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FILTRABIT-NEW INNOVATION TO INDUSTRIAL DUST EXTRACTION

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This paper presents the development and commercialization of a novel dust extraction technology. Driven by stringent EU emission regulations, the need for more efficient dust removal solutions has become paramount in industries like mining and metallurgy. By combining fundamental fluid dynamics research with industrial practice, SSAB researchers and Oulu University developed a modular dust extraction unit capable of significantly reducing emissions. This innovation, initially supported by EU-Horizon funding, has led to the creation of a spin-off company offering the technology to various industries. The paper outlines the innovation journey, including the theoretical underpinnings, prototype development, and successful field testing. The new dust removal method offers a promising solution to address environmental concerns and improve working conditions in industrial settings.

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