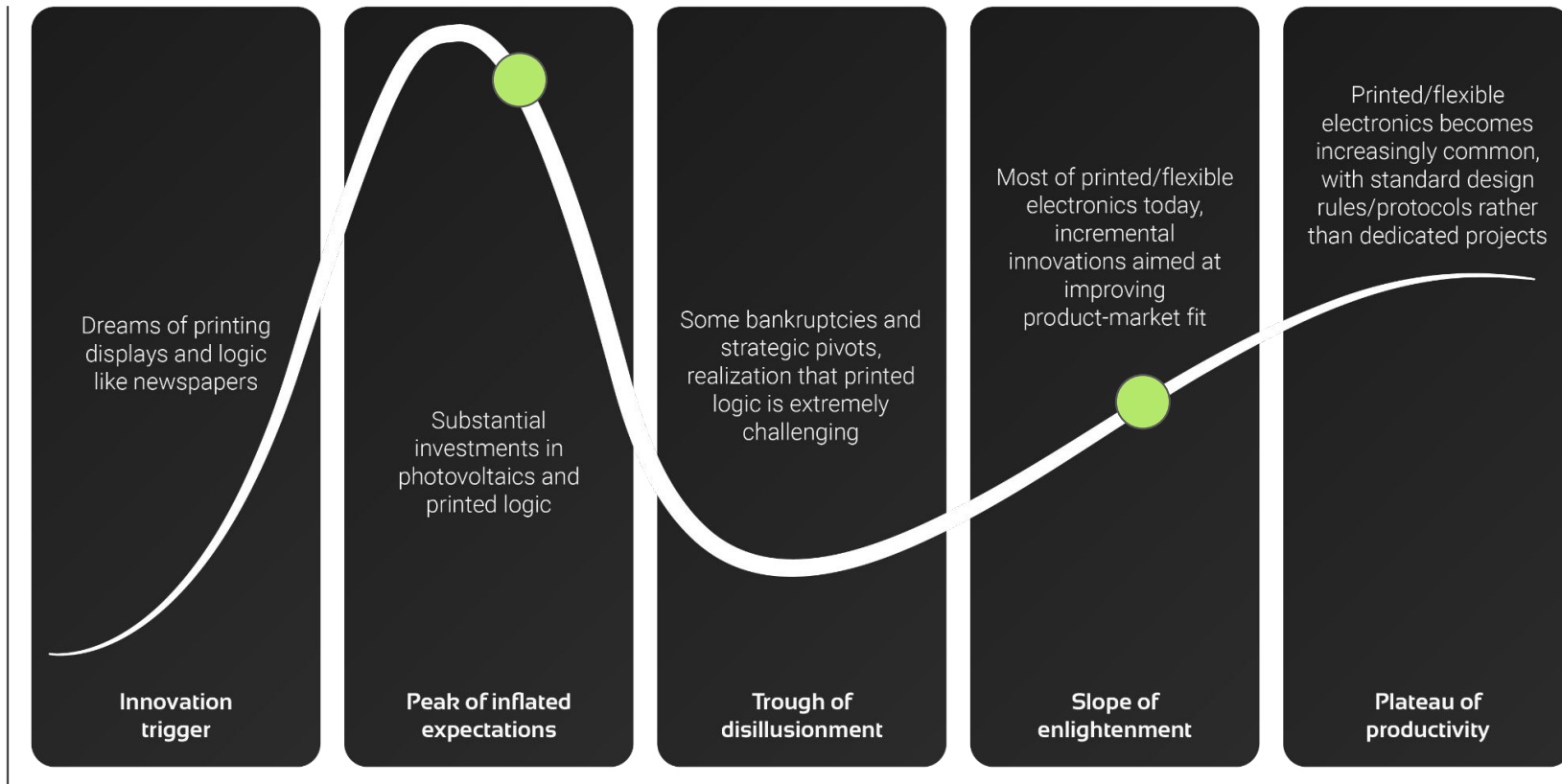


A tool for every **additive electronics** project



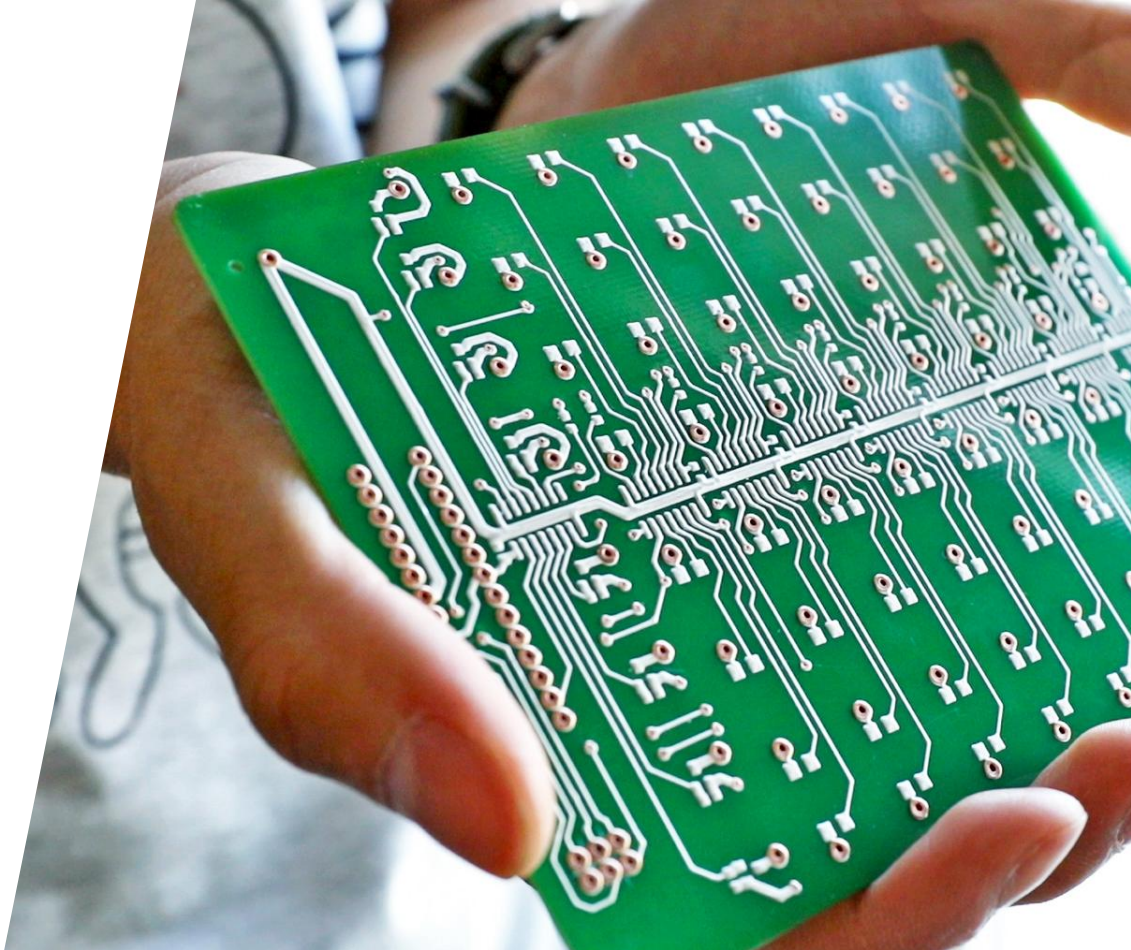
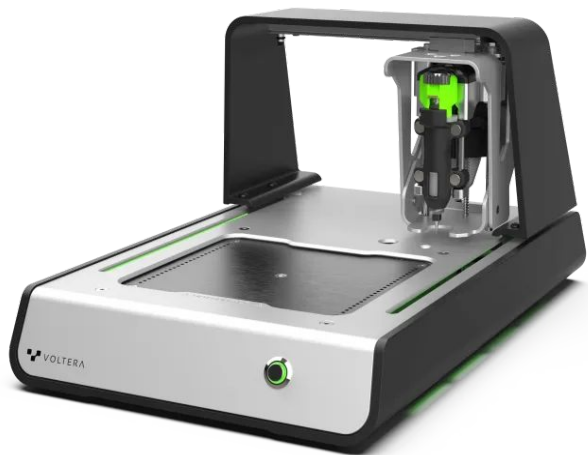


