Eclipse SAAM Mobility
June 15–16, 2021



EIJA HÄMÄLÄINENProject Manager
Oulu Automotive Cluster

OULU AUTOMOTIVE CLUSTER

siili auto



OULU'S TRACK RECORD IN WIRELESS WORLD



1982 EUROPE'S **LARGEST TECHNOLOGY** PARK



1992 WORLD'S FIRST **GSM** BASE STATION

1993 NEW **MENU-DRIVEN USER INTERFACE** FOR MOBILE PHONE 1996 FIRST WCDMA TELEPHONE CALL 2001 FIRST SECURITY **PRODUCTS FOR** MOBILE PHONES

FIRST SECURITY **OTA SERVICES** FOR MOBILE **PHONES**

2003 FIRST FREE URBAN AREA WLAN **NETWORK**



2013 THE FIRST **UBIQUITOUS WORLD'S FIRST INDOOR** IN PRINTED INTELLIGENCE **POSITIONING** SOLUTION

FIRST PUBLIC NFC USER



IMPLEMENTATION

TWO-FRONT

WITH INBUILT

PAPER DISPLAY

ELECTRONIC

SMART PHONE

OF LI-FI: THE FIRST

2014

FULL

2007 LAUNCH OF **MOBILE WIMAX** TEST NETWORK

2015

OF TWO 5G TEST

NETWORKS

NAVIGATION PHONE

FIRST PEDESTRIAN

2008

IMPLEMENTATION RANSFORMING EALTH CARE

TH 5G

2009 FIRST CLOUD BASED MOBILE

SECURITY SERVICES

FIRST COGNITIVE **RADIO NETWORK** PHONE CALL

LINUX PHONE LAUNCH: WORLD

2010

2011 WIFIUS - HIGH CAPACITY **NEXTGEN** COGNITIVE **RADIO** SOLUTION

2018 6G FLAGSHIP 251 M€ FUNDING FOR 2018-2026

ESTABLISHED -AUTOMOTIVE CLUSTER

2020



OULU AUTOMOTIVE CLUSTER since 2018

100 Companies

Research, education & development organisations

330 Members

automotive.oulu.com



OULU AUTOMOTIVE CLUSTER

SOLUTIONS FOR:

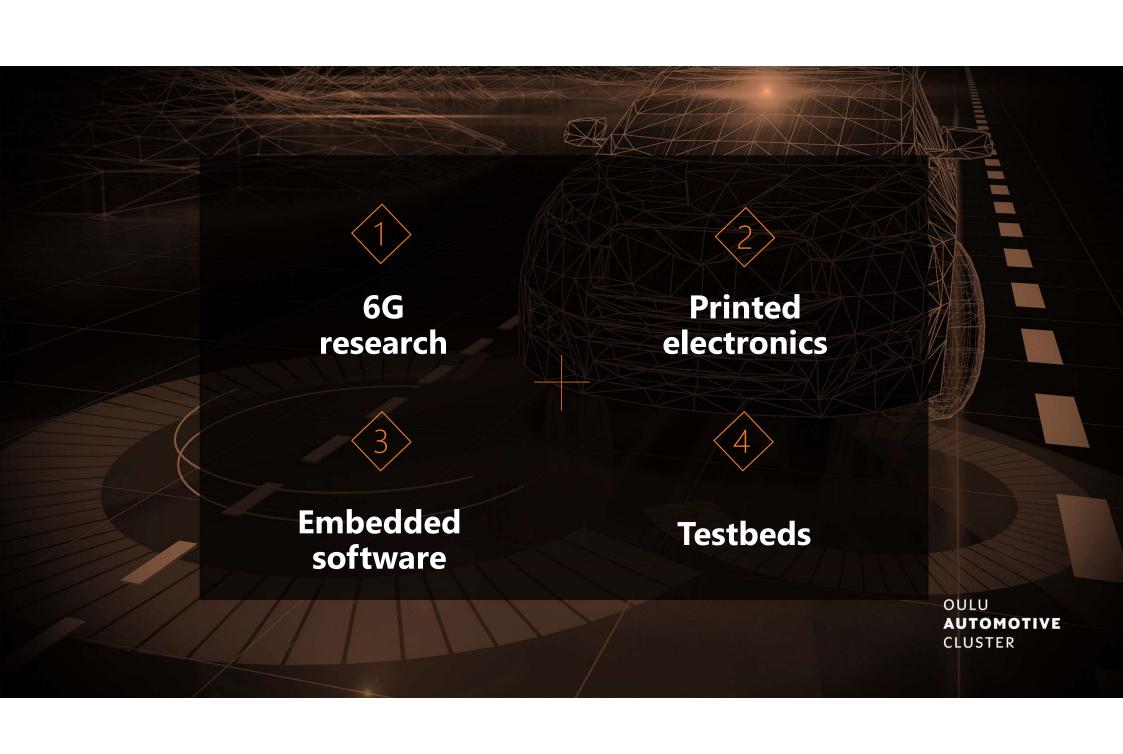
1 ELECTRIC CARS

2 AUTONOMOUS CARS

3 NEW BUSINESS MODELS

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 $\left(1\right)$

Let people explain what they do (next).

 $\langle 2 \rangle$

Let industry experts share their insights.

 $\left\langle 3\right\rangle$

Lead people to each other and to the knowledge.

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ONGOING OULU BASED PROJECTS IN THE AUTOMOTIVE INDUSTRY

Invisible A-pillar

One software platform for multiple car models

Open source platform KUKSA appstore

Augmented audio

Vibration technology to help body recover faster

A ring to open the car door

Stretchable IoT-measurement solutions

Printocent – printed intelligence

OULU AUTOMOTIVE CLUSTER

Smart windows

Light weight cabling system

Molded structural electronics IMSE

LED light solutions

Android Automotive Development

Gathering car-related data







ORIGO Steering Wheel



Co-creation funded by Business Finland





"Oulu Automotive Cluster is a fantastic ecosystem to find cooperation partners for new customer projects and joint offers. Being part of this innovative, diverse group of companies and researchers gives us competitive advantage in serving our automotive customers."

TIMO POSIO Business Development manager Siili Auto



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