MULTISENSOR
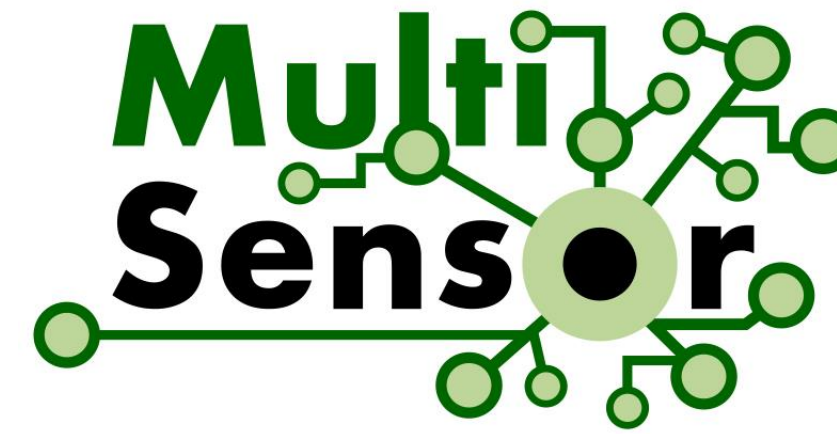## Mining and Understanding of multilinguaL contenT for Intelligent Sentiment Enriched coNtext and Social Oriented inteRpretation

Overview

MULTISENSOR envisages:

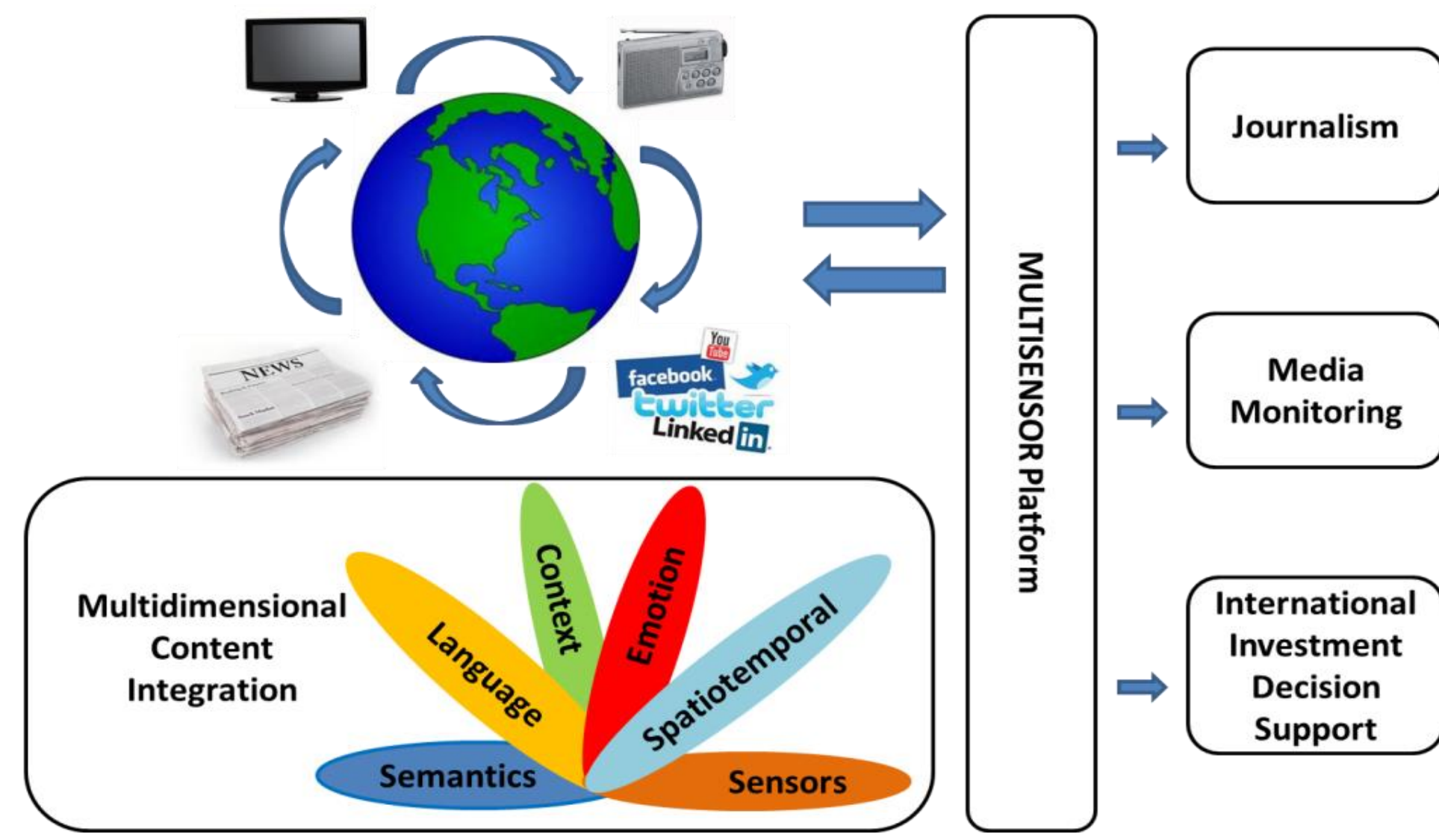⇨ Multidimensional Content Integration by considering the following dimensions:

