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NANoREG's Safe-by-Design Concept

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Abstract: The NANoREG Safe-by-Design concept is as nano-related add-on, focusing on the safety part, for existing industrial innovations processes such as the Stage Gate Model encompassing different activities and approaches.

The NANoREG Safe-by-Design concept is not a stand-alone process. The modular character allows a seamlessly integration into the various stages of the innovation process of enterprises developing manufactured nanomaterials (MNM), nano enabled products and related processes.

The NANoREG Safe-by-design concept allows the timely identification of uncertainties of and potential for risks as well as actively adapt a innovation or the development in order to reduce or eliminate these uncertainties and if possible the respective risks at the earliest possible stage of the innovation process.

The benefits of NANoREG's Safe-by-Design concept are diverse, and composed of:

a) Reduction of uncertainties about human and environmental health safety; b) Early and easier risk identification; c) Projects with unacceptable risks can be timely recycled or terminated; d) Risk reduction; e) Less "surprises" (i.e. unforeseen events) during the development process and market introduction.

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