

JON DE TECH

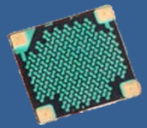
Process & Technology



PRODUCT ROADMAP

2027

Finalize commercial launch and move higher up in the value chain by offer customers digital solutions.



J30
Commercial
status



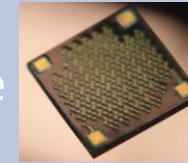
J30D - Digital
solution
J45D - Digital
Solution

2028

Optimize our core technology products with focus on size and cost.

“J30 2.0”

- 2x2mm size
- Lower cost
- Increased performance



“J30D 2.0”

- Custom ASIC
- Smaller size
- Higher performance



J30/J30D - HEAT FLUX - PRODUCT & APPLICATIONS

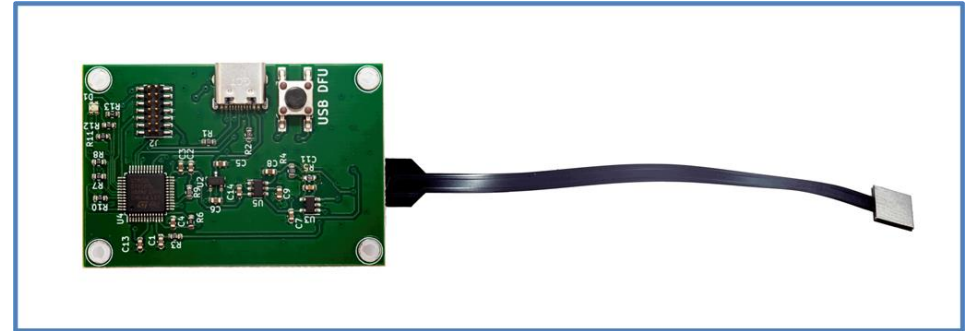
Measurement of body temperature

JonDeTech's sensors measures heat flow with high accuracy in consumer products such as smart watches or other products that sit on the body enable the ability to measure the internal body temperature with high precision.

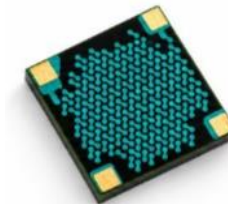
- Works in earphones, wrist sports watches and HRM chest straps.
- Monitoring health and optimize performance during sport activities.
- Accurate measurement of the core body temperature with a Heat flux sensor patch instead of a rectal thermometer or electronical pills.

Smart buildings and IoT

JonDeTech's sensors can be integrated into smart buildings, such as offices, EV-cars and homes, and delivers measurements for temperature control.