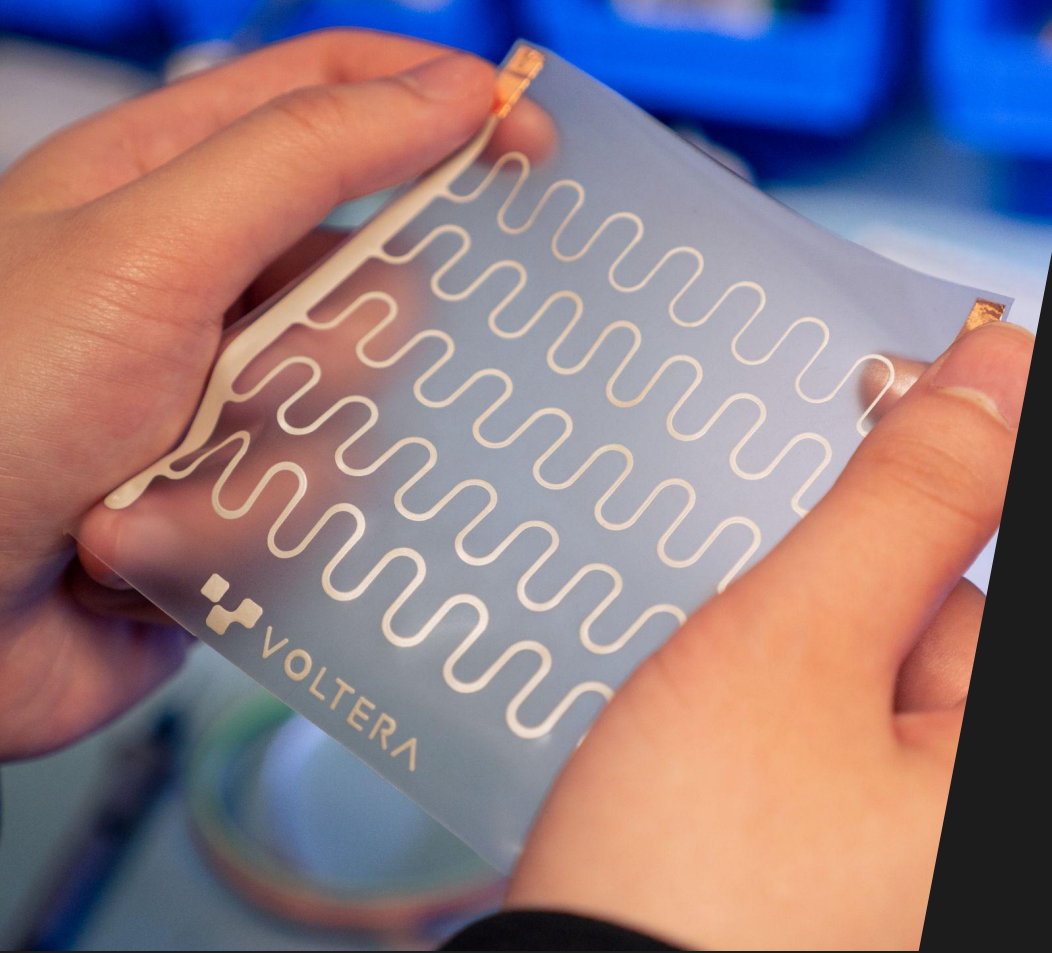
Expectations



Time

IDTechEx Research





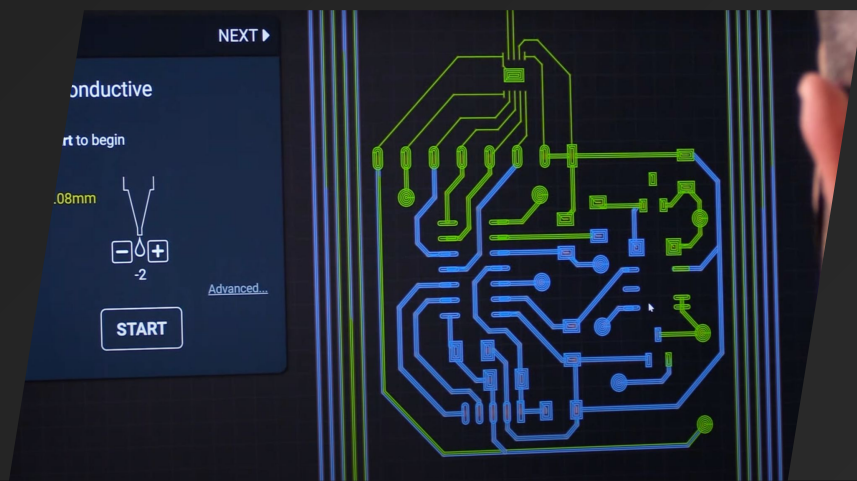
 VOLTERA NOVA



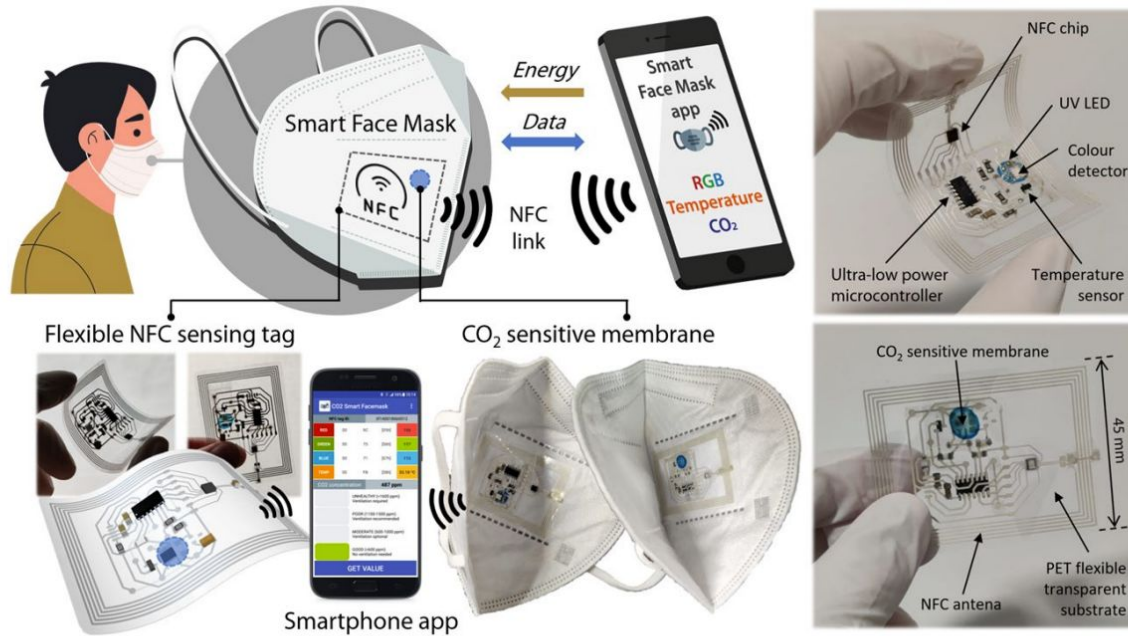
