

## Terranet to Present First Serious Lidar Alternative at CES

At next week's International CES 2020, Terranet will demonstrate [VoxelFlow](#) - a 3D motion perception technology capable of detecting and classifying objects far more accurately and exponentially faster than Lidar. Terranet's demo is timely considering Tesla CEO Elon Musk shocked the press just last April with his remarks: "Lidar is a fool's errand. Anyone relying on lidar is doomed. Doomed!" In a bold move, Swedish-headquartered Terranet plans on backing up Musk's claims that Lidar is merely a dangerous shortcut to image recognition – a perilous reliance if that's what the promised fully autonomous cars of the future will continue to use.

Invented by Dirk Smits, VoxelFlow was built upon the understanding that today's camera-based computer vision and artificial intelligence navigation systems are simply too slow and subject to fundamental speed limits of perception using a frame based approach. Lidar has limited resolution and slow scanning rates, making it nearly impossible to distinguish between, for example, a fixed lamppost and a running child.

The underlying problem with Lidar or any existing camera/computer vision technology is that it cannot detect vulnerable road users with low latency. VoxelFlow on the other hand classifies dynamic moving objects at extremely low latency using very low computational power, producing 10 million 3D points per second, resulting in rapid edge detection without motion blur. The iPhone's 'selfie' camera pales in comparison, producing a mere 33,000 light points per frame. Put into context, standard vehicles today and even those with autonomous driving roadmaps in place don't use cameras much stronger than that of the iPhone's selfie camera.

VoxelFlow's capabilities are especially relevant considering harrowing statistics indicating that 80% of all crashes and 65% of all near-crashes involve driver inattention within the last 3 seconds of the crash. By providing life-saving decision making in milliseconds versus seconds, Terranet envisions transforming the pre-crash inattention that today accounts for roughly 1.35M road accident deaths into a forgotten collision-free swerve on the road.

"Terranet succeeding in proving VoxelFlow as a serious and necessary contender to Lidar is just the kind of shake-up the oft self-congratulatory autonomous driving community needs to kick start the new decade and save lives," says Terranet CEO, Pär-Olof Johannesson.

To schedule a viewing of the VoxelFlow demo during CES, please contact +1-818-672-6954 or email [lena.hagvall@terranet.se](mailto:lena.hagvall@terranet.se)  
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**ABOUT TERRANET**

Terranet has a strategic focus within active safety and develops software for radio-based sensors as well as GPS and non-GNSS solutions intended for self-driving vehicles. Terranet is headquartered in Lund, Sweden with established sales and marketing agents in the US and Germany. Terranet Holding AB (publ) is listed on Nasdaq First North Premier.

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