

Chemical, Biological, Radiological, and Nuclear (CBRN) and Medical Communities of Interest (COI) Information Sharing

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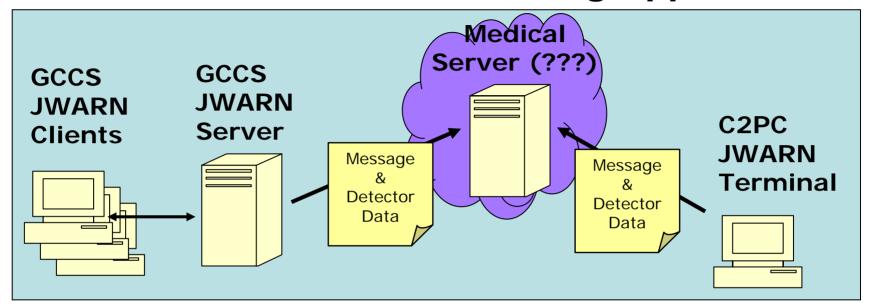
CBRN COI ⇔ Medical COI Data Sharing (Why a Pilot?)

- CBRN COI to Medical COI data sharing supersedes the requirement for multiple point to point interfaces among the many separate medical and CBRN systems. Opens way for additional COI data sharing.
- No CONOPS exist for CBRN

 Medical data sharing, developing notional Use Cases to facilitate CONOPS development, and promote net-centric services (DoD Net Centric Data Strategy & Web Services)
- CBRN Medical Pilot proposal suggests partnering with MSAT ACTD to enhance connectivity of both the Medical and CBRN COIs to interface/interoperate.
- The MSAT ACTD and CBRN PORs would both benefit from data sharing...
 - Pilot promotes CBRN Information Systems (IS) programs of record to:
 - pull medical data to generate CBRN course of action
 - pull medical data to CBRN to conduct crisis and deliberate planning
 - receive medical alerts and display in the CBRN view
 - Pilot promotes MSAT ACTD to:
 - pull CBRN detector/sensor data for medical surveillance
 - pull CBRN hazard prediction data for medical crisis planning/action and analysis
 - push medical alerts to the CBRN view
 - identify medical server



Notional JWARN Data Sharing Approach

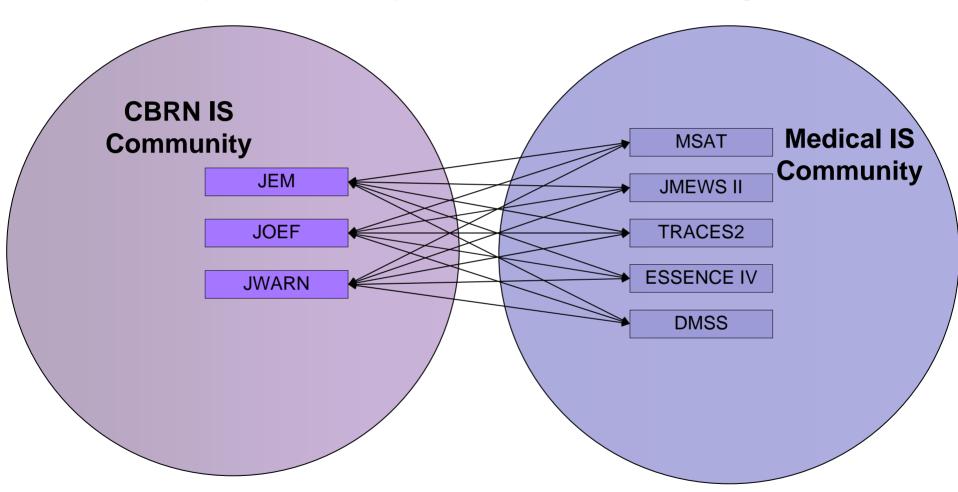


Current approach:

- Does not have an identified medical end-point / server
- Is not scalable and is a stove-piped "file-based" solution
- Does not provide an agreed upon Data Model / Schema for sharing of data between Medical, CBRN and other COIs
- Does not support real time data exchange "manually intensive"
- Does not meet DoD's direction for "net-centric" services

