

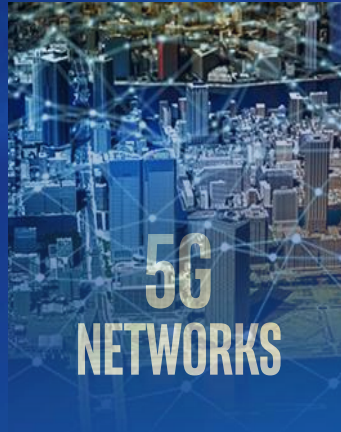


# INPUTS TO ETSI STF 565 - VULNERABLE ROAD USERS (VRU) WORKSHOP

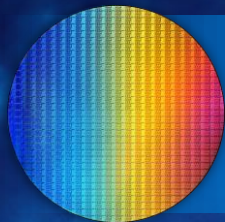
Dr.-Ing. Leonardo Gomes Baltar  
Senior Standards and Research Engineer

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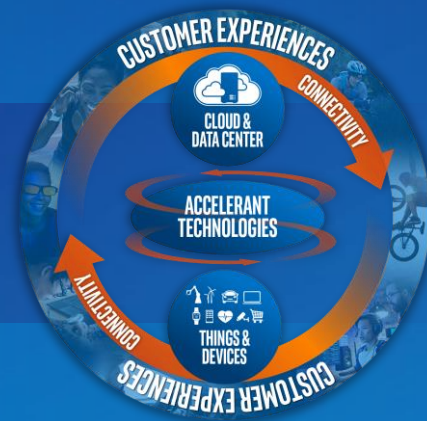
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BEST SEMICONDUCTORS**

**BE THE LEADING END TO END PLATFORM  
PROVIDER FOR THE NEW DATA WORLD**

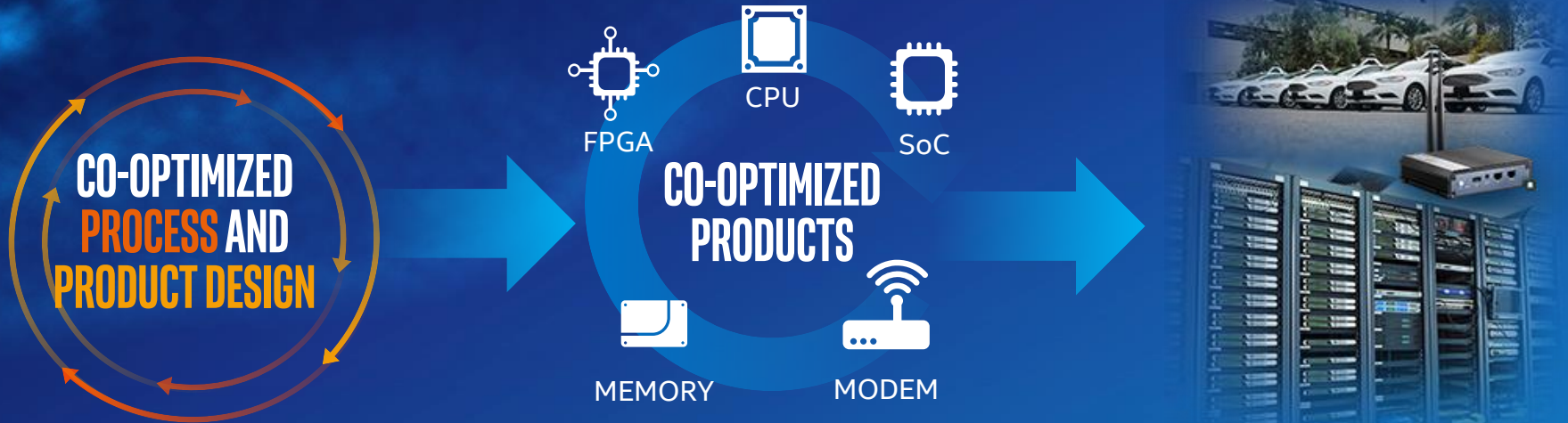


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**DELIVER THE BEST CUSTOMER EXPERIENCES ON THE PLANET**



# SEMICONDUCTOR LEADERSHIP ENABLES PLATFORM LEADERSHIP



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*Combining Intel hardware and software to accelerate AI workloads for data-intensive tasks like autonomous driving*

**DEVICES / EDGE**



**NETWORK**



**CLOUD/DATA CENTER**



# VRU IN COOPERATIVE-ITS - EXPECTATIONS

- Understand the **definition and classification** of VRUs
- Understand details of **use cases and their roadmap**
- VRU protection via **direct communications (V2P) vs. cellular network (V2N2P)**
- How much **information** about itself should the VRU provide to the system?
- How much **information** the VRU should receive?
- Who should take the **actions VRU or vehicles?**
- Understand the **user interface options** of the VRU, e.g. handheld devices, wearables, augmented reality, etc.
- Role of **cloud/edge computing** and **artificial intelligence** in VRU protection
- Role of ETSI ITS relationship to **other standards bodies**
- What are the **privacy protection** issues? E.g. data collection: edge vs. cloud

# POTENTIAL CONTRIBUTIONS TO THE STANDARDIZATION

Different solutions how VRU can be protected in various situations by the C-ITS

- Discussion on potential services/use cases and their functional requirements
- Architecture options for the VRU system, including the role of the cellular networks and cloud/edge intelligence
- Equipment-User-Interaction Features, if actions from VRU are expected
- Alignment with 3GPP cellular standards and system architecture





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