Toward an Ontology-Based Chatbot Endowed with Natural Language Processing and Generation

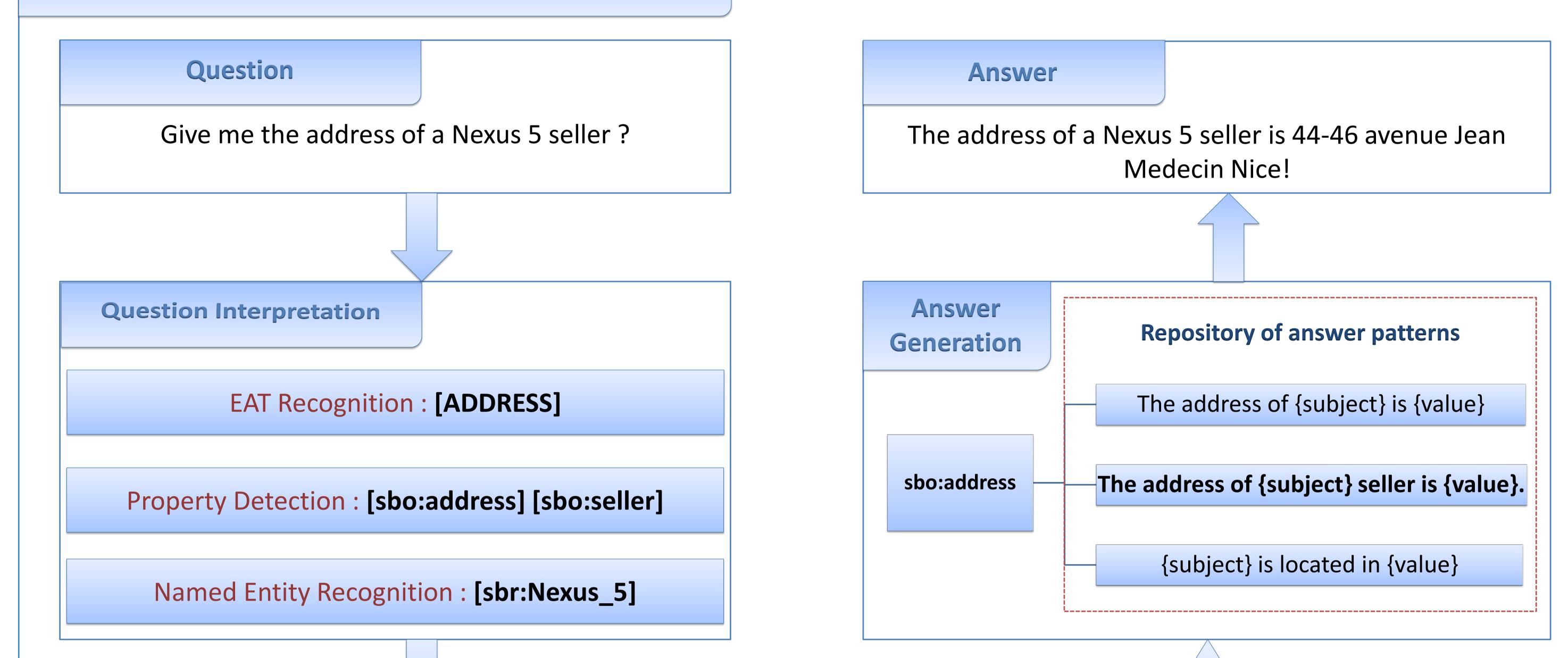
Amine Hallili Univ. Nice Sophia Antipolis, CNRS, I3S, UMR 7271, 06900 Sophia Antipolis, France hallili@i3s.unice.fr

