

From social Web to the Web of Linked Data

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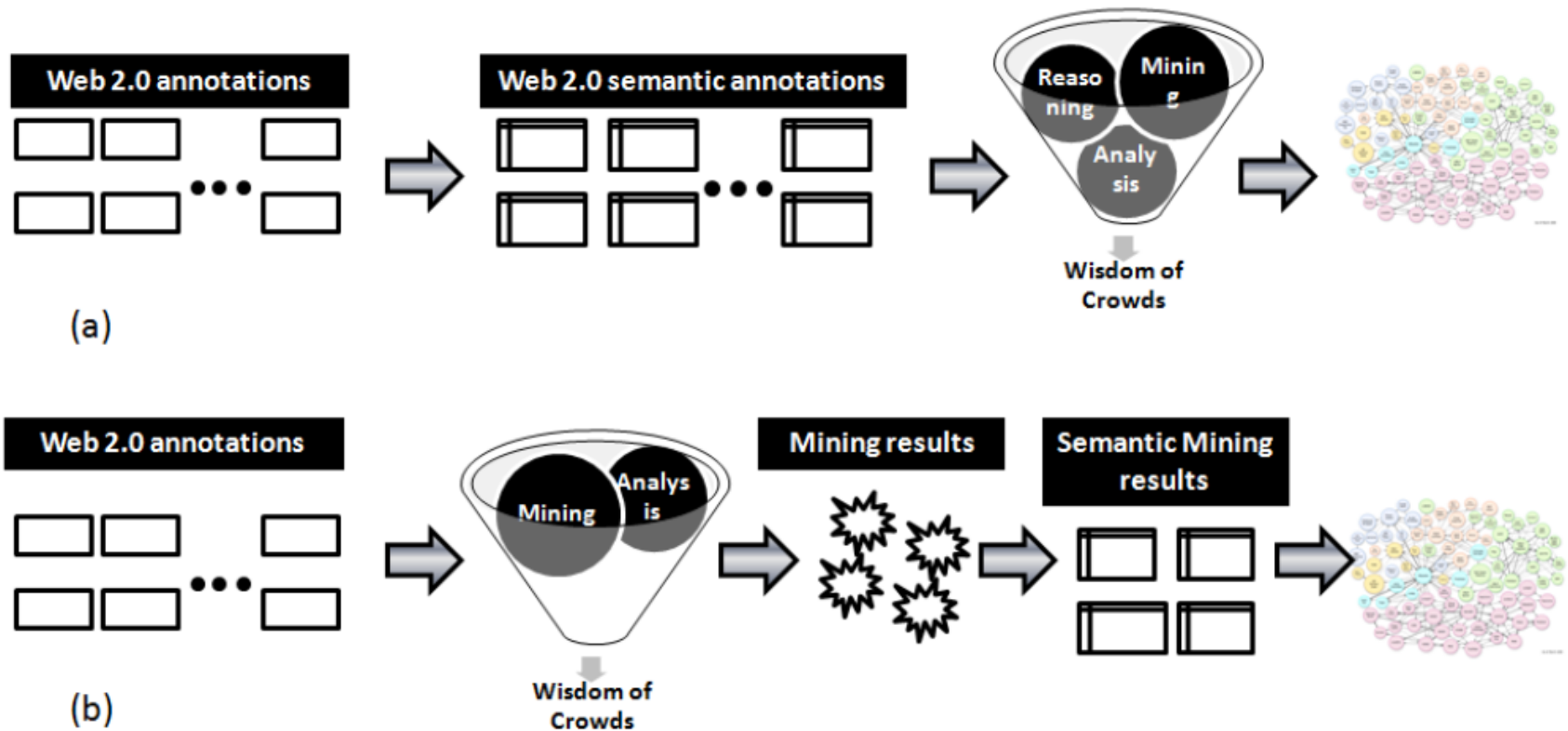
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Working on a framework ...