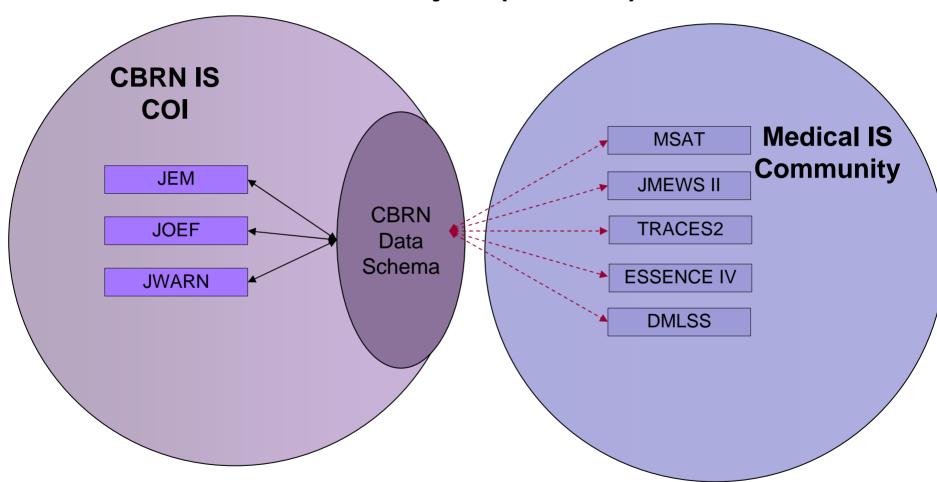


CBRN ⇔ Medical System to System Data Exchange



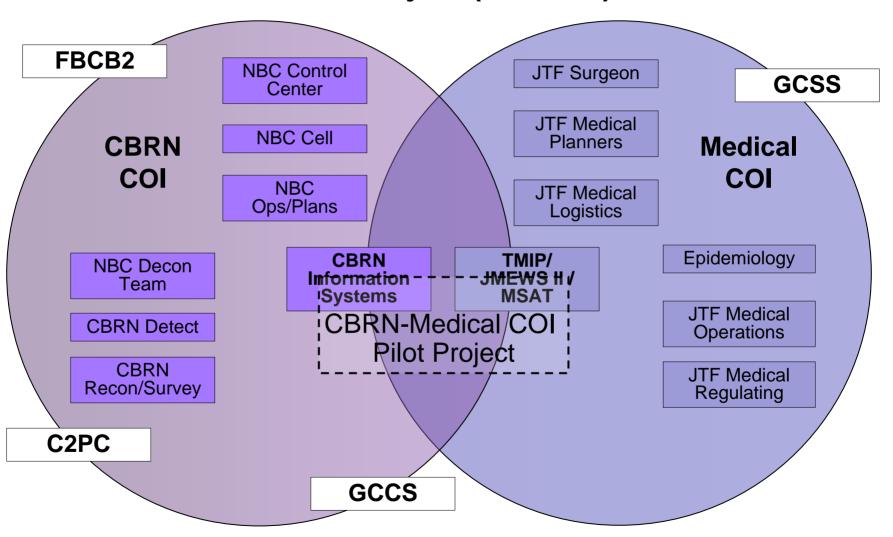


CBRN COI ⇔ Medical Notional Interfaces Pilot Project (Phase 1)



