



Dr. Wälti AG
Institut für angewandte
Mathematik, Statistik, Informatik

Location: Buchs SG

Foundation: 1981

Subsidiary Firm: InfoCodex SA



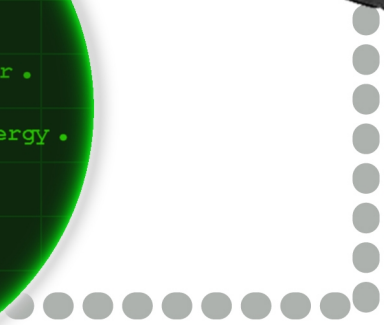
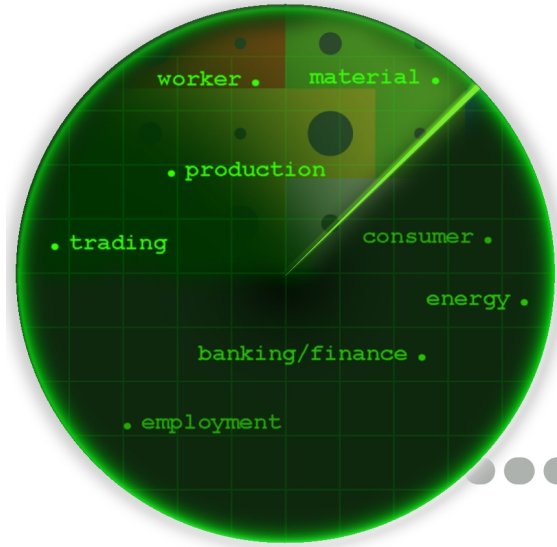


i-expo award 2006 in Paris for:

**The best and most innovative
Economic Intelligence tool**

1. Information Research

- Attain an overview
- Enhancement to internet search engines
- Thematic radar



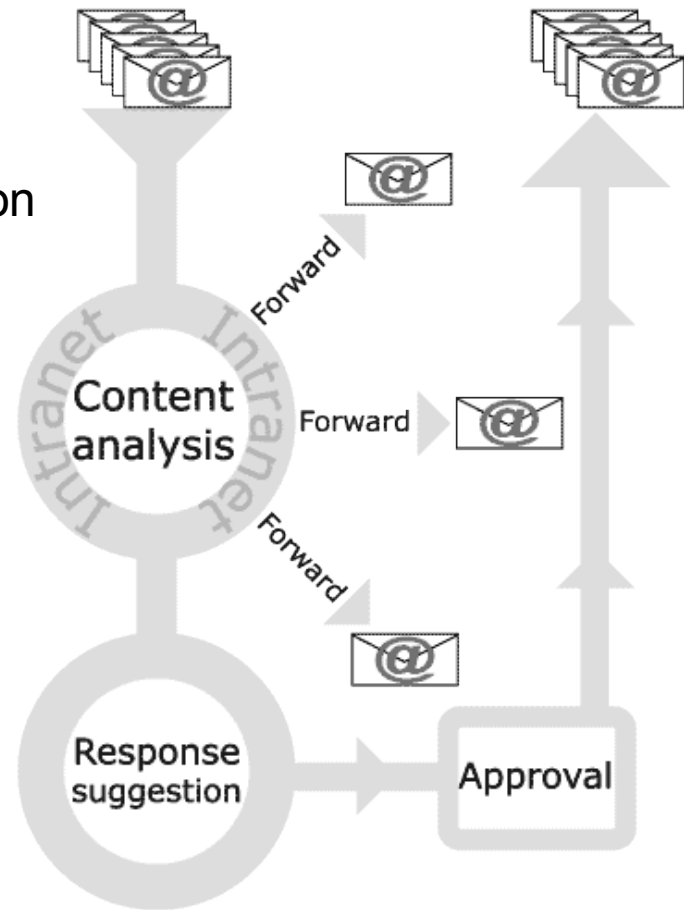
2. Exploit Company Internal Knowledge

- What is where
(automatic shelving of documents into well organized categories)
- Coordination of knowledge resources
- Company internal search engine