- Language, multimedia, semantics, context, emotion, time & location

⇨ Development of a platform for content integration from several sources

Challenges

⇨ Data are multimodal, unstructured and contain duplicate/complementary information

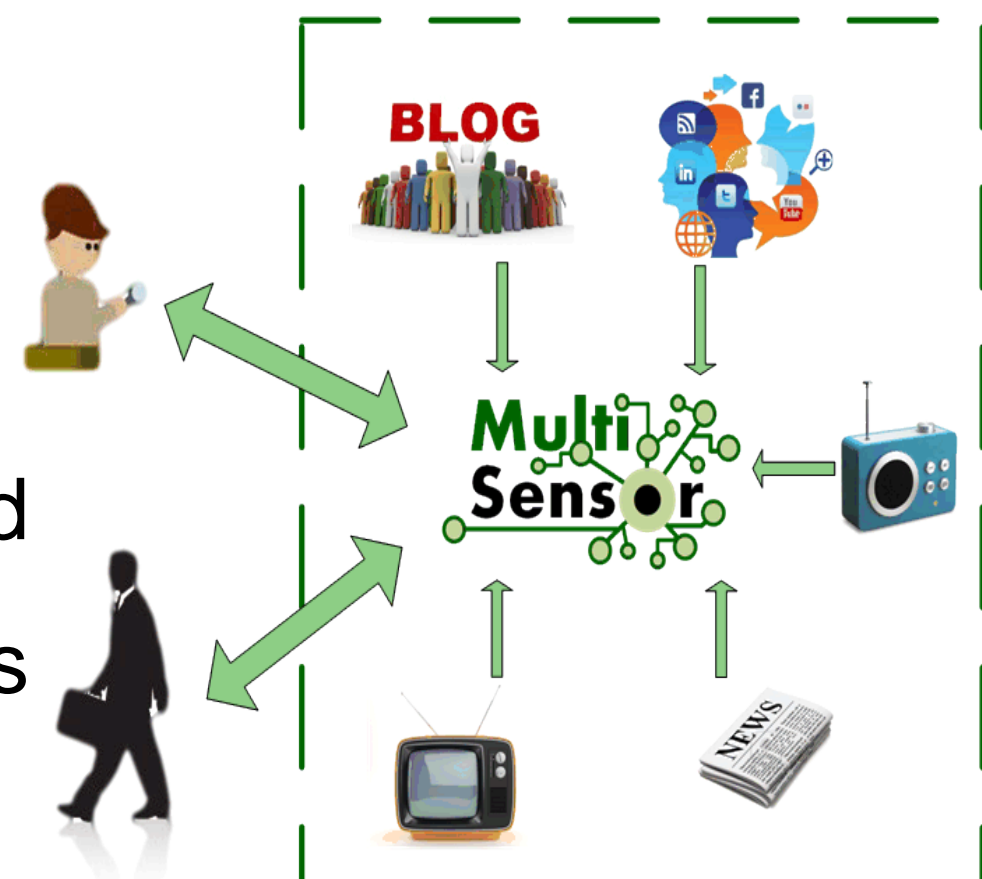⇨ Vast amount of user generated content (social media, blogs)

