

# **NexGen SIMS**

## **Next Generation Carbon Neutral Pilots For Smart Intelligent Mining Systems**

NexGen SIMS (Next Generation Carbon Neutral Pilots For Smart Intelligent Mining Systems) emerged from the successfully implemented Horizon 2020 project SIMS. This is also a demonstration action project. A key aspect of the project was the development of carbon neutral, autonomous mining processes.

In order to achieve the project goal, the AMT was significantly involved in four work packages.

The Digital Miner work package was about the miner of the future. Based on the experiences from the previous projects, a concrete vision for future jobs in the mining sector was developed.

The AMT was responsible for developing a system for the short-term provision of a communication network in areas without any infrastructure, for example after blasting.

Furthermore, a sensor system has been developed to monitor the air quality in mines, especially when switching to battery-powered vehicles.

As a contribution to autonomous driving and to increase the safety of workers and machines, the AMT was also involved in developing a sensor system for an automated muckpile detection.

<https://www.nexgensims.eu/>



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