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2nd International CBRNe Workshop "IW CBRNe 2015" Università di Roma Tor Vergata, 20 November, 2015 Michael Thornton

CBRN

Centres

of Excellence

An initiative of the European Union











Inside the EU

- The EU has the CBRN Action Plan for the EU-28
- Primary responsibility for mitigating CBRN risk lies with Member States





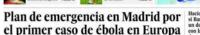


Facts about Ebola









Una auxiliar del Carlos III se infecta tras tratar a los dos repatriados españoles Comenzó a mostrar sintomas hace siete días, pero el pagnital desearró su intereso no cumplian los receividi



Nace elpais.cat, un diario global en catalán con vocación de pluralidad Sáenz de Santamaría lo presenta como una "nueva forma de proyectar la realidad desde y hacia Cataluña" @ Cebrián defiende que representará "una voz liberal y progresista"

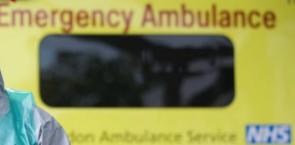






CRUCERO 2015 50

COGITRAVEL



We would like to stop them at source





Outside of the EU



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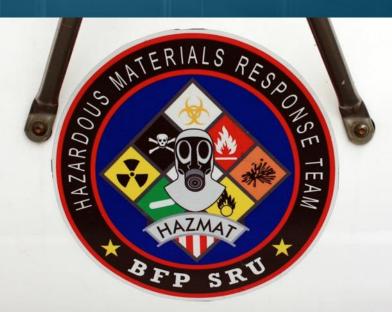






Responsibility

- Primary responsibility for mitigating CBRN risk lies with partner countries
- CoE helps identify needs
- CoE can compliment and help build capacity

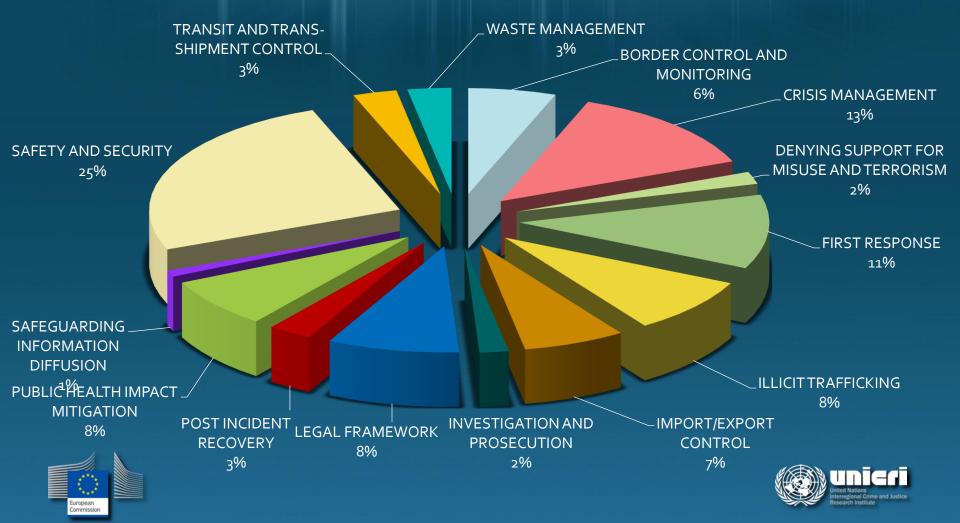








Technical areas of 49 CoE projects







Lao-Tzu 5th Century BC

• Give a man a fish, and you feed him for a day. Teach a man to fish, and you feed him for a lifetime.







Redundant equipment









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Strengthen the long-term national and regional capabilities



Professor Alastair Hay with university professors from Jordan, Lebanon and Iraq

Lecturing to students on the dual-use of chemicals at the Université Saint Joseph, Lebanon



Unied Nations United Nations United Nations Research Institute















Support and reinforce short-term response capabilities













Emergency response















First response and decontamination in the first 15 minutes

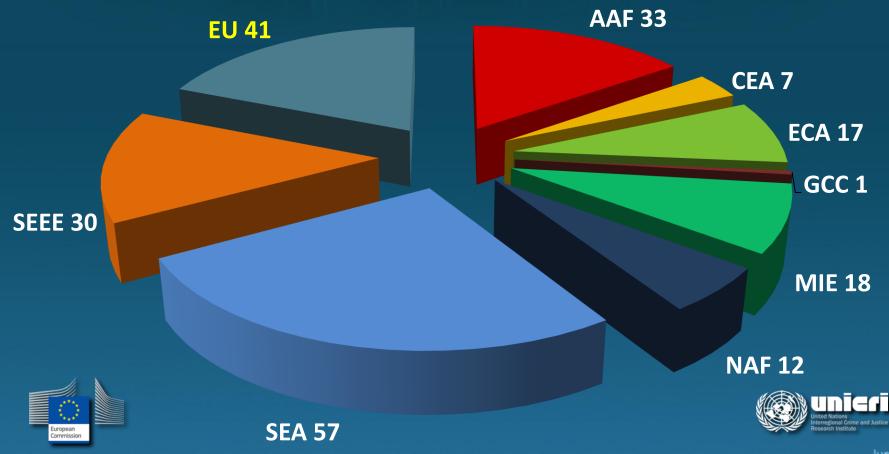


- Communicate
- Evacuate
- Disrobe
- Decontaminate
- (Dry)
- Cheap
- Effective
- Uses no water





Training sessions per region







Ospedale del sacco, Milan BSL-3







Kingdom of Brunei

• Knowledge Development and Transfer of Best Practice on Bio-safety, Bio-security and Bio-risk Management











Libreville, Gabon

- University Hospital Angondjé, home of the Gabon Cancer Institute
- Cost around 82 million Euros and was opened in 2012
- It prides itself in a state-of-the-art waste filtration and management system for liquid and solid BC waste, including a modern double-chamber, pollution-free, General Electric diesel fuelled incinerator



Centre Hospitalier Universitaire d'Angondje et Institut de Cancérologie de Libreville







Centre hospitalier univeritaire D'Owengo

- Pharmacology, Toxicology, Chemistry labs. are not adequately equipped for hazardous waste disposal
- There was no waste management system in place
- BC waste and expired chemicals could not be disposed of so hazardous BC materials are stored unlisted in the labs on the floors, in drawers, in small cupboards and rooms and in the roof space









Solid waste

- Biological waste from the Pathology Department is stored in the department for six months (in order to allow relatives to claim body parts for burial) and then shipped to municipal waste dump if not claimed
- (Mbeubeuss Landfill one of largest landfills in the world







Liquid waste

- Liquid waste is poured down the drains into the sewer
- Toxic wastes leech into the stream which flows around the the hospital
- The heavily polluted water of this river used by local inhabitants for washing their clothes and children playing in the river











• Work in a BSL-3 lab

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One size does not fit all

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Capacity building

- We need a holistic approach
- Raising awareness (education) and capacity building at all levels
- Simple, low tech solutions may be the best
- One size does not fit all
- With challenges comes opportunities







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