



J E S I P

Working Together – Saving Lives

A UK view of Interoperable working

Brian Welsh

JESIP – Senior User (UK Fire & Rescue)



A reminder of our role.....

- Keeping our communities safe
- Preparing for and responding to emergencies
- “Working together – saving lives”





The Challenges

• Over 100 organisations impacted

• Recognition of scale of change to culture, attitudes and behaviour

• Differing Governance structures and funding arrangements makes delivery model complex

• Reducing budgets and impact on local capacity and priorities

• Timescales

JESIP – Working Together Saving Lives

Police = 43 +
CNC, BTP, MDP

Fire = 46

Ambulance = 11

LRF = 42

Civil Nuclear Constabulary



- The Civil Nuclear Constabulary is a special police force responsible for providing law enforcement and security at or within 5 km of any relevant nuclear site and for nuclear materials in transit within the United Kingdom
- Operate out of 10 civil nuclear sites across England, Scotland and Wales
- Operation Tempered
 - The plan provides for up to 5,100 service personnel from all 3 services to be deployed to "augment armed police officers engaged in protective security duties" at key sites in the United Kingdom

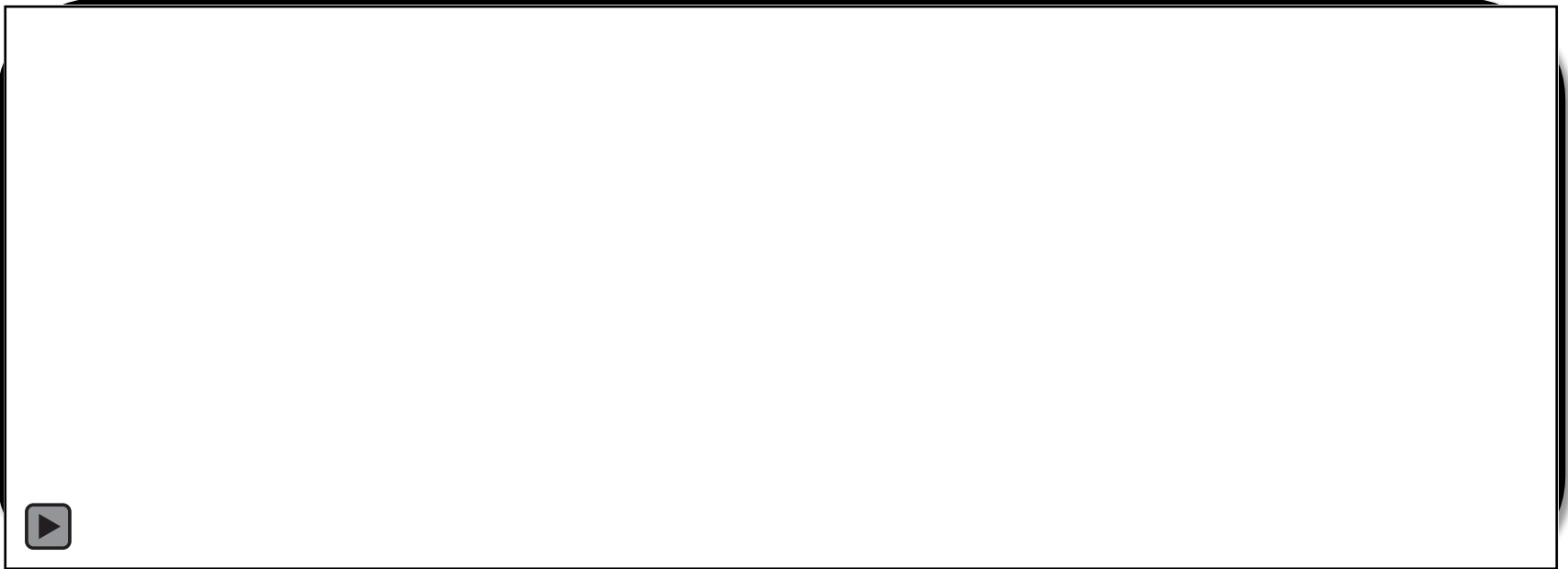


Interoperability

- Easy to describe, but difficult to achieve
- There is **NO ONE** technical solution
- Human, organisational and technical factors **ALL** interact to build interoperability
- The primary objective is efficient and effective **JOINT** operations
- Using **ANY** common system matters more than what system is used
- Most issues hindering interoperability are simple, but with significant implications!



Interoperability: *the extent to which organisations can work together coherently as a matter of routine.*



But...

Different roles

Different capabilities

Different terminology

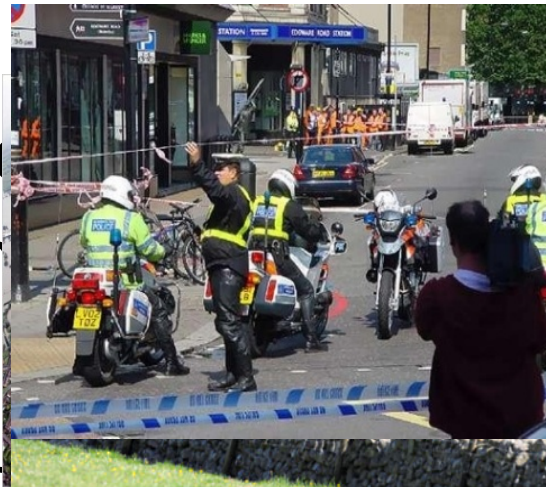
Different appearance

Single Service Doctrine



So Why JESIP?

