



Deliverable D6.2

IPv6 based secure communication

Annex 2

Annex 2 - CHEMICAL PLANT FIRE & NOXIOUS CLOUD – USE CASE STUDY

Title of Contract	Seamless Communication for Crisis Management
Acronym	SECRICOM
Contract Number	FP7-SEC-218123
Start date of the project	1 st September 2008
Duration	44 months, until 30 th April 2012
Date of preparation	30 th November 2009
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Colour code

The following slides set out in a numbered flow chart arrangement describe in basic terms the hierarchical steps involved in responding to the selected project major crisis – chemical fire & noxious cloud

Blue boxes represent strategic intentions

Yellow boxes represent decision making

Green boxes represent situation awareness activity

Red boxes represent command and control related activity

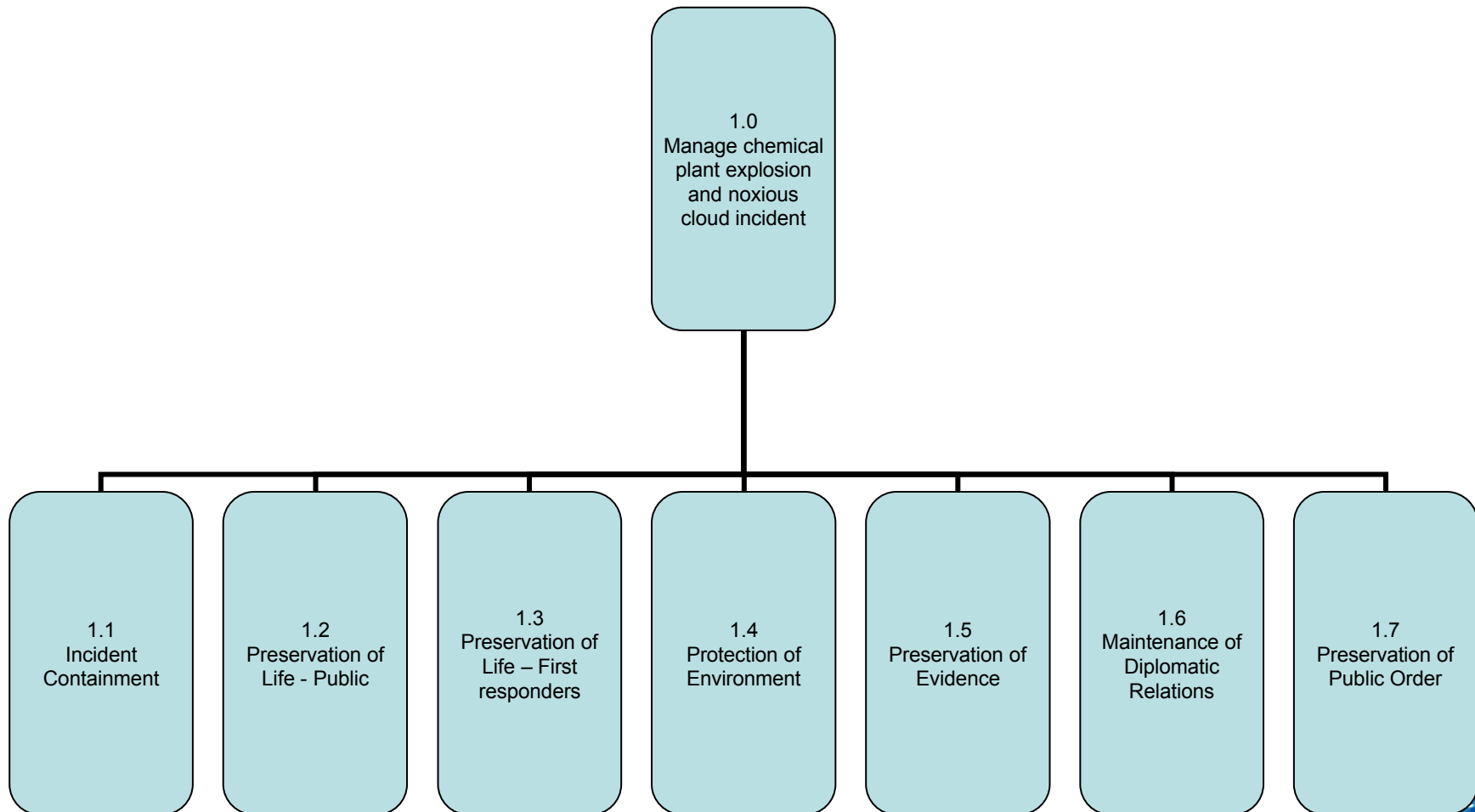
Chemical Plant Noxious Smoke Cloud

- **Serial 11 Chemical Plant Noxious Smoke Cloud**
- **(Seamless communications between agencies and across borders, speed security reliability quality and auditable)**
