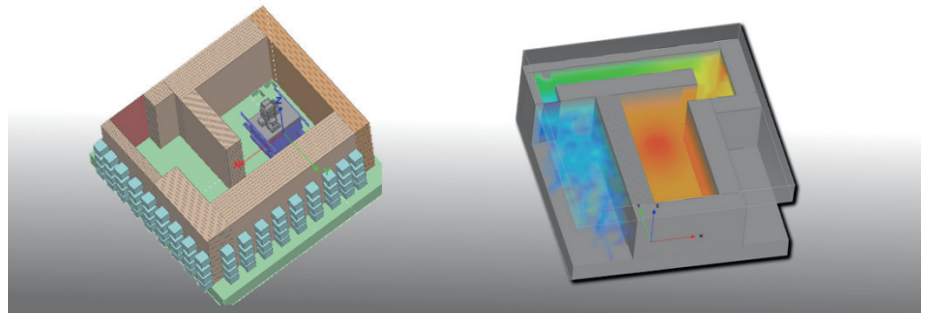# RayXpert®

Monte Carlo Radioprotection Software

Thanks to its strong experience in software development in the field of radiations, **TRAD Tests & Radiations** offers a unique solution dedicated to nuclear applications: **RayXpert®**, a 3D modeling software that calculates photons and electrons dose rate by Monte Carlo method

Your radioprotection needs

- Dosimetry calculation
- 3D cartography
- Radiological protection optimization
- ALARA approach
- Sizing of nuclear buildings
- Energy deposition calculation

Our solution

3D Import & Design: Direct use of standard CAD models in format STEP.

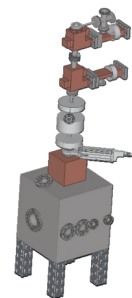**Material & isotope definition**: Pre-defined libraries, NIST, EAF & JEFF.

Types of sources available: Gamma decay spectra, electron/photon beam.

Calculation by Monte Carlo: photon, electron & positron transport.

Calculation options: Multi-sources, multi-detectors, automatic biasing, multi thread.

Your benefits

- *Great time saving by importing your 3D geometries*
- *Friendly interface, easy handling*
- *Accuracy of Monte Carlo method*
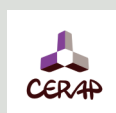- *Powerful decision-support tool*

Trainings

At TRAD premises or at your location
Our experts offer you a one-day training session, allowing you to be completely autonomous on all your radiation projects.

They trust us:

AIRBUS SAFRAN LAUNCHERS — AREVA — BOUYGUES CONSTRUCTION SERVICES NUCLÉAIRES — cea DE LA RECHERCHE À L'INDUSTRIE — CERAP — EAMEA école atomique — h e d s Haute école de santé Genève — IRSN INSTITUT DE RADIOPROTECTION ET DE SÛRETÉ NUCLÉAIRE

For more information: www.rayxpert.com

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Tests & radiations