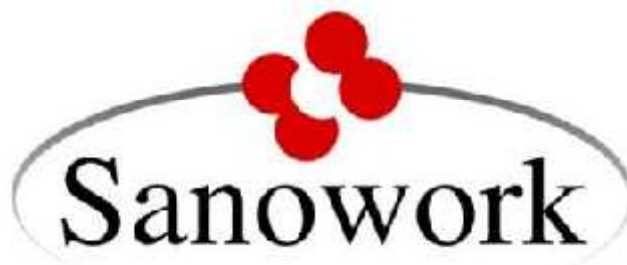


Workshop: Operational occupational Risk Management Models  
and tools for MNMs in the industry





**TO DEVELOP “DESIGN OPTION BASED”  
RISK REMEDIATION STRATEGIES**

and

**INTEGRATE THEM IN MANUFACTURING PROCESSING LINES**

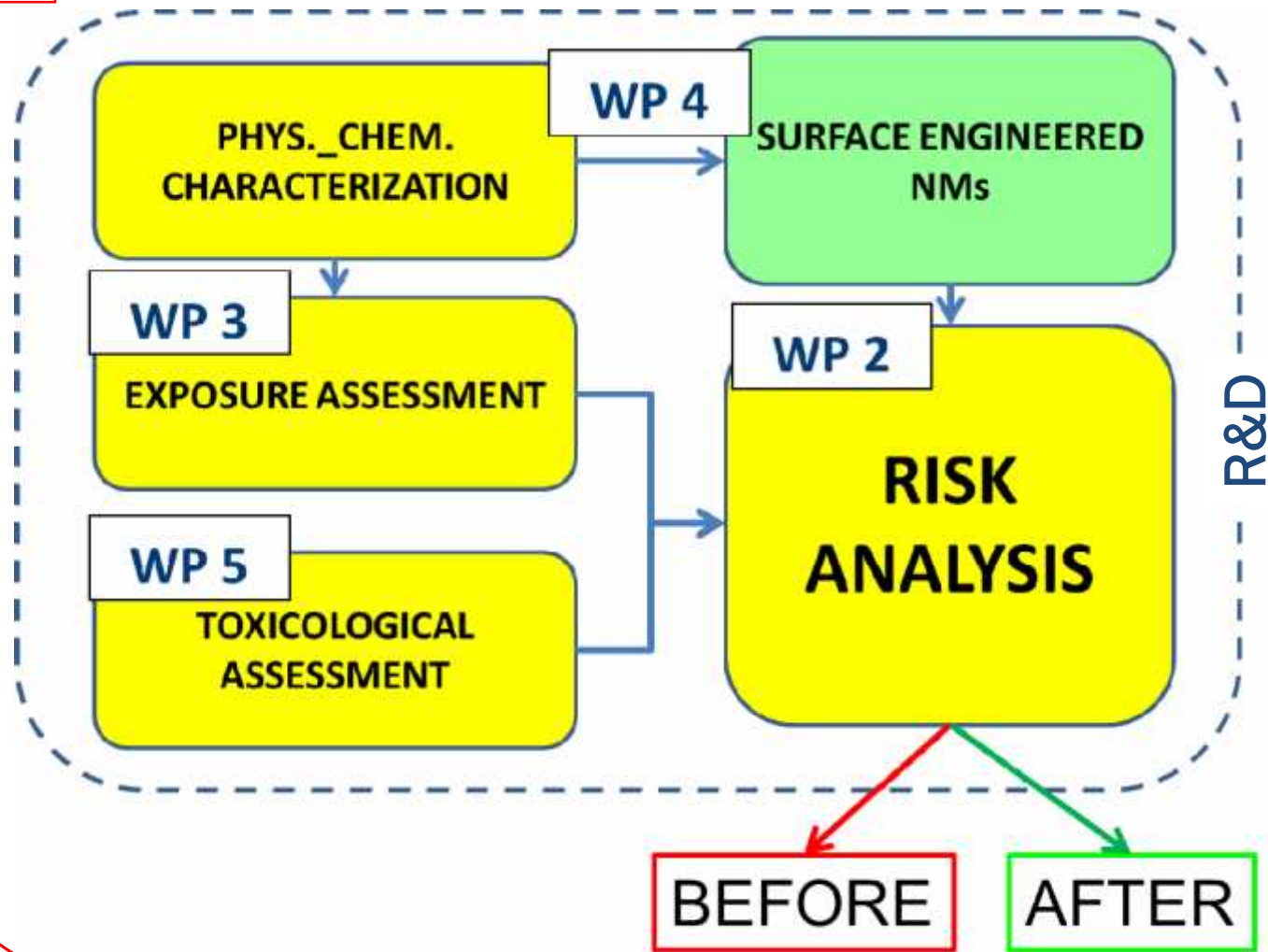
- by implementing **EXPOSURE** assessment methodologies in the **WORKPLACES**
- by performing a **RISK** analysis **BEFORE** and **AFTER** the application of the proposed strategies
- by analyzing **COST / BENEFIT** on the basis of the risk analysis results and NMs performance

# WORK PLAN / STRUCTURE



**WP 6**

**IMPLEMENTATION WITHIN INDUSTRIAL PROCESSING LINES**



## KEY OUTPUTS



- ❑ Some of the NMs design strategies developed contributed effectively to reduce health hazard and exposure potential. In particular, the best strategies, in term of feasibility, biological response, cost/effectiveness, resulted: **SiO<sub>2</sub> coating** for the control of hazardous properties; **“Nano to Micro”** technology (*spray-granulation processes*) for the control of exposure potential. Furthermore a **Forced agglomeration** design strategy resulted very effective for the control of environmental potential exposure and recovering and recycling of waste powder.
- ❑ A full assessment of **product / process efficiency** let to evaluate the feasibility and sustainability of proposed strategies, the interest and positive feedbacks shown by companies involved, ensure a strong impact of these results.
- ❑ The **risk assessment** of the different NMs **before and after the introduction** of nano-design strategies permitted the categorization of the Sanowork exposure scenarios into “Unlikely healthy risk” and “Possible healthy risk” groups and a cost/benefit analysis of the proposed solutions.
- ❑ The prospective **of insurers and regulators** was addressed by business school of University of Lymerick. For the risks thus described, specific insurance provision would fulfil a self-regulatory role that would be of optimum benefit to policy holders in terms of risk management costs and preserving the social or network capital formed by the labour force driving this industry.

