Integrated Photonics for the Next Generation of Autonomous Vehicles using InP Technologies

Deliverable D7.1 (D30)

Website

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Abstract

A website has been developed and social media accounts have been envisaged for the DRIVE-In project. The visual identity of DRIVE-In and the website structure have been developed as part of the corporate branding deliverable.

Keywords: Website, Open Access, Media, Events, Training, Events

Change Record

Revision	Date	Description	Reviewer
0.1	01-10-2019	Outline proposal	Francisco J. Diaz Otero
0.5	15-11-2019	Partial contents developed	WP7 partners
0.7	10-03-2020	Version for peer review	Anxo Moreira (UVIGO)
0.9	01-09-2020	Reviewed	Braulio Gómez Saavedra (VPI)
1.0	01-10-2020	Final deliverable for the EC	EC


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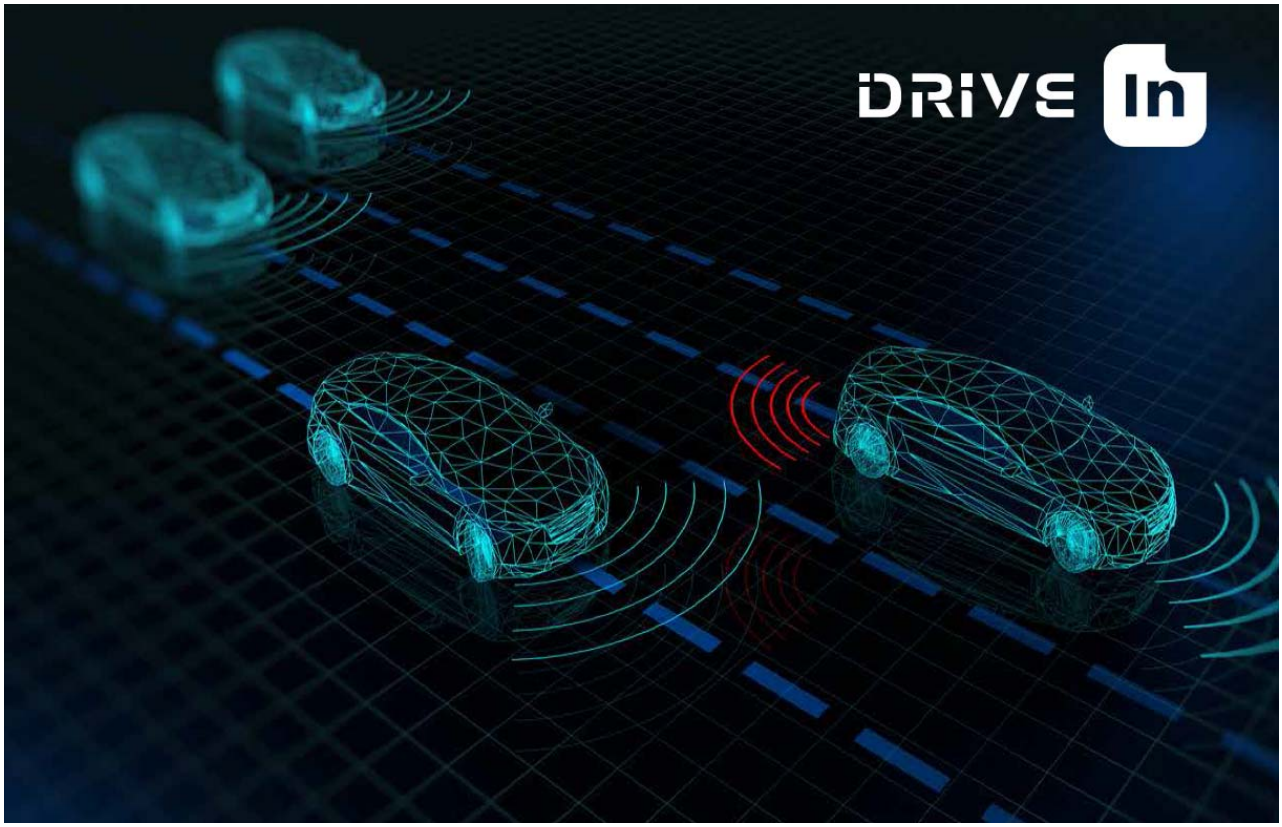

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1. INTRODUCTION

1.1 ROLE OF THE WEBSITE AND SOCIAL MEDIA

Integrated Photonics for the Next Generation of Autonomous Vehicles using InP Technologies (DRIVE-In) aims to provide cutting-edge training to young researchers in the emerging field of integrated photonics, fostering its application in the automotive industry through the development of novel generic Indium-Phosphide (InP) Process Design Kits (PDKs) as well as the creation of disruptive simulation tools and modelling procedures for use in optoelectronic (combined integrated photonics and microelectronics) systems. The DRIVE-In network will train four ESRs at two leading European academic institutions and three companies, thus forming a strong interdisciplinary network between industry and technical sciences. Together the ESRs will combine academic research and industrial knowledge to overcome specific challenges of the integrated photonics sector, related to hybridisation of integrated photonics and microelectronics, increasing Photonic Integrated Circuit (PIC) complexity, availability of PIC design tools, need for high-performance Free Space Optic (FSO) links and need for software simulation and fast-generation layout models. DRIVE-In is implemented through secondments of the ESRs between both the academic and industrial participants.