- Lack of Joint understanding or joint situational awareness
plain English and common understood terminology used...



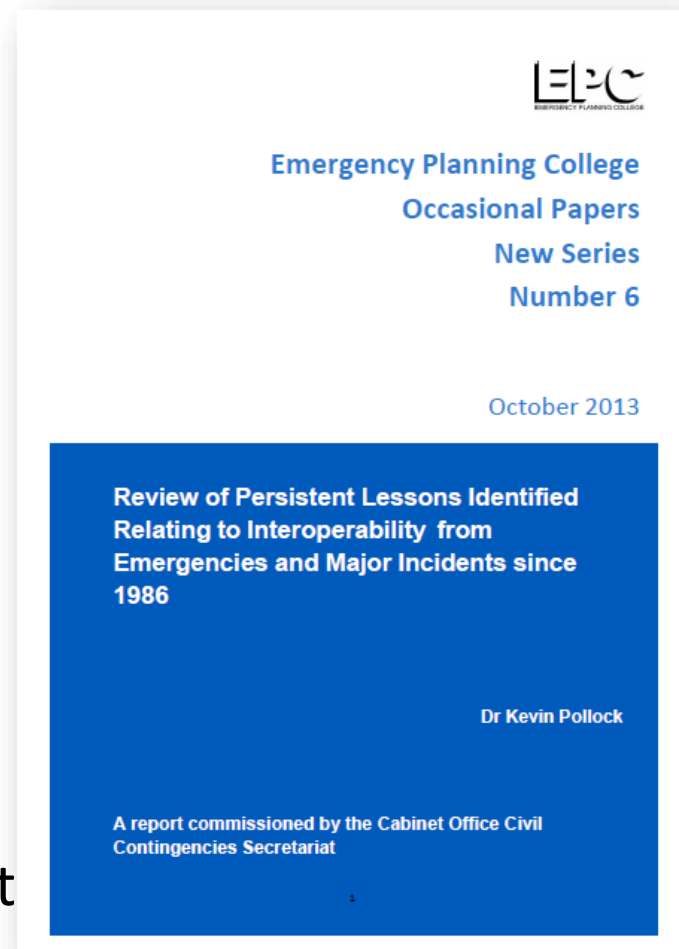
2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-2649-2650-2651-2652-2653-2654-2655-2656-2657-2658-2659-2660-2661-2662-2663-2664-2665-2666-2667-2668-2669-2670-2671-2672-2673-2674-2675-2676-2677-2678-2679-2680-2681-2682-2683-2684-2685-2686-2687-2688-2689-2690-2691-2692-2693-2694-2695-2696-2697-2698-2699-2700-2701-2702-2703-2704-2705-2706-2707-2708-2709-2710-2711-2712-2713-2714-2715-2716-2717-2718-2719-2720-2721-2722-2723-2724-2725-2726-2727-2728-2729-2730-2731-2732-2733-2734-2735-2736-2737-2738-2739-2740-2741-2742-2743-2744-2745-2746-2747-2748-2749-2750-2751-2752-2753-2754-2755-2756-2757-2758-2759-2760-2761-2762-2763-2764-2765-2766-2767-2768-2769-2770-2771-2772-2773-2774-2775-2776-2777-2778-2779-2780-2781-2782-2783-2784-2785-2786-2787-2788-2789-2790-2791-2792-2793-2794-2795-2796-2797-2798-2799-2800-2801-2802-2803-2804-2805-2806-2807-2808-2809-2810-2811-2812-2813-2814-2815-2816-2817-2818-2819-2820-2821-2822-2823-2824-2825-2826-2827-2828-2829-2830-2831-2832-2833-2834-2835-2836-2837-2838-2839-2840-2841-2842-2843-2844-2845-2846-2847-2848-2849-2850-2851-2852-2853-2854-2855-2856-2857-2858-2859-2860-2861-2862-2863-2864-2865-2866-2867-2868-2869-2870-2871-2872-2873-2874-2875-2876-2877-2878-2879-2880-2881-2882-2883-2884-2885-2886-2887-2888-2889-2890-2891-2892-2893-2894-2895-2896-2897-2898-2899-2900-2901-2902-2903-2904-2905-2906-2907-2908-2909-2910-2911-2912-2913-2914-2915-2916-2917-2918-2919-2920-2921-2922-2923-2924-2925-2926-2927-2928-2929-2930-2931-2932-2933-2934-2935-2936-2937-2938-2939-2940-2941-2942-2943-2944-2945-2946-2947-2948-2949-2950-2951-2952-2953-2954-2955-2956-2957-2958-2959-2960-2961-2962-2963-2964-2965-2966-2967-2968-2969-2970-2971-2972-2973-2974-2975-2976-2977-2978-2979-2980-2981-2982-2983-2984-2985-2986-2987-2988-2989-2990-2991-2992-2993-2994-2995-2996-2997-2998-2999-3000

- Lack of joint decision making
- Communications failings, no co-location of commanders



Persistent Challenges Over Time

- Commanders can't find each other
- Responders can't understand each other – reluctance to constructively challenge
- Risks are not properly understood or shared
- Information is not shared in a way that is understood or not shared at all
- Joint training is inadequate, lessons not learnt and no audit process