jesus@voltera.io

 VOLTERA

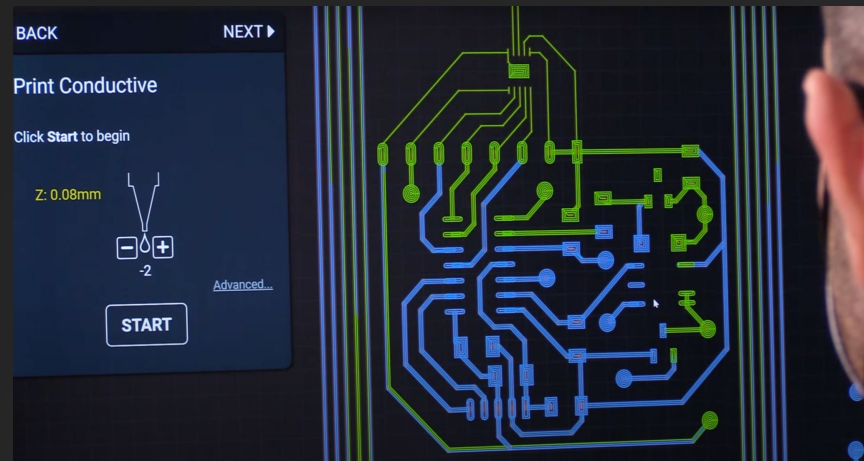
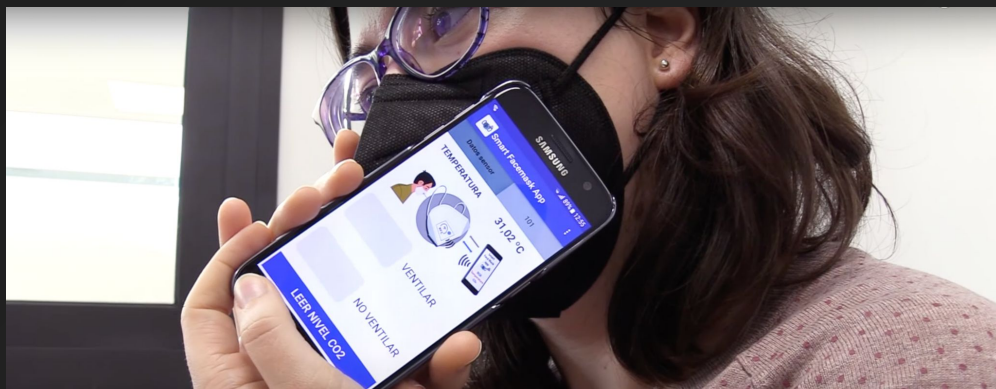
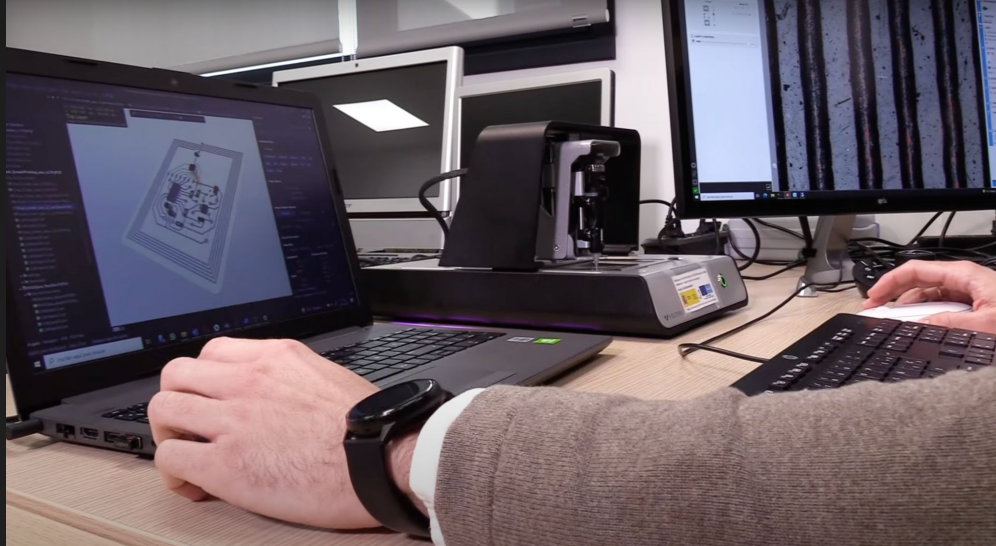
What are people
doing with Voltera's
technology?



