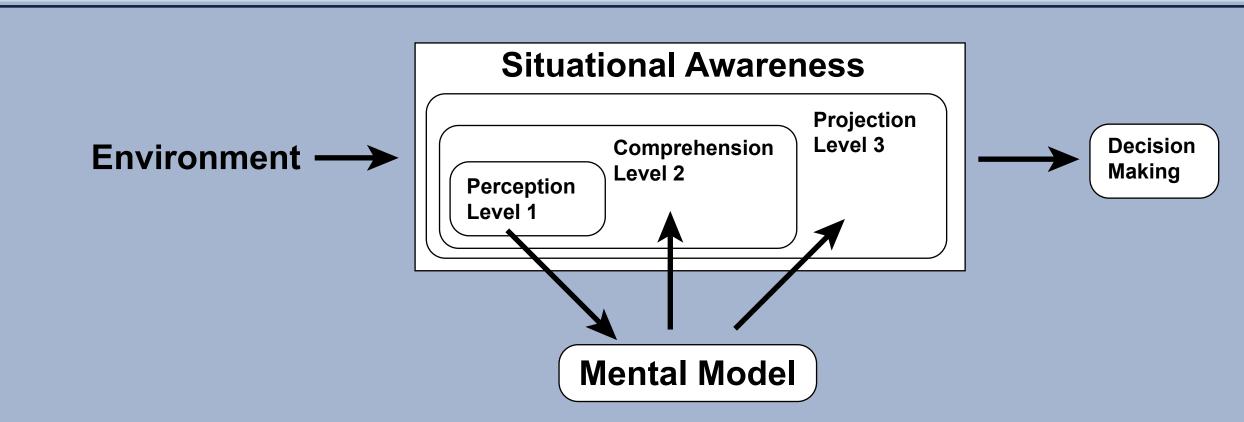
# **Visual Analyitcs for Situational Awareness** (and how to get the software out of your way...)

Yarden Livnat (SCI Institute) In collaboration with: Matt Semore (Epidemiology University of Utah), Adi Gundlapalli (Epidemiology University of Utah, Department of VA), Geoff Draper (SCI Institute), Orly Alter (SCI Institute), Chris Barrett (Virginia Bioinformatic Institute), Paul Wilson (University of Wisconsin-Madison)