Use Cases

Use Case 1

Users

⇨ Journalists

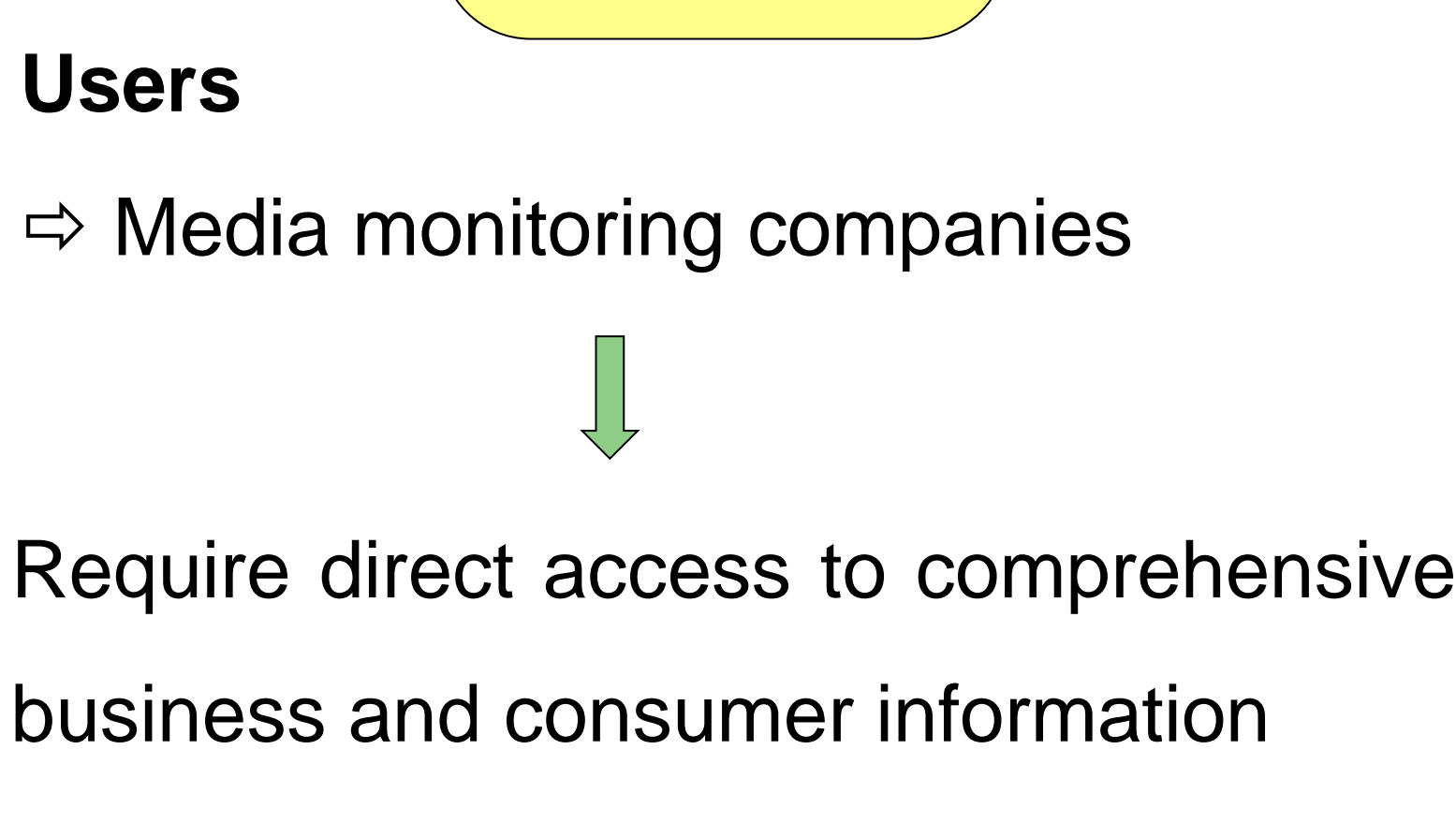Support in analysis, retrieval and summarisation of heterogeneous and multilingual information

