

Applications based on nuclear physics impacting our society.

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Nuclear physics collaborations are using a lot of expertise and novel equipment for understanding exotic nuclei. Based on this, "Development of..." is one of the most used wordings at the beginning of a lot of theses or publications. However, these novel developments can not only be used in experiments and accelerators, these developments can often be used for applications for the society, too.

Furthermore, all collaborations and facilities are writing status reports for funding agencies and stakeholders. For instance, GSI produces >140 official reports per year (Status 2013; without third-party reports!). In most of these reports performance numbers like publications, students, patents, spin-offs, return on investments, etc. are very important: the impact for the society is enquired! These performance numbers are used for national and international rankings. Moreover, a lot of funding programs in Horizon 2020 are based on innovations or impact for the society.

This presentation gives an overview of GSI Validation Projects based on nuclear structure physics, which we developed in synergy with the experiments used to impact our society. It will be shown how beneficial such projects can be both for science and public.

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