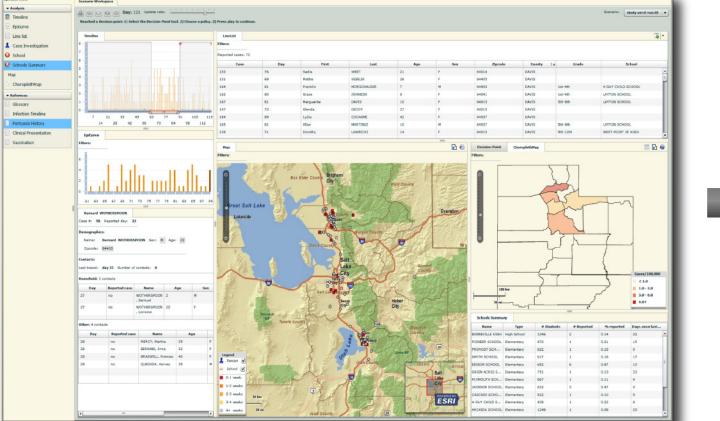


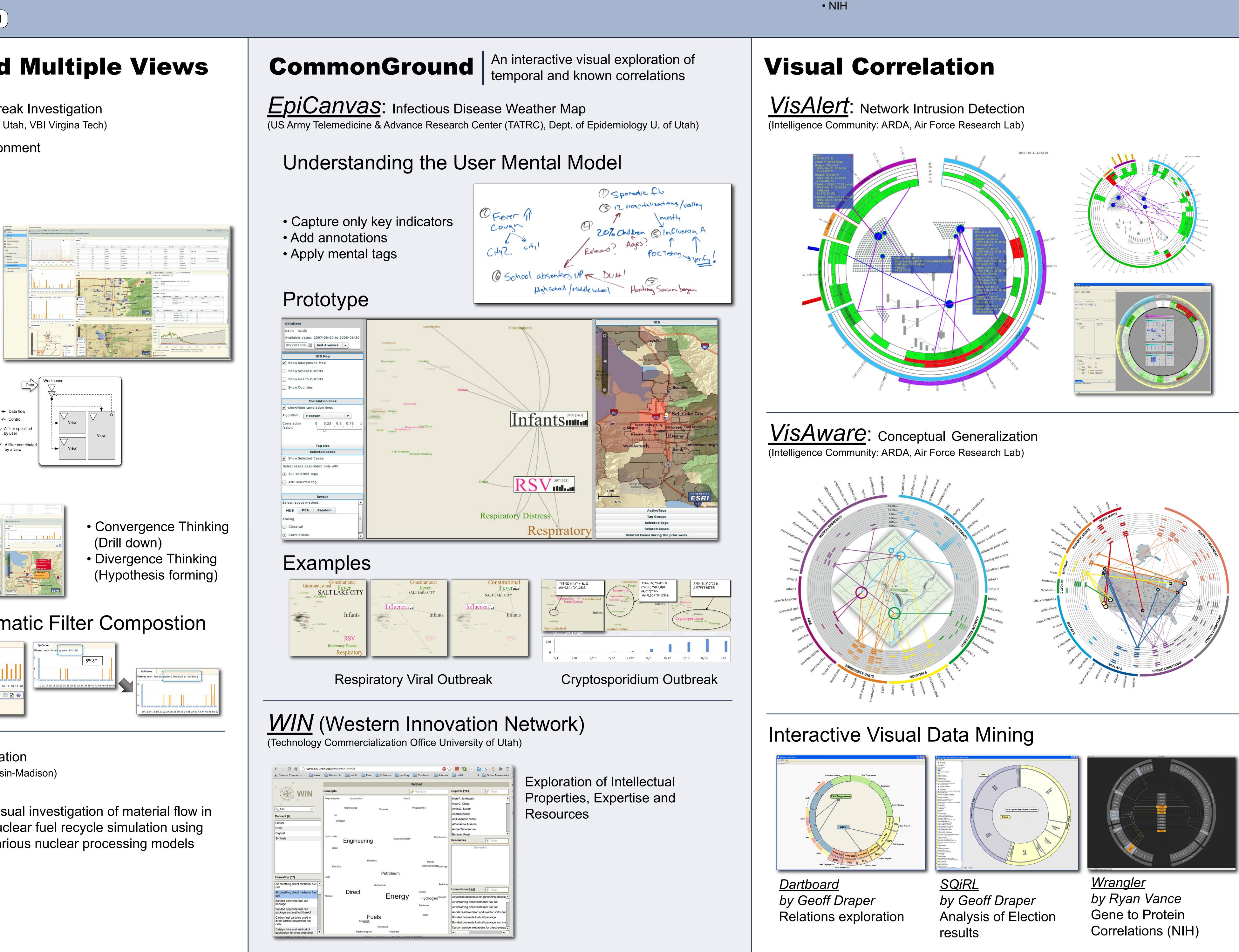
# **Loosely Coordinated Multiple Views**

**Epinome:** Infectious Disease Outbreak Investigation (CDC Center of Excellence, Dept. of Epidemiology U. of Utah, VBI Virgina Tech)

- Seamlesly Evolving Investigation Environment
- Multiple views of shared data
- Data changes over time