- It is at this point information comes to light through rumours at working level that the chemical plant illegally had on its premises large quantities of unlicensed and dangerous chemicals and that it had failed to remove them from the plant in time; shortly after there is a large explosion at the plant and a massive plume of smoke is seen originating from the chemical plant.
- This smoke plume forms into a large toxic gas cloud and with the northerly wind starts to spread the plume over into country B. Chemical plant management own up about the illegally stored chemicals. Expert advice on the chemicals held at the plant suggests this toxic gas cloud will be harmful to people with the elderly and the young at greatest risk - possibly fatal. The plume is monitored by Country A's helicopter with live video feed to ground based control rooms
- Some of the dead and injured are displaying particular types of body burns indicative of being in the vicinity of the chemical plant and in particular the toxic gas cloud; health agency advice is needed before rescuers and body recovery teams can deal with them on both sides of the international border.

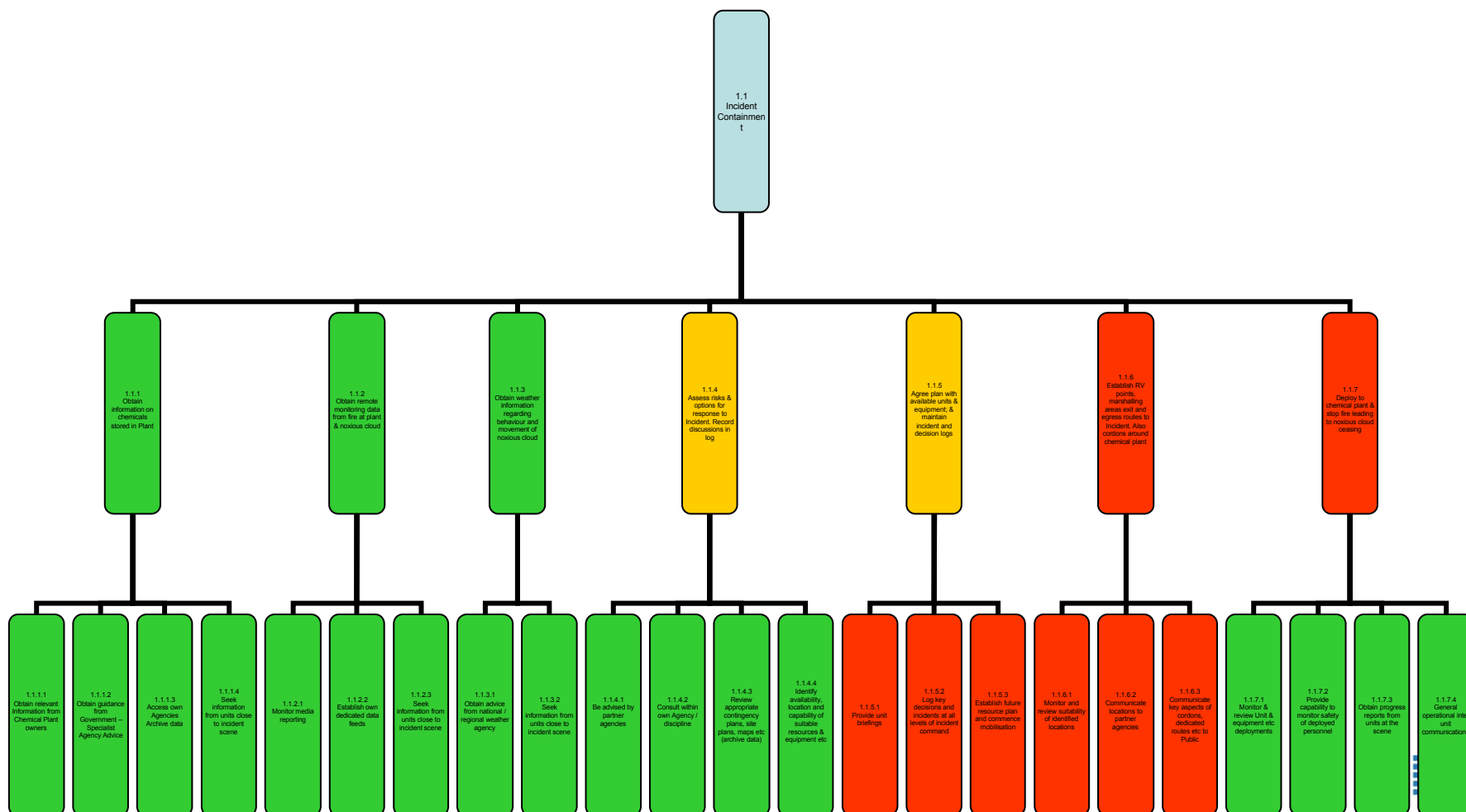
The following key activities are agreed at the multi-agency strategic co-ordination level

