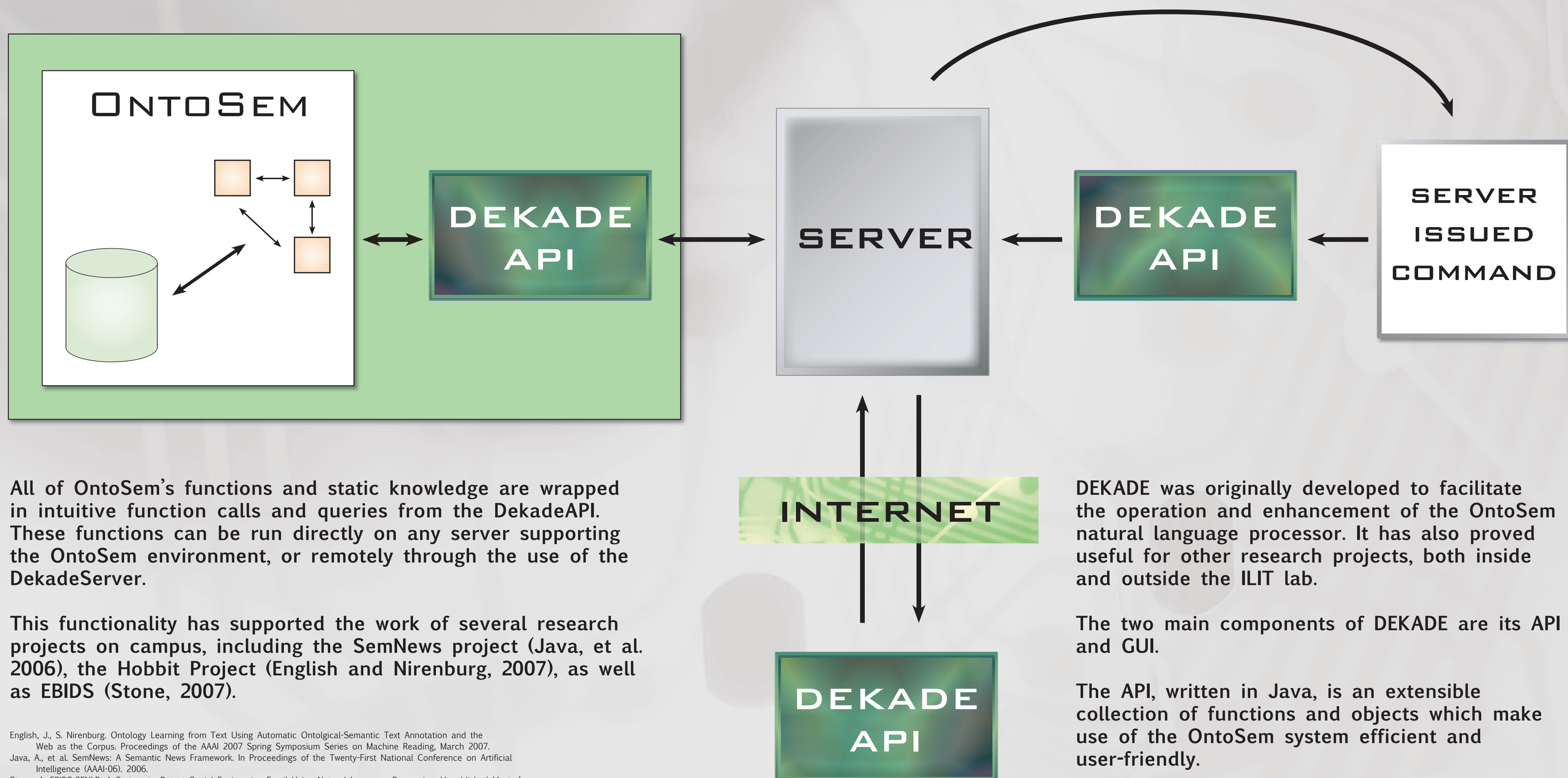


# A DEVELOPMENT, EVALUATION, KNOWLEDGE ACQUISITION AND DEMONSTRATION ENVIRONMENT FOR KNOWLEDGE-BASED NLP



All of OntoSem’s functions and static knowledge are wrapped in intuitive function calls and queries from the DekadeAPI. These functions can be run directly on any server supporting the OntoSem environment, or remotely through the use of the DekadeServer.

This functionality has supported the work of several research projects on campus, including the SemNews project (Java, et al. 2006), the Hobbit Project (English and Nirenburg, 2007), as well as EBIDS (Stone, 2007).

DEKADE was originally developed to facilitate the operation and enhancement of the OntoSem natural language processor. It has also proved useful for other research projects, both inside and outside the ILIT lab.