Smart facemask for CO₂ (V-one)



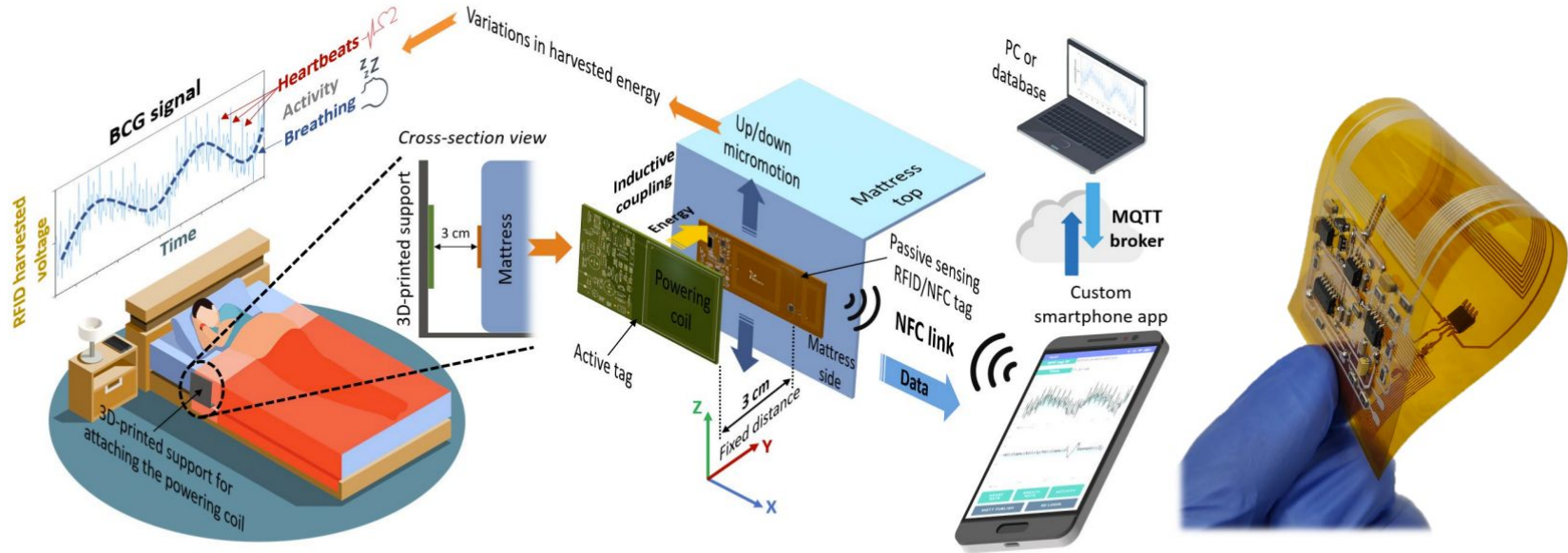
P. Escobedo et al. Nature Comm. 13:72 (2022)



The University of Granada

Sensobed (V-one)

Bed-based ballistocardiography system using flexible RFID sensors



Manuscript submitted before 2024

The University of Granada

FDA panel examines evidence that pulse oximeters may not work as well on dark skin

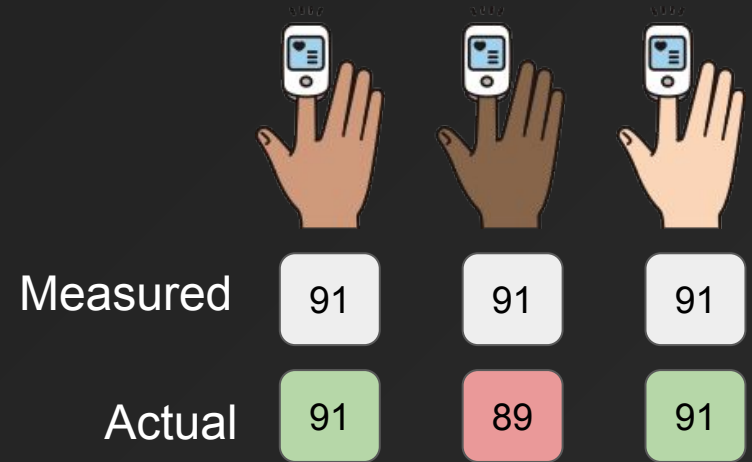
By [Jacqueline Howard](#), CNN
9 minute read · Updated 6:44 PM EDT, Tue November 1, 2022



Grace Cary/Moment RF/Getty Images

Pulse oximeters are used to check blood oxygen saturation levels and heart rate, but research suggests these devices may be less accurate in individuals with darker skin pigmentation.