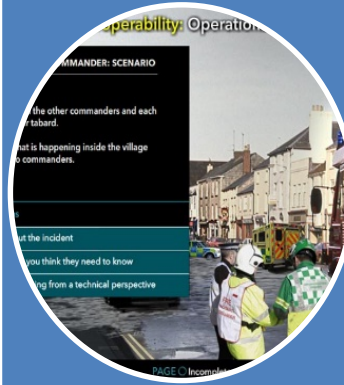




Our Approach



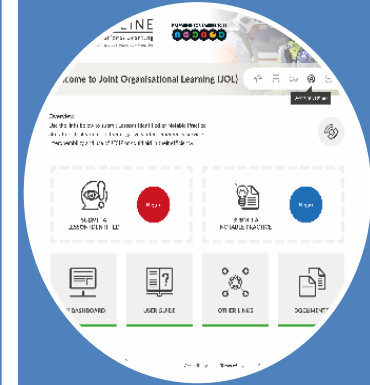
Doctrine



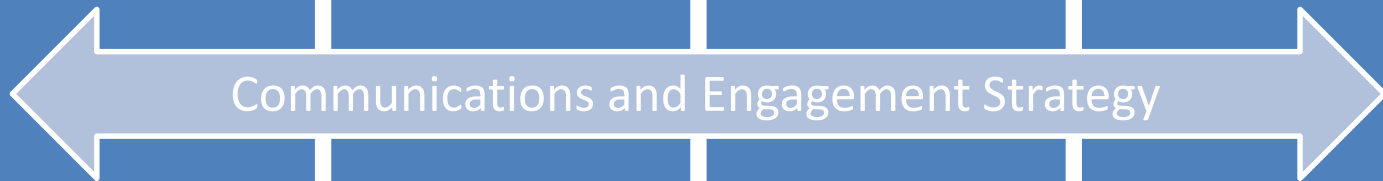
Training



Testing and Exercise



Joint Organisational Learning



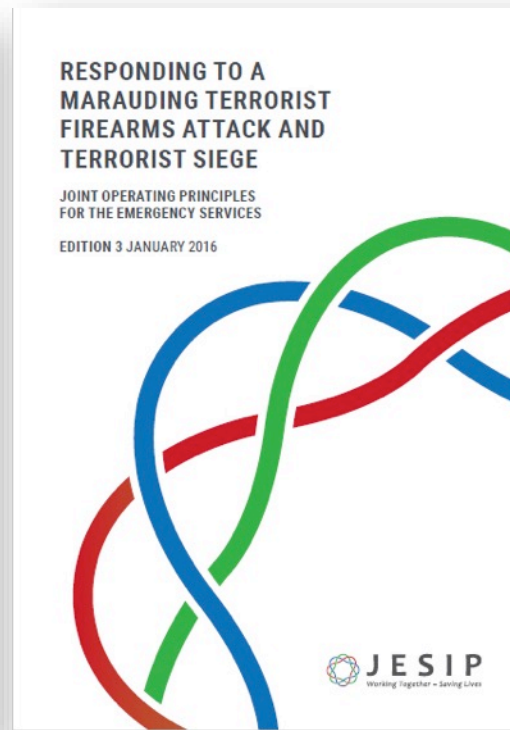
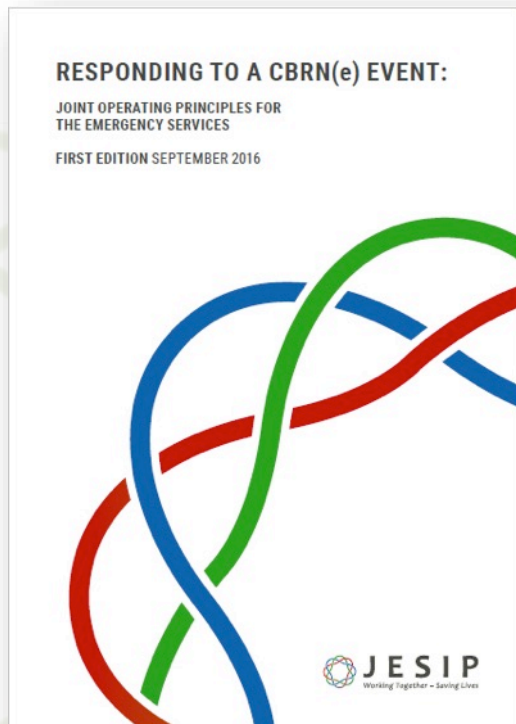
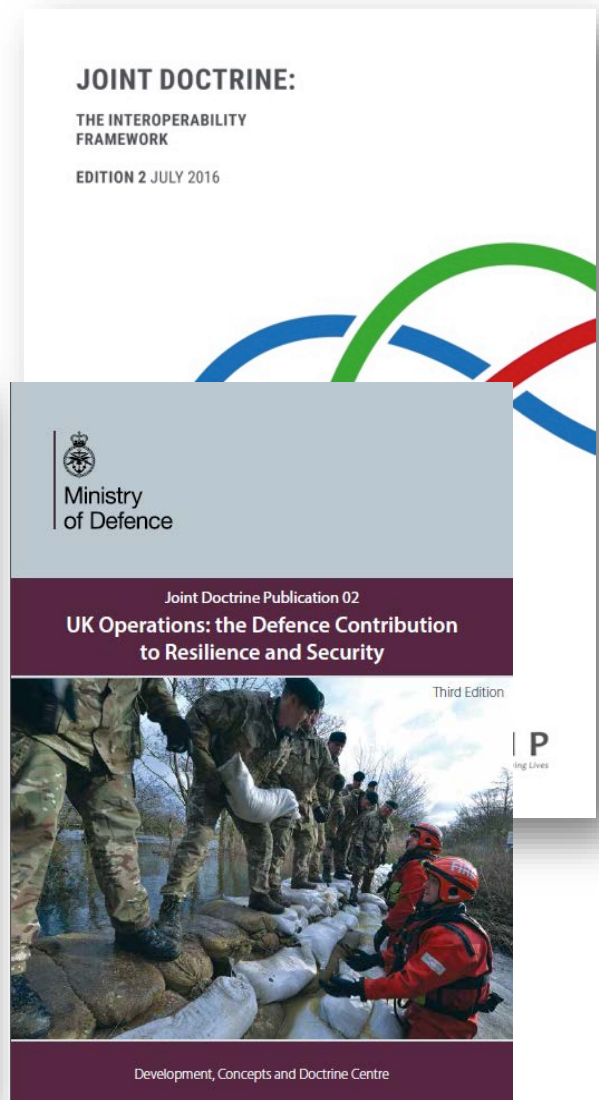
Communications and Engagement Strategy