The two main components of DEKADE are its API and GUI.

The API, written in Java, is an extensible collection of functions and objects which make use of the OntoSem system efficient and user-friendly.

The interface, written in Java/Swing, supports a plug-and-play environment, allowing researchers and developers to quickly add new panels to the interface, which already supports a robust editor for each of the major static knowledge resources of OntoSem, as well as a step-by-step processor of the OntoSem analyzer.

## APPLICATIONS USING ONTOSEM AND DEKADE

# SemNews

Developed by Akshay Java.  
A semantic analysis of RSS  
news feeds, and conversion  
to OWL.

[illegible]

## EBIDS

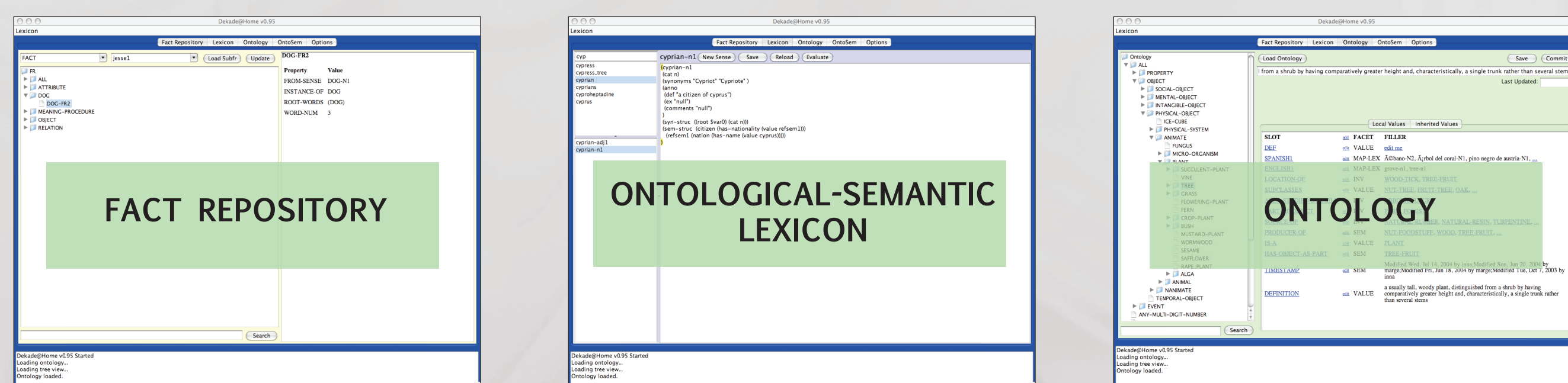
Developed by Al Stone.  
A social engineering email detection system,  
using NLP.

## The Hobbit Project

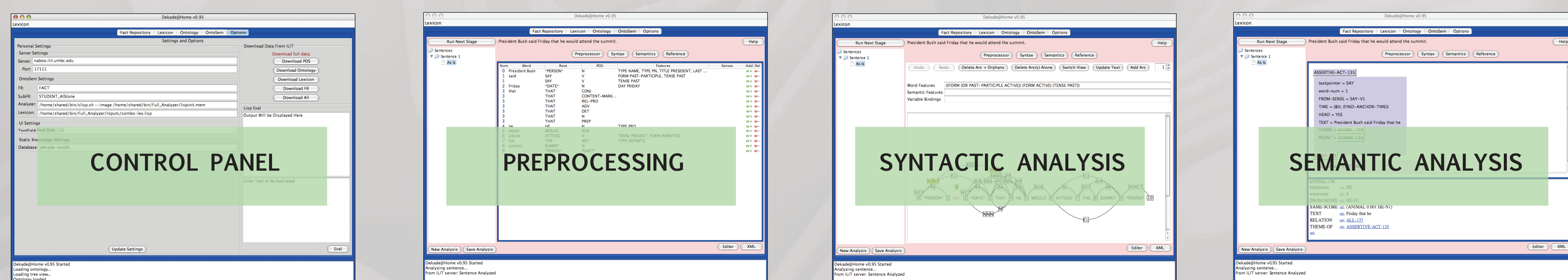
Developed by Jesse English, Sergei Nirenburg.  
A machine reading / continued learning project.



## BROWSING AND EDITING STATIC KNOWLEDGE RESOURCES



## MONITORING AND DEBUGGING THE PROCESSES OF MEANING EXTRACTION FROM TEXT



For further information contact Jesse English ([jesse.english@umbc.edu](mailto:jesse.english@umbc.edu)) or Sergei Nirenburg ([sergei@umbc.edu](mailto:sergei@umbc.edu))