

OBJECTIVES

ERROR's main objective is the development of a new software tool, which will offer to the clinician the possibility to assess imaging and therapeutic protocols predicting the absorbed dose per organ.

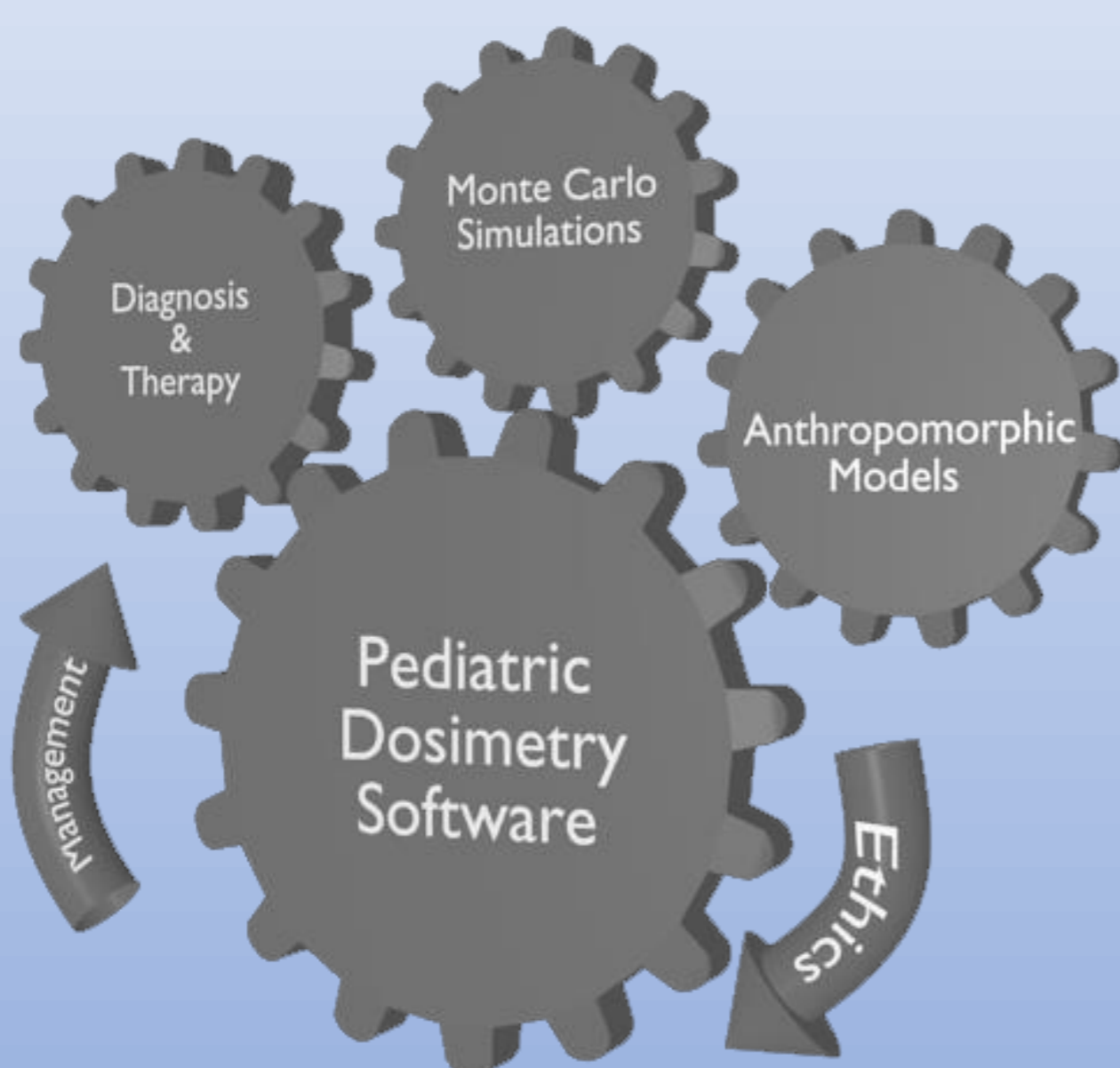
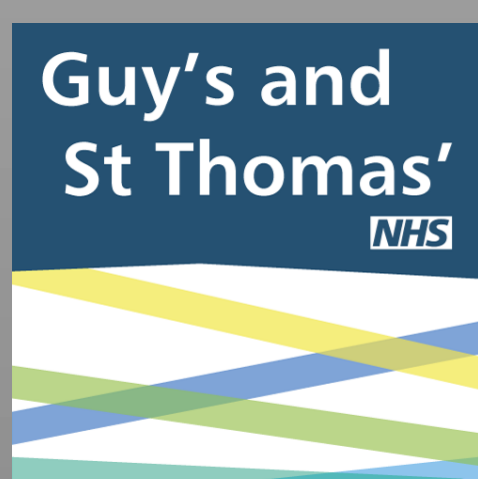
This tool will be designed, implemented and evaluated for pediatric applications, since this is a rather sensitive target group, where dose considerations are high and no standard protocols and solutions exist.

METHODS

ERROR will exploit:

- New generation of anthropomorphic phantoms
- Well validated Monte Carlo simulations
- Machine learning tools

In this way, it is envisaged that advanced, yet mature technologies will be integrated, to provide a novel tool, which can lead to a final product.



WORKING PACKAGES

ERROR is split in 7 WPs, closely interlinked.

#WP	Task
1	Project Management (UPAT)
2	Collect clinical data – Creation of pediatric population (UBO)
3	Pediatric dosimetry (UPAT)
4	Integration of the data in a platform (LIBRA)
5	Creation of a software (BET)
6	Dissemination / Exploitation / Training (BET)
7	Ethics Requirements (EU)

CONSORTIUM

The **ERROR** project brings together a multidisciplinary consortium of specialists in different areas of medical physics, biomedical engineering, physicians and computer engineers, who will join forces in order to design, implement and clinically assess novel software tools. Two new SMEs will provide their expertise and will exploit project outcome.

Project Partners	Role in project
University of Patras (UPAT–GR)	Project Coordinator – Database – MC simulations
Université de Bretagne Occidentale (UBO–FR)	MC simulations – GPU – Clinical assessment
Guy's and St Thomas NHS Foundation Trust (GSTFT–GB)	Clinical data – assessment – procedures
BET Solutions (BET–GR)	Dissemination – MC simulations – Software Development
LIBRA MLI Ltd. (LIBRA–GB)	Machine Learning – Software Development

CONTACT

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