## Automated SEM Image Analysis for the Determination of Diameter, Length and Morphology Distributions of CNTs

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## Motivation

An automated software based approach on the analysis of fibres can have several advantages over manual analysis. Especially measurements of workplace conditions require the analysis of a vast amount of pictures to give account to a certain analysed area/air volume. Therefore an automated process would save a lot of time. But, moreover, it can analyse the fibres on other different aspects, than only length and diameter, at the same time. Thus, giving more information about each specific sample, leading to a thoroughly analysis of the fibres also regarding their hazardous or harmful characteristics.

On this poster we present our attempt seize the challenge of detecting, recognizing and analysing fibres with a custom built software.