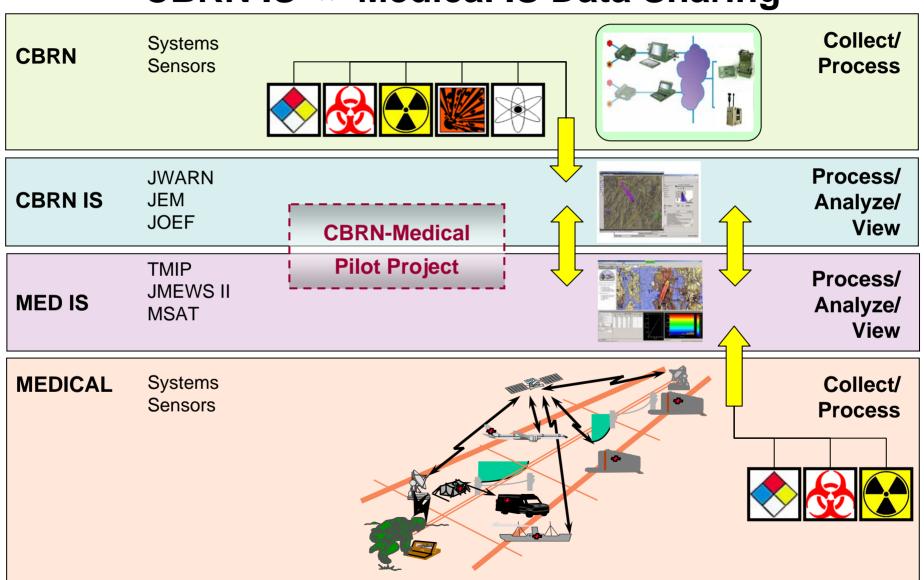


CBRN ⇔ Medical COI Data Sharing Pilot Project (Phase 2)





