

InfinityDrive

Objective

During D2I-program, there was a need to create a highly integrable and interoperable platform, where data could be pushed and retrieved for analysis.

One of the objectives was the integration of different data sources and previously created Lassie-solution. The co-operation with University of Helsinki and Arcada in the D2I program presented a clear need for a single platform where data sources could push data and from which data could be sent to analysis to different services created by our partners (UH and Arcada)

Also a major objective was to experiment with lambda-architecture and micro services, which are essential to the whole D2I-concept from a computational viewpoint.



Result



The result of this work was a solution named "Infinity Drive".

The work started with evaluation of tools and initial integration of different data sources. Then different analysis tools and services were gradually integrated into the platform. Also different presentation and visualization tools were created to take advantage of the platform.

How it works

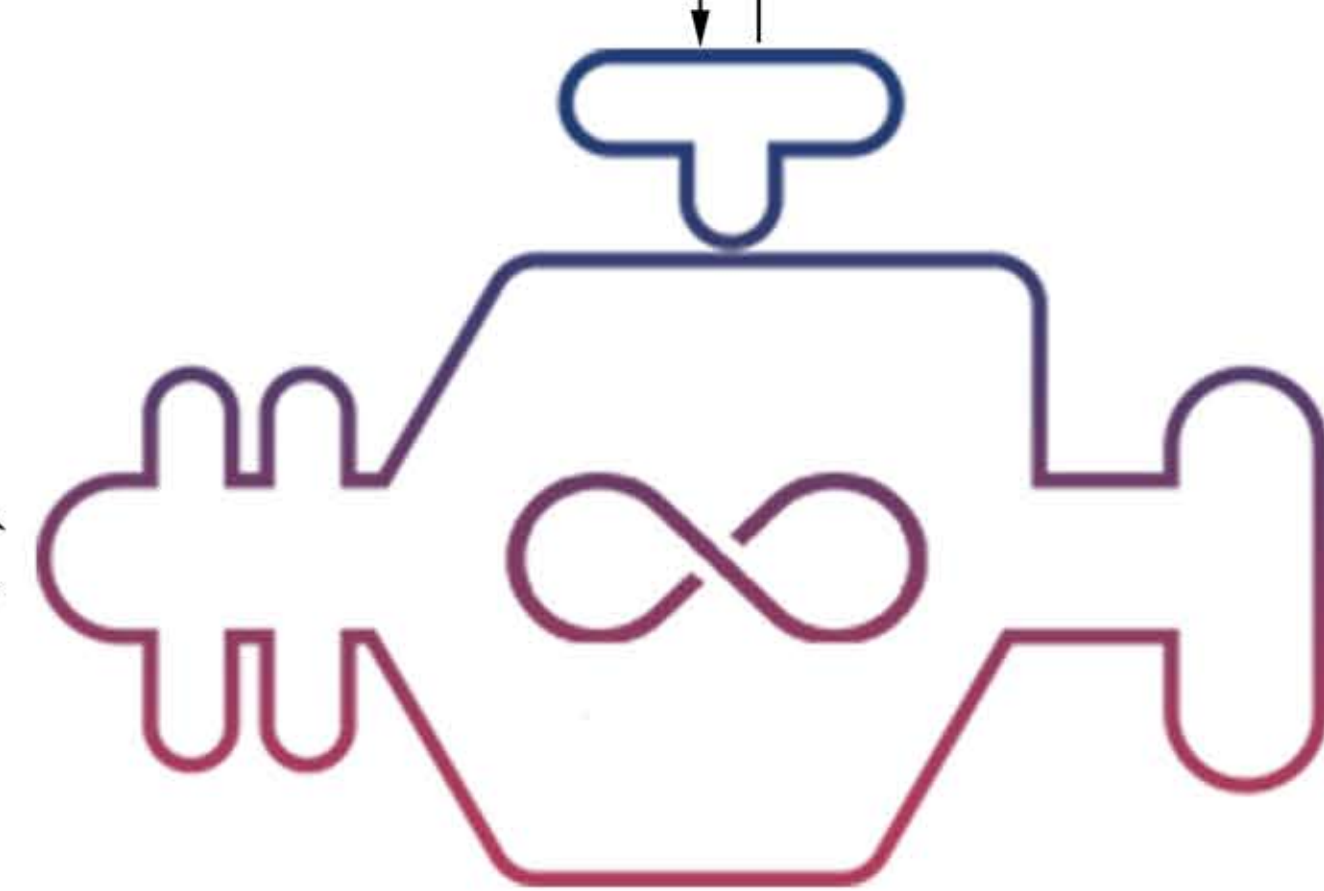
News sources
(Yle, MTV, KSML)

UH Alert Service
(Traffic alerts, accidents..)

Other additional sources
(Social media..)