Use Case 2

Users

⇨ Media monitoring companies

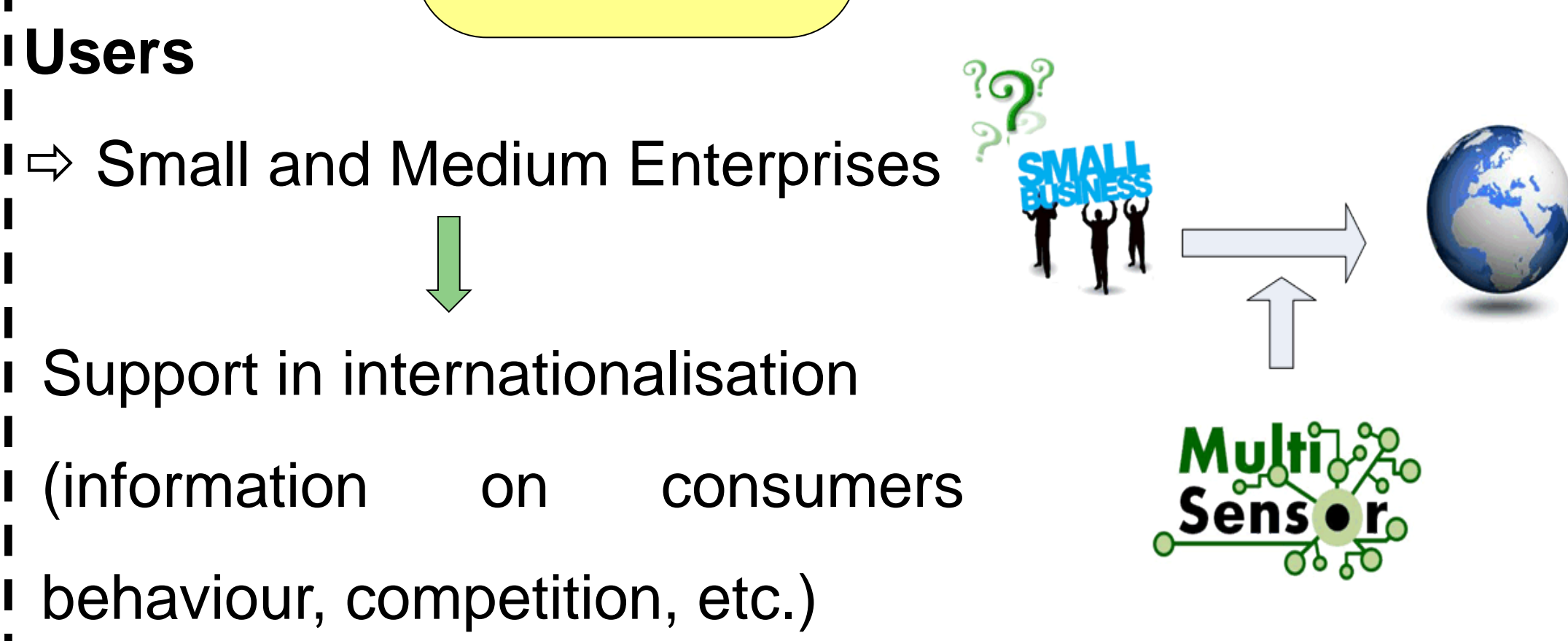Require direct