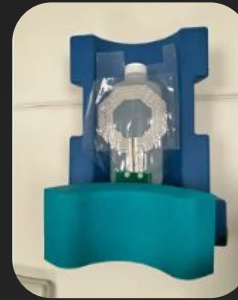
Oxygen Saturation (%)



University of Southern California



Reference
Rigid Copper



Flex
Silver on PET

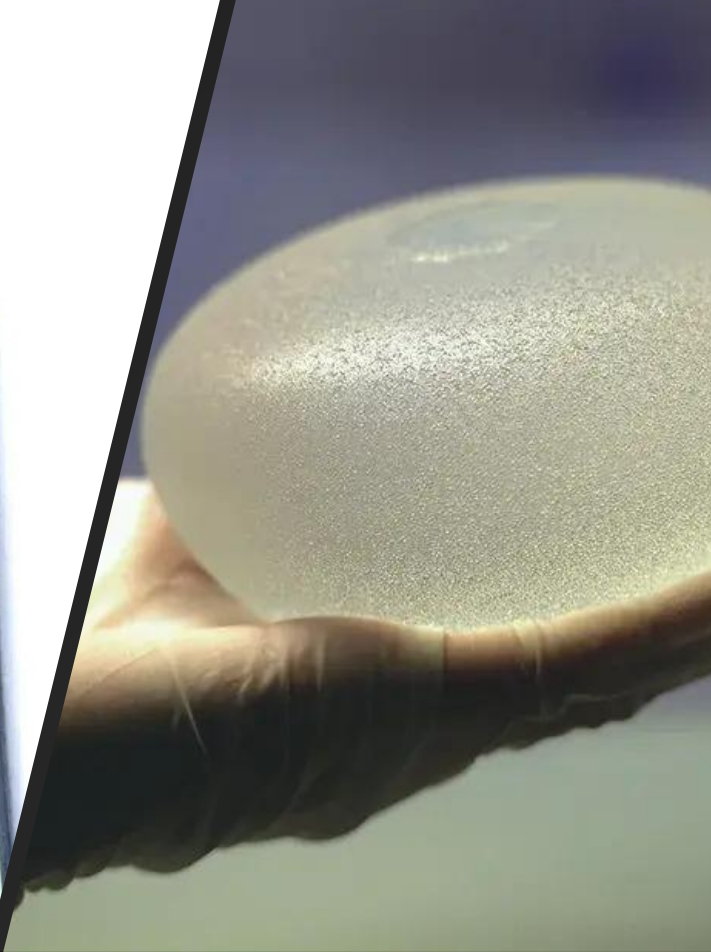
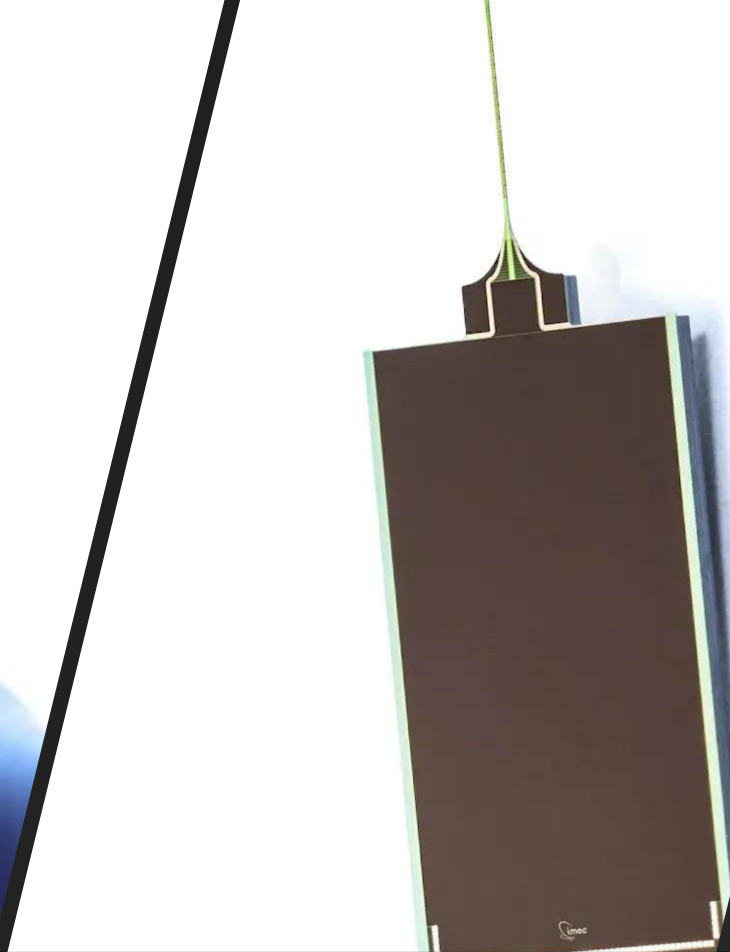


Flex + Stretch
Silver on TPU



Preliminary research showed flexible MRI coils had better SNR

University of Southern California



Rice University

What **trends** are
we seeing?



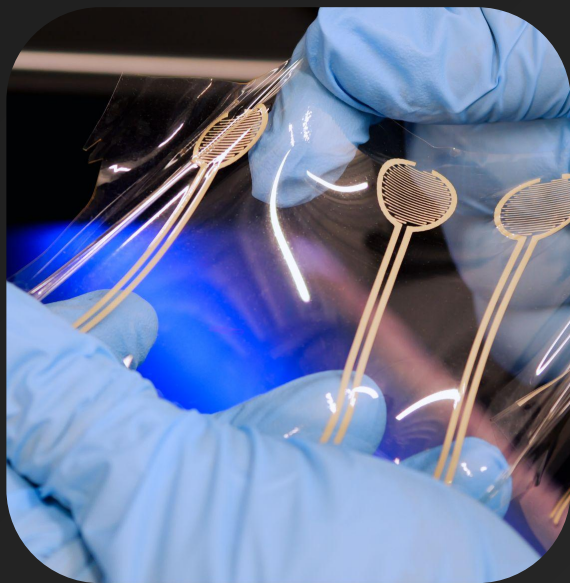
What **trends** are we seeing?

