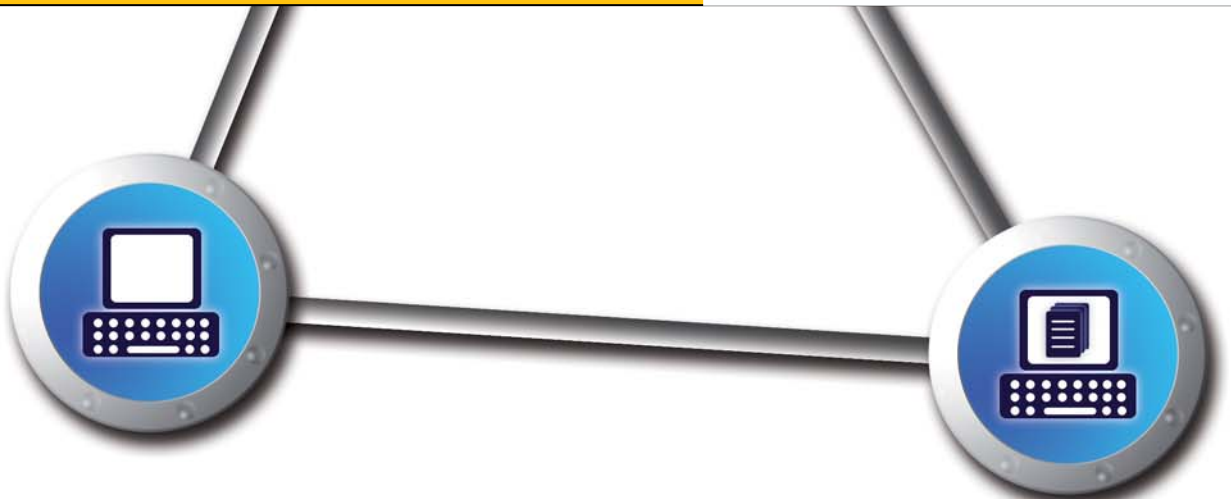


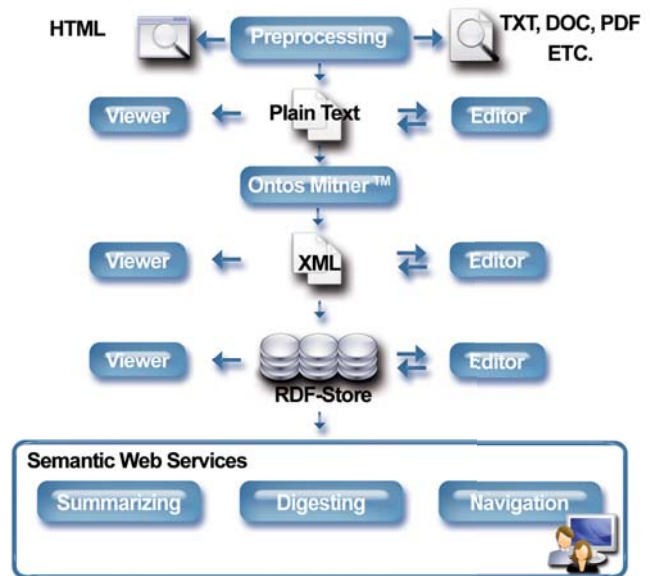
# Semantic Technologies



# SEMANTIC WEB TECHNOLOGY

## Introduction

Web content on the Semantic Web includes a layer of metadata, which describes and is linked to this content. This enables machines, software and users to locate information faster and more efficiently than with conventional methods. Ontos' Semantic Framework platform is designed to evaluate the semantics of huge amounts of data using NLP (Natural Language Processing) and W3C standards (e.g. RDF, SPARQL, OWL).



## NLP and Semantic annotations

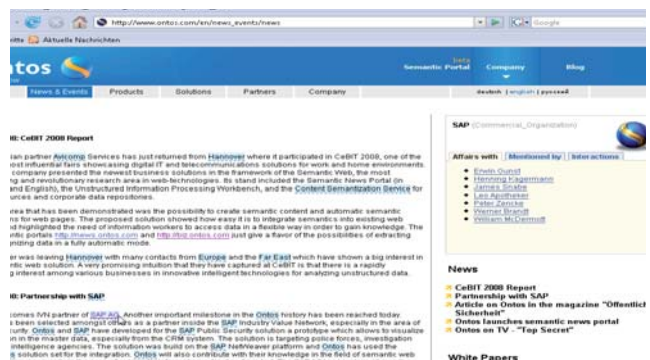
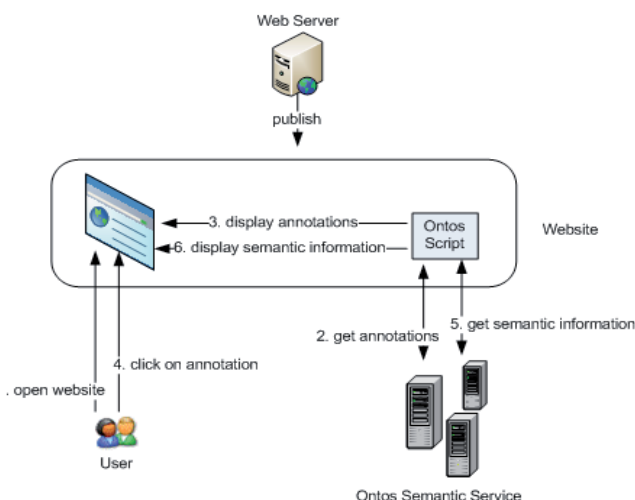
Ontos software extracts structured data from text documents. The linguistic method used has a further advantage. It enables relations between objects to be identified; for example, the fact that a person lives at a certain location or that someone knows another individual. This functionality is crucial to semantic evaluation related to, for example, Internet navigation.

Ontos Semantic Framework automatically generates annotations and stores metadata in a database. Further services are available: for instance, the tool can provide summaries or digests about an object of interest, or start dynamic web navigation. Ontos itself operates proprietary Internet portals that use this technology.

## Semantic content related to web site

Ontos automatically creates links to relevant content on your web site. The easy-to-implement technology allows to position a

frame inside an existing web site. Your benefit is you keep your readers longer on your web site and create more opportunities for revenue.



# ONTOS SEMANTIC PORTALS

Ontos has developed a semantic News Portal (<http://news.ontos.com>), which automatically collects and filters news from different sources. This powerful tool enables users to assess content based on meaning instead of key words. They can analyze and annotate online news from known providers and filter it based on a wide range of criteria, including object type, relation, etc. A plug-in can be installed, which enables the user to navigate through all web pages annotated by Ontos.

The semantic Business Portal (<http://biz.ontos.com>) is an extension of the News Portal. Based on the extracted data, the Business Portal adds published information such as a company's stock market performance or Wikipedia data. The Business Portal creates an overview of an object of interest. Mashup technology and distributed Internet sources allow information to be automatically networked using semantic technologies.



## Integration and Use Cases

- news aggregation and analyse
- semantic portals
- opinion-analyse in web forums
- web sites related to semantic content
- additions to CRM, BI-systems and Outlook
- analyses within the law enforcement
- semantic search

