



Eyrie – Public Health and Safety Informatics

Eyrie is an open informatics and analytics system. It provides clinical outcomes and epidemiological simulation, modeling, analysis and forecasts, medical product acceptance and effectiveness prediction and comparison, patient behavioral dynamics and futures analysis, cross-product and cross-market forecasts, focused upon diverse types of both open-population and closed-group demographic segments.

Eyrie collects, organizes, analyzes and presents specific information sets acquired through multiple sources and methods, particularly focusing upon (a) clinical studies and trials managed by pharmaceutical and medical product manufacturers and vendors, and (b) epidemiological studies and data acquisition networks managed by public health and medical organizations.

Among Eyrie tools for data acquisition is GSI - Geospatially-based Social Intelligence for empowerment of social distancing for pandemic control, a system that incorporates satellite telemetry and imaging as well as social media information sources and real-time UAV data collection and monitoring. GSI is under development in partnership with experts and specialists in two US universities. GSI is an example of how Eyrie is being expanded to serve a global population-in-need within the context of health and social challenges.

EYRIE employs internal IRI technologies and products as well as other resources and tools which serve as data sources. Within its internal processing, EYRIE organizes information and extracts knowledge according to the prescribed need-vectors as established within the client relationship. The resulting information and knowledge resources are delivered to clients in specific formats in order to optimize the client needs for product development, marketing and deployment, and/or public health and in particular epidemiological response planning and tactical implementations.

Eyrie can be summarized in the following manner:

- medical and health informatics, analytics, and predictive tools
- five major inter-connected components:
 - OTEM (Open Tracking Epidemiological Map) including GSI with social distance identification, classification, prediction and response strategies
 - MADIT (Mutation and Anomaly Detection, Identification, Tracking and Forecasting)
 - CRAIDO (Community-based Rapid Response Planning and Logistics for Infectious Disease Outbreaks)
 - OPAM (Optimized Prescription and Administration of Medicines) (focused upon novel, innovative, repurposed therapeutics)

- HERO - health emergency resource optimization, comprising two major functions:

- [1] the coordination of:
 - Resource Information Coordination
 - Transport (all tasks) between sharing institutions
 - Instrument Maintenance, especially Cleaning and Repair
 - Backup Communications, especially Follow-Through

- [2] ERMA – epidemiological response measures assessment an informatics tool for real-time heads-up assessment and notification/distribution of identified or potential errors, mishaps, flaws, contradictions, contraindicators, and needs in clinical operations and especially pertaining to medical supplies and logistics.

Products and applications of IRI products within the agriculture, energy, and space fields are truly revolutionary advances that will make our business and national partners be strong leaders in our dynamically-changing world. Our sponsors, investors and supporters have a true "leading edge" that empowers them in this century and beyond. The "return on investment" for all IRI sponsors, investors, clients and employees is unmistakable, remarkable, and unparalleled. IRI is positioned to be one of the dominant controlling forces in the remainder of this 21st century and beyond - on Planet Earth, beneath its surface, and far beyond in Space.