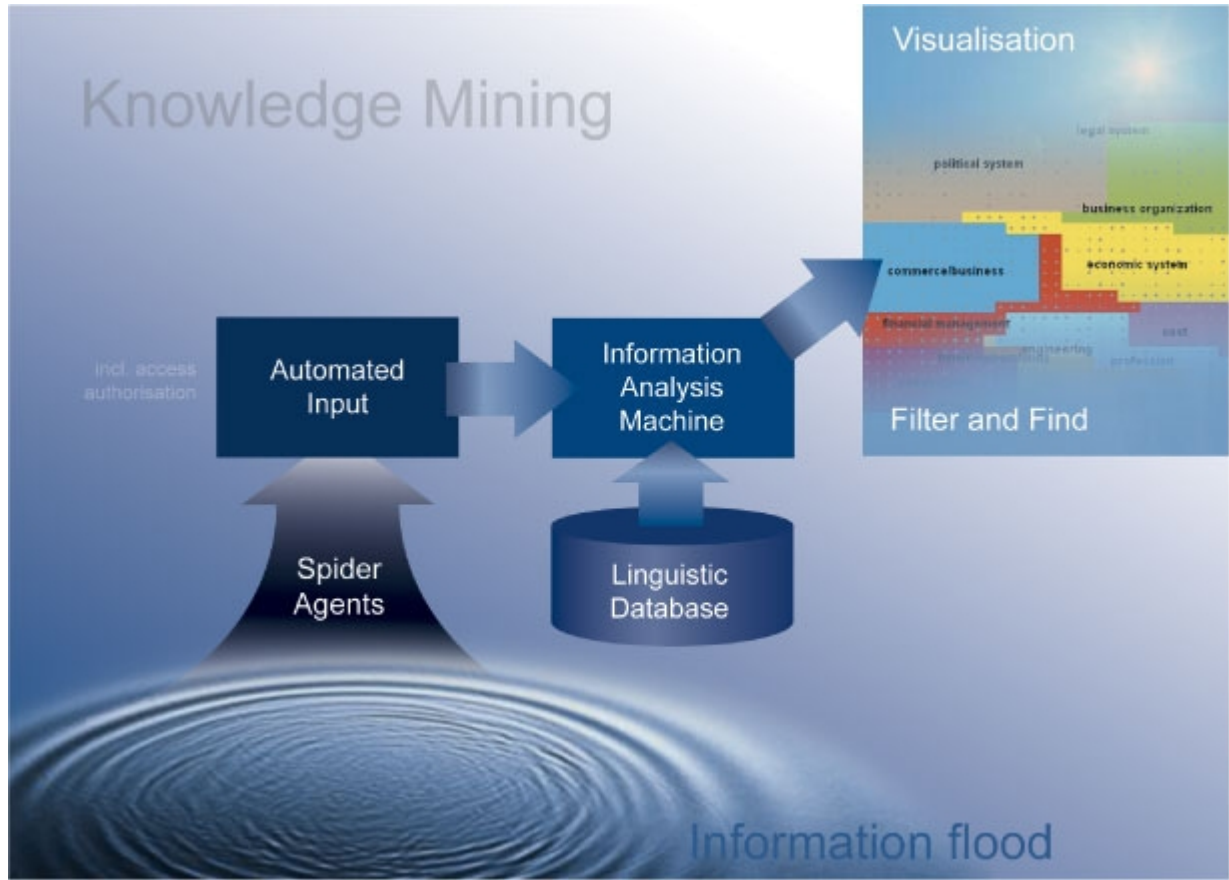


3. Process Automation

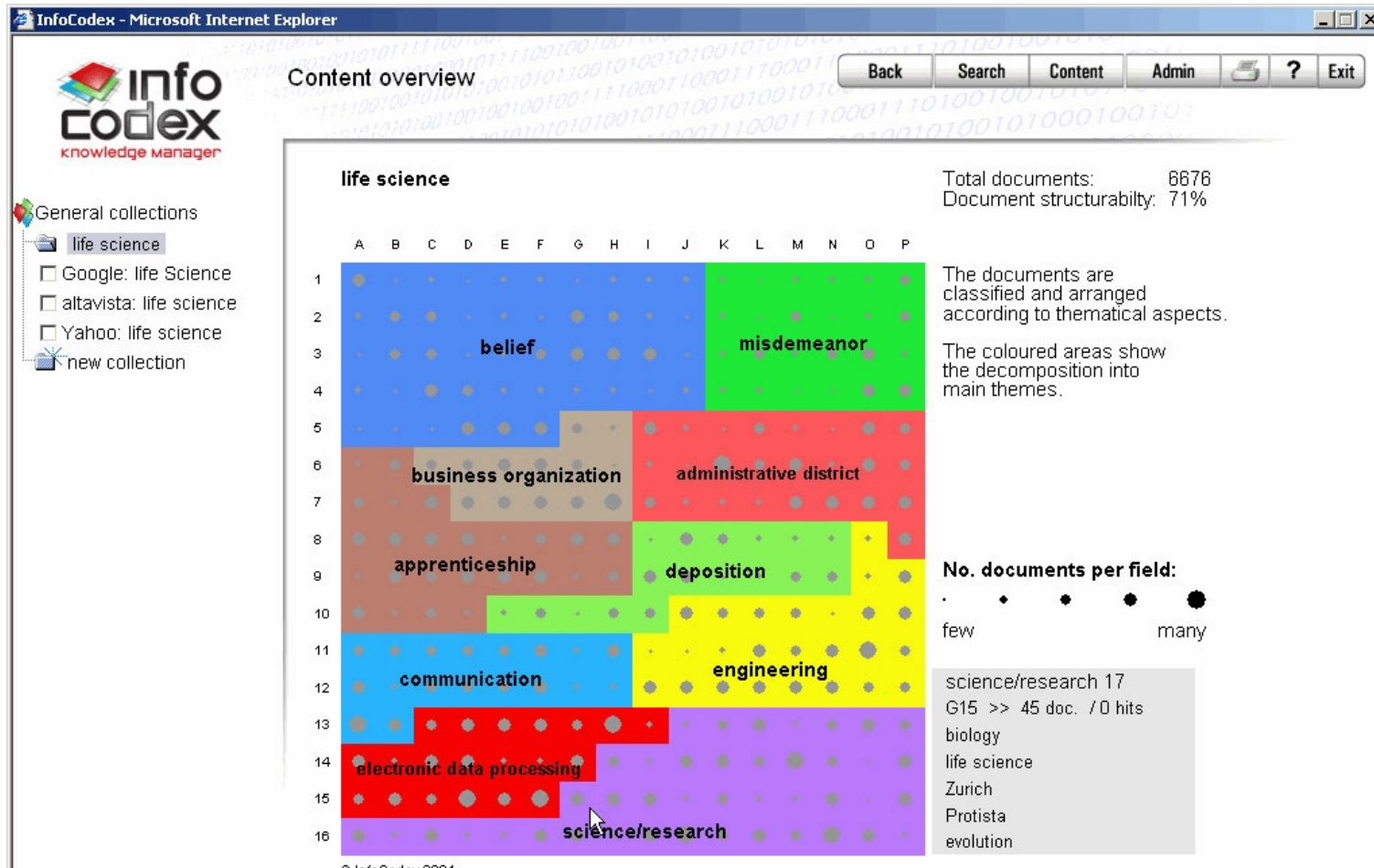
- Content analysis → categorization
- E-mail forwarding
- Response management