- Containment of this particular incident
- Preservation of Life – members of the public
- Preservation of Life – first responders involved in incident
- Protection of Environment
- Preservation of Evidence for subsequent enquiry/prosecution
- Maintenance of good diplomatic relations with neighbouring country
- Preservation of public order

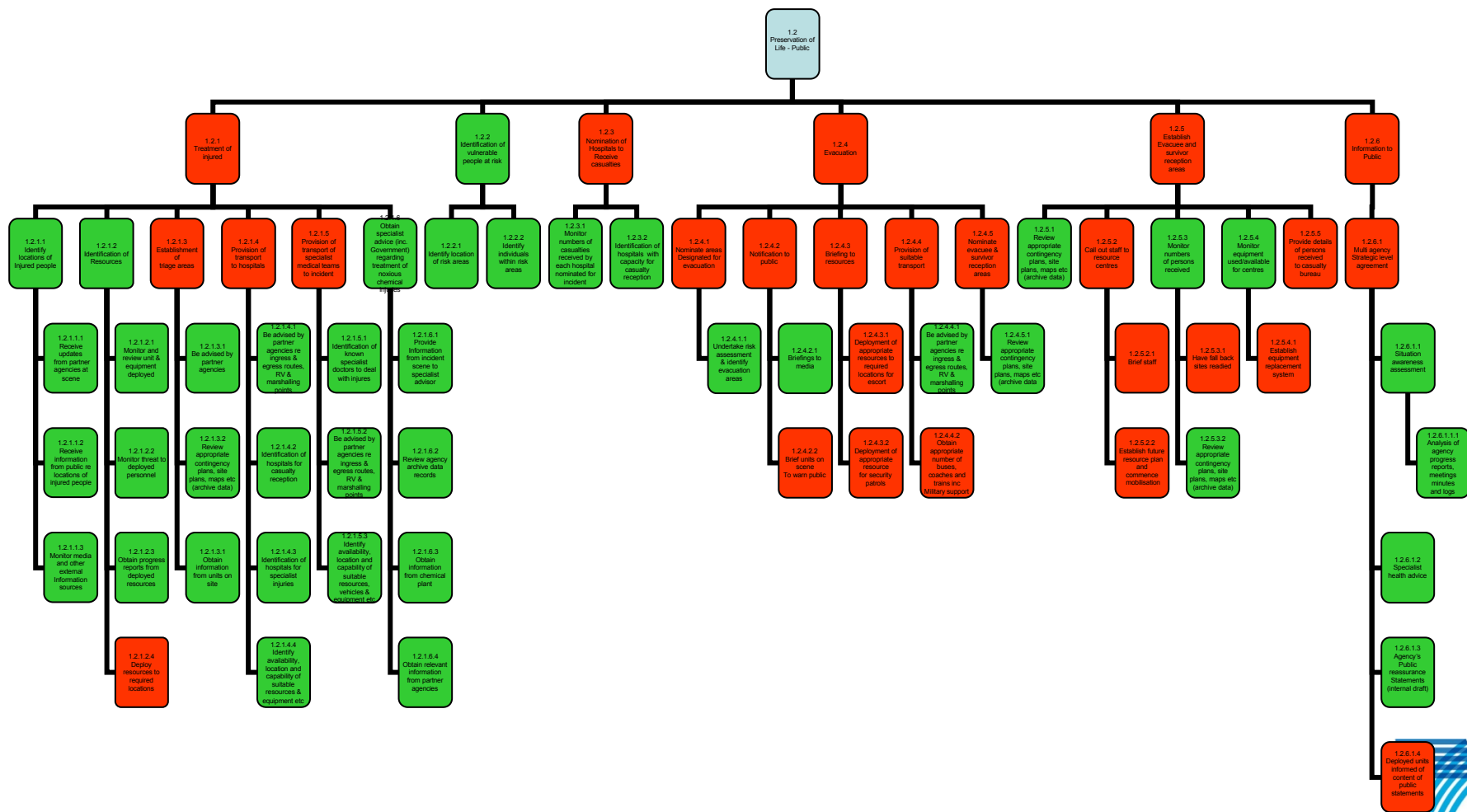
Strategic Intentions



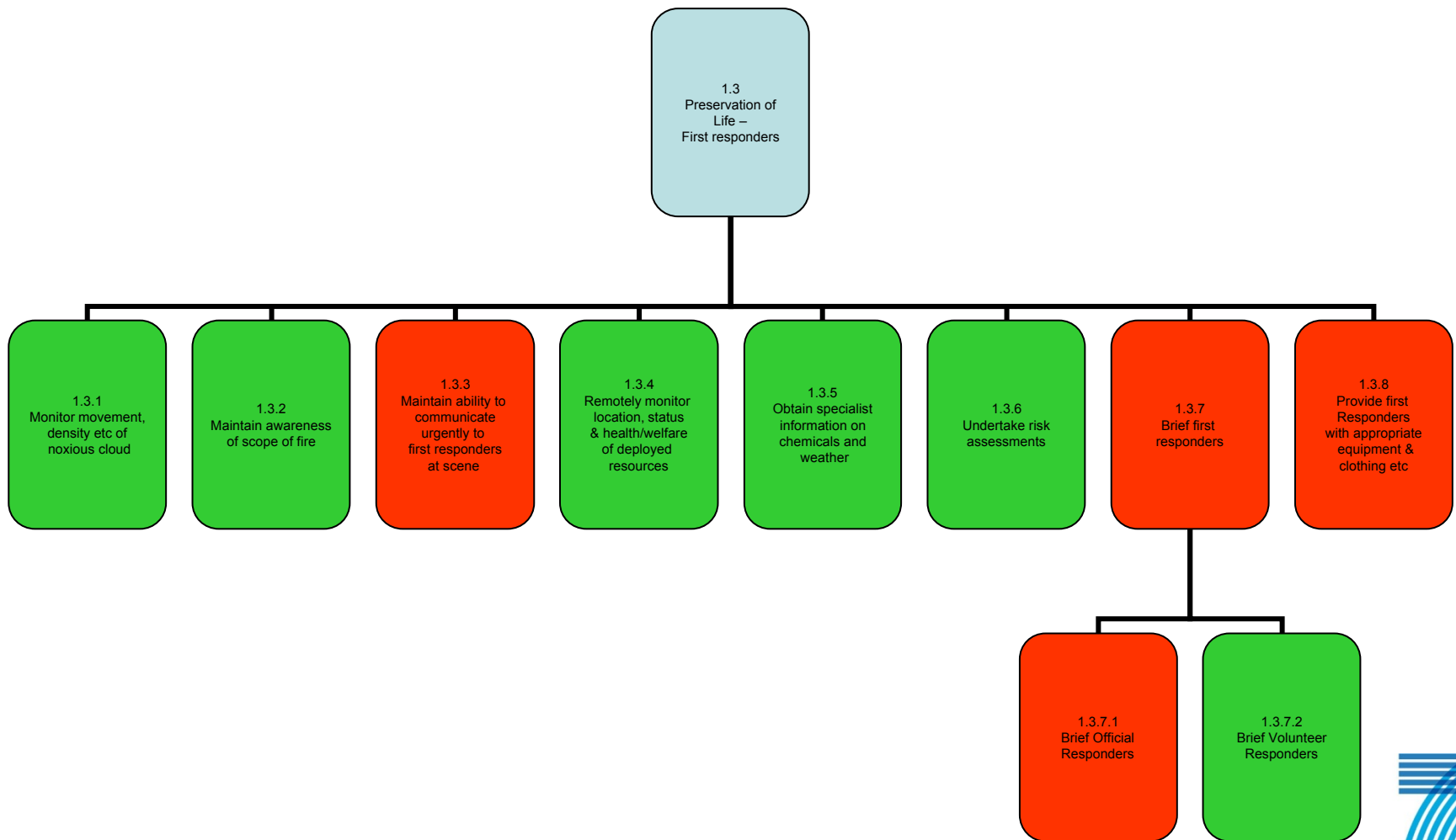
Incident containment



