SENA
Semantic Navigation of News

AIM AND FUNCTIONALITIES
SENA is a system to support users in navigating a repository of text-based news (as news content under web portals) to find similar or related documents to the one the user is viewing.

SENA provides the most important information about the document content according to some semantic categories, like persons, location, or event types, which are displayed in a navigation bar from which the user can select the combination of items he would be interested in.

The SENA system integrates domain specific information extraction from news text including named entity recognition, detection of topical events, OWL/RDFS based reasoning, a time anchoring component and a search engine based on semantic similarity of documents in addition to full text search. Moreover, the creation of dossiers from selected relevant documents is also supported.

INTEROPERABILITY
Although this module currently operates in stand-alone mode with its own interface and Knowledge Base, integration into any system can be easily accomplished as its functionality can be offered as a web service and the application programming interface is easily customisable to standards’ compliant needs.

OWNER'SHIP
This module is owned by the DFKI research institute (Deutsche Forschungszentrum für Künstliche Intelligenz GmbH).
EXAMPLE OF USE

Step 1:
The user views a news document.

Step 2:
The user selects some content items by checking the boxes on the navigation bar.

Step 3:
The document window brings related documents ranked by similarity with respect to the initial document and timeline where the timeline is derived from the dates within the document independently of their original publication date. The user can then change the sorting by relevance or timeline by clicking on the relevance/date bars in the document selection window. When the user selects a document from the retrieved set the annotations for the selected document are displayed on the navigation bar allowing further navigation.

Step 4:
The user can add documents to the repository which are immediately analysed making them available for navigation to related documents.