People

HARRIS
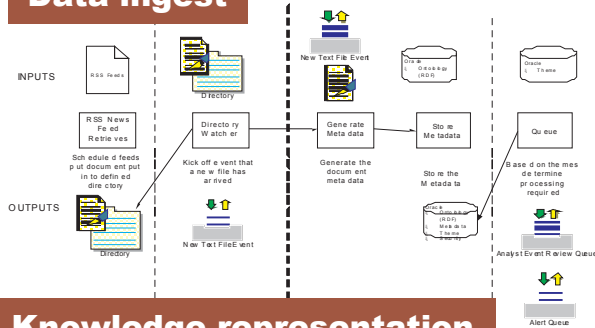
- Harris Corporation

- Lead Investigator: Kevin Fox, Ph.D.
  - 20 years of experience in leading, managing, and participating in R&D programs
  - Has published and patented in information management, information retrieval, data and information fusion, media asset management, computer security, and artificial intelligence
  - Has led internal Harris research and development projects and conducted research for the DoD and Intelligence Community
  - Principal Investigator of Harris GCSD's Information Management IR&D

- Current Team Members:
  - Liam M. Mayron, Ph.D.
    - Has published in content-based image retrieval (patent pending), Semantic Web, network security, image processing, and multimedia communications
  - Tahia Morris
    - Has published and patented in secured semantic triple stores, information retrieval, geospatial media asset management, and biomedical image processing, mining, graphics, and visualization.
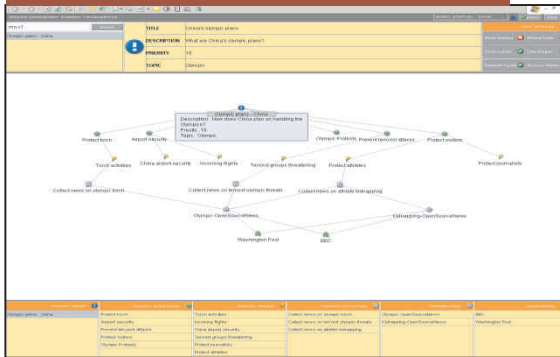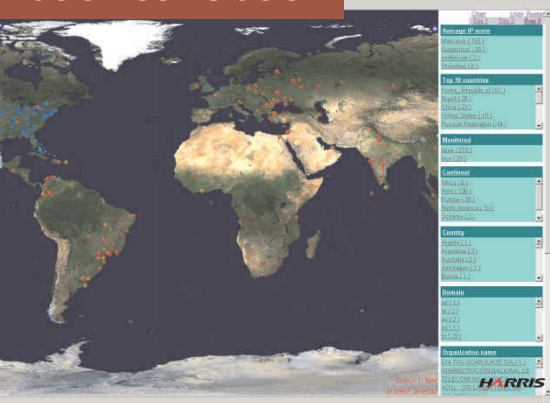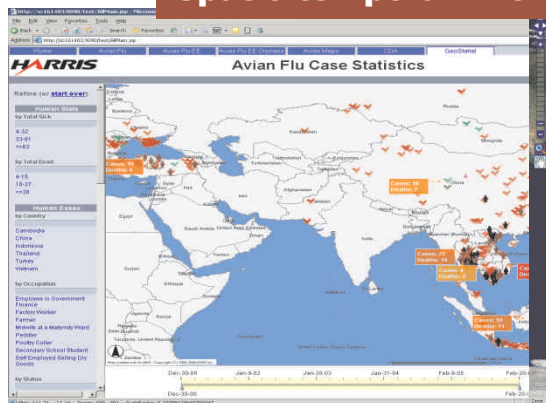
Research Interests
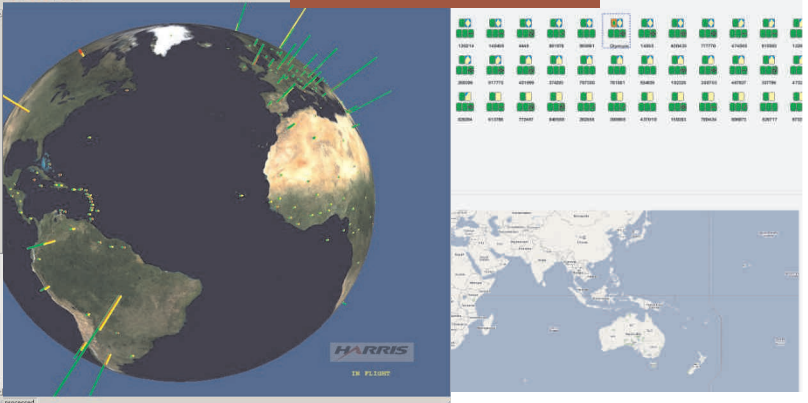

Data ingest

Knowledge representation

Harris uses an integrated approach that combines different technologies to deliver the capabilities analysts need:

- Information and knowledge management
- Web 2.0+ and Semantic Web technologies
- Spatio-temporal information correlation and visualization
- Spatio-temporal and multimodal information correlation and visualization
- Geospatial and rich media digital asset management
- Geospatial image and video processing
- Metadata generation
- Domain vocabulary generation and semantic data modeling
- Decision support

Spatio-temporal information correlation

Mission models

Capabilities

- Harris' experience in program execution encompasses a total mission approach. We have embraced the concept of mission partnership with our Customer as a key success factor for program execution

- Information management and knowledge management at Harris:
  - Multi-year internal research and development effort
  - Research areas include:
    - Large-scale information discovery
    - Information (entity/fact) extraction
    - Content navigation
    - Knowledge maps (including ontologies and taxonomies)
  - Objectives include:
    - Development of enterprise-level knowledge management architectures and implementations
    - Demonstration of efficient ways to manage, search, navigate, discover, integrate and correlate information and knowledge across the enterprise, facilitate teamwork and community interaction, and automate content analysis

- Harris holds patents in search and visualization; additional patents related to vocabulary generation to further improve search results are pending

- Harris has routinely teamed with universities and companies to research, investigate, and build products for analysts
- We're seeking teammates that can complement our team with expertise in the following areas:
  - Unique data sets and models
  - Analytic algorithms for diverse data
  - Visualization
  - Natural language processing
  - Entity extraction

Contact Information

- Liam M. Mayron, Ph.D.
- Software Engineer
- Harris Corporation
- lmayron@harris.com
- 321-984-5699
- http://harris.com