Joint Doctrine – The Interoperability

Framework

- ✓ Joint Doctrine – the foundation of Interoperable working
- ✓ Alignment of Specialist Doctrine with JESIP



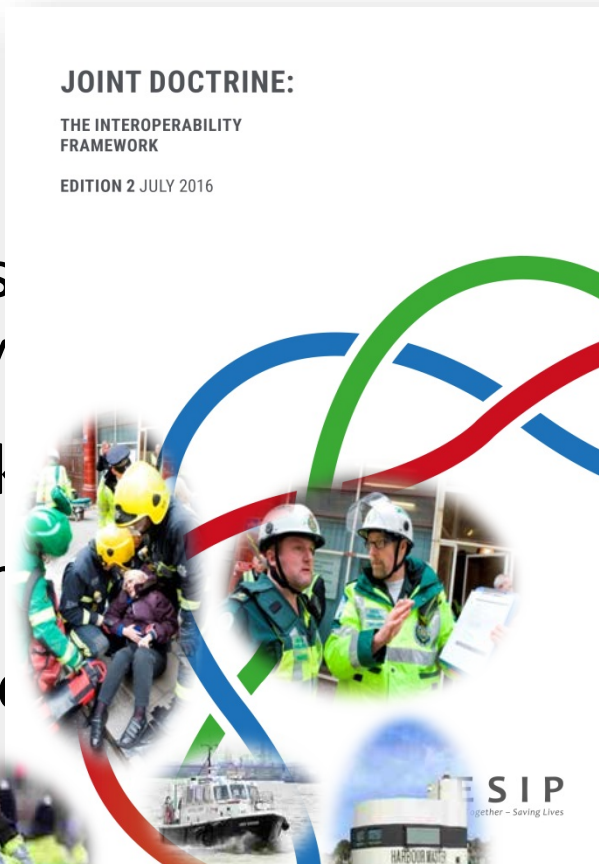


Joint Doctrine – The Interoperability Framework

- Edition 2 released in August 2016

Key changes:

- Aimed at all responses including the M
- Built around 5 key
- Model for Shared Awareness

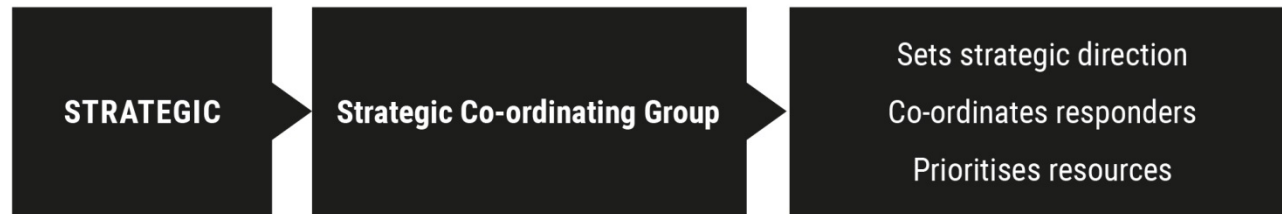


Standard tool



Military

- Does not cover in detail requesting assistance
- Command Levels
- Con



OPERATIONAL

TACTICAL





Joint Doctrine....the basics

Co-locate

Co-locate with commanders as soon as practicably possible at a single, safe and easily identified location near to the scene.

Communicate

Communicate clearly using plain English.

Co-ordinate

Co-ordinate by agreeing the lead service. Identify priorities, resources and capabilities for an effective response, including the timing of further meetings.

Jointly understand risk

Jointly understand risk by sharing information about the likelihood and potential impact of threats and hazards to agree potential control measures.

Shared situational awareness

Shared Situational Awareness established by using METHANE and the Joint Decision Model.