Evaluation kit J30



J30



J30D



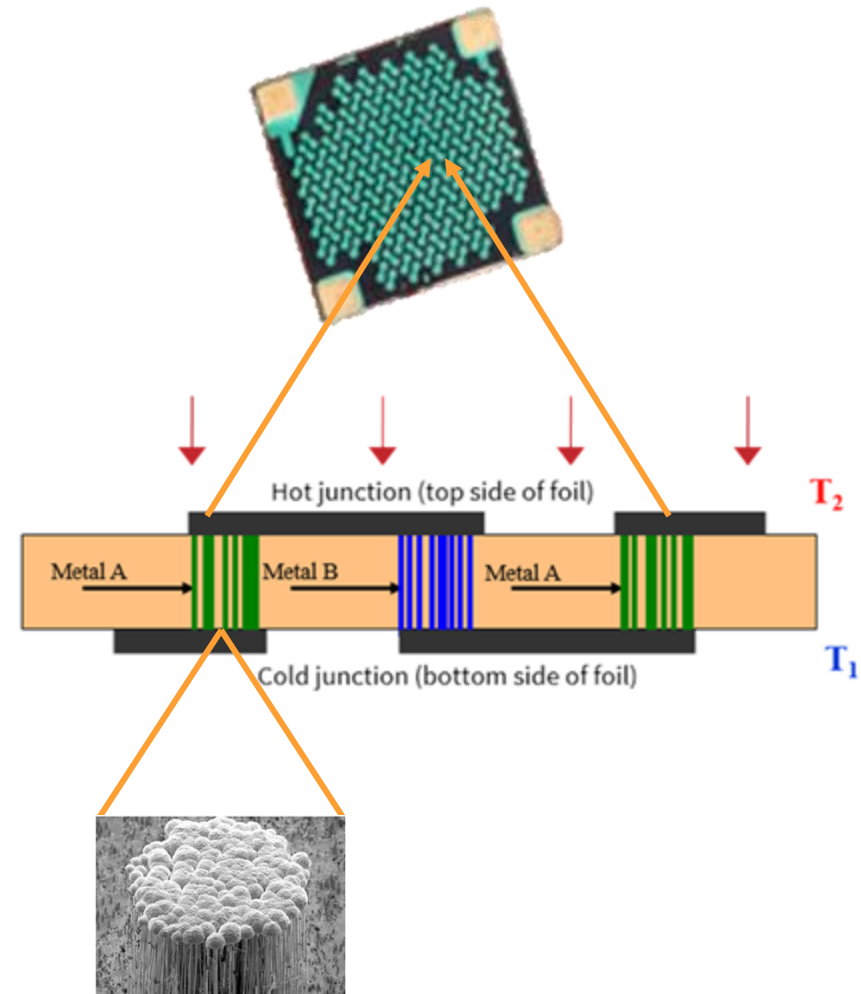
J30 - TECHNOLOGY

JonDeTech's technology in short

JonDeTech has developed the worlds thinnest thermophile, with a vertical structure instead of the traditional horizontal construction using nanotechnology. This configuration not only facilitates temperature measurement but also heat flow detection.

The product portfolio is supplemented with two silicon MEMS (microelectromechanical systems) sensors.

JonDeTech's sensors works a bit like a super-sensitive digital camera that doesn't capture regular pictures but instead sees the world through heat.



J30 - COMPETITIVE ADVANTAGES

Performance

JonDeTech excels in performance, offering high accuracy and reliability in temperature measurement and presence detection.

Size

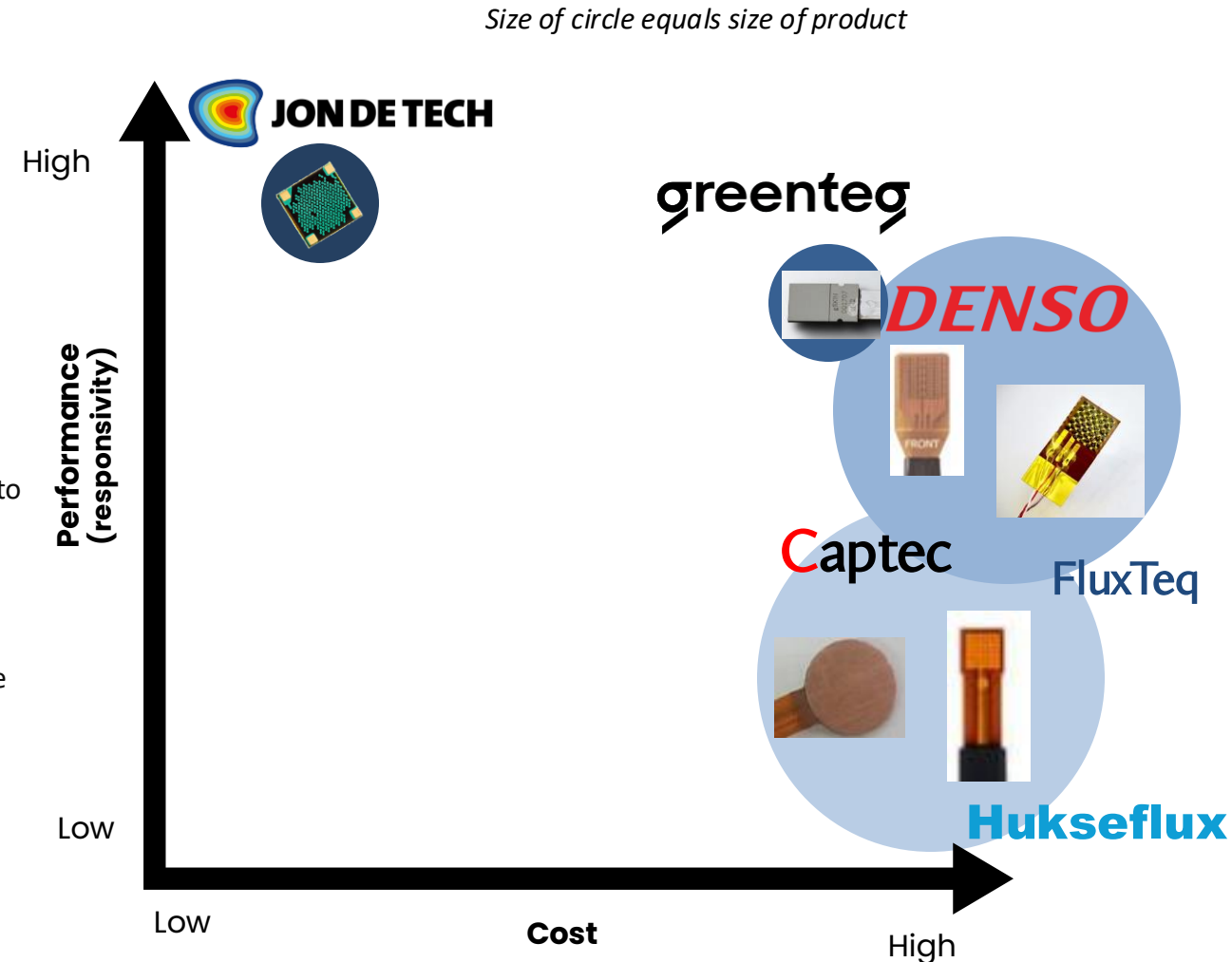
JonDeTech stands out with its compact size, ideal for integrating into various applications where space is limited.

