# nanomade

Make All Materials Smart

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**Any object becomes an enhanced Touch device :**

Nanomade brings Touch experiences to another level (wood, metal, complex shapes, gloves compatibility, adaptative UI ...)
New Touch interactions, new designs, new features are unleashed with a level of performance that can hardly be done by existing competitors.

**Any object becomes a Sensing device :**

Nanomade enables deformation detection enabling physiological parameters monitoring , object presence detection, structure deformation ...

# Make all materials smart !

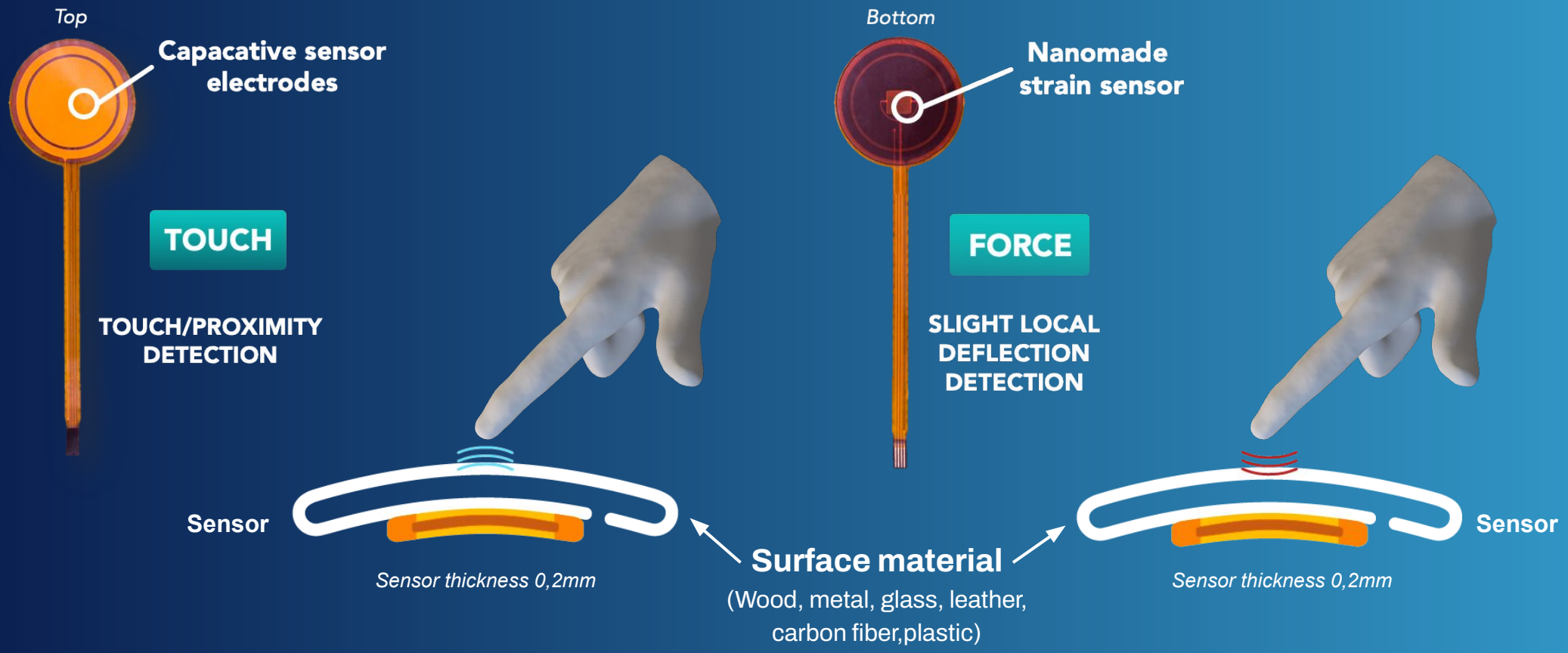
The most sensitive Force Sensing technology of the market  with Capacitive sensing included

Any shape

Any material

# Nanomade Dual Sensor

[WO2021170883A1]

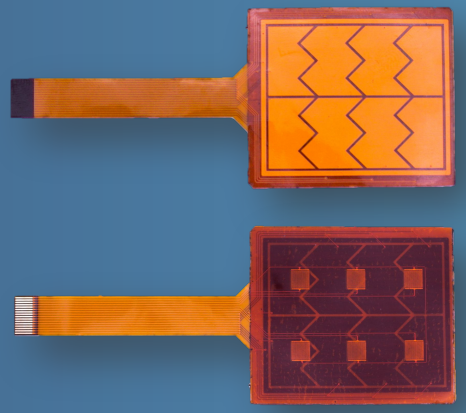


INTELLECTUAL PATENTED PROPERTY

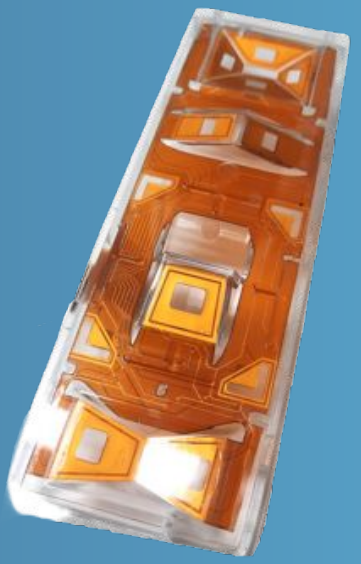
[WO2021170883A1]