M	MAJOR INCIDENT	Has a major incident or standby been declared? (Yes / No - if no, then complete ETHANE message)	Include the date and time of any declaration.
E	EXACT LOCATION	What is the exact location or geographical area of the incident?	Be as precise as possible, using a system that will be understood by all responders.
T	TYPE OF INCIDENT	What kind of incident is it?	For example, flooding, fire, utility failure or disease outbreak.
H	HAZARDS	What hazards or potential hazards can be identified?	Consider the likelihood of a hazard and the potential severity of any impact.
A	ACCESS	What are the best routes for access and egress?	Include information on inaccessible routes and rendezvous points (RVPs). Remember that services need to be able to leave the scene as well as access it.
N	NUMBER OF CASUALTIES	How many casualties are there, and what condition are they in?	Use an agreed classification system such as 'P1', 'P2', 'P3' and 'dead'.
E	EMERGENCY SERVICES	Which, and how many, emergency responder assets and personnel are required or are already on-scene?	Consider whether the assets of wider emergency responders, such as local authorities or the voluntary sector, may be required.





Principles for Joint Working

Co-locate

Co-locate with commanders as soon as practicably possible at a single, safe and easily identified location near to the scene.

Communicate

Communicate clearly using plain English.

Co-ordinate

Co-ordinate by agreeing the lead service. Identify priorities, resources and capabilities for an effective response, including the timing of further meetings.

Jointly understand risk

Jointly understand risk by sharing information about the likelihood and potential impact of threats and hazards to agree potential control measures.

Shared situational awareness

Shared Situational Awareness established by using METHANE and the Joint Decision Model.



This is not a hierarchy....

Co-locate

Co-locate with commanders as soon as practicably possible at a single, safe and easily identified location near to the scene.

Communicate

Communicate clearly using plain English.

Co-ordinate

Co-ordinate by agreeing the lead service. Identify priorities, resources and capabilities for an effective response, including the timing of further meetings.

Jointly understand risk

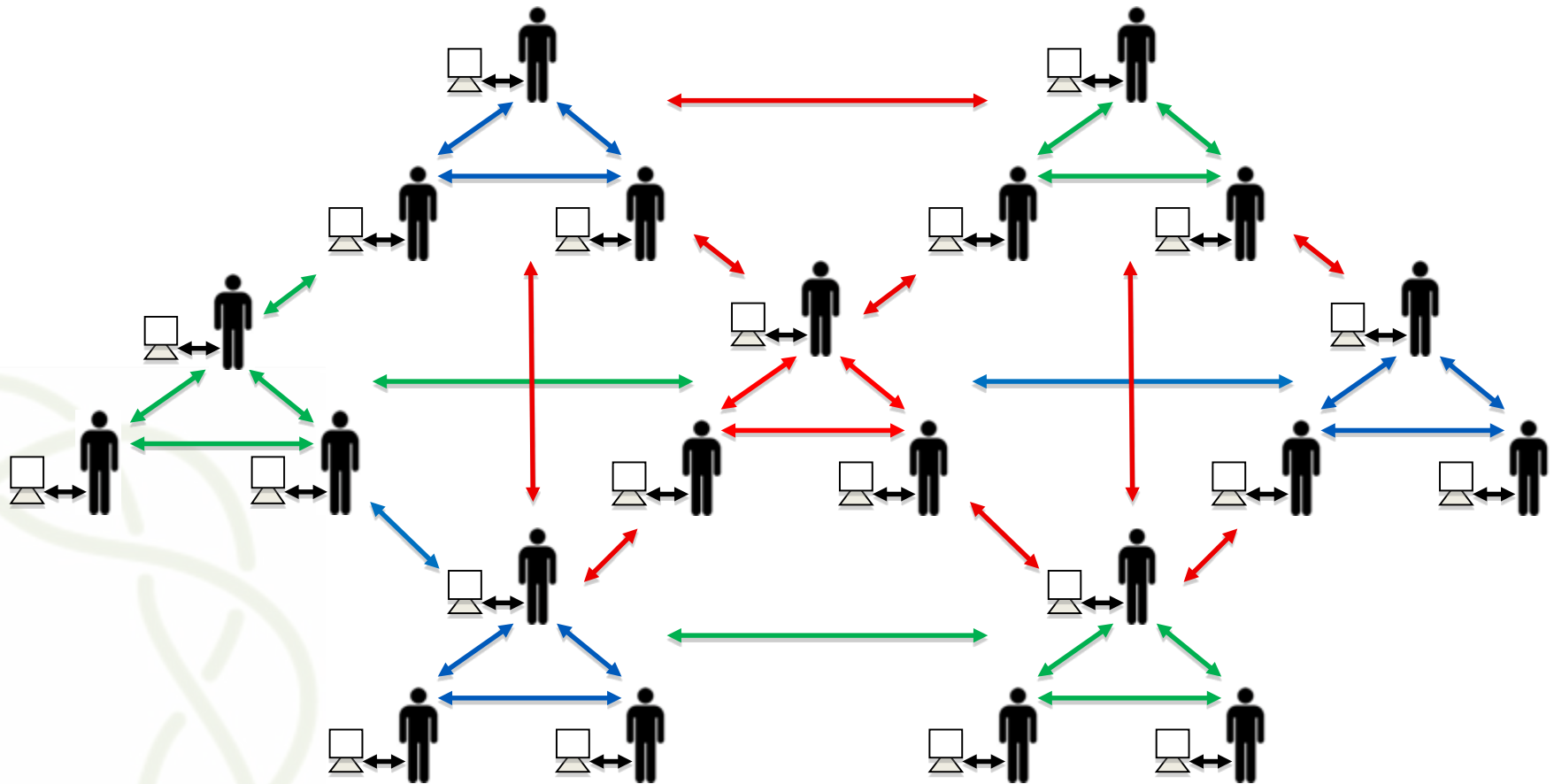
Jointly understand risk by sharing information about the likelihood and potential impact of threats and hazards to agree potential control measures.