Thickness

JonDeTech's sensors boast an ultra-thin profile, enabling seamless integration into thin devices and applications without compromising performance.

Price

JonDeTech offers competitive pricing, making its advanced technology accessible and cost-effective for a wide range of markets and applications.



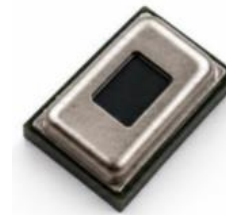
J40/J45D – IR PRODUCTS & APPLICATIONS

Contactless temperature measurement

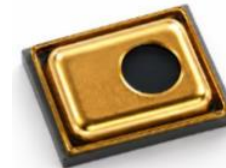
- JonDeTech's IR sensor has the ability to measure the temperature of a surface without being in direct contact with the object. This enables fast and accurate measurement in products such as ear thermometers, small handheld devices such as mobile phones and temperature monitoring in buildings and offices.

Presence and absence detection

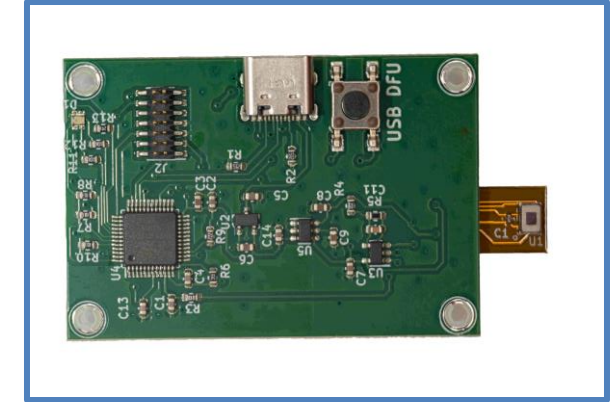
- JonDeTech's IR sensors work perfectly to detect human presence and absence. The sensor detects the heat that a human body radiates and can thus distinguish between a person and other objects. This feature is vital when it comes to getting reliable presence detection in products like laptops, digital door locks or detecting when someone is sitting in a seat in a car or bus.