The ultimate success of DRIVE-In is strongly dependent on well-coordinated dissemination and exploitation activities. Therefore, the beneficiaries and partners of the the project have decided to include a specific work package that also includes exploitation activities for this purpose: WP7. Special focus will be on disseminating project findings to the Integrated Photonics sector, which will be the main beneficiary of the novel technologies, data and knowledge.

A project website and social media communities are key tools to accomplish this process. A website offers introduction to the project for those unfamiliar with it, provides updates on project proceedings, and acts as a central reference for contact information or resources. Social media communities invite ongoing commentary, questioning, comparison, and reflection in a more discussion-oriented environment. The two approaches complement each other in opening DRIVE-In up to public participation.

1.2 DESIGN CONSTRAINTS

The corporate design manual was produced in January 2020 (attached). Since corporate design guidelines are needed for a website with project-consistent branding, an interim website was

developed in March 2020 featuring the already-designed logo. A fully-branded website was professionally designed as part of the corporate design process, and uploaded to the Internet in July 2020. The delay between the corporate design manual production and the website uploading was mainly due to the lockdown due to Covid-19 pandemic.

2. DRIVE-In WEBSITE

2.1 WEBSITE DESIGN

The DRIVE-In website (https://driveinphotonics.com/) was designed using Wordpress, a highly popular content management system. The navigation offers seven main themes of content:

"ABOUT US": a description of the project, responsible research and innovation.

"PARTNERS": Description of beneficiaries and partners.

"THE TEAM": describing the activities and research, ESRs, advisors and lecturers, as well as information on the consortium.

"RESEARCH AREAS": resources and reference files, as well as a description of Work Packages.

"CONTACT US": an invitation for website visitors to contact DRIVE-In, with any questions or comments.

"PUBLICATIONS": contents available for articles, conference proceedings and public deliverables.

"NEWS": links to news on photonics and integrated photonics news and fabrication research, as well as a description of Work Packages.

The theme is responsive to different browsing dimensions, i.e. monitors, laptops, tablets, and mobile phones. Screenshots are provided in Section 3: Annex. Details on Horizon 2020's support for DRIVE-In are provided, with grant number, in a footnote in the Homepage.

2.2 SOCIAL MEDIA AND FUTURE STEPS

As the project proceeds, the website will grow to accommodate future content and functionality. The structure to support this is going to be be determined during this second year of the project. Right now, some modifications are:

- Under NEWS, a NEWSLETTER subsections will appear.

- New sections will appear under PUBLICATIONS: SCHOOLS AND WORKSHOPS and OUTREACH. Media, videos, interviews and other transferrable skills training will be described.

Similarly, the use of social media in the project is growing as the project activities and findings offer more opportunity for reflection, ideally moving from a “broadcasting” style to one that facilitates discussion and reflection.

LinkedIn, Facebook and Twitter accounts will be created to offer a space for ongoing discussion of DRIVE-In’ proceedings and relevant topics. This may include questioning, commentary, or contributions from consortium members as well as other, public stakeholders. A social media presence offers DRIVE-In the ability to participate in related discussions, as well.

As the project develops, both knowledge-sharing and reflection are expected to grow through this platform. The visual style of the accounts will be further developed to align with the corporate design guidelines, once complete. Social media accounts will be linked to the website and promoted accordingly. Right now these social media accounts are linked to the research center atlanTTic, where the PI develops his research.

