# SLAMcore Joins NVIDIA Partner Network to Provide Accelerated SLAM Solutions for Robotics Applications Powered by the Jetson Edge AI Platform

**Thursday 3 December, 2020**

**First 'Out-of-the-box' Simultaneous Localization and Mapping Solution for NVIDIA Jetson Xavier NX**

**London. 3rd December 2020**. SLAMcore, a leader in Spatial Intelligence for autonomous location and mapping, has joined the **NVIDIA Partner Network**, a program that guides developers, engineers and innovators to products and services accredited to work with NVIDIA products, including the **NVIDIA® Jetson™ platform**. For developers and product designers struggling to solve the complex challenges of SLAM (Simultaneous Localization and Mapping) in autonomous mobile robots and machines, the availability of SLAMcore's highly accurate and robust Spatial Intelligence algorithms on Jetson enables a simple, reliable and cost-effective way to access SLAM solutions.

SLAMcore offers NVIDIA customers the first 'out-of-the-box' SLAM solution for the NVIDIA Jetson Xavier NX. Rather than spending months of development time adapting open-source solutions or attempting to build SLAM software in-house, customers can now download and run the SLAMcore Spatial Intelligence software on the Jetson Xavier NX to use advanced SLAM capabilities within minutes.

SLAMcore's software provides advanced location, mapping and perception capabilities for use in robots, consumer electronics, and other devices. Jetson Xavier NX is the first Embedded Edge Arm-based architecture to be supported 'out of the box' by SLAMcore and joins a hardware portfolio of carefully selected solutions optimized to use the SLAMcore software. SLAMcore plans to offer accelerated SLAM on the full Jetson family of products.

NVIDIA's Jetson Xavier NX is designed specifically for autonomous machines. With a form-factor smaller than a credit card, it uses just 10 watts of power but is powerful enough to run parallel neural networks and process data from multiple high-resolution sensors in real time. As such it can easily support SLAMcore's computationally efficient SLAM algorithms alongside other processes needed by the robot or device.

Owen Nicholson, CEO at SLAMcore, commented; ***"The NVIDIA Jetson family is one of the most powerful and versatile embedded solutions for robotics, so joining their partner network is a significant milestone for us. We are now able to reach the many customers using the Jetson range of embedded processors, and NVIDIA customers now have instant access to advanced SLAM capabilities for their chosen module. SLAM is a complex and significant hurdle for any developer looking to create autonomous robots or consumer electronics products for real-world scenarios. Using the Jetson Xavier NX and the SLAMcore Spatial Intelligence software is a fast and cost-effective solution for these challenges."***

***"SLAMcore's ability to offer turn-key solutions for the Jetson edge AI platform gives developers of robotics and industrial applications immediate access to accelerated and advanced location and mapping capabilities that will accelerate development and deployment of new commercial products,"*** said Murali Gopalakrishna, Head of Product Management, Autonomous Machines and General Manager for Robotics at NVIDIA.

NVIDIA Jetson is the leading AI-at-the-edge computing platform with over half a million developers. With support for cloud-native technologies now available across the full Jetson lineup, manufacturers of intelligent machines and AI developers can build, deploy and manage high-quality, software-defined features on embedded and edge devices targeting robotics, AIoT, smart cities, healthcare, industrial applications and more. Cloud-native support helps manufacturers and developers implement frequent improvements, improve accuracy, and use the latest features with Jetson-based edge AI devices.

**About SLAMcore**

SLAMcore's mission is to deliver commercial Spatial Intelligence software, which is highly accurate and computationally efficient to robot, consumer electronics and device manufacturers worldwide. Robots and smart products need to efficiently locate themselves, map and understand their surroundings in real-time. Simultaneous localization and mapping (SLAM) remains one of the hardest development challenges for robot and product developers, consuming significant time, resources and hardware. SLAMcore's visual

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inertial SLAM uses world-class software, running in real-time, on cost-effective hardware to deliver robust real-world performance. SLAMcore commercial-scale software can be optimized for a wide range of sensors and compute, so developers can concentrate on developing products rather than struggling to solve simultaneous mapping and localization challenges.

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