J40



J45D

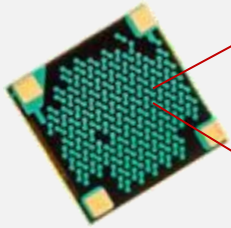


Evaluation kit J40



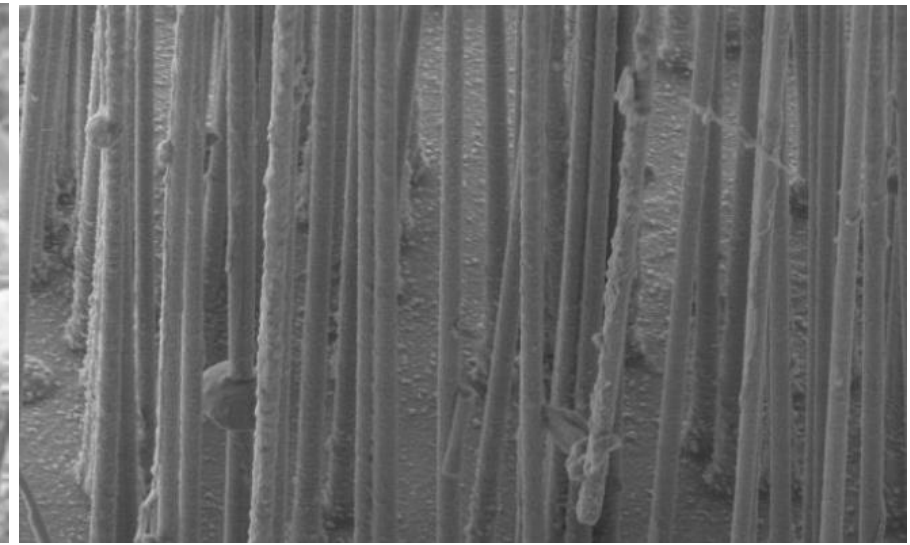
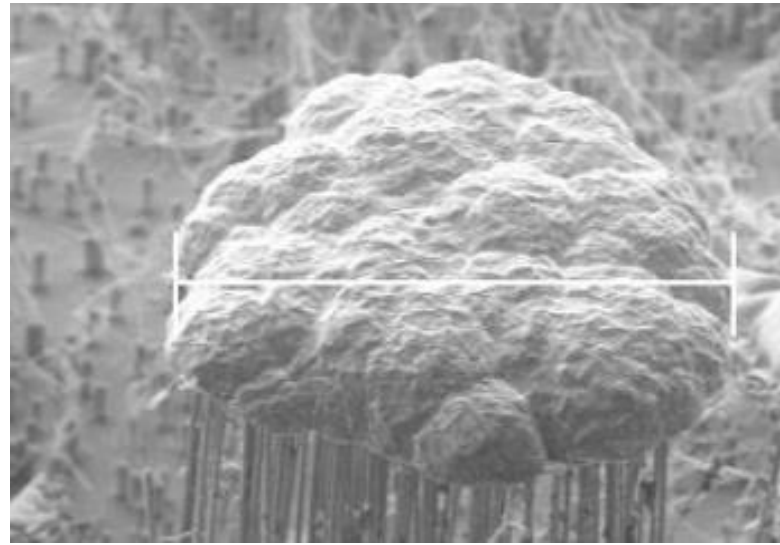
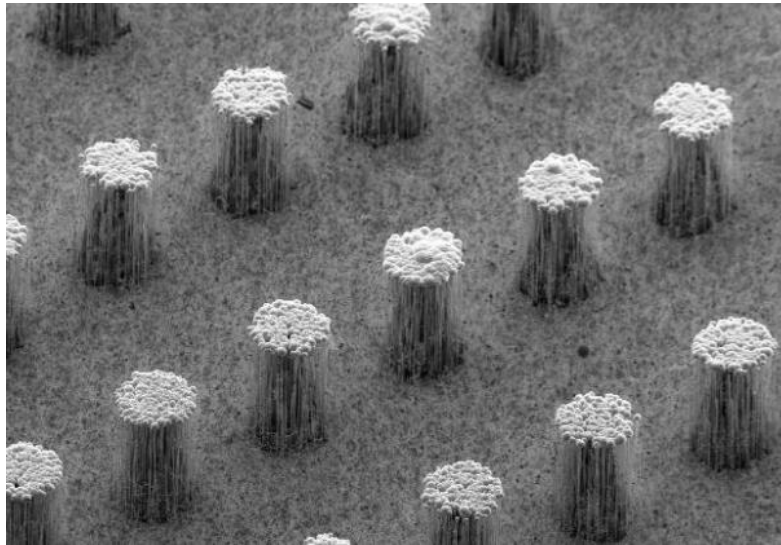
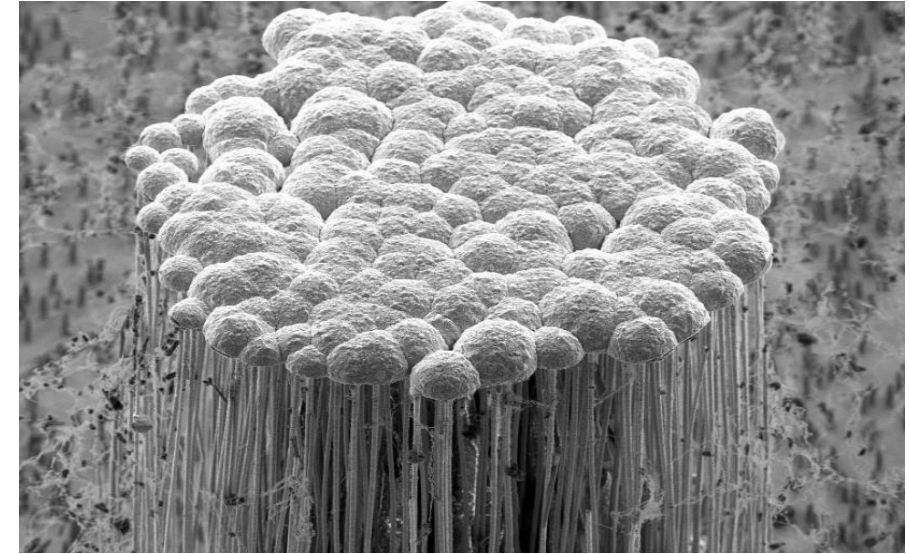
The JonDeTech thermopile