# Nanomade Sensor

Single sensor

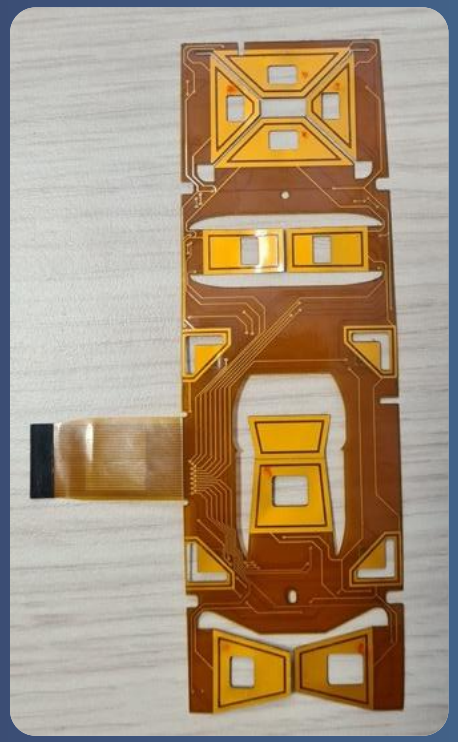


Matrix sensor



3D matrix sensor

# Customised sensor : Windows lifter (Automobile industry)



# Mature technology ready for industrialisation (TRL7)

[WO2021170883A1]

## Mechanical ageing

<3% : average resistance change after 10 millions cycles

## Thermal Shock and storage

<8% : average resistance change after 20 thermal shocks (-40° to +85°)

< 5% : Resistance change for 20 days of storage
at +85°C & 85% Relative Humidity

# Nanomade technology explained

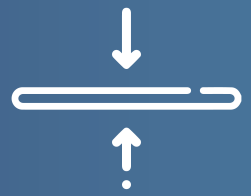

*[WO2021170883A1]*

# Differentiation

# What sets us apart...

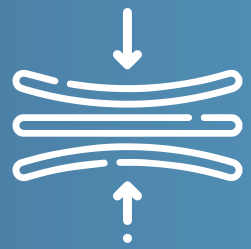
## Flexible

*Bendable (10M), great for 3D shape*



## Thin & Transparent

*Thickness : 0,2 mm*
*Transmittance : 93%*
*Haze : 1*



## Force & Capacitive

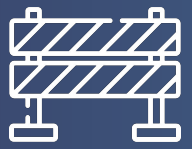
*F or C, on demand and through temperature cycles*

## Sensitive

*x60 compared to strain gauge*

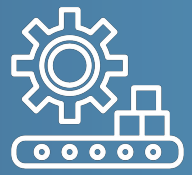
*Can measure heart beats from a Touch !*

# What sets us apart...



## Technological Barrier

- The secret ink formula is extremely difficult to reproduce
- Nanomade patents are strong and protect the sensor design
- Signal processing software & Pulse machine learning  is difficult to reproduce and tune

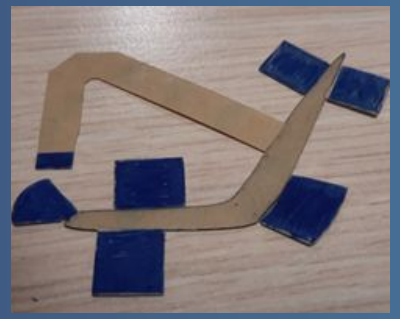


## Light Manufacturing

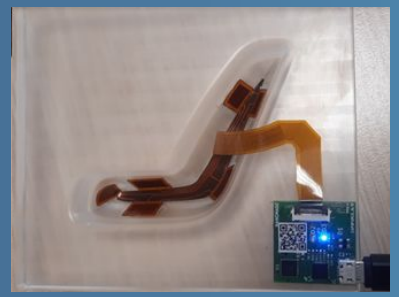
- Designed to use very common and classic elements (Polyimide, …)
- Ink cost is extremely low
- Printers are not expensive, high volume could be reached without heavy investments

# A typical NRE project

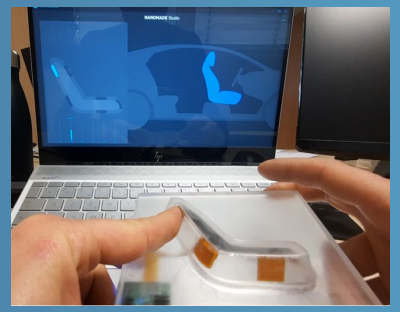
Client sends a 3D model



Nanomade design the sensor



Nanomade integrate the sensor



Nanomade demonstrate function

Sensor industrialization

Incl. Cost reduction

*Thank you !*

**www.nanomade.com**