

## ICU#3 – Method, raw clusters and reference list

### 1. Method

1. This ICU is based upon a semantic analysis of about 10 000 articles from international Press Agencies, newspapers and specialised journals, collected from June to 15 November 24 2008. By definition, all results presented are 'as of' the period concerned.

2. In addition to Press Agencies News and to specialised journals, the newspapers are the most important ones of about 20 countries: China, Denmark, France, Germany, India, Indonesia, Ireland, Israel, Italy, Japan, Korea, Russia, Spain, Sweden, Swiss, Taiwan, Turkey, UK and the US. On the whole, about 65 sources were monitored for this ICU.

3. The articles are collected because they contain root word: "innovat\*".

4. To deal with open innovation and IPR, we have chosen "IPR" as a departure point (all the articles contain "innovat-", precisising it with words that express a notion of "openness":

- The primary selection of texts contains all documents with IPR, i.e. 312;
- This selection was 'cleaned up' from irrelevant documents (either 'management litterature' or 'companies financial results'), so that only 208 documents remained.
- In this selection, we chose to pick only those with common characteristics of open innovation (cf. Chesbrough et al.), i.e. aca\*, universit\*, network\*, partner\*, collaborati\*, cooperati\* or participati\*.

- In the end, the document base on which the semantic cluster analysis was carried out contained: 169 documents.

### 2. Clustering

**Cluster 1:** technology, innovation, patent, sector, company, industry, research, development, product, business (61 documents)

**Cluster 2:** Microsoft, IBM, Cisco, Lenovo, Google, YouTube, World Bank, SAP, Nokia, Nuance Communications (49 documents)

**Cluster 3:** GlaxoSmithKline, Novartis, Ranbaxy, Ibsa, EBTIC, Celgene, Pfizer, Biocon, Etisalat, Lupin (36 documents)

**Cluster 4:** Basf, trial, protection, strategy, system, future, public, Philips Innovation Campus, tie-up, climate (22 documents)

(NB: 1 document remained unclassified).

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