Analytical services
"Data-to-intelligence", NER,
Connections, Keywords



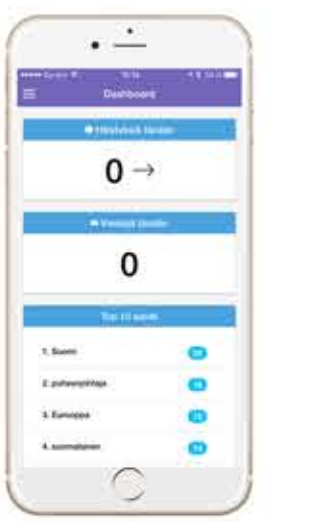
Alerts

Lassie Situational
Picture



Alerts

Alertr Mobile App

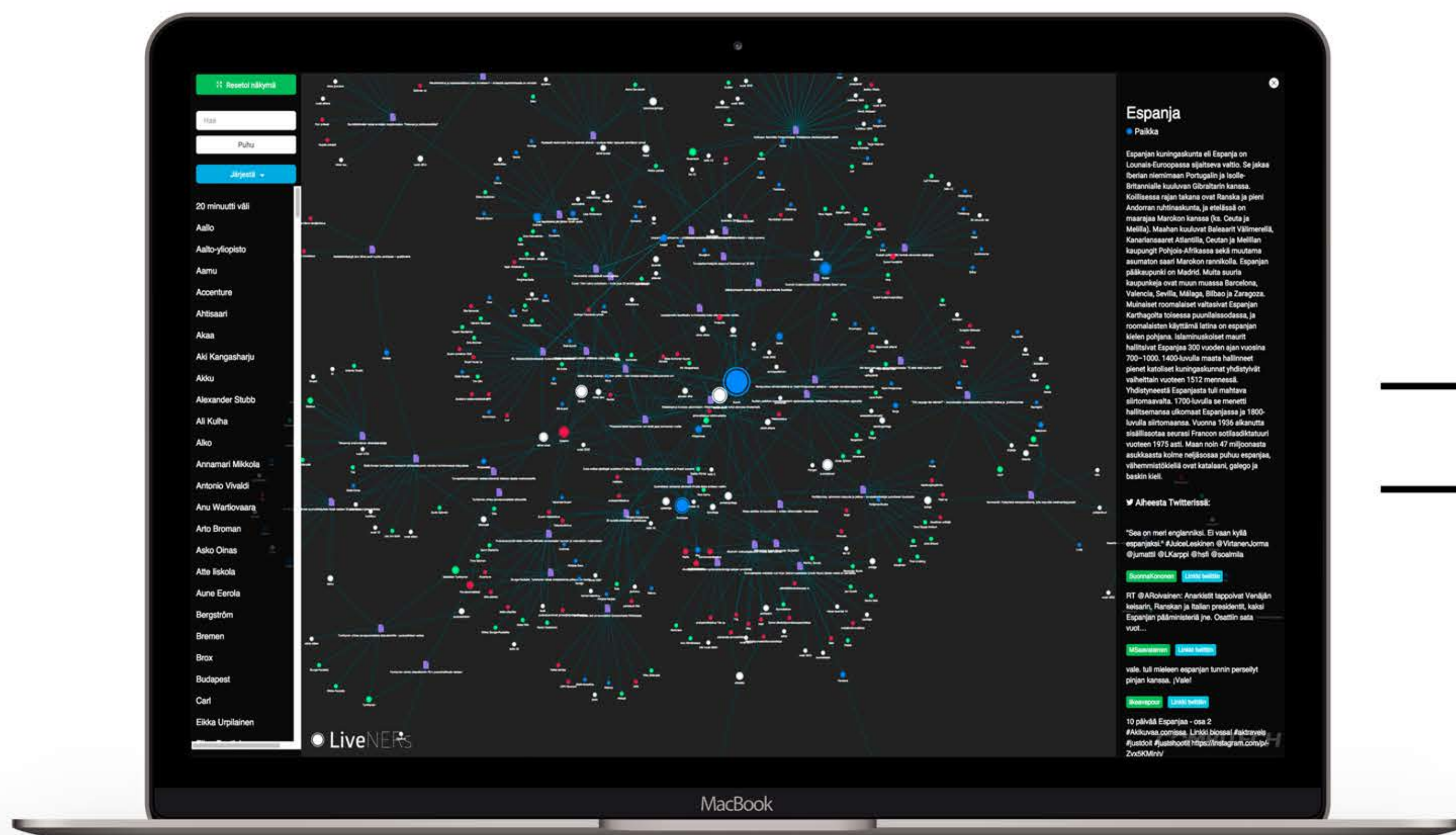


Visualizations

Web apps,
commercial expert solutions



LiveNERS - an example visualization



LiveNERS is an advanced visualization of news articles collected by Infinity Drive. The system uses advanced analytics service created by University of Helsinki to identify Named Entities in the collected articles. These entities are then identified, linked to each other and enriched with data from Wikipedia and current news from Twitter.