### Direct Interactive Layout





**Domains**:

Nuclear Energy

Infectious Disease Outbreaks

Public Health Weather Map

Network Intrusion Detection

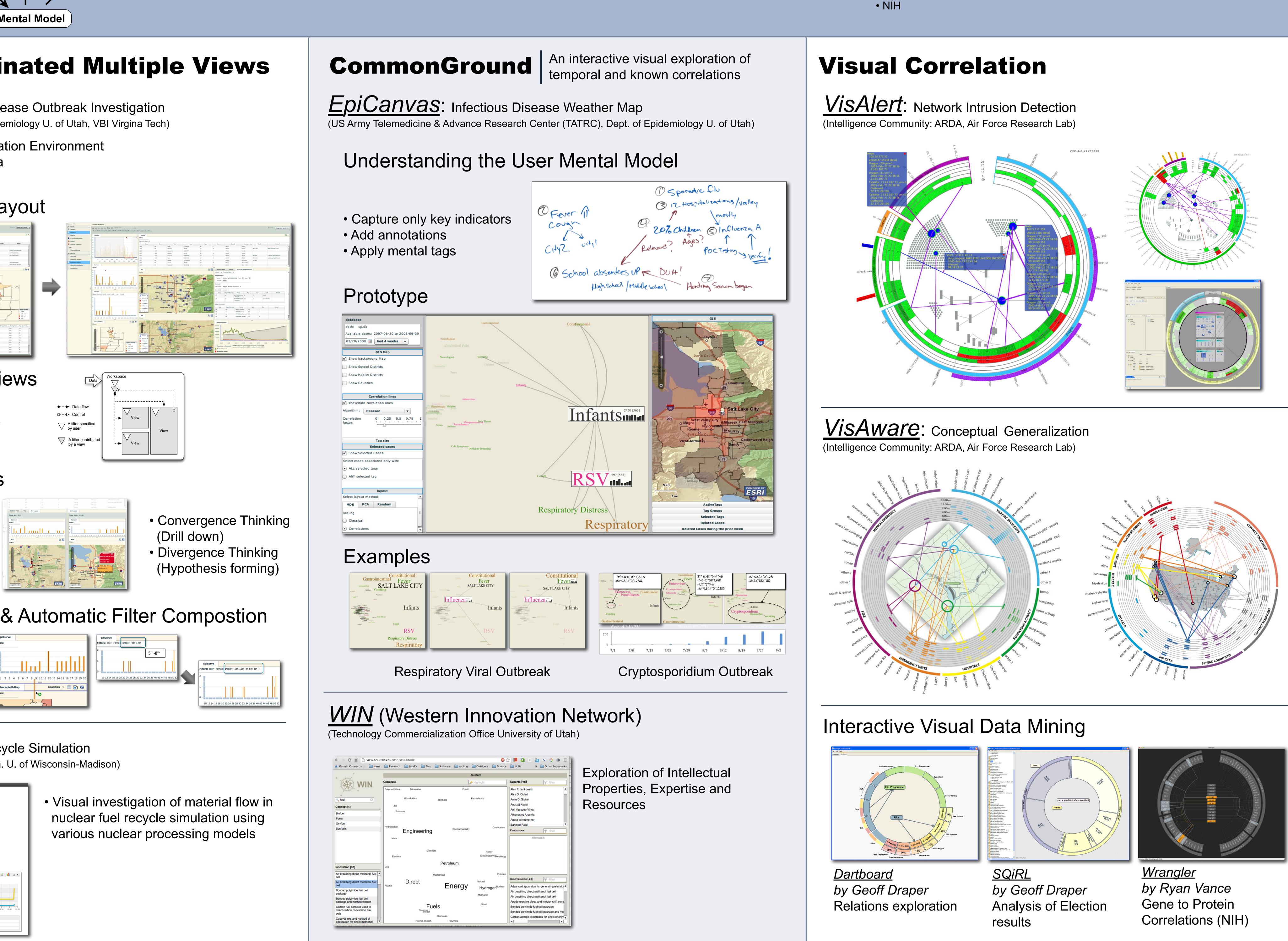
• Genes and Proteins Correlations

## Loosely Coupled Views

- Shared dynamic data
- Global filtering over all views
- Independent local filtering