Shared situational awareness

Shared Situational Awareness established by using METHANE and the Joint Decision Model.



Shared Situational Awareness: Teams of Teams



Training, Testing and Exercise



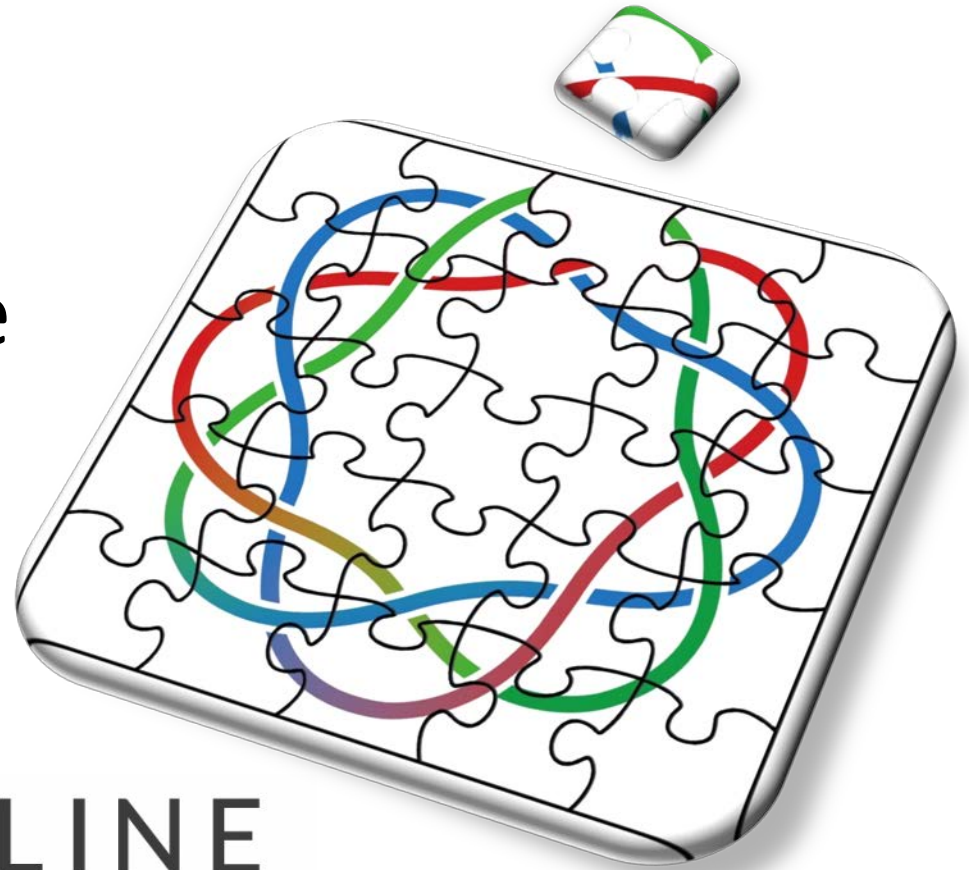
- ✓ Joint training and awareness packages for Commanders and responders
- ✓ Joint exercise programme, including MACA
- ✓ Ongoing assurance programme to test JESIP
- ✓ National JESIP objectives for testing and exercising
- ✓ Interoperability resilience standards





Joint Organisational Learning (JOL)