Advanced nanotechnology



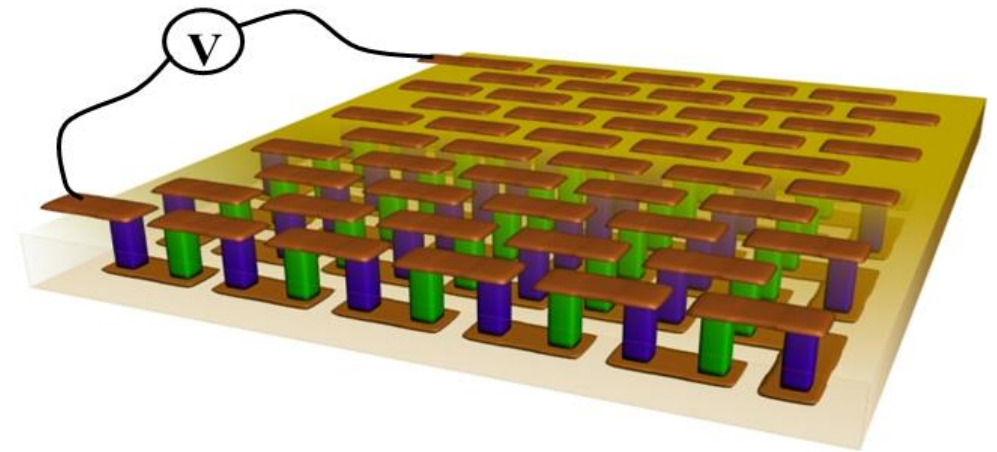
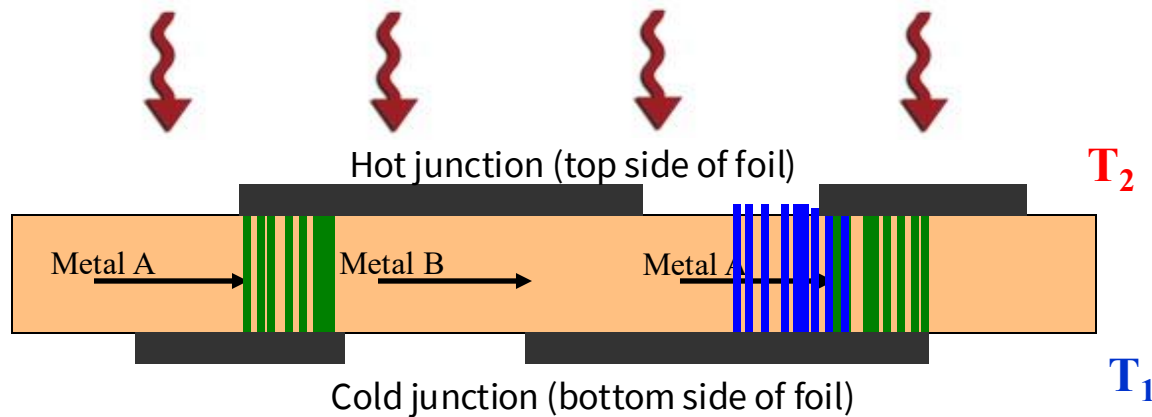
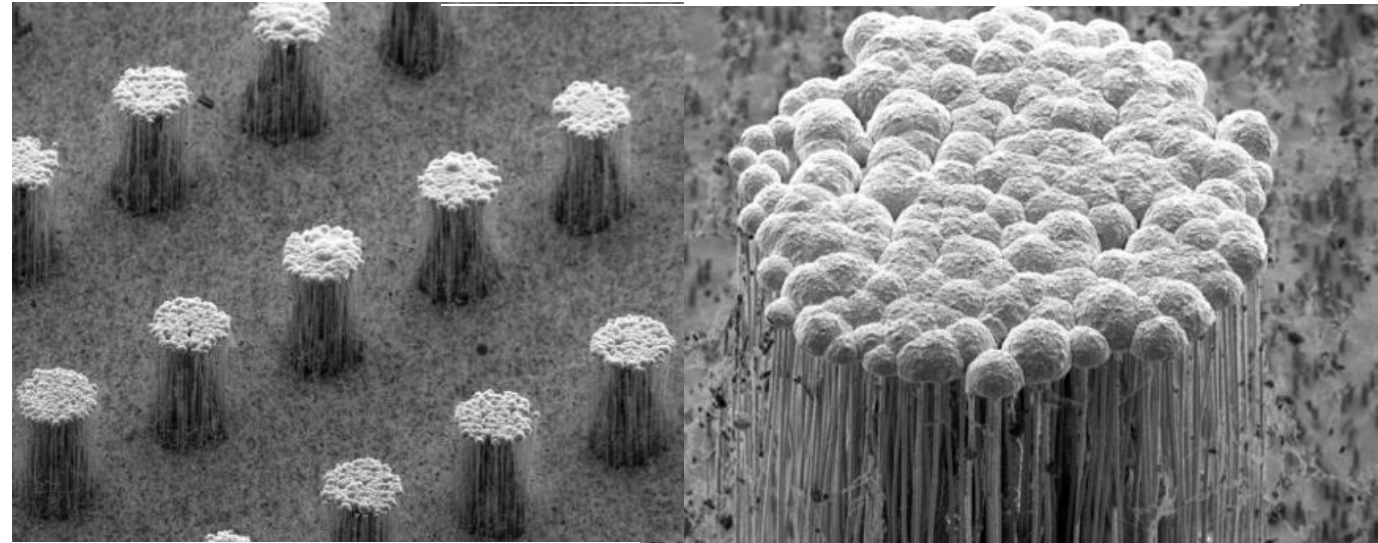
JonDeTech uses advanced nanotechnology for plating of the nanowires.