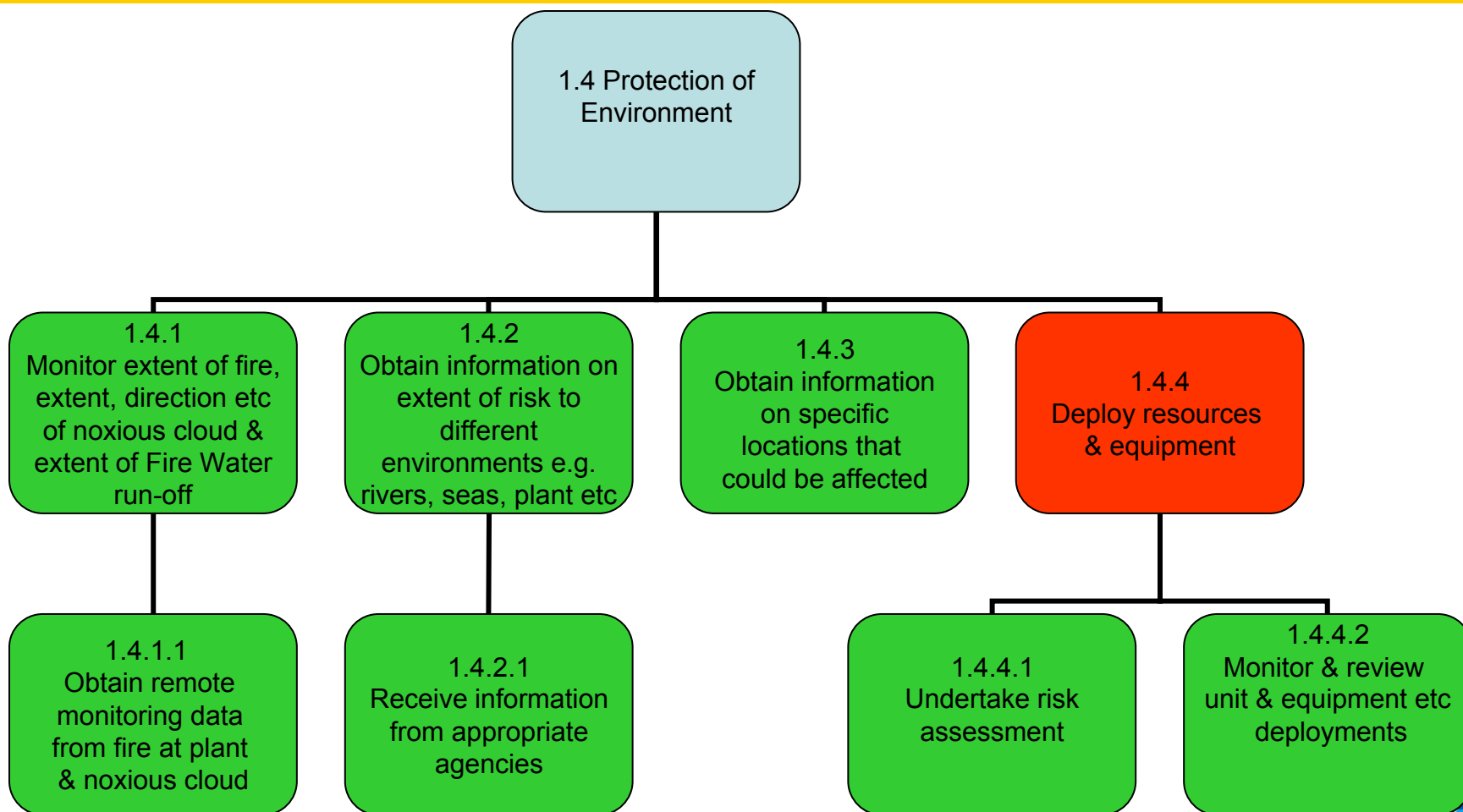
Preservation of Life - Public



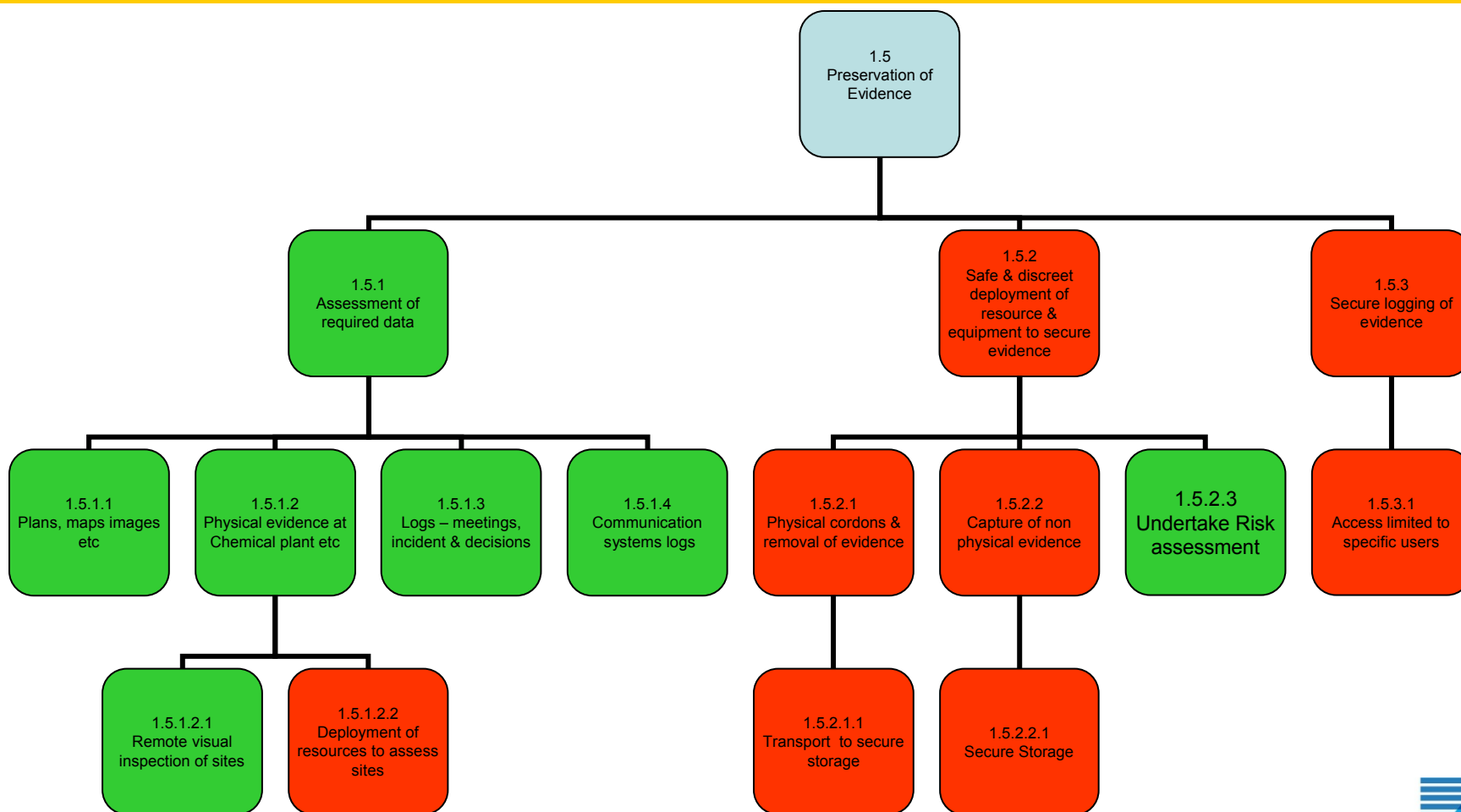
Preservation of Life – First Responders