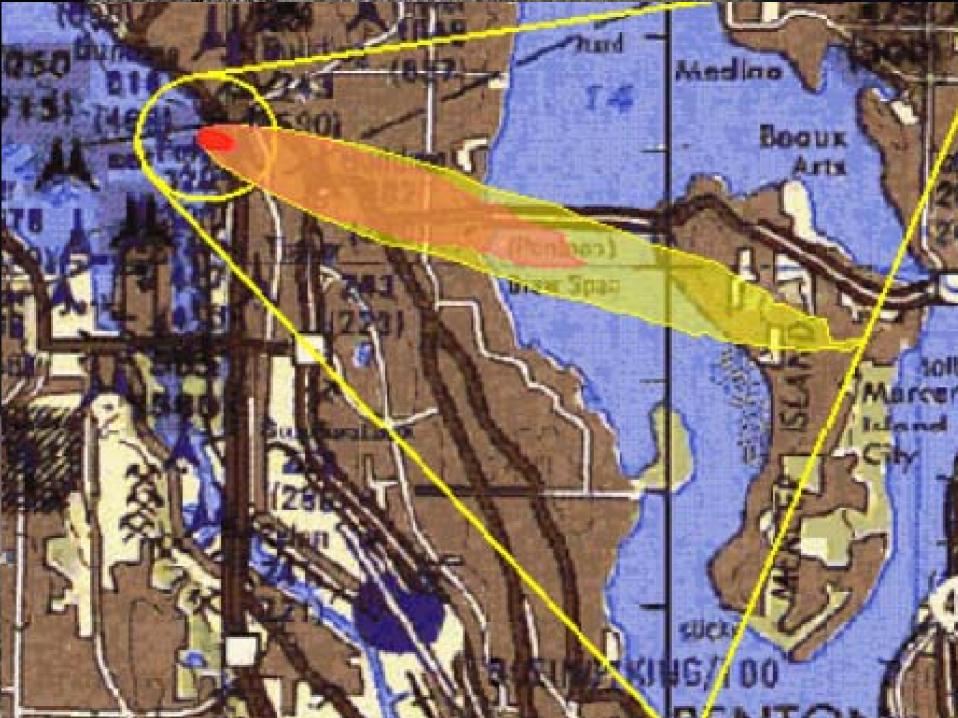
CBRN IS ⇔ **Medical IS Data Sharing**

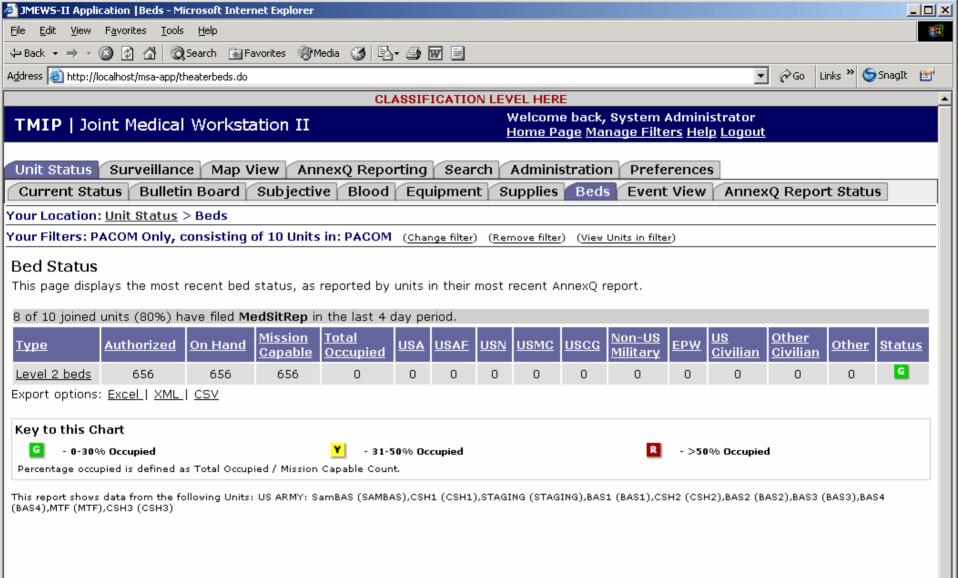




Sample Use Cases for Data Sharing

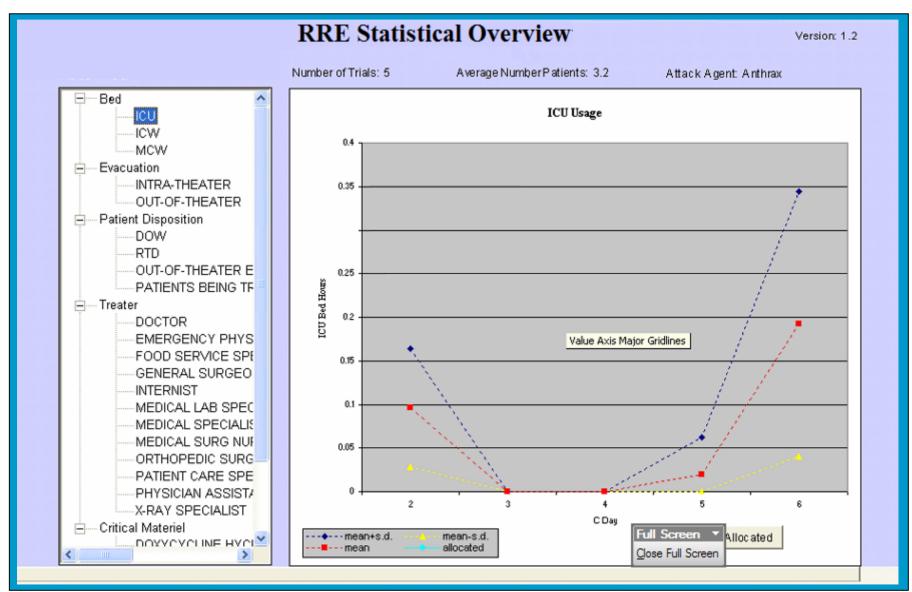
- - 1) Low Level/Long Term Exposure
- - 2) WMD Hazard Alert/Prediction
 - 3) Casualty Prediction
 - 4) Medical Logistics Requirements