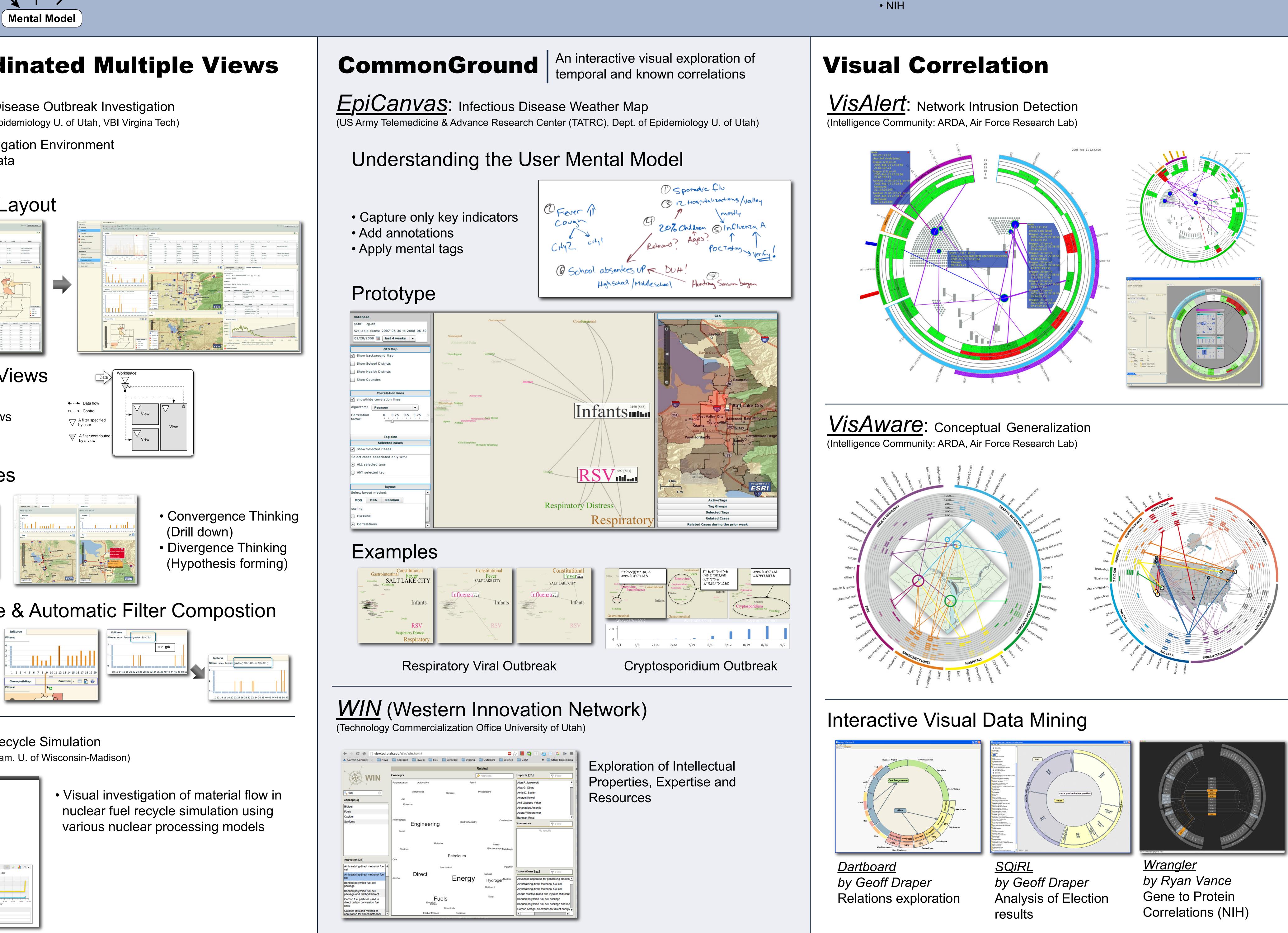
# Nested workspaces

Ita	kspace		
	View View View View View View	View	v View

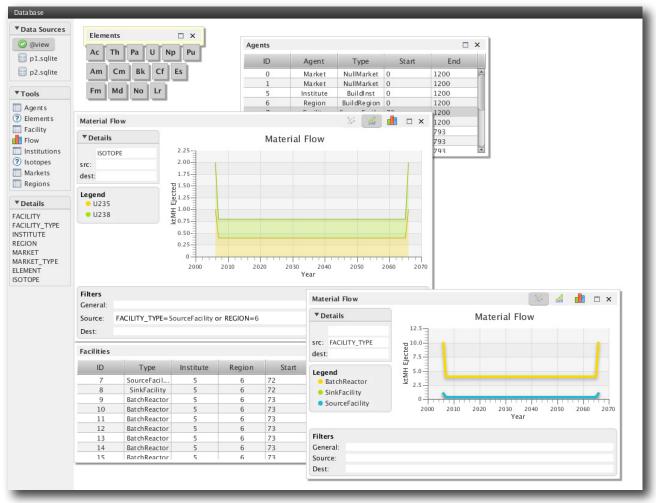


# Query by Example & Automatic Filter Composition

- DnD visual data items (text & graphics)
- Associated semantics with the DnD item



**<u>Cyclist</u>**: Nuclear Fuel Recycle Simulation (DOE Nuclear Energy University Program. U. of Wisconsin-Madison)



### Aims:

- Empower users to explore their data
- Simple, direct and intuitive interactions
- Support the non-linear and unstructured exploration process
- Faciliate multiple lines of thought





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