# CANATU®

Juha Kokkonen

# Today's touch displays are 2D





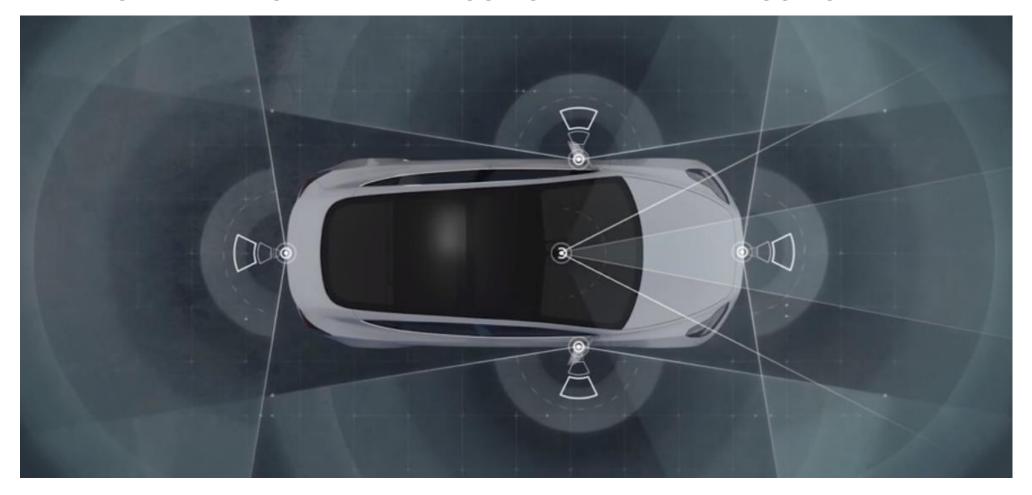


# **CANATU** Shaping surfaces to 3D experiences



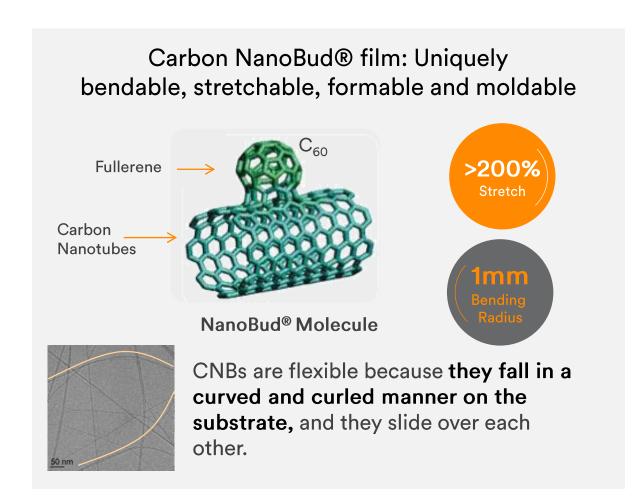
# CANATU Autonomous driving in any weather

Headlight de-icing, Lidar de-fogging, Camera de-fogging



# CANATU Original, World-class technology

Shaping surfaces into experiences



#### Based on ground-breaking research Protected by a global IPR portfolio



Created within the NanoMaterials Group at Aalto University (under prof. Esko Kauppinen)