1. Materials keep emerging & improving.



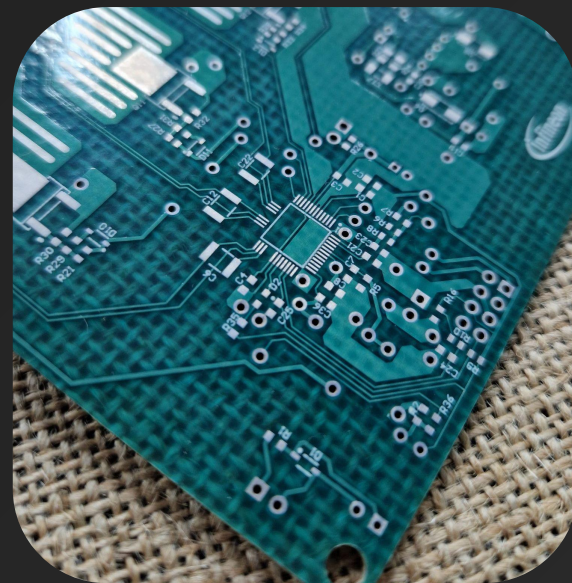
Solderable Copper Inks

Copprint - 2016



High Temp. Stretch

Beyolex - 2021



Biodegradable PCBs

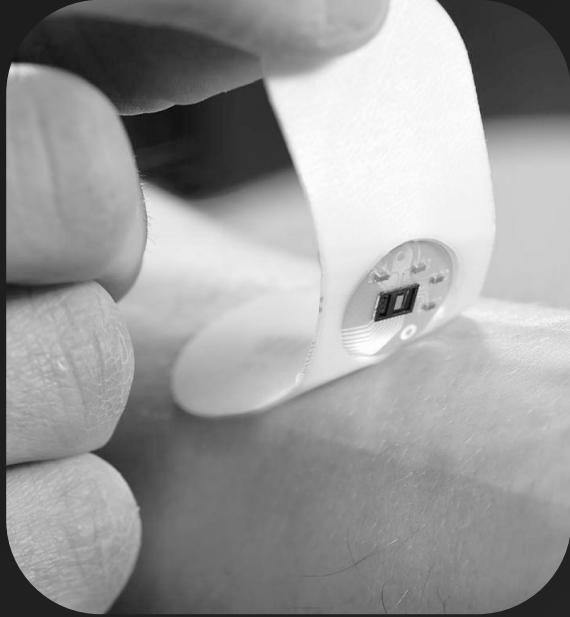
Soluboard - 2017

What **trends** are we seeing?

2. *AME has reached designers.*

What **trends** are we seeing?