access to comprehensive business and consumer information
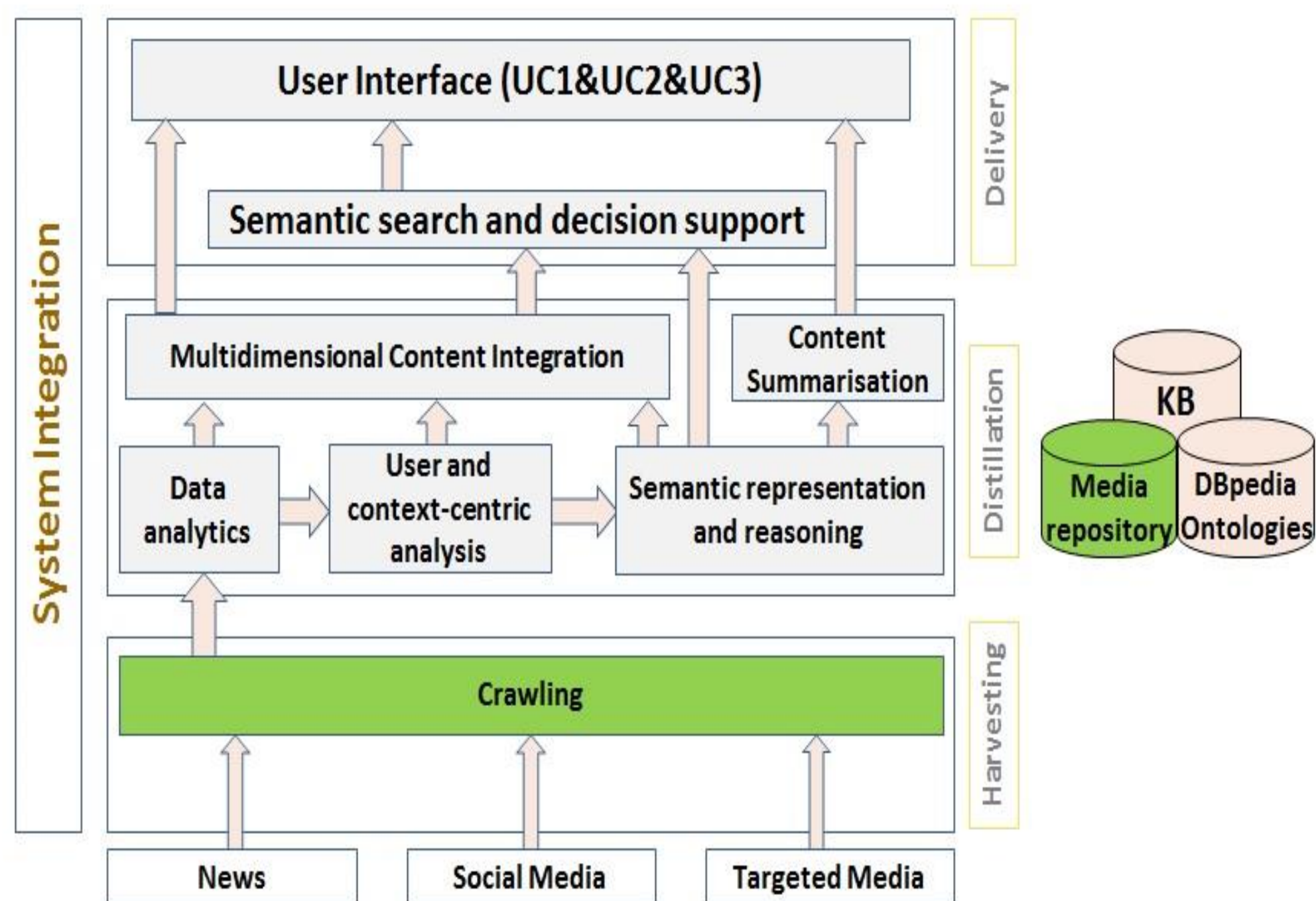