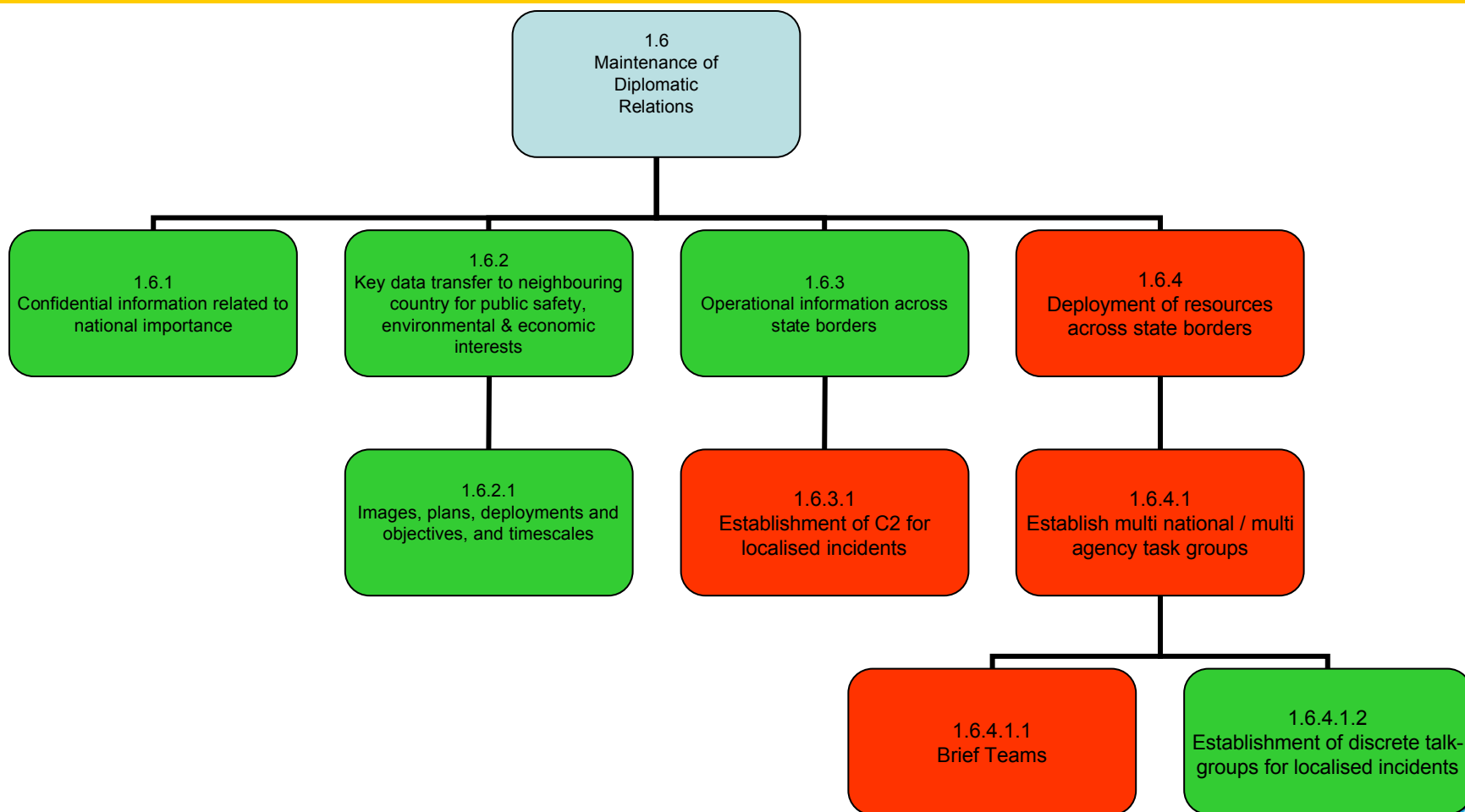
Protection of Environment



Preservation of Evidence



Maintenance of Diplomatic Relations



Preservation of Public Order

