

# IEA-R1: Radioactive Waste, Uranium Systems and General Information

## INNOVATION TRAJECTORIES, INSERTION AREAS, A ROADMAP IEA-R1 IN NUMBERS

P4

A.A. Perini<sup>a</sup> and A.Z. Freitas

<sup>a</sup> [perini.aline@gmail.com](mailto:perini.aline@gmail.com)

Nuclear and Energy Research Institute, São Paulo, Brazil

The main objective of this work is to present a general framework of the impact of technological innovation in the Research Reactor IEA-R1. The innovation are vital to improvement offer through chains front-to-end in health, environment, food and agriculture, energy, chemistry, education, entertainment and arts: treat supranational levels and offers accessible global technology. The innovation pool perspective in IEA-R1 is a natural consequence of investments in Research and Development (R&D), between and among Universities and Public Research Institutions and multiple benefits arising from results, towards Awards in Science and Policy disclosure. Geographically IEA-R1 is situated in São Paulo Capital, one of the 10 biggest cities of the globe with high density of population and market demand. The technological innovation impact measurements depend on (1) quality of diversified technology knowledge and (2) quality of diversified country industry knowledge, these innovation indicators can be specified further. From this big view picture, IPEN's Technology Transfer Office took these two general dimensions of impact into account and divided them into four (4) sub-categories that explain over five years of the potential benefits and performance results in areas such as: a) human resources, b) services and products, c) research, teaching and education, d) intellectual property, patents, projects, creativity and inventiveness. IEA-R1 research reactor in numbers is an inspirational approach engine and large influence in cultural and Institutional policymaking in Science, Technology and Innovation (S&T&I). The unique strengthen link can be matched from the S&T&I Policy in term of "technology transfer" in capacity building from push or/and pull innovation models. The central competence framework aimed at advancing knowledge necessary for initiating a Brazilian Multipurpose Reactor (RMB) installation process that would eventually lead to innovation trajectories and with strong security and safe cultural insertion gauge to country succeed in international competition through innovation and growth, high-quality products and services, and research and education areas.