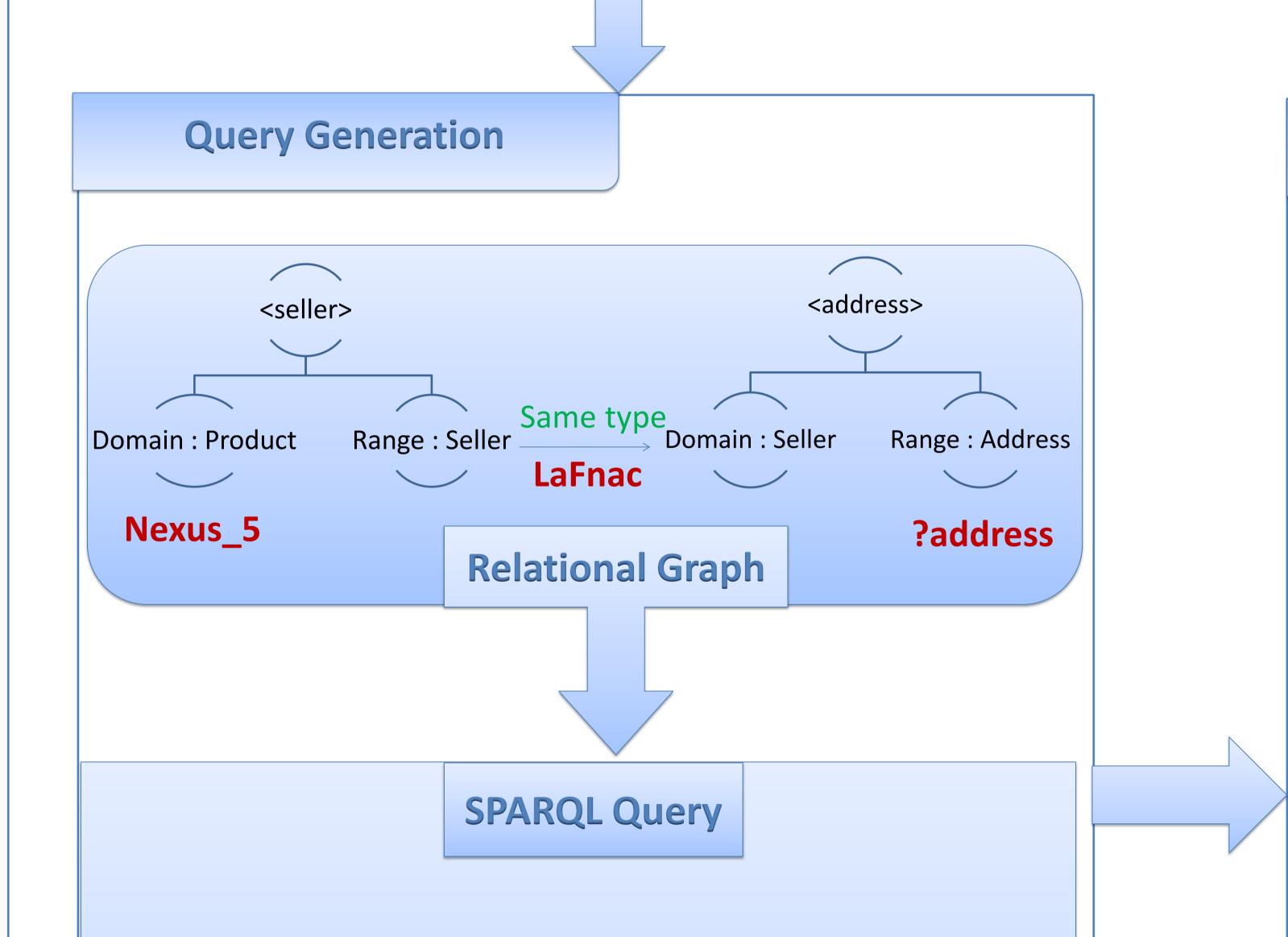
Context

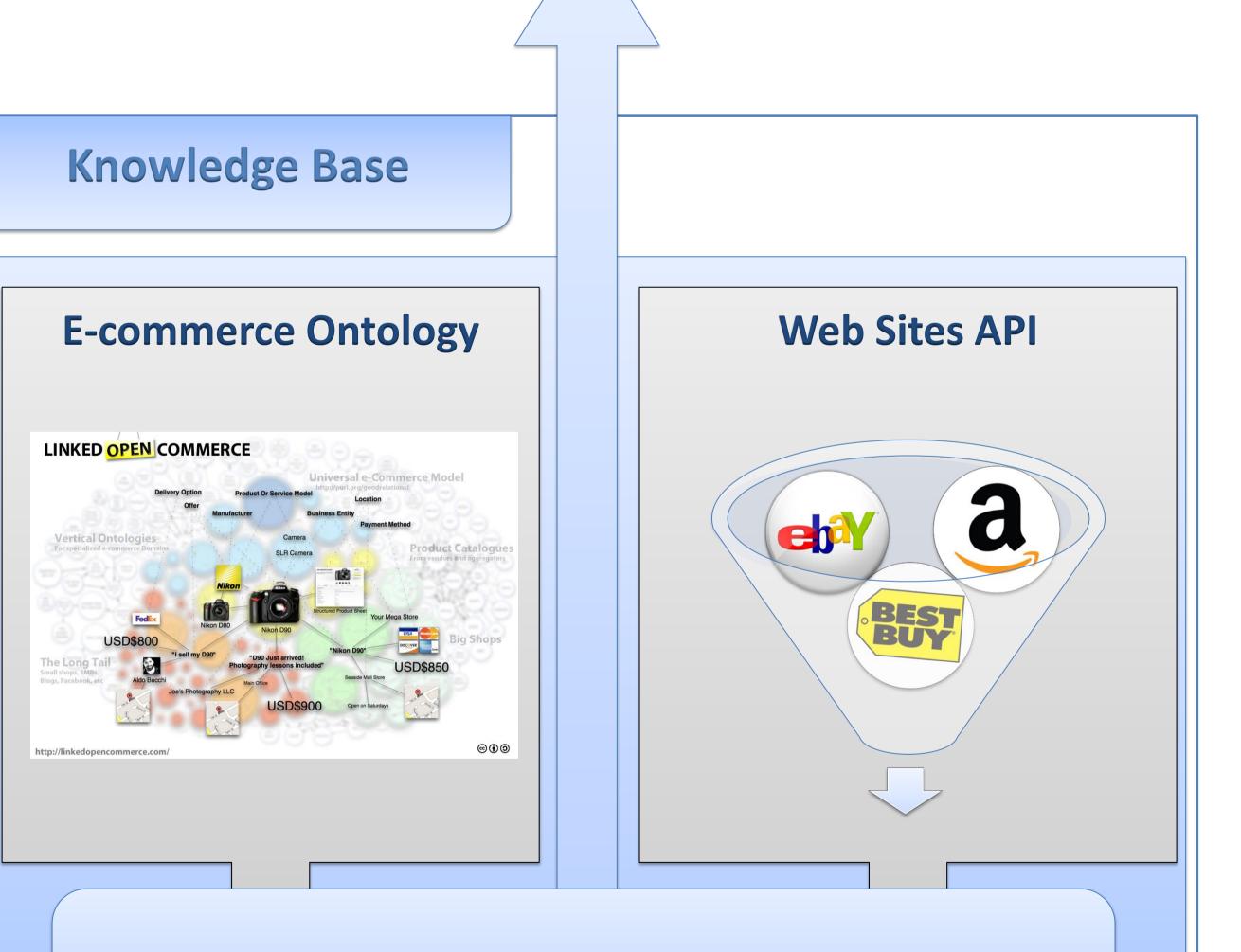
With the last evolution of the web, several new means of communication have showed up. In the commercial domain, chatbot technologies are now considered as essential for providing a wide range of services (e.g. search, FAQ, assistance) to the end-user, and to make a client a faithful customer. We propose an on-going work on the definition and implementation of **SynchroBot**, an ontology-based chatbot that relies on Semantic Web and NLP models and technologies to support user-machine dialogical interaction in the e-commerce domain.

SynchroBot : A preliminary approach

ONLINE DEMO : http://synchrobot.synchronext.com/SynchroBot-Gui/







We transform raw data, extracted through the web sites API and relying on an e-commerce Ontology, into RDF Triples.

SELECT ?address
WHERE {

?phone sbo:name "Nexus_5"
?phone sbo:seller ?Seller
?Seller sbo:address ?address

