

DGA Maîtrise NRBC (Expertise in nuclear, radiological, biological and chemical issues)



Modelling and simulations

Catchline

Evaluating biological and chemical risks

Background

Reachback NRBC (“expertise NRBC à distance” in French) is a DGA Maîtrise NRBC skill which extends across a number of areas of expertise at the centre:

- The chemical or biological analysis, in a laboratory, of suspicious samples
- The evaluation of biological and chemical risks through modelling and simulation in order to identify danger areas

OXER-BC is a simulation software which, on the basis of a scenario (source term, agent, environment, terrain, weather, etc.), enables the remote evaluation of biological and chemical risks by characterising the consequences of rejecting an agent. This expertise can be applied to:

- The technical specification of protective equipment
- The evaluation of NRBC situations during military operations
- National security

Expertise

Experts from the DGA Maîtrise NRBC operate within this context in order to ensure:

- A response tailor-made to each request (DGA, chiefs of staff, authorities)
- Models suited to the situations that have been evaluated (compliant, valid, fast)
- Optimised data (available and verified within the required timeframes)