Operational Planning - JOEF

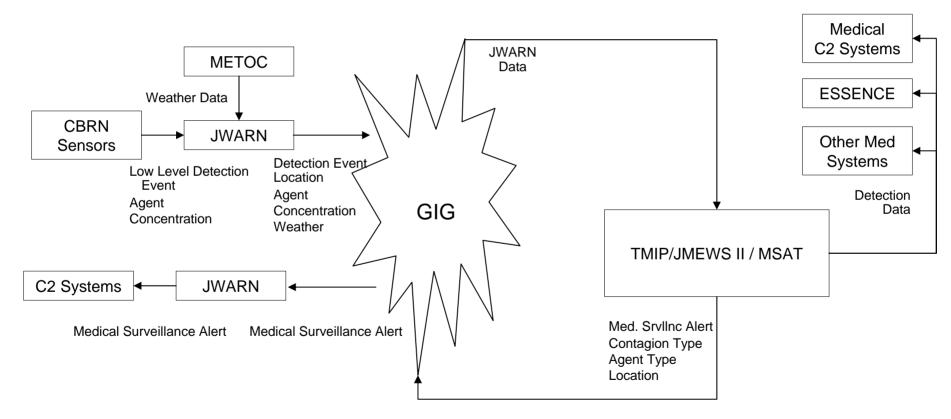




Medical Surveillance

1) Low Level/Long Term Exposure

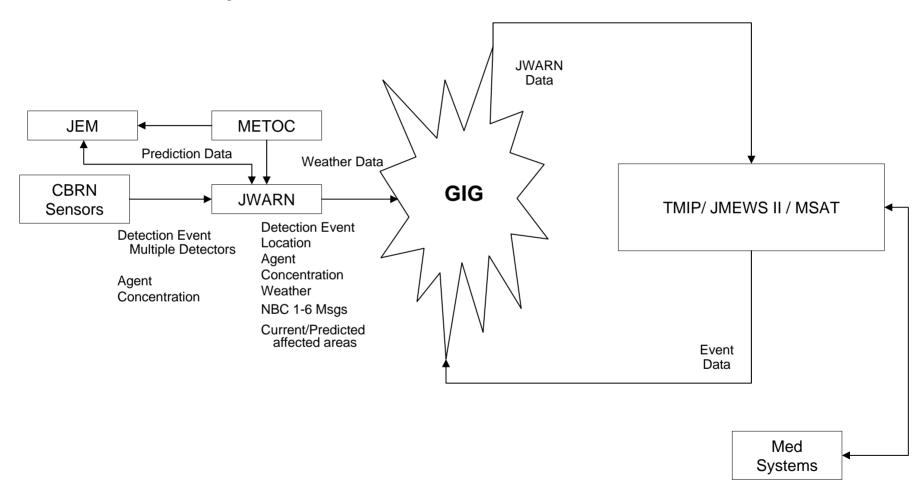
a) Raw detector data from CBRN sensors used by Medical Applications to accomplish long term surveillance.



