

**Impact Assessment, Evaluation and
Monitoring of RIs**

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- competence and infrastructure for complementary research with photons and neutrons in engineering materials science
- development and operation of own (HZG) beamlines
- unique sample environments for *in situ* studies of engineering processes
- sample preparation and characterization labs
- engineering-specific user support

GEMS

Photons at DESY



PETRA III

Neutrons at MLZ



FRM II

Why do we need an impact assessment?

- HZG is a research center funded by public money
- (mainly German Ministry for Research and Education, additional third party funding like EU projects)
- How is the funding justified?
 - Main KPI is the scientific output (scientific papers, conference contributions...)
 - Societal Impact becomes more and more important
- Reports on SI are required e.g. in internal and external evaluations and/or requested by the HZG advisory board

Effort/resources:

- Meetings (with Rathenau partners, online with WP1)
- Collection of data from earlier reports etc
- Writing of the report
- 2 Persons involved, approx. 15 Days in total
- Budget: Approx. 4800 EUR (+ Overhead)

How did we apply the Rathenau protocol?

- We concentrated on industrial use of synchrotron and neutron facilities
(A complete SI evaluation for the whole research center or even only the whole institute for materials research seemed out of scope; other SI than industrial use of this part of our institute is hard to quantify/qualify)
- Methodically we followed the Rathenau protocol
- Usefulness: The protocol helped GEMs to gather data about impact in the industrial research sector and present them in a condensed way.

Problem: Hard facts (Numbers of users etc...) are easy to assess.

About the actual impact (How useful are the results for the industrial user in the larger context of their business we usually do not learn)

Thank you!