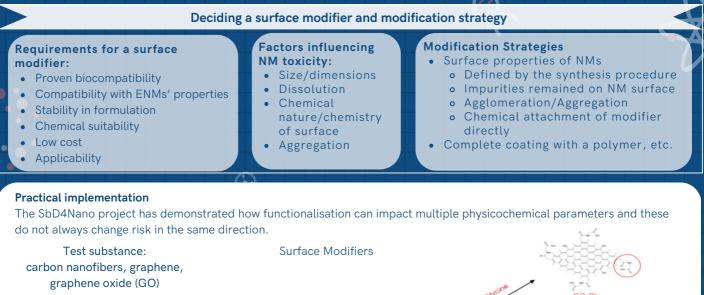
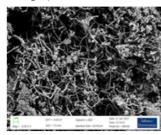
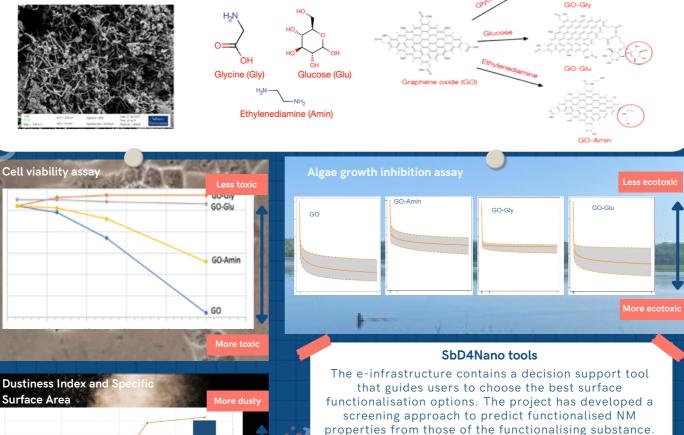
Role of surface chemistry in Safeby-Design



Control over the physical dimensions of 2-D NMs (size, shape and layer number) is very difficult, so these parameters are not simple to vary during Safe-by-Design (SbD). This leaves the control of the surface chemistry as the most viable approach towards SbD for this family of NMs. This factsheet summarises how introduction of surface functionality to graphene oxide can change the potential for both hazard and exposure to humans and the environment.







. **(**)

Less dusty



As the interface to the biosystems, altering surface chemistry of NMs can serve an effective strategy for SbD implementation into safer nanomaterials. Each NM case should be evaluated to decide the surface chemistry and modifications strategy.