ANNEX. DRIVE-In WEBSITE SCREENSHOTS

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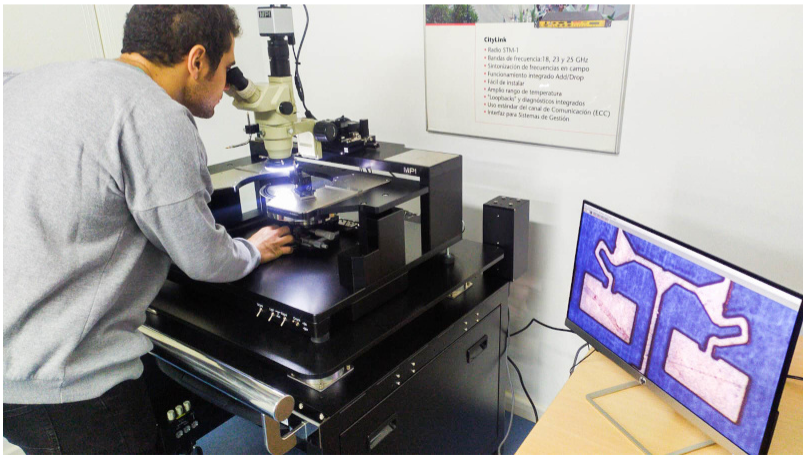
OUR WP

Research areas



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Partners

Universidade Vigo

University of Vigo

The University of Vigo, founded in 1990, is a public institution located in the autonomous area of Galicia in north western Spain. It prides itself to be a Galician, international-looking university.

Its premises are divided into three campuses. The Lagoas-Marcosende campus, which is 15 kilometers away from the city of Vigo, focuses on technology. The Lagoas campus in downtown Ourense centers on water research that produces social and economic value. The Pontevedra campus, also located in an urban setting, mixes arts, sports and humanities.

More than 24,000 students are registered at the three campuses, and 1,600 lecturers teach undergraduate and postgraduate programs at the University of Vigo. The degrees offered at the University of Vigo spread across science, technology, social sciences, law and humanities. However, the university is also considered one of the most technical universities in Galicia, with a particular focus on telecommunications, computer science, industrial engineering and environment engineering.

As an institution committed to international cooperation, the University of Vigo has signed more than 400 cooperation agreements with institutions of higher education in 38 different countries.

VPIphotonics DESIGN AUTOMATION

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Resarchers in photonics and optoelectronics
André Richter
Researcher in optical transmission systems
Internationally renowned expert in the field of modelling and design optical transmission systems and photonics applications. He fulfilled various...
Braulio Gomez Saavedra
M.Sc. in communications engineering
Received his M.Sc. in communications engineering from the TU Darmstadt, Germany. After that, he joined the Fraunhofer Heinrich Hertz Institute...
Francisco Diaz-Otero
Professor in photonics and optical communications
He is ViceDirector of the Telecommunication Engineering School, regional manager of the European Satellite Navigation Competition hosted by ESA...
Francisco J. Fraile
Professor in optoelectronics and quantum optics
He has more than 25 years of experience in research areas like optoelectronic devices, optical communications, nonlinear optics and quantum...
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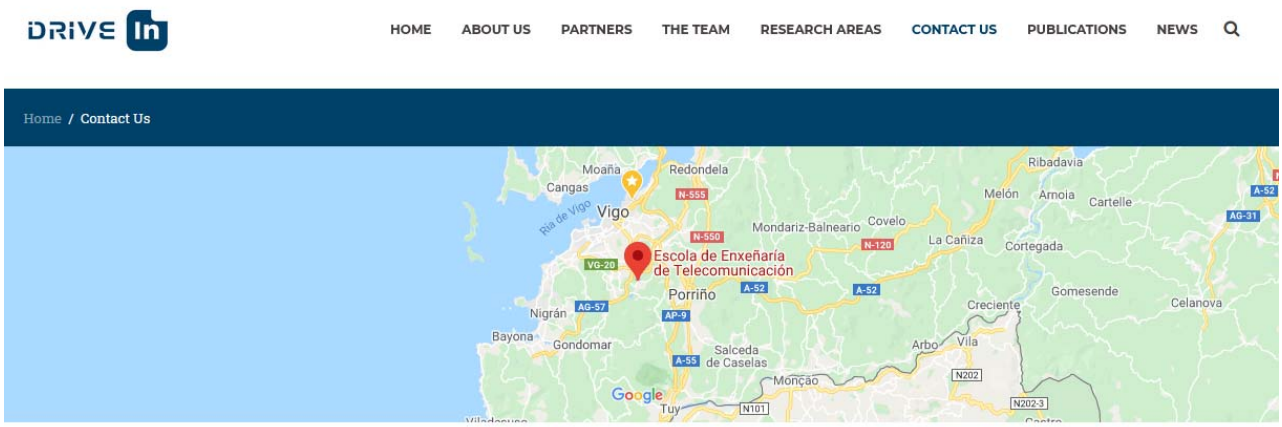
WP 2: Development of compact models and simulation methods for hybrid photonic/electronic systems
This WP will focus on the generation of compact models of components for ADAS and safety applications for large-scale fabrication in InP foundries. It will start with a complete and detailed plan and workflow to develop new compact models of the building blocks used in InP generic integration platform following autonomous driving standards. These compact models are fundamental for the basic BBs, which will be used for quality control of the fabrication process and constitute the basis for the advanced solid-state LIDAR and FSO circuit simulations needed in ADAS. This WP will provide valuable data for the generation of new elements in the PDK associated to this fabrication process. The challenge of this task is in development the model's formalism, defining the list of parameters which have to be fed into the model, evaluation of the model, implementing it into simulation tools, as well as adapting it for hybrid systems of photonics/electronics.
WP 3: Validation of the compact models and development of test structures
This WP will start with a complete and detailed plan and workflow for measurement and control manufacturing tasks in an integrated