Use Case 3
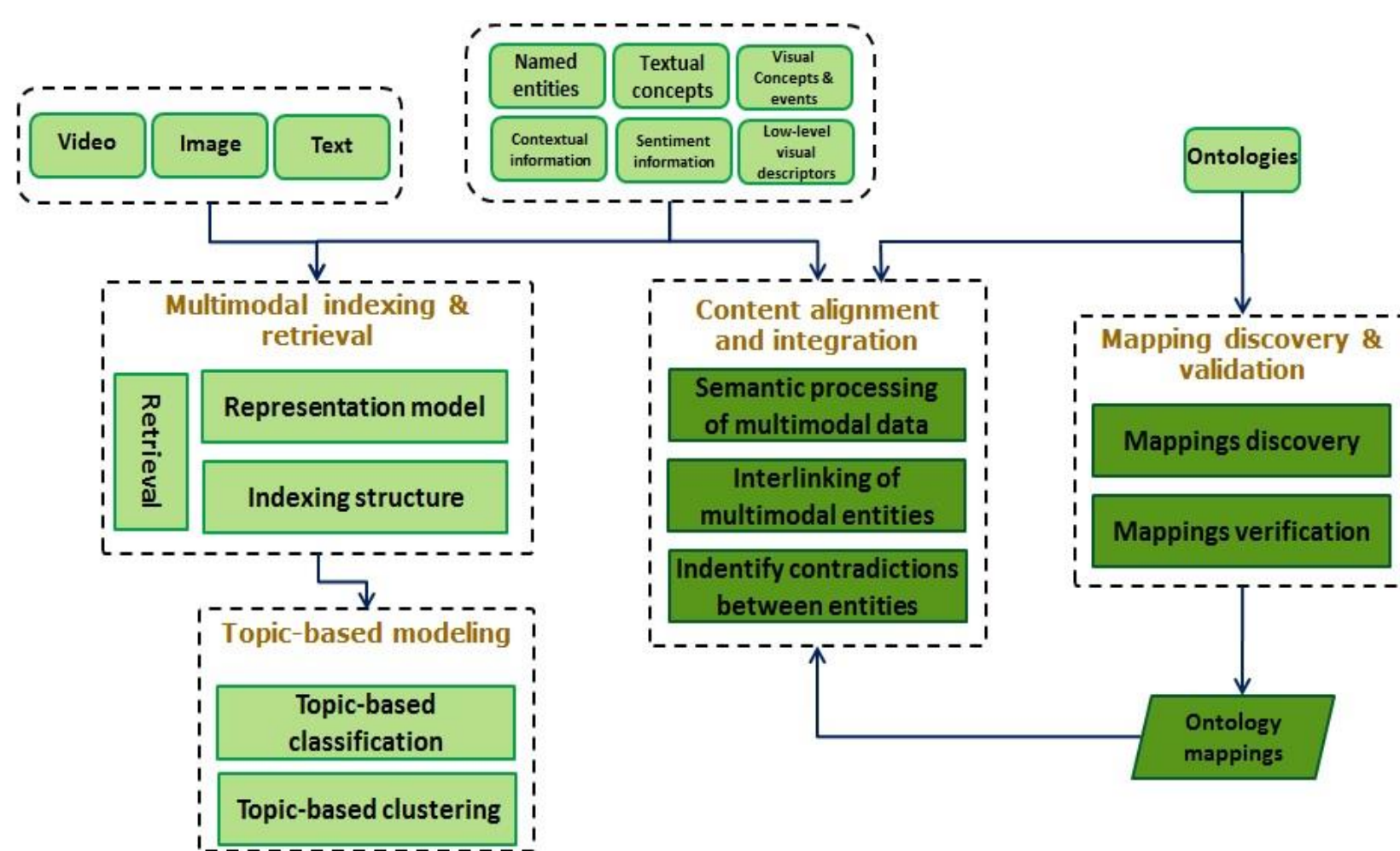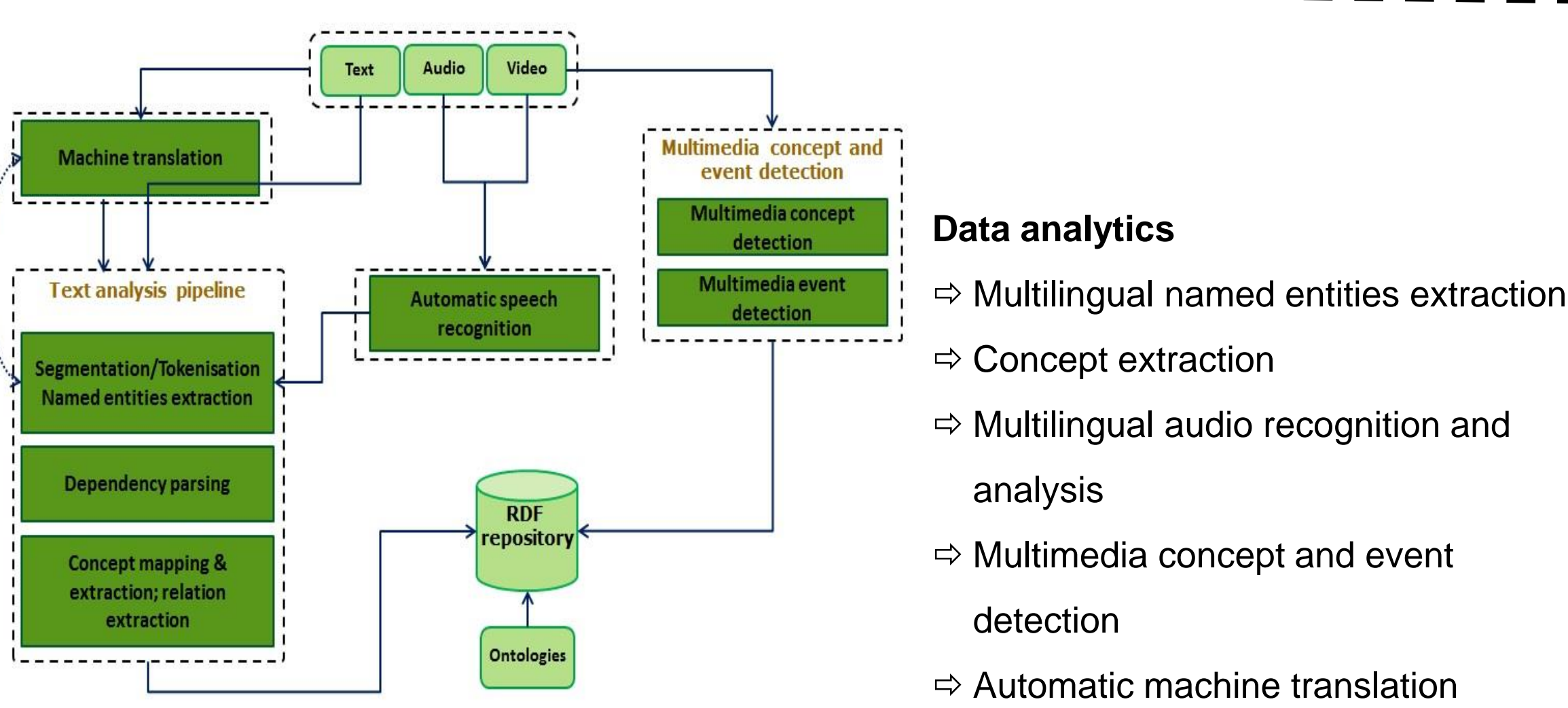
Users