The picture shows hundreds of nanowires that connects the hot and cold junction of the sensor

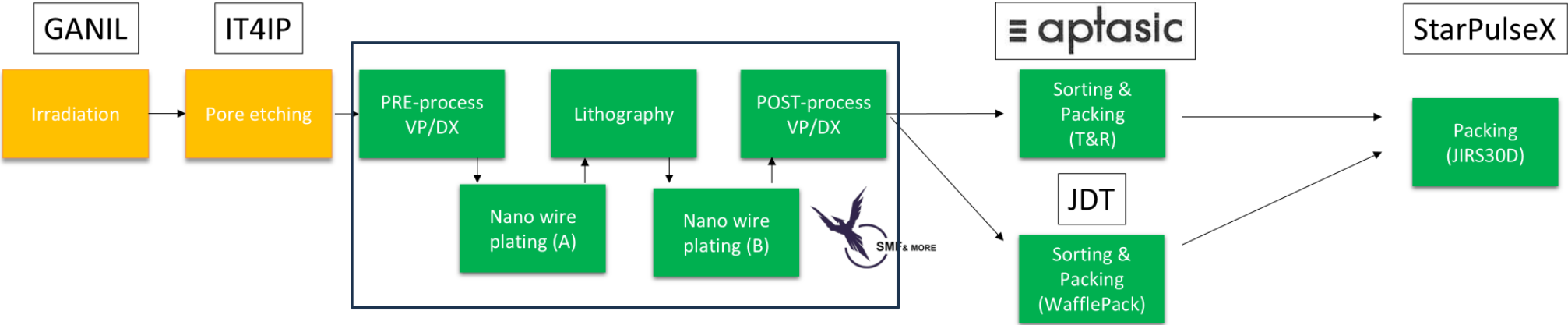


How it works

- The topside (hot junction) of the component absorbs heat radiation from objects at a distance or in contact with the sensor.
- The ultra thin nanowires generate a voltage when there is a temperature difference between the cold junction and hot junction, T_1 and T_2 .
- The voltage level is then translated to an object temperature [C°] or heat flow [W/m²] depending on the desired application.



Production flow with leadtimes



Ledtider:						Totalt:
(24 mån)	4-6v	25 v ??	4-6v	4-6v		c:a 40v

Buffert (förslag):					
2 rullar	+20 ark	+20 paneler	+15.000st	+5.000st	

Nuläge:					
8 rullar	87 ark	★ 22 med låg yield	★ 2.200 st	★ 56 st	

★ = Aktivitet initierad för att fylla på



Thank you!