IPR fully owned by Canatu



**Patented Materials** 

**Patented Processes** 

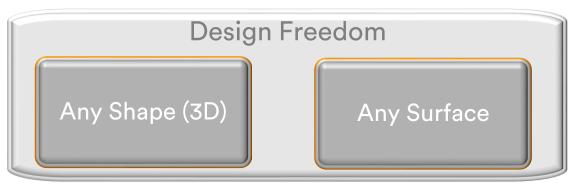
**Patented Devices** 

Over hundred patents and applications across 13 patent families

#### CANATU

# **Enabling Design Freedom**















Enabled by Superior Technology
High optical properties
Formable to shapes

## Canatu Automotive Applications

#### 3D Touch business

Design freedom, intuitive user experience, safety



**Center Information** Display



Center console panel



Center Console



**Smart Steering Wheel** 

#### 3D Heater business

Design freedom, autonomous driving in any whether



**ADAS** sensors



Windshild heating



LED headlights



HUD

## CANATU Canatu Applications Beyond Automotive

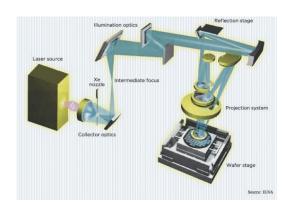
### 3D Touch business CE

Design freedom, intuitive user experience

### Semiconductor business

Mechanical, chemical, transparency, thermal