Final but
fundamental piece
of the JESIP puzzle



JOL ONLINE

Joint Organisational Learning

Learning together for safer, stronger communities



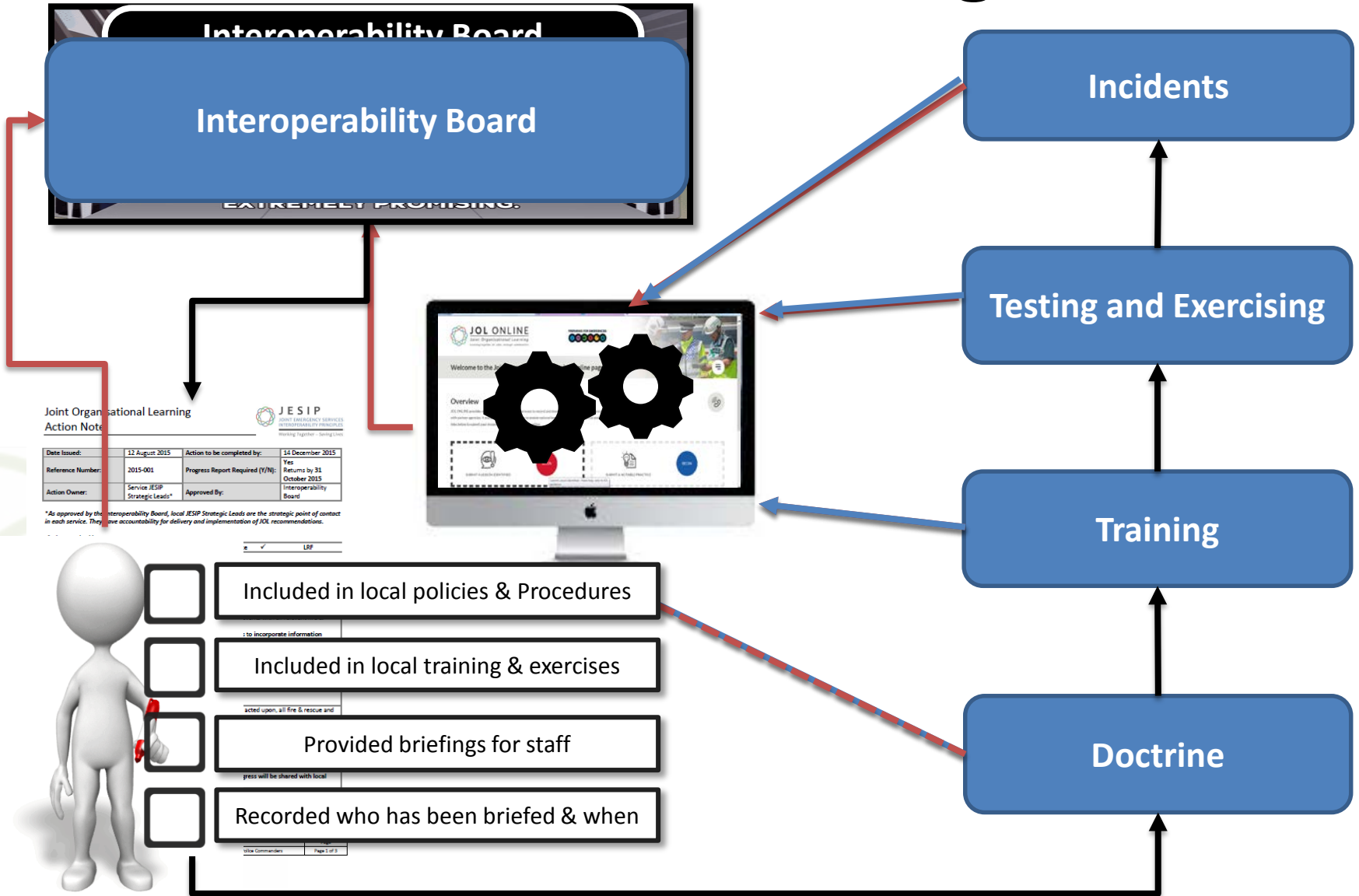
Why Joint Organisational Learning

The Civil Contingencies Act 2004 supported by statutory and non statutory guidance places requirements, through Local Resilience Forums that Category 1 responders must collectively:

- *Learn and implement lessons from exercises*
- *Share lessons learned from emergencies and exercises in other parts of the UK*
- *Make sure that those lessons are acted on to improve local arrangements...*



Areas of Learning



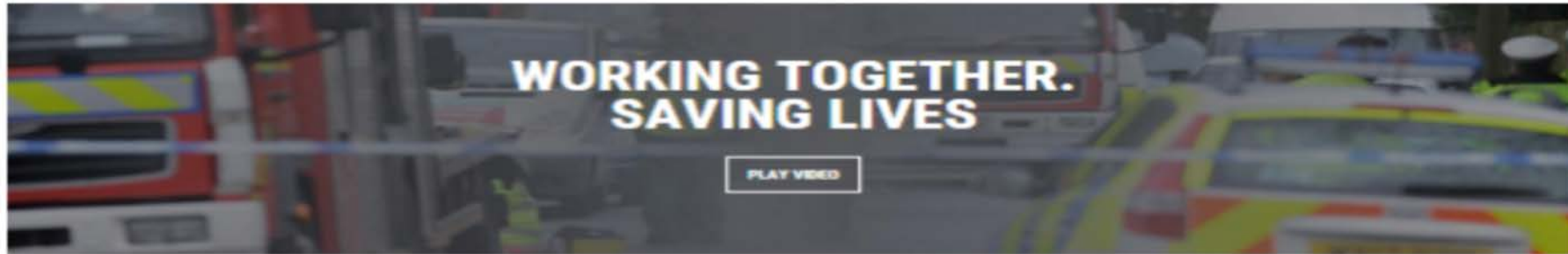


Assurance Programme

- Visits took place between January and August 2017
- Based on services self-assessment questionnaire return
- 101 visits in total
- Included interviews with Strategic leads and multi disciplinary focus groups
- Over 700 people interviewed
- Final report available on the JESIP website



Support tools



WHAT IS JESIP?



The Joint Emergency Services Interoperability Programme (JESIP) was established in 2012 to address the recommendations and findings from a number of major incident reports...

EXPLORE

PRINCIPLES FOR JOINT WORKING

Commanders arriving at the scene take too long or don't make contact with commanders from the others services. This leads to poor information sharing, lack of communication and no joint understanding of the unfolding emergency.

