



Eyrie

Medical informatics, analytics, predictives - targeting and serving emergent and unforeseen mass-impact public health crisis situations. A component within the COMPASS Program (Collaborative Organization for Medical Public Health Analytics and Social Services).

Major modules intended to be in accessible to any medical provider-caregiver worldwide:

OTEM - Open Tracking Epidemiological Map

An Open-Architecture Reconfigurable Mapping Environment for infections, patient conditions and clinical resource availability and distribution.

MADIT – Mutation and Anomaly Detection, Identification, Tracking and Forecasting

Real-time tabulation, assessment, and distribution of information on potential genetic mutations of biopathogens.

CRAIDO - Community-based Rapid Response Planning and Logistics for Infectious Disease Outbreaks

Specific resource-focused advance-warning alerts and management assistance tools for determining optimal (re)allocation of resources including staff and material supplies.

HERO - Health Emergency Resource Optimization

Coordination and services (onsite and remote) by institutions and volunteers, providing Resource Information Coordination, Transport, Instrument Support, and Backup Communications.

OPAM - Optimized Prescription and Administration of (novel, innovative, repurposed) Medicines

Real-time decision support for what to give, change or not give to patients under duress conditions, particularly focused upon the use of novel, repurposed, and combined pharmaceuticals and other therapeutics.

ERMA - Epidemiological Response Measures Assessment

Real-time heads-up assessment and notification distribution of identified or potential errors, mishaps, flaws, contradictions, and needs in clinical operations and especially in medical supplies/logistics.

OTEM - Open Tracking Epidemiological Map

An Open-Architecture Reconfigurable Mapping Environment for infections, patient conditions and clinical resource availability and distribution. Based upon OSM and OSGeo and relational DBMS, providing a proven and widely-used map initially developed and distributed for street, transit-route, public-transportation and functional-location mapping (similar to Google and Yandex maps).

MADIT – Mutation and Anomaly Detection, Identification, Tracking and Forecasting

Real-time tabulation, assessment, and distribution of information on potential genetic mutations of biopathogens. Providing indicators of potentially significant changes within infectious agent vectors, infectivity, positive-indicator distribution, virulence including symptom change and lethality, and indicators of anomalies within epidemiological response and clinical treatment information sources.

CRAIDO - Community-based Rapid Response Planning and Logistics for Infectious Disease Outbreaks

Specific resource-focused advance-warning alerts and management assistance tools for determining optimal (re)allocation of resources including staff and material supplies (PPE, instruments and supplies for testing and treatment). Directed toward communities and healthcare institutions.

HERO - Health Emergency Resource Optimization

Coordination and services (onsite and remote) by institutions and volunteers, providing: Resource Information Coordination, Transport between sharing institutions, Instrument Maintenance, especially Cleaning and Repair, and Backup Communications, especially Follow-Through.

OPAM - Optimized Prescription and Administration of (novel, innovative, repurposed) Medicines

Real-time decision support for what to give, change or not give to patients under duress conditions, particularly focused upon the use of novel, repurposed, and combined pharmaceuticals and other therapeutics:

Using the latest info from not only conventional clinical trials but real-time bedside results with emergency patients

Comparing all the side-effects and contraindications

Weighing the advantages and disadvantages

Prescribing and administering certain medications, some of which may be from other uses entirely, some may be brand-new, experimental, some may be partially successful but also partially not successful.

ERMA - Epidemiological Response Measures Assessment

Real-time heads-up assessment and notification distribution of identified or potential errors, mishaps, flaws, contradictions, and needs in clinical operations and especially in medical supplies/logistics.

Employs other Eyrie components plus private/public sources to assist institutions, agencies and providers in the identification of and recovery from bottlenecks, misinformation, delays, and direct system/infrastructure errors that can damage performance and delivery of services.