which will act as a pathway to

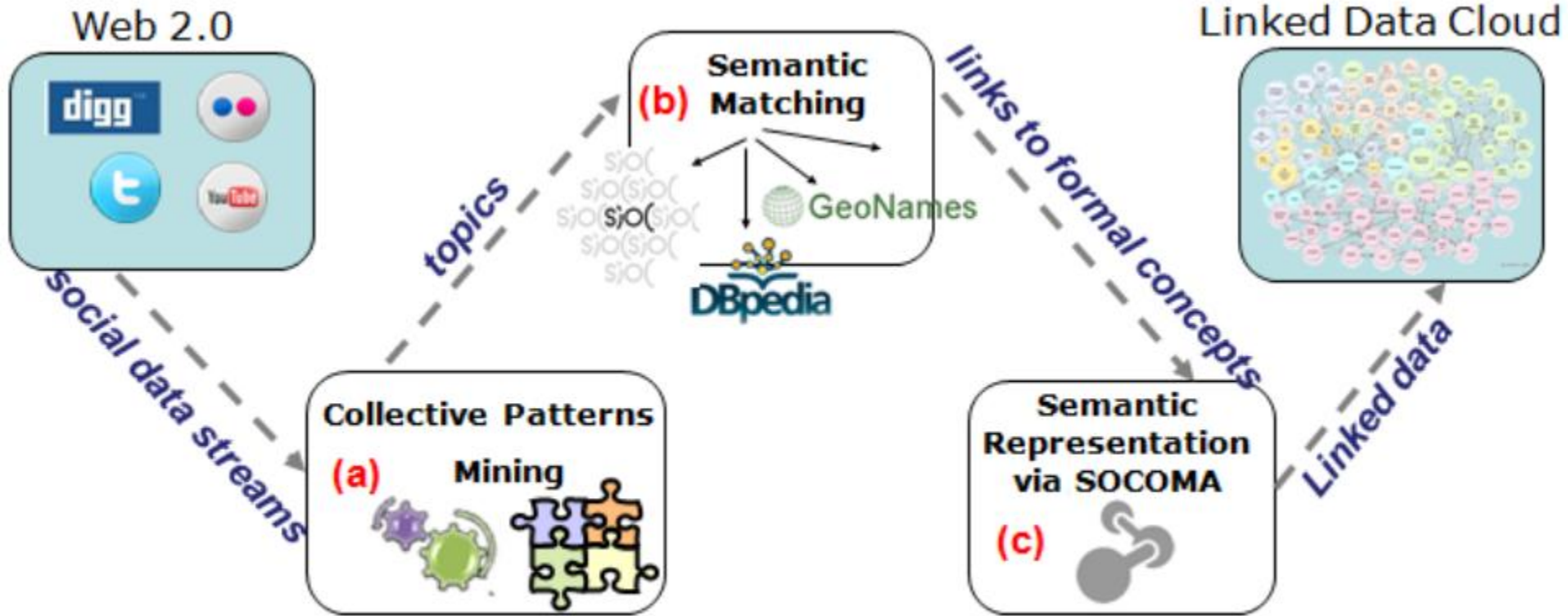
- (a) identify important themes through patterns in Web 2.0 user activities,
- (b) enrich the identified patterns with relevant formal descriptions already in the web, and
- (c) generate machine understandable formal descriptions for the identified patterns that can be further exploited by services

the generic idea ...



1. Pathways from Web 2.0 analysis to Linked Data (a) Pathway #1: Representing social data in RDF and then perform analysis on RDF data, (b) Pathway #2: Perform mining on the web 2.0 data and then represent the results in RDF as Linked Data.

Our approach ...



Outline of Web 2.0 to Linked Data Pathway.



<p>The diagram illustrates the integration of data from two domains: 'VIRTUAL LIFE' (Social Networks data) and 'REAL LIFE' (Real Life data). Both data sources feed into 'Social Network Patterns' and 'Real Life Patterns' respectively. These patterns are then integrated to identify 'Common Patterns', 'Deviations', and 'Influence'.</p>	<p>Real and Virtual Social Interactions and Reciprocities via efficient sentiment and affective analysis methodologies for extracting or recording and analyzing emotional information in real and virtual life. Detect and characterize patterns of 'online' communication with patterns of 'offline' or face to face communication in real social networks and studying patterns of human emotions in real and virtual life, to offer rich information for detecting implicit interactions and reciprocities.</p> <p>REVITAL : Real and Virtual Social Interactions, FP7 Internet Science Network of Excellence project http://www.internet-science.eu/</p>
<p>The diagram shows the 'SEN2SOC' architecture. It features a central box with layers for 'Sensors', 'Networks', 'Apps', and 'Services'. Arrows indicate the flow of data between these components and external 'Sensors' and 'Human Sense' inputs. A circular logo with 'SEN' and 'SOC' is also present.</p>	<p>Social and sensor data streams integration via data mining and statistical analysis methodologies and practices utilized to communicate sensor measurements to the public (citizens, authorities, etc), while at the same time human sensing is utilized in order to improve IoT infrastructures. Design and develop applications (Web and/or mobile) which will leverage evolving data streams occurring in smart city contexts with emphasis on social networks interactions to capture wisdom of the crowds.</p> <p>SEN2SOC : Sensors talk and humans sense, FP7 SmartSantander experiment http://oswinds.csd.auth.gr/sen2soc/</p>
<p>A 3D visualization of a social network graph, showing a central blue node connected to several smaller white nodes, representing a network structure.</p>	<p>Cloud-based framework for social networks trends detection and analysis via real-time large-scale data clustering techniques, evolving social graph mining with tailored data preprocessing and cleaning. Emphasis placed on analyzing societal concerns and reaching consensus on collective decision-making via tailored web mining techniques which utilize the cloud infrastructure Venus-C to help address the challenges posed by data and time-intensive processes.</p> <p>Cloud4Trends : Leveraging the cloud infrastructure for localized real-time trend detection in social media, FP7 VENUS-C project on user-centric cloud infrastructure for Europe http://oswinds.csd.auth.gr/?page_id=1320.</p>
<p>A world map with a color-coded legend, likely representing sentiment analysis results across different geographical regions.</p>	<p>Social networks sentiment analysis & statistical processing with emphasis on affective and opinion mining. Aim to enhance the Web and mobile application with crowds emotions visualization capabilities, useful for capturing branding success & diffusion in the market (as expressed by the crowds emotions). Lexicon-based processing, knowledge extraction and scaling techniques, focused on microblogging (Twitter datasets, retrieved via the Twitter API) and extension to other social networking data streams.</p>