Biology in Defence

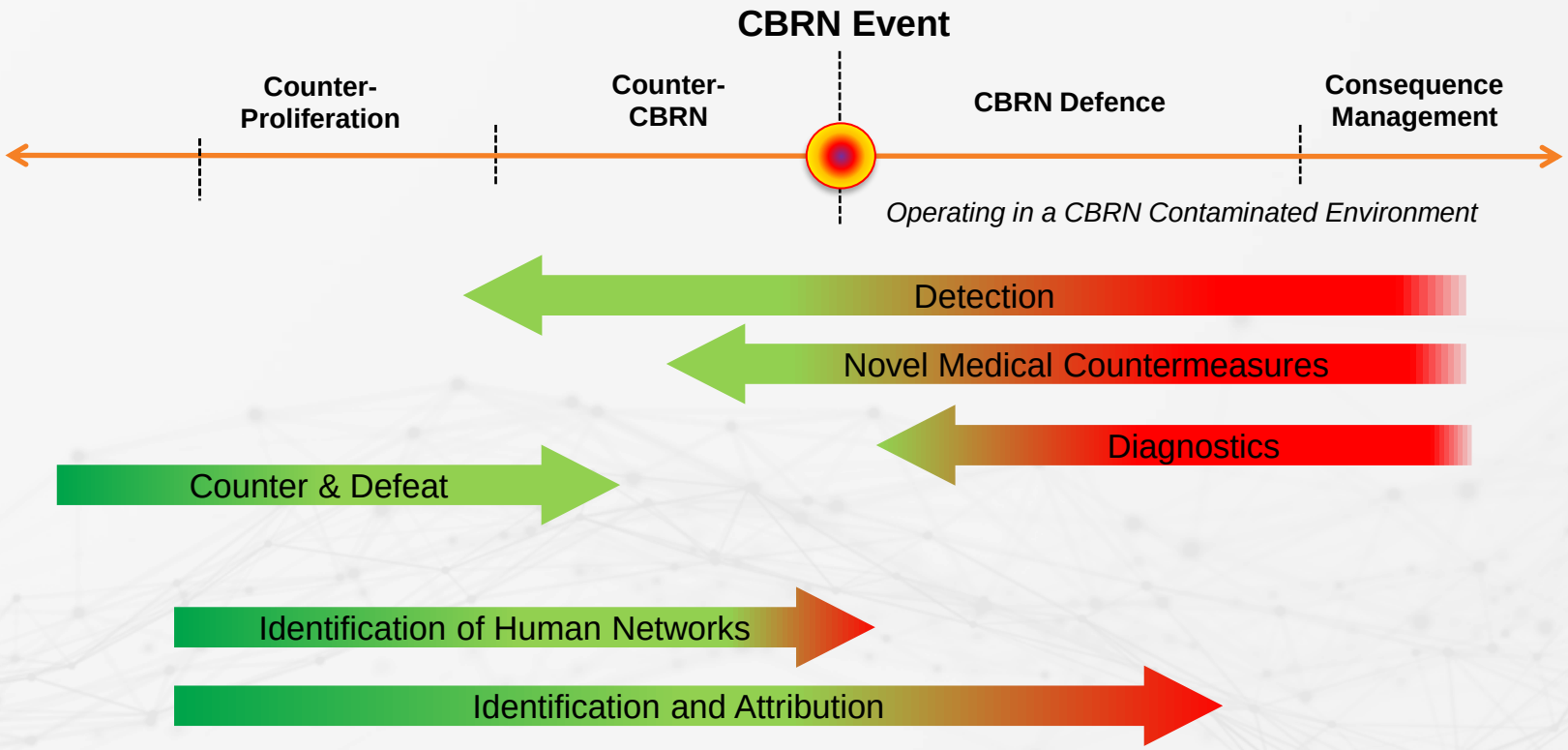
Applying genomics and emerging technologies to counter, assess, attribute and mitigate C & B threats

Pre-event focussed

- Non-proliferation, counter, emerging threats

Post-event focussed

- Enabling soldiers to operate effectively in a contaminated environment



CBRN Defence

The CBRND MSTC is responsible for developing, sustaining and applying the Chemical, Biological and Physics science skills required for defence against threats from Chemical, Biological, Radiological and Nuclear weapons.

Chemical Defence

Understand the hazard posed by highly toxic chemicals and undertake analysis to verify alleged use.

Chemical and Biological Agent Detection and Protection

Develop and assess equipment and systems to support First Responders and the ADF mission to survive to manoeuvre in CBR environments.

Biological Defence

Understand the hazard posed by Biological agents. Investigate the mechanisms of action of MCM to Biological and Chemical agents, and Toxins.

Genomics and Biotechnology

Understand and implement new technologies in the areas of genomics and biotechnology for the benefit of Defence and National Security.

Modelling and Physical Sciences

Application of physics and mathematics to the detection, characterisation and mitigation of CBRN threats.

Defence Science and Technology Strategy 2030

Focus

Scale

Impact


Navy
Army
Air Force
Defence
Government
Advice, Research, Assurance, Future-proofing, Sustainment
Defence Capability and Operations
Partnerships, Emerging futures, Outreach, Translation, Coordination
Industry
Academia
SMEs
International Partners