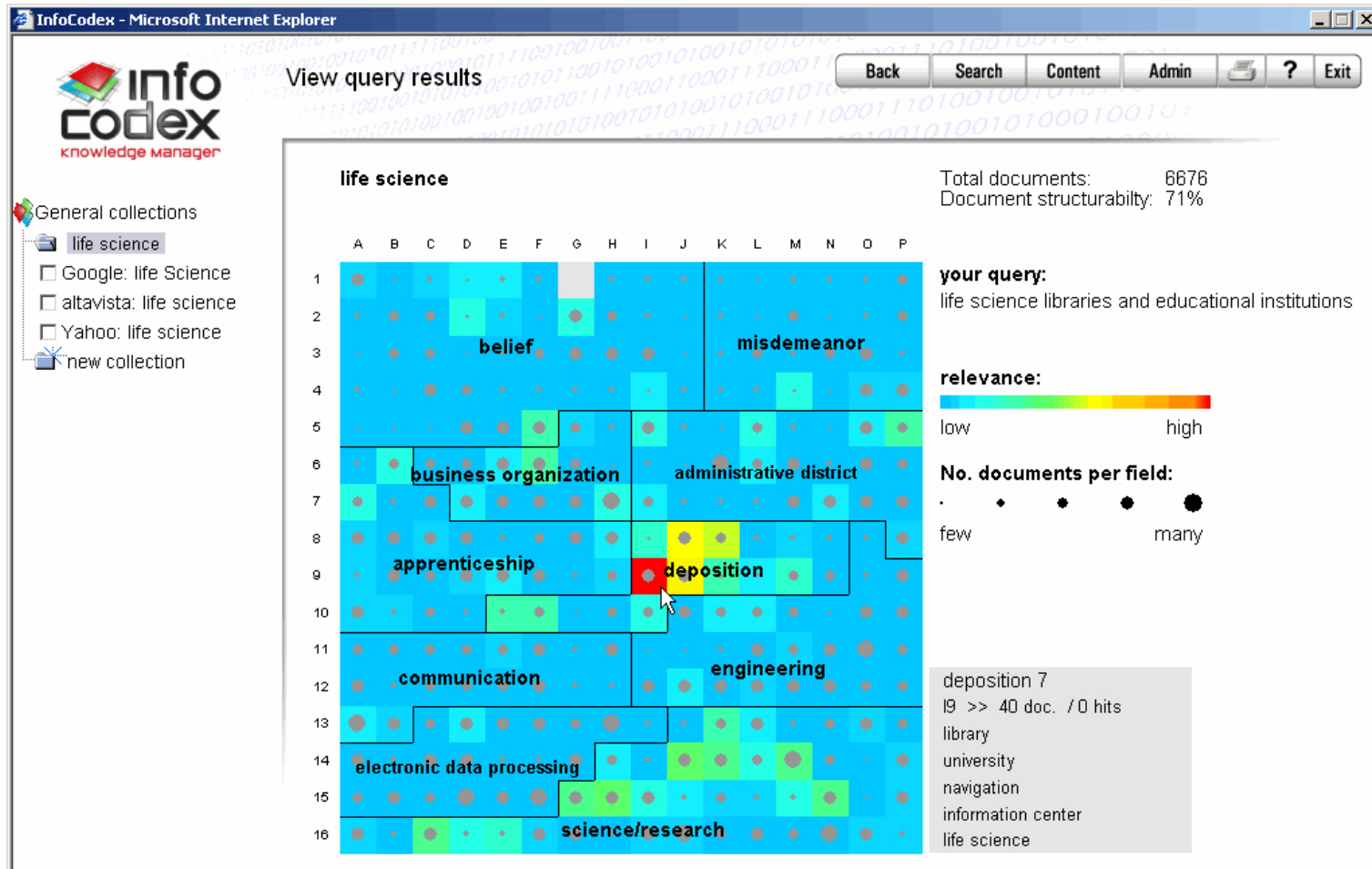
Technology



- Categorization of documents without any training
- Graphical overview over the whole collection



■ **Heat-map representation of search results**
(essential aid in the case of large result lists)



- **Recognition of content:**

Linguistics + taxonomy + statistics + neural networks

- **Combination of languages:**

English + French + German + Italian

- **Search possibilities:**

Traditional full-text search
Synonym search
Similarity search
Index search

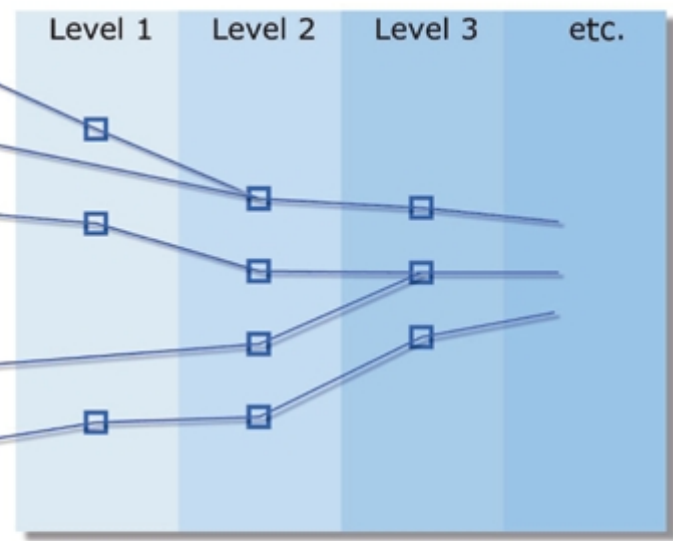
Detailed list of words

- benignity
- benignancy
- kindness
- eye blink
- nictitation
- winking
- blinking
- check **X**
- bank check
- cheque
- enrollment
- enrolment
- registration
- despatch
- dispatch
- communique
- Berne
- Bern
- Swiss capital
- ...

Word Groups
(Synonyms)

- ...
- kindness
- ...
- nictitation
- ...
- cheque
- ...
- registration **X**
- ...
- dispatch
- ...
- Bern
- ...
- object **X**
- ...