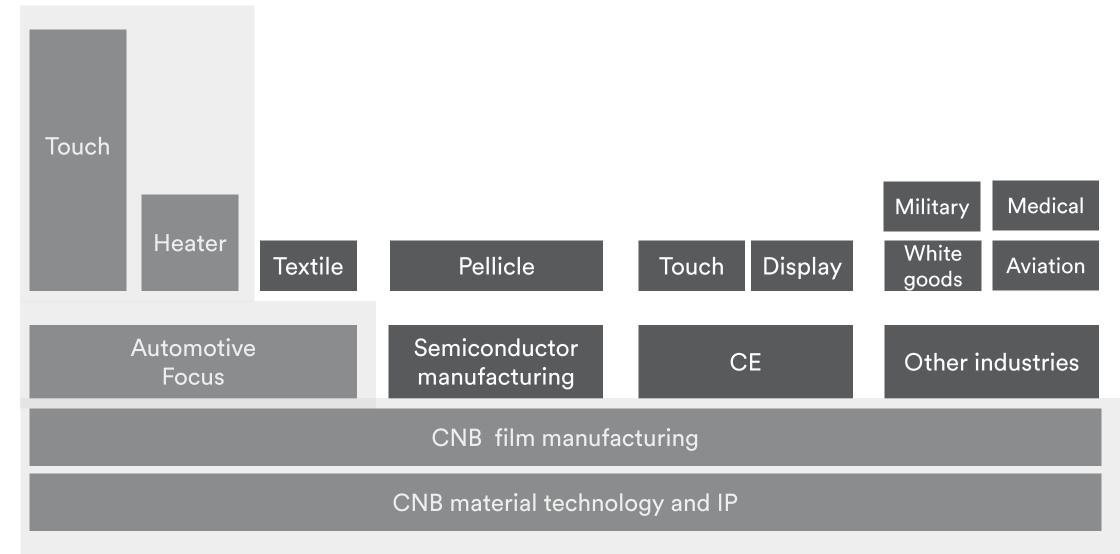




3D CE product solutions and displays

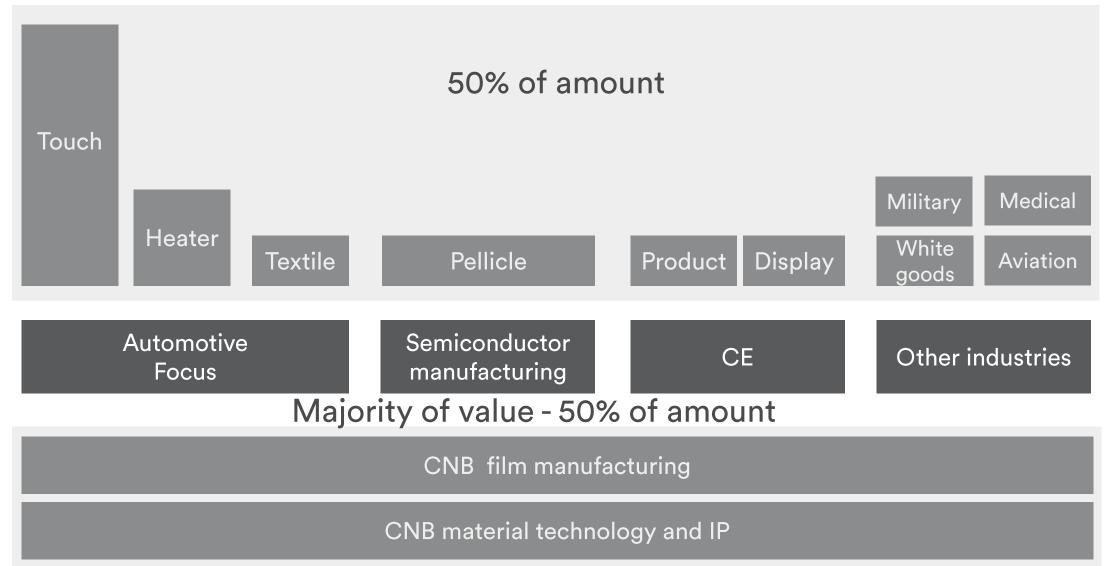
CNB EUV pellicle for ASML EUV scanners

## **CANATU** Fundamentally Material and IP Company



2/6/2019

### CANATU IP focus



### CANATU Canatu IP Fundamentals

#### When Trade Secrets:

- IF difficult for others and Canatu to find out
- Do not become public
- Do not fulfil patent criteria

#### When Patent:

- Exclusivity for 20 years
- Licensing value
- Enterprise value
- Ready to defend

### Geographical coverage:

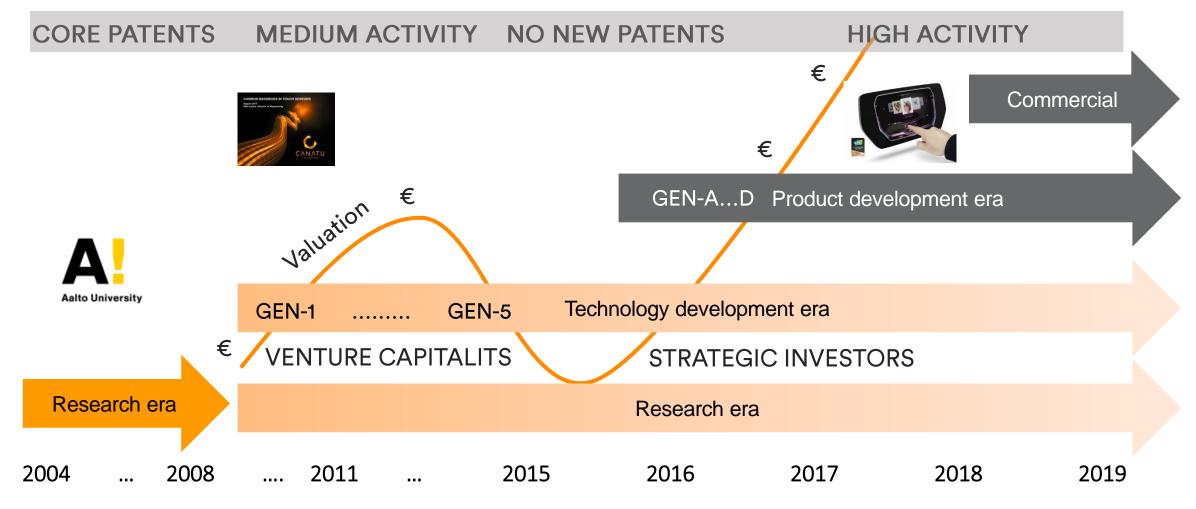


EU, US, China, Taiwan, Japan, S-Korea

### Licensing deals:

Denso Japan

# IP activity has been following business success



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# CANATU A strategic investor case World 2<sup>nd</sup> largest automotive technology company