b) Medical COI Alerts to CBRN COI of long term events/hazards

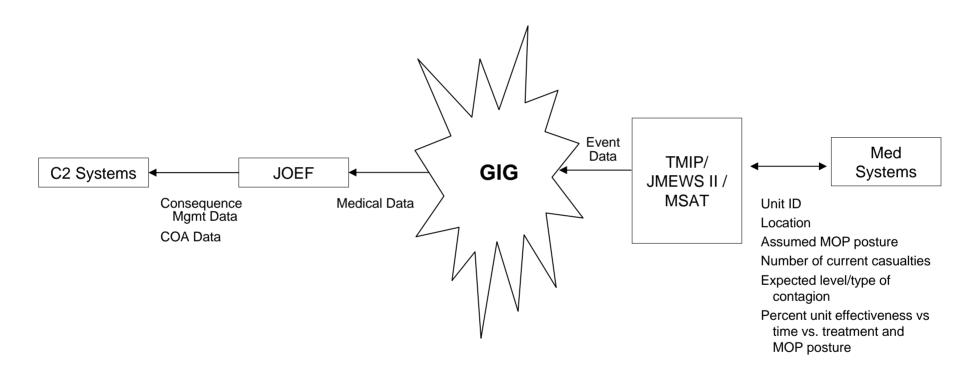


Crisis Planning/Action 2) WMD Hazard Alert/Prediction



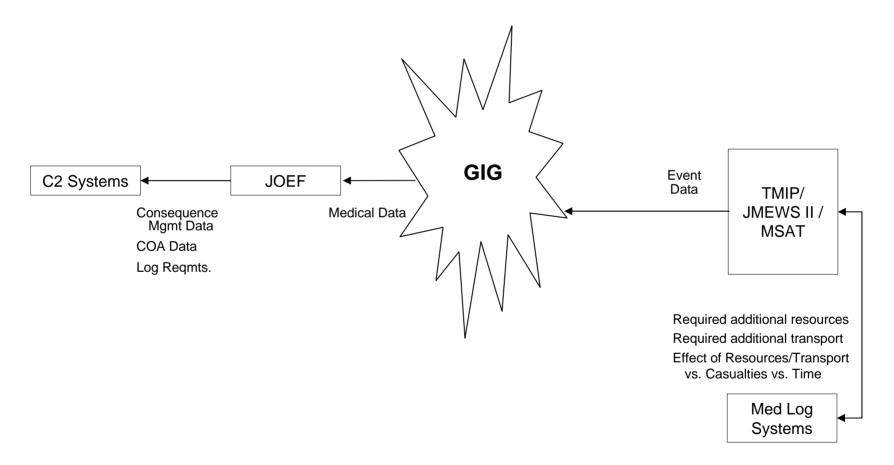


Crisis Planning/Action 3) Casualty Predictions



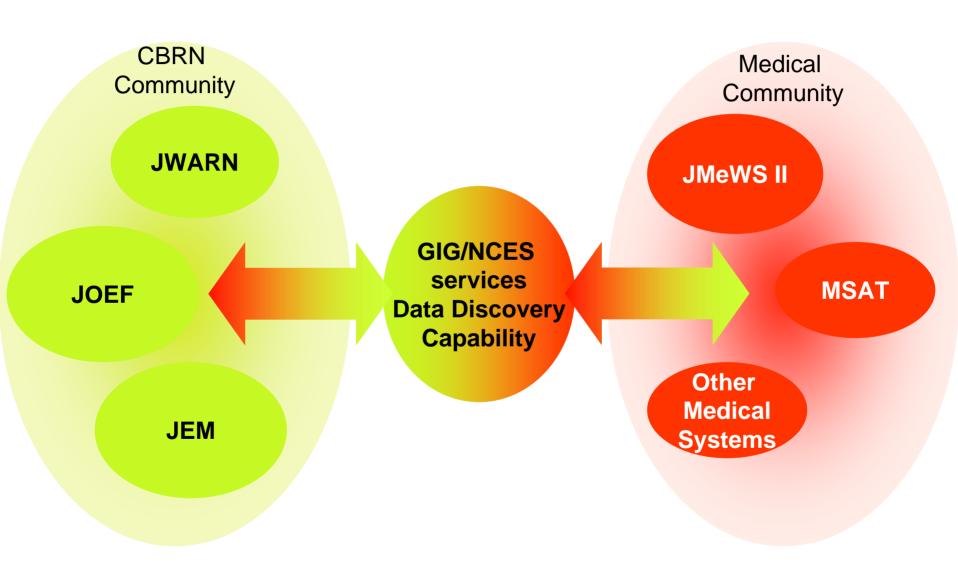


Crisis Planning/Action 4) Medical Logistics Requirements



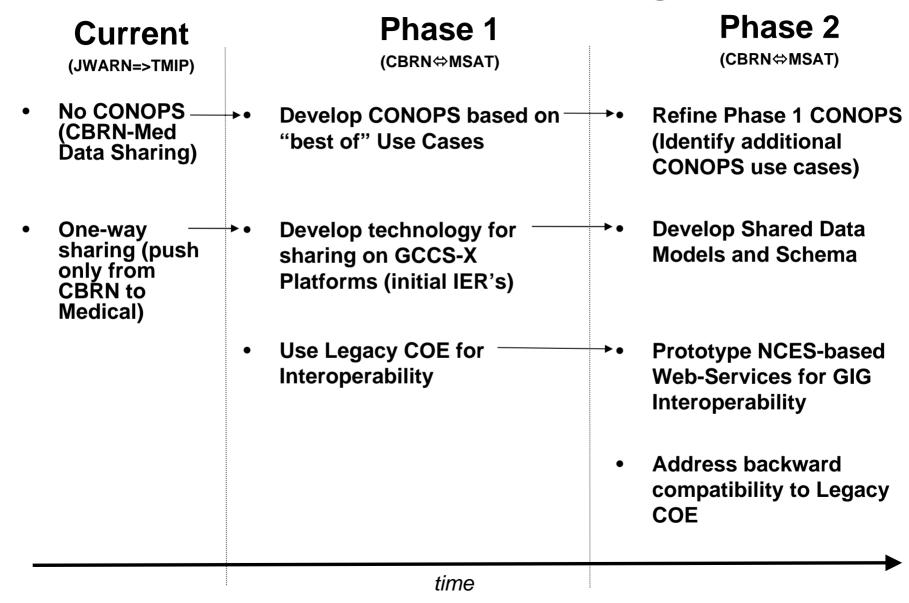


CBRN \Leftrightarrow **Medical Interoperability**





Phased CBRN ⇔ Medical Migration





Way Forward

- ✓ Brief out to MSAT ACTD to get "thumbs up"/buy-in that they are the Pilot's best fit from Medical community
- Receive S&T Resource Support for CBRN to participate in MSAT ACTD for CBRN ⇔ Medical Initial Capability Demonstrations
- Preparation of Pilot MOU/MOA (time-phased technical approach, resource commitment, expected outcome)