3. *Small and large companies are “tugging” on the fabric thread*



Medical Wearables

Monitoring Key Vitals



Automotive

Space, Weight & Cost



Smart Fabrics

Sensing & Heating

A little bit about **Voltera**

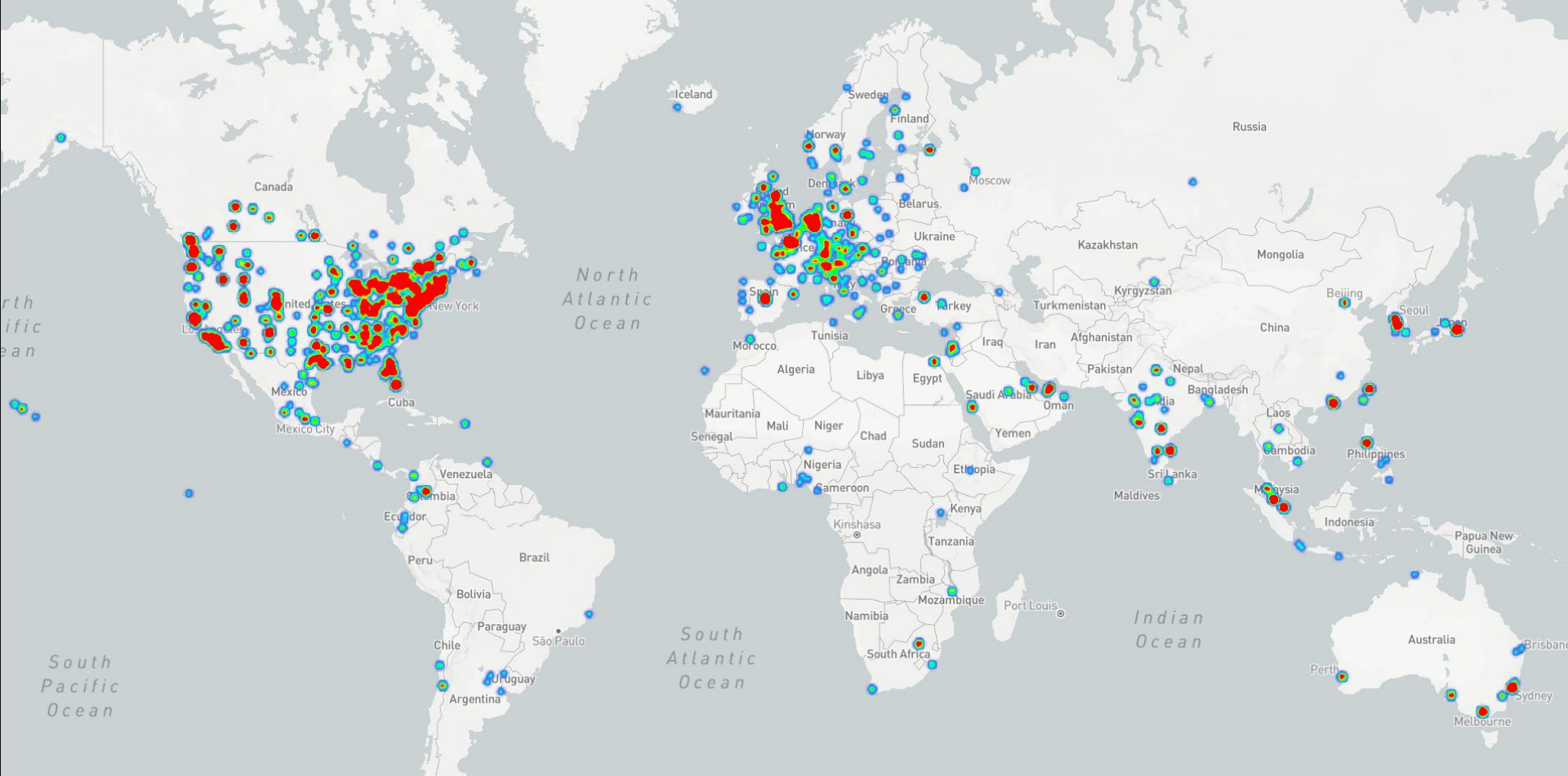


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V-One







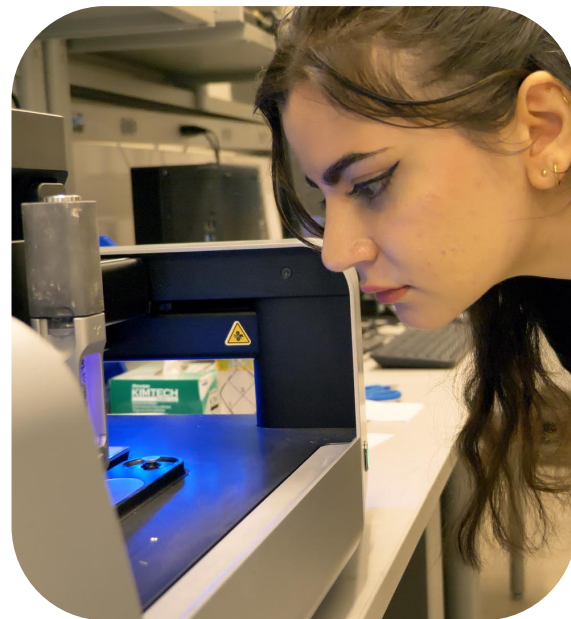
Educators
Students & Teachers

AUCTIFY SPECS

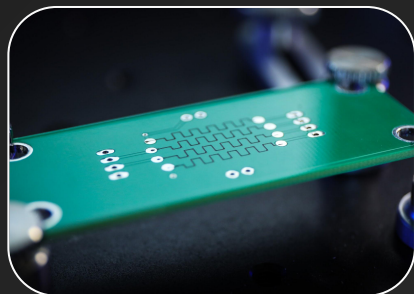
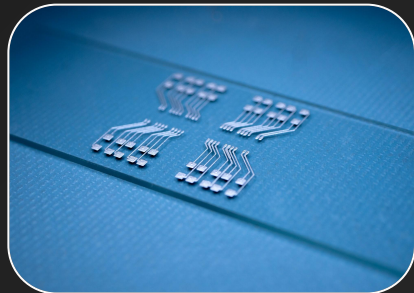
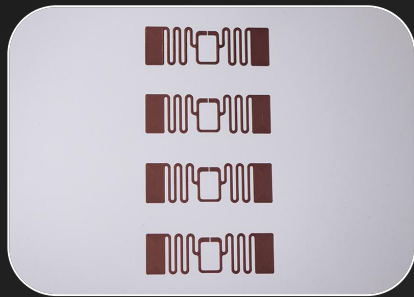
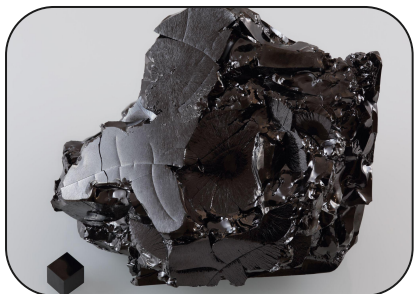
The First
Productivity
Boosting
Smart Glasses

- Detects Distractions
- Real Time Feedback
- Personalized Coaching
- Stylish & Smart