Say Hello

Name*

E-mail*

Message*

Contact

Dr. Francisco Javier Diaz Otero
University of Vigo
atlanTTic Research Center
EI Telecomunicacion
Campus Universitario s/n 36310 Vigo

E-mail:

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VERSIÓN 1.6


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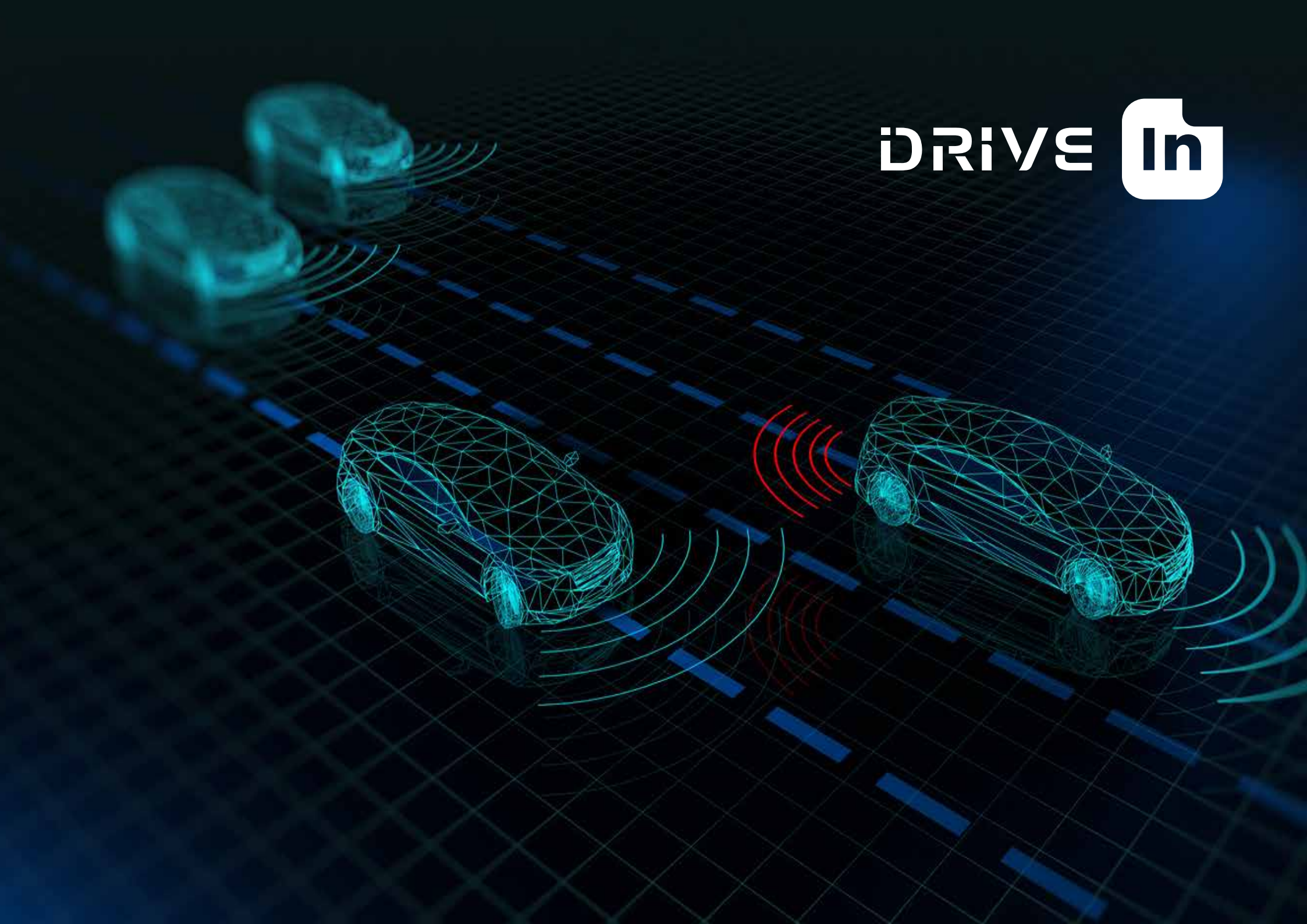
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