



VEILFORGE CYBER-PHYSICAL

Point Paper | CS3 | Cyber-Physical

Compounded cyber-physical crisis under a Department of Homeland Security (DHS) / Federal Emergency Management Agency (FEMA) and Energy Sector construct. Quadraux provides hybrid project management (PM), cyber, and logistics as complementary surge, not a replacement for federal or sector operators. Illustrative \$4.9M over 35 days intense plus 45-day recovery stabilization. Time, Cost, Scope, and Value held.

ALIGNING TIME, COST, SCOPE, AND VALUE.

Illustrative scenario. Not a prior Quadraux engagement.

SNAPSHOT

Client	DHS / FEMA + Energy Sector Critical Infrastructure: compounded crisis response
Scenario	Major natural disaster compounded by ransomware and disruptive cyber-attacks on power, water, and communications.
Estimate	\$4.9M (competitive lower-end). 35 days intense + 45-day recovery stabilization.
Quad	Time, Cost, Scope, and Value held as four peers.

OUTCOMES

Illustrative scenario numbers.

- **Cost.** 23% under the \$4.9M figure (~\$1.13M).
- **Time.** 28% faster recovery of critical services versus baseline.
- **Scope.** Approximately 31% growth absorbed with no schedule slippage.
- **Value.** ZERO successful follow-on attacks. 150+ personnel trained. Critical services restored and sustained across power, water, and communications.

APPROACH

- **D.I.M.E.** Diplomatic, Information, Military/Operational, and Economic frame synchronized against Time, Cost, Scope, and Value.
- **Coordination cell.** Secure Joint Operations / Coordination Cell and common operating picture stood up within 72 hours.
- **Zero Trust.** Continuous verification, micro-segmentation, and rapid hardening from Day 1 as a co-equal workstream.
- **Hybrid PM.** Project Management Body of Knowledge (PMBOK) gates plus Agile sprints. Delivery method, not a seventh service line.
- **AI/ML.** Predictive restoration, industrial control system (ICS) monitoring, and decision support from the first sprint.

RECOMMENDATIONS

Unified Coordination in the First 72 Hours

- **Recommendation.** Stand up a secure Joint Operations / Coordination Cell with a common operating picture spanning physical and cyber domains inside 72 hours.

Hybrid Project Management at Restoration Tempo

- **Recommendation.** Hold PMBOK gates for risk, cost, and reporting. Run 72-hour Agile sprints so restoration sequences can move without losing the audit trail.

Zero Trust as a Co-Equal Workstream

- **Recommendation.** Treat cyber containment and Zero Trust expansion as co-equal workstreams with physical restoration from Day 1.

WHEN CRISIS STRIKES. PREPARED. PROTECTED. CONNECTED. RESILIENT.