Product Developers
Engineers



Researchers
PhDs and Professors

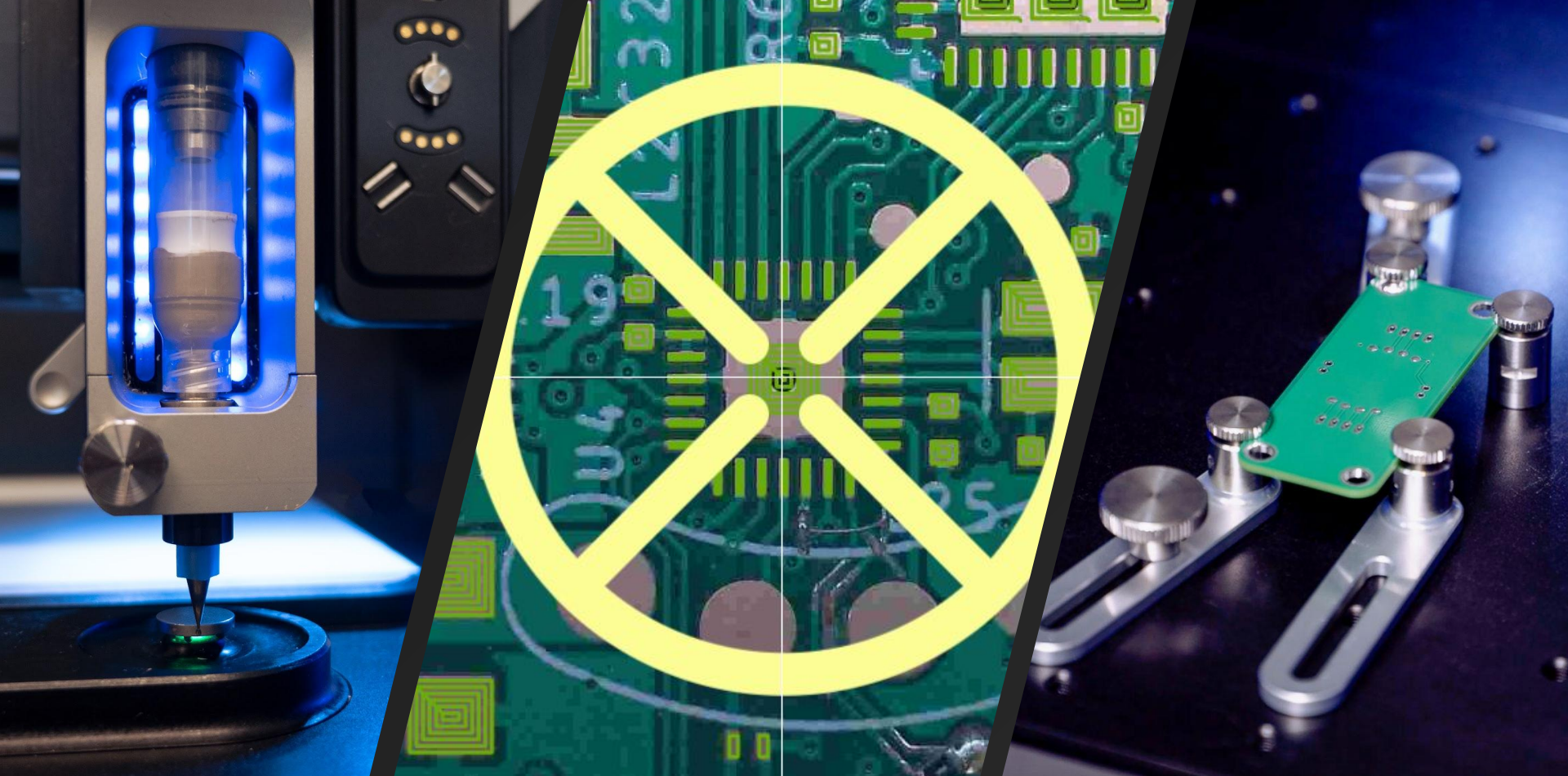


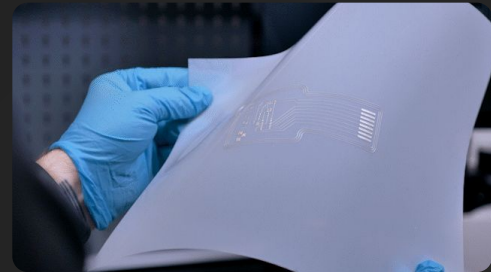
NOVA



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 VOLTERA





Printing Service

Have a design you want to prototype but aren't ready to make the investment?
Submit your information below and our Application Specialists will print it for you.

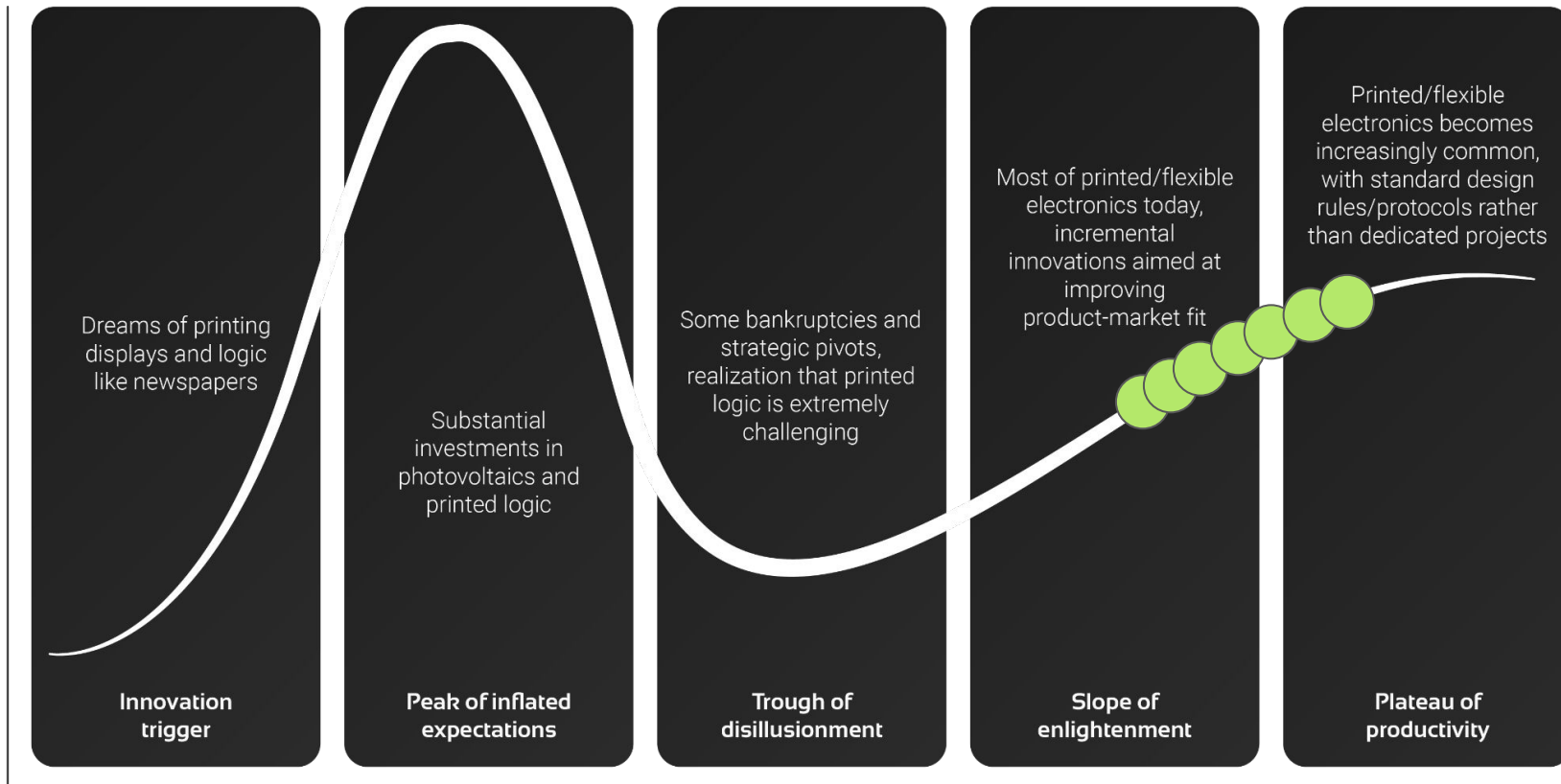
Thank you!

Your request has been received and one of our in-house Application Specialists will be in touch soon to discuss your prototype details.



Catalyzing innovation by
removing the barriers to entry

Expectations



Time

IDTechEx Research



Scan to get notified when we
launch prototyping service



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