LEARN MORE

JOINT DECISION MODEL

SHARED SITUATIONAL AWARENESS

KEEP UP TO DATE



NEWS



EVENTS



SOCIAL

LATEST NEWS

JESIP NEWS - EDITION 12 NOW AVAILABLE

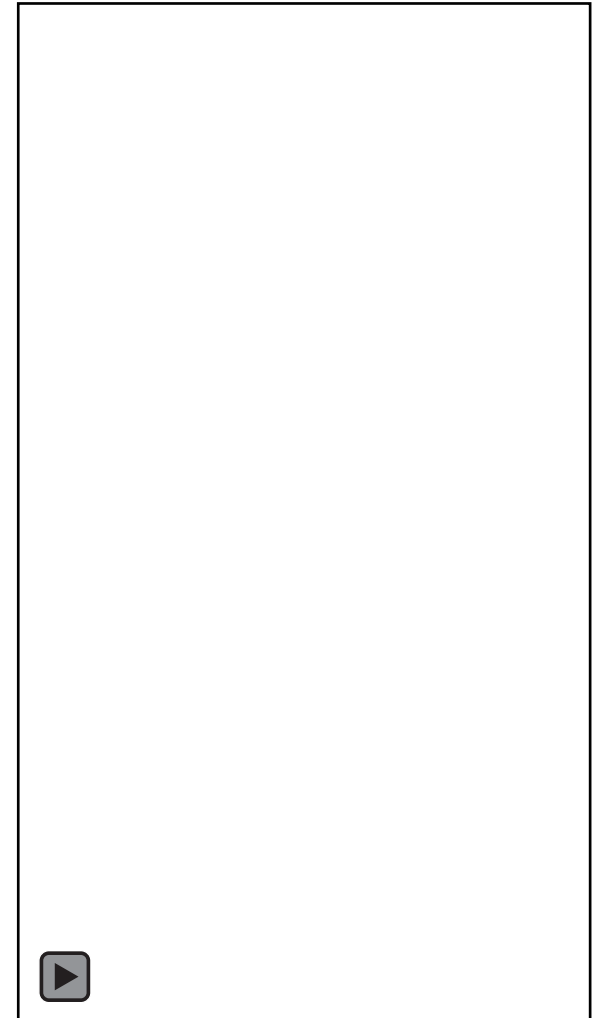
JESIP NEWS - EDITION 11 NOW AVAILABLE

JESIP LAUNCHES JOINT ORGANISATIONAL LEARNING (JOL)



JESIP App

- Over 55000 downloads
- Available across iOS, Android & Windows
- Looking to include on future ESN Handsets
- Includes MTFA and IOR





Recommendations for National Emergency Response Arrangements



The Kerslake Report:

An independent review into the preparedness for, and emergency response to, the Manchester Arena attack on 22nd May 2017



- UK civil protection to embed the JESIP Interoperability Framework
- Where responders applied JESIP Principles, pragmatic solutions were developed.
- Where circumstances blocked such collaboration the response of the affected organisation was paralysed for a crucial period



House of Commons debate for Kerslake Review

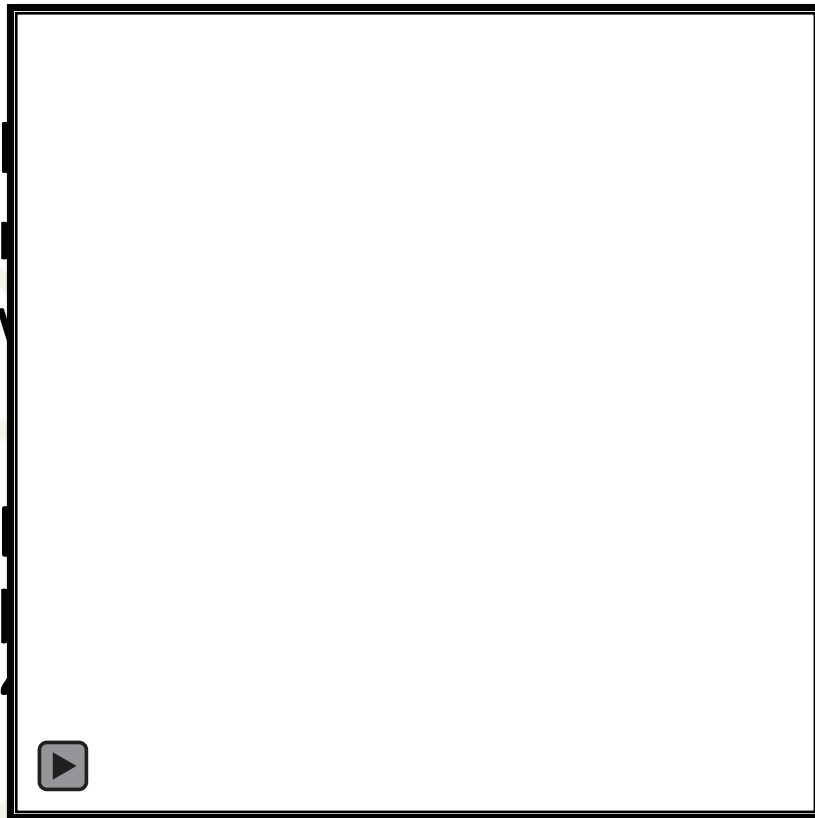


- Ongoing Govt support for JESIP
- Principles should become embedded into business as usual activities including planning and response
- Must learn lessons from such incidents
- We don't always know "what it is"
- Wicked but joint decisions have to be made – (JDM)
- No consistent attack methodology
- Emergency services as a whole delivered an effective response



It has to be a team effort..

- JESIP is not about being perfect, just better.



s,

m'





JESIP

Working Together – Saving Lives

Thank You

www.jesip.org.uk

contact@jesip.org.uk

 [@jesip999](https://twitter.com/jesip999)