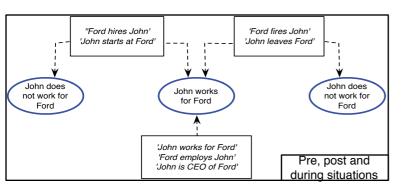
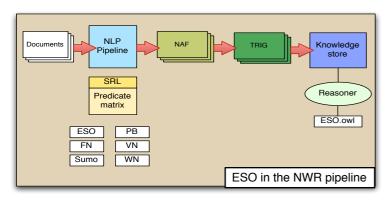
## The Event and Implied Situation Ontology (ESO)

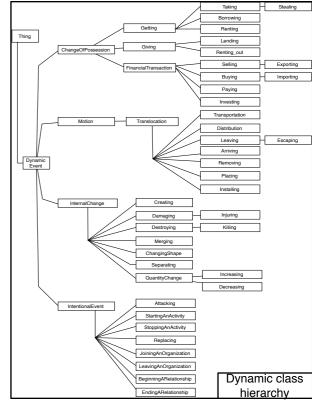
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## The Event and Implied Situation Ontology in short:

- -A metamodel and populated OWL ontology with 63 event classes
- -Models the pre, post and during situations of events and their roles
- -Used for text mining of large document collections
- -Runs on Semantic Role Annotated text
- -Includes: manual mappings to SUMO classes, Framenet Frames, Frame Elements and mappings from FrameNet Lexical Units to Princeton WordNet 3.0







**Get ESO.owl, the documentation and the mappings:** https://github.com/newsreader/eso.

Get the latest news at our project website: www.newsreader-project.eu

Contact me: r.h.segers@vu.nl

## **Evaluation 1**: Recall and precision based on the manual annotation of the MeanTime Corpus versus the NWR pipeline.

	Predicates	Roles	_	
Precision	61.6%	34.3%		baseline system
Recall	37.5%	27.2%	L	
	Predicates	Roles		
Precision	Predicates 36.1%	Roles 28.2%		NWR system

**Evaluation 2**: Quality checks of the Knowledge Stores based on NWR output, baseline system and the Gold Standard. A correct ESO event includes correct typing, correct assertions and correct roles.

KS NWR: 50% KS BaseLine: 36% KS Gold Standard: 92%