⇨ Small and Medium Enterprises

Support in internationalisation (information on consumers behaviour, competition, etc.)
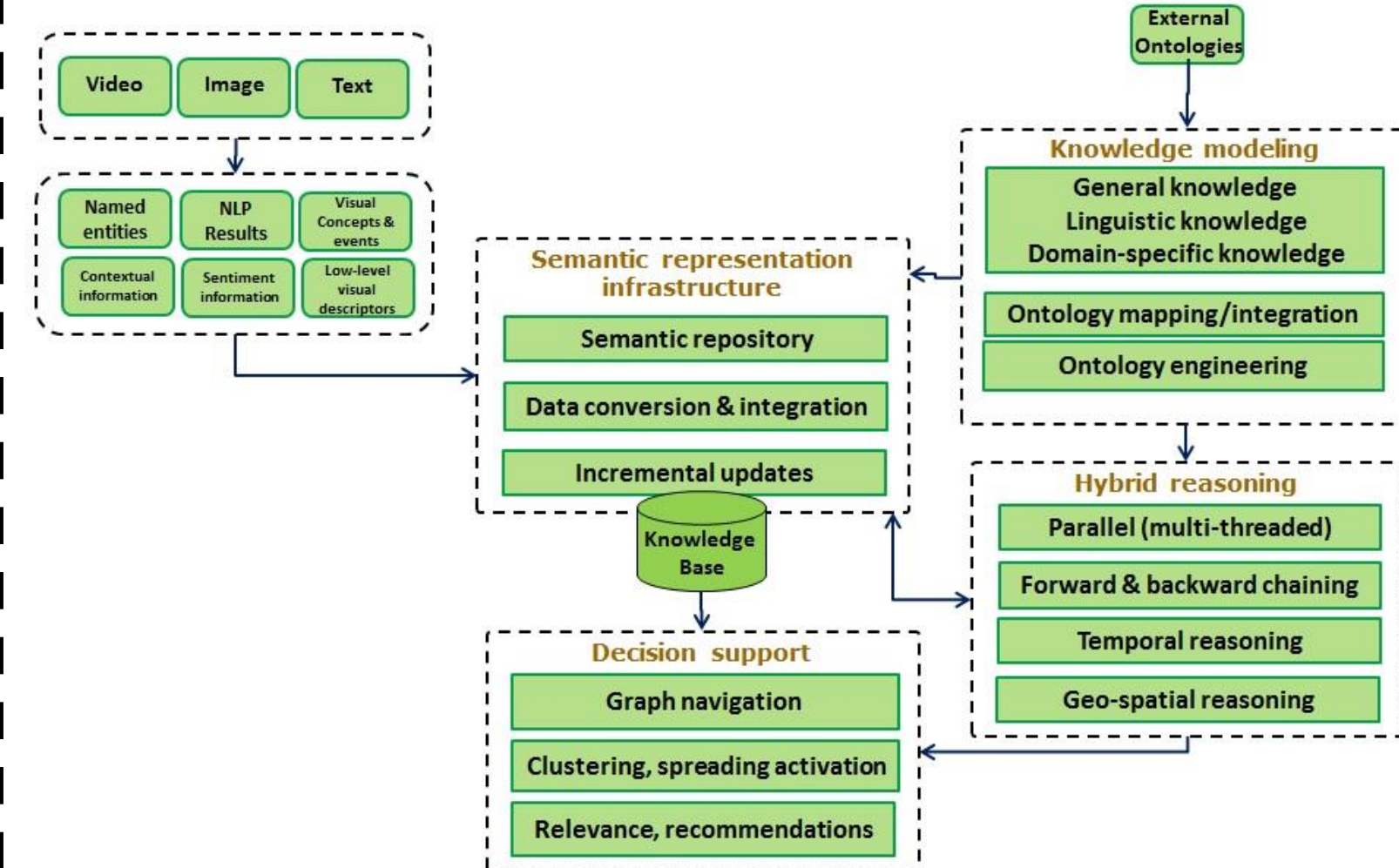
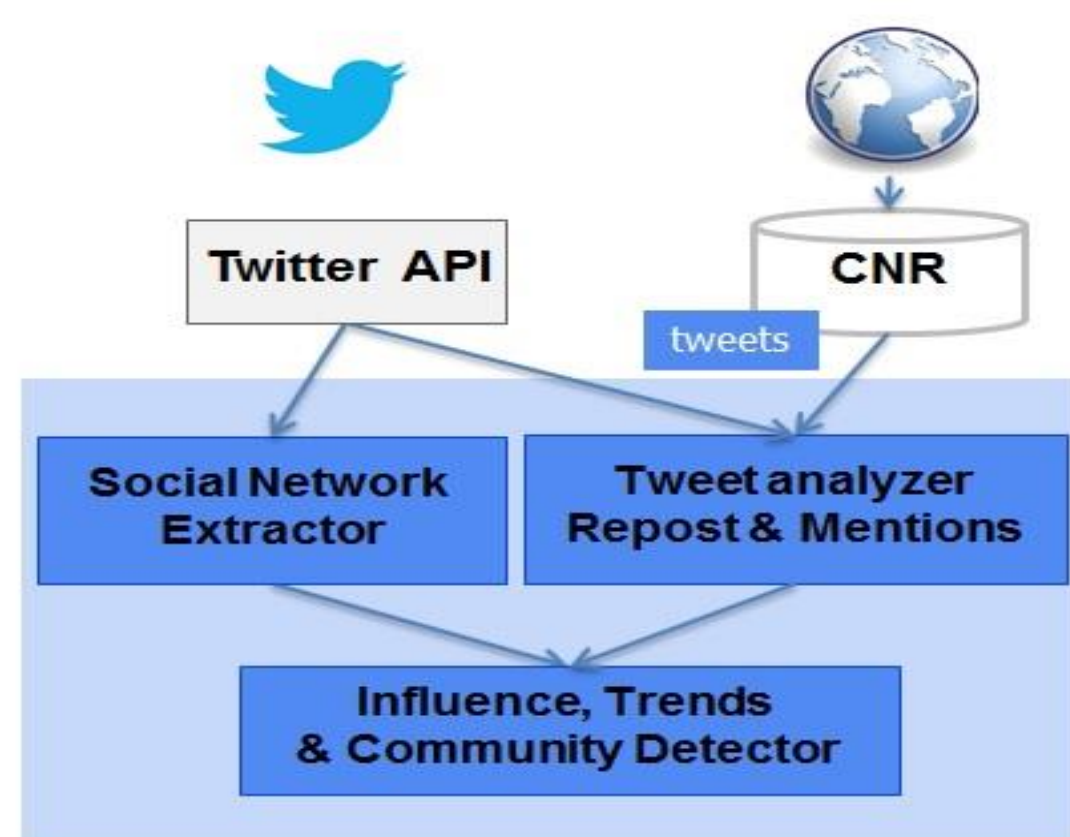## Multimodal data analytics framework

