









Les innovations électroniques dans l'automobile du futur



11 mars 2020 – 12h30/13h30























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Inovev tools to power your business

Inovev supports their customers with

A better **KNOWLEDGE** of their targeted markets

A better PROMOTION of their INNOVATIONS

Last update: 04/02/2020

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- Supports its customers to develop successfully their business in the automotive industry
 - Carmakers
 - Tier 1
 - All Small and Medium Enterprises



About Inovev

The company Inovev is a global service company fully dedicated to the automotive industry.

It supports automotive professionals who design and engineer vehicles and automotive systems: professionals from carmakers and their supply chain.



Inovev collects, processes and analyses data related to market and technologies



Inovev supports companies by promoting their innovations online and in Worldwide professional events



Accès aux données de production en Europe par modèle, moteur et usine (2020-2023)



Accès gratuit pour les entreprises membres d'un Pôle de compétitivité, d'une ARIA ou d'une organisation associée à la PFA

Analyse du marché automobile mondial



Accès à 800 Euros par an et par personne pour les entreprises membres d'un Pôle de compétitivité, d'une ARIA ou d'une organisation associée à la PFA

Pour accèder aux produits/services

Connectez-vous sur :

http://www.inovev.com/index.php/fr/pfa-market

• ou par QR Code









Sur la Plateforme PFA AUTOMOBILE Innovations

Consulter en accès libre les besoins de la filière automobile.

Répondre en-ligne à un ou plusieurs de ces besoins.

Proposer des innovations libres















Une addresse: www.inovev.com/index.php/fr/pfa-auto





2020 Automotive Electronics Innovation Report

An Inovev report based on the visit and analysis by Inovev experts of the CES Las Vegas

January 7 – 10, 2020 | Las Vegas, Nevada



















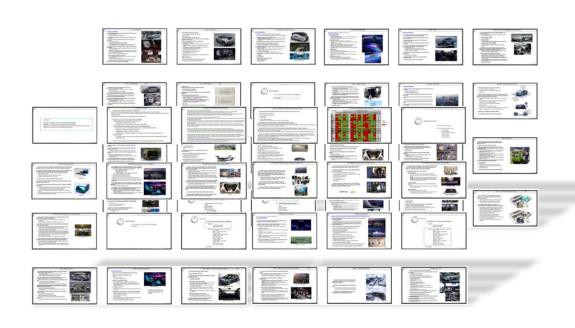
2020 & 2019 Automotive Electronics Innovation Reports for 2 000 Euros immediately downloadable upon payment

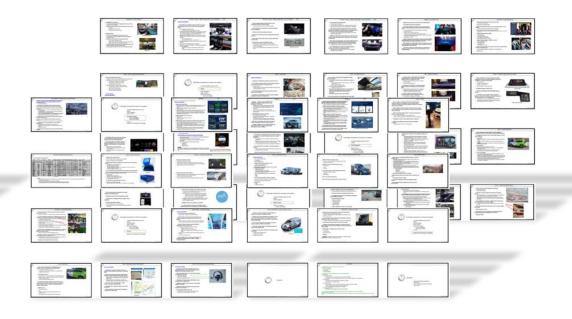


An Automotive Electronics Innovation Report of 105 pages More than

20 vehicles manufacturers and

80 automotive suppliers analysed







Contents (overview)

Preamble

- Contents
- Disclaimer
- Introduction
- Presence of OEMs at Major Automotive Shows

I. Management Summary

- General overview
- Main Automotive Trends

II. Vehicle makers

- Passenger cars
- **PODs**

III Technologies developed by carmakers and suppliers

- In-Vehicle Mobility Experience/HMI
- Display
- Voice Recognition
- ADAS Functions
- Autonomous Driving
- > Fuel Cell
- Additional Interesting New Technologies

Conclusion

Appendix

- Acronym/Professional wording dictionary
- Video links
- List of companies quoted in this report
- About Inovev
- Inovev's analysts for this study















Powering Your Automotive Business - Promotion of innovations & Market Research

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Info@inovev.com Last update: 7/2/2020

O I NOVEV
Powering Automotive Business

Introduction: overview

The automotive industry is moving at very high speed.

Never in the history technologies have been developed at such a high pace than in the last decade.

And never in in the history innovation have been transferred from a spot in the world to another spot in the world so quickly than now.

Automobile is changing towards a cosyer, safer, greener mobility room.

Electronics is a key core of this transformation, supporting:

- > A better preservation of environment and resources by:
 - Developing a neutral carbon production.
 - Enabling the share of the vehicles and the multi-modal mobility
- > A better safety of the passengers but also persons surrounding vehicles by:
 - Using more and more sophisticated and more and more reliable detection systems.
 - Reacting very quickly to the available information.
 - Delegating key driving functions to the vehicle.
 - Detecting before they become dangerous bad behaviours of the drivers: dozing off, inattention, ...

> A better comfort

- The vehicle interior is aimed to become the extended living room that invites for lounging with seamless multimedia content.
- This report analyses deeply these trends on the basis of the new technologies presented at CES 2020.





Presentation of pre-series vehicles:

- Byton, Fisker, Chrysler electric,Nissa Ariya, Faraday Future
- Presentation of concept cars
- Main subjects in automotive:
 - Sustainability
 - Sensors many Lidar sensor suppliers
 - Autonomous driving and L2+ driving
 - > New trends in the interior





Daimler Keynote Speech – Ola Källenius

- Carbon neutral production and carbon neutral passenger car fleet by 2030.
- **○** By 2030 car production plants are set to reduce their total water consumption per vehicle by >30%.
- Sy 2030 car production plants are set to reduce their energy consumption per vehicle >40%.
- By 2030 production plants will reduce waste per vehicle by >40%.
- Today every Mercedes is recyclable by 95%.
- Mercedes is aiming for 100% recyclable batteries



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Sustainability in Automotive



Toyota's Woven City at Mount Fuji



Autonomous, L2+ Driving, Drones and PODs



Baraja Lidar

- Baraja Australian company with promising new technology
- Technology comes from the telecom industry



Autonomous, L2+ Driving, Drones and PODs



Hyundai M Vision Concept

- Can drive manually or autonomously
- Equipped with fuel cells and a range of 300 miles per charge



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Autonomous, L2+ Driving, Drones and PODs



Nexus 4 EX all-electric concept

- Bell all electric drone and with AerOS a full MaaS platform
- Hyundai presented drone for first time ever
- O Both partner with Uber Elevate





- **O** Voice recognition systems
- Able to detect where are persons in vehicle, to identify them and to adapt content





Visteon microZone Display

- New display technologies
- Transparent displays
- Real black displays





Continental Ac2ated Sound

- New sound systems
- Partly without use of loudspeakers but by vibrating surfaces
- Sound bubble
- Enforcement of speaker (driver does not need to turn around)





Aisin Occupant Detection

- Driver and Occupant monitoring and detection
- To support L2+ driving
- Recognition of babies/children left behind (sound, cameras, other sensors)







- in pdf and powerpoint format

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