Own Carbon Nano material development

Canatu technology sampling

IP due diligence

Canatu due diligence

Positive investment case

Collaboration with Canatu

## canatu A strategic investor case



Own Carbon Nano material development

Canatu technology sampling

IP due diligence

Canatu due diligence

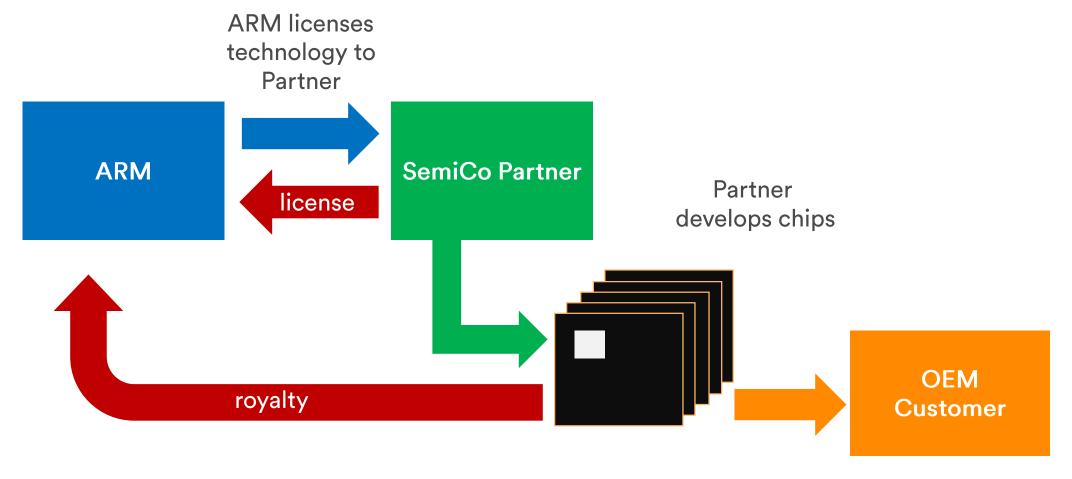
Collaboration with Canatu

Positive investment case

Close product, marketing, sales collaboration

Licensing agreement

### CANATU ARM business model



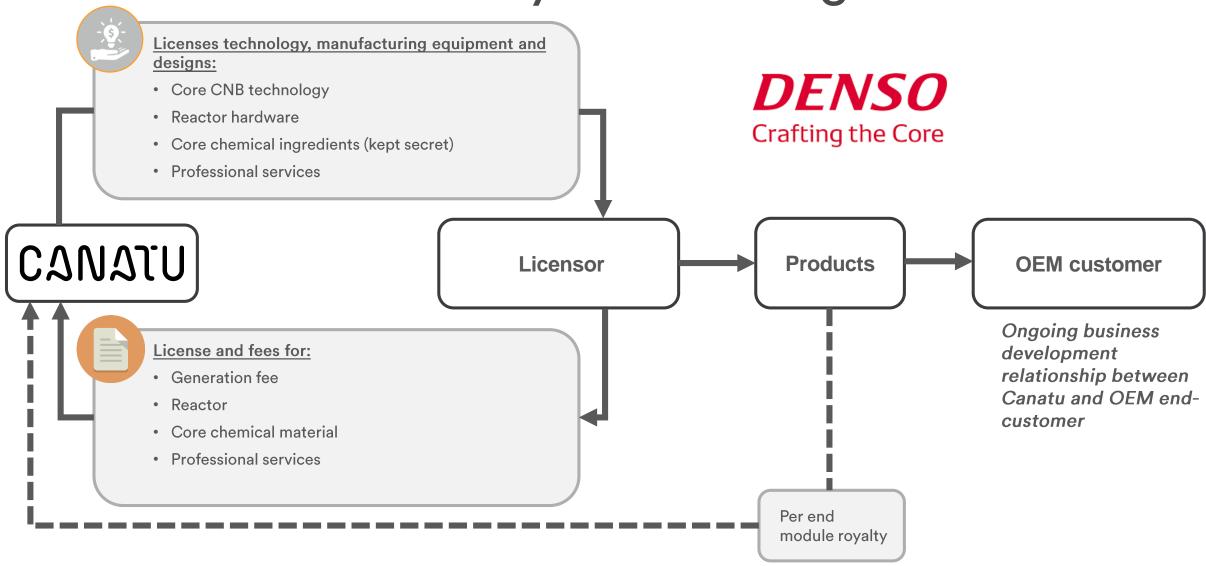
OEM sells consumer products

15 06/02/2019 Footer text

# CANATU ARM acquisition



# Canatu "ARM-style" licensing model



## CANATU Summary

IP has been playing a key role for Canatu

- Technology and product differentiation is absolutely critical
- Solve real problems and create market demand
- IP can fundamentally improve valuation
- IP enables successful licensing
- A small company may NOT relay only on patents. Trade secrets and black boxes should be part of the tool box too.
- How shall we change our IP strategy after licensing?

# CANATU®

Thank You!