MULTISENSOR framework

Multidimensional content integration
⇨ Multimodal indexing / retrieval
⇨ Category-based classification
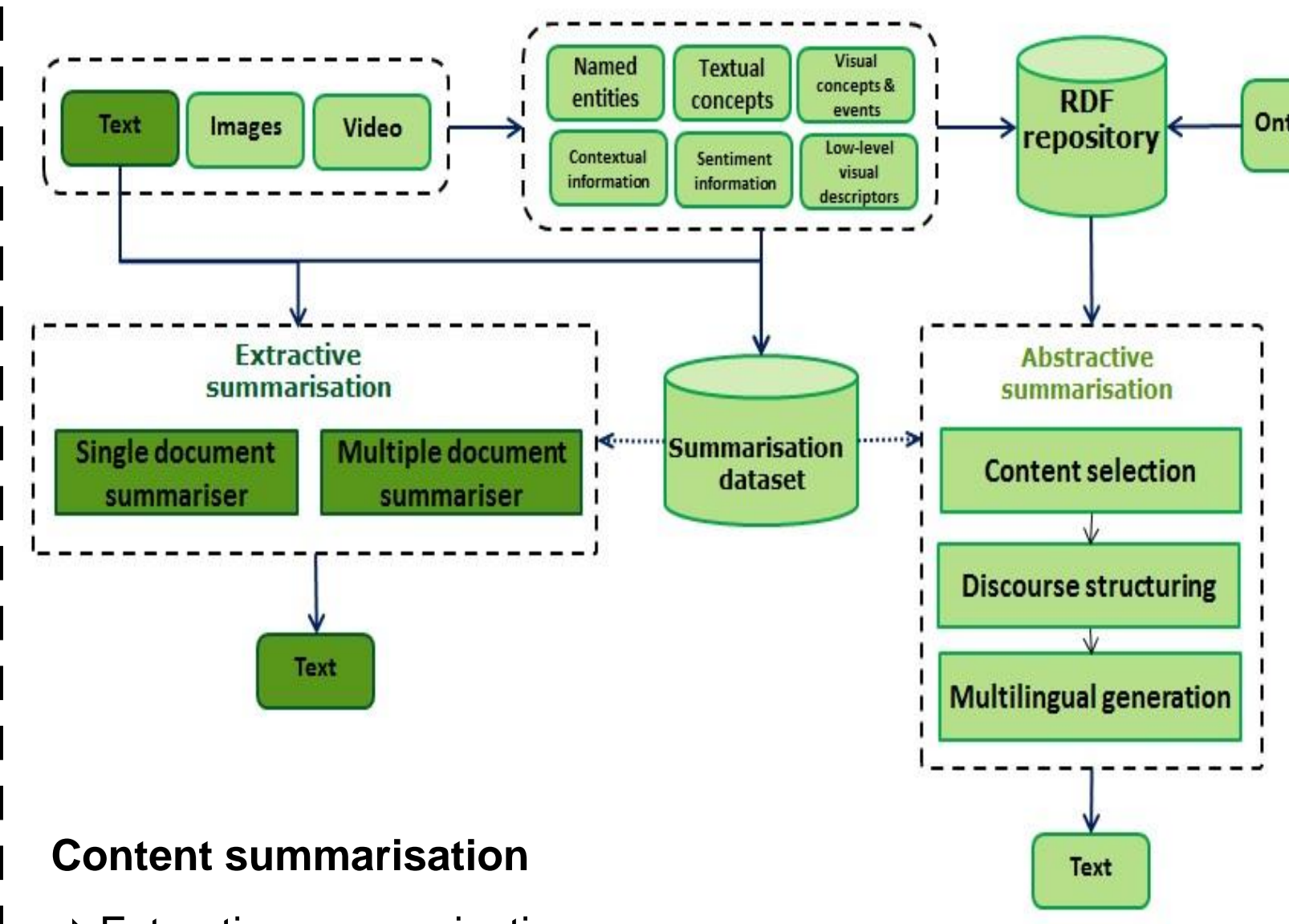⇨ Topic-event detection

Semantic representation and reasoning
⇨ Semantic representation
⇨ Ontology / content alignment
⇨ Hybrid reasoning and decision support

Data analytics
⇨ Multilingual named entities extraction
⇨ Concept extraction
⇨ Multilingual audio recognition and analysis
⇨ Multimedia concept and event detection
⇨ Automatic machine translation

User and context-centric analysis
⇨ Contextual features extraction
⇨ Polarity and sentiment extraction
⇨ Contributor analysis

Content summarisation
⇨ Extractive summarisation
⇨ Abstractive summarisation

Impact / Outcome

Impact

⇨ Strong participation of private-sector players (mainly SMEs)

⇨ Facilitate production of reliable information

⇨ Facilitate companies decision for investments in unstable ground

⇨ Improve European position in multilingual digital market

Outcome

⇨ MULTISENSOR platform

⇨ Modules and services for several tasks (machine translation, sentiment extraction, multimodal indexing, decision support,, etc.)

⇨ Open-source, free and commercial modules

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