Hypernyms
(if applicable)



Simplicity

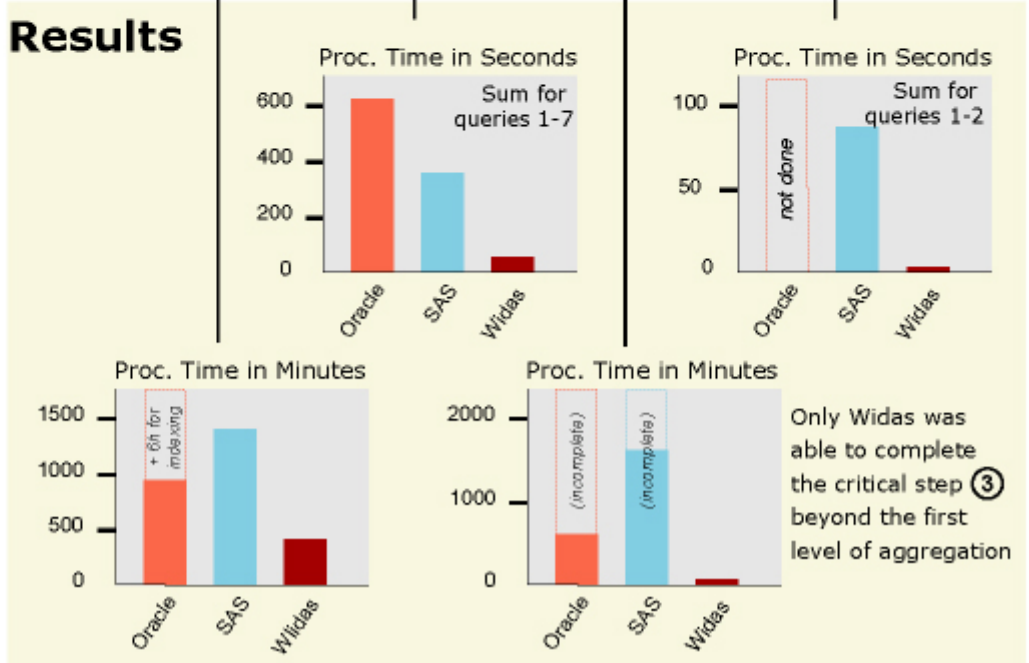
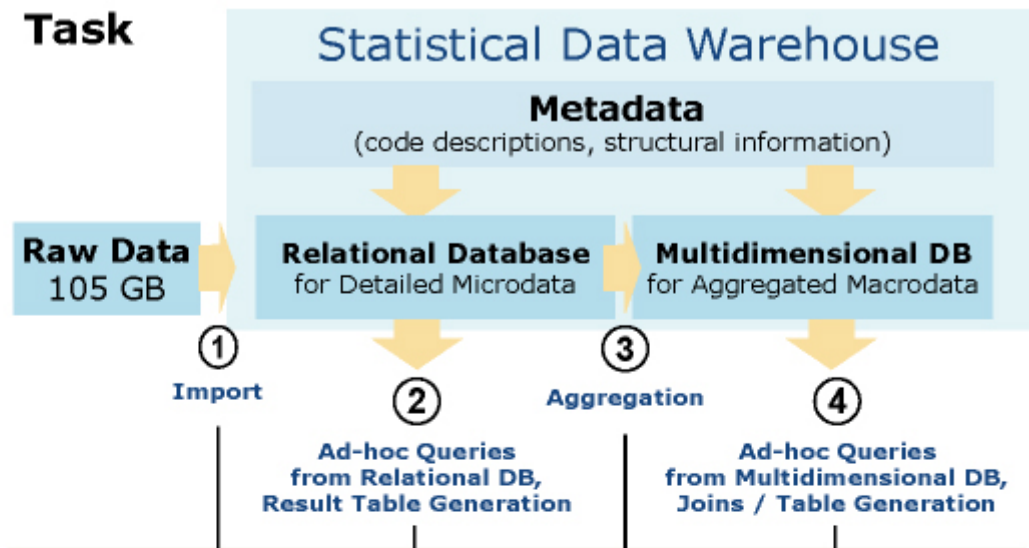
Quality

Performance

- Based on the benchmark-winning WIDAS system
- Accurate categorization of millions of documents



Benchmark of the SF50



Unique features of InfoCodex

InfoCodex is the only system having a multilingual knowledge repository (linguistic database linked to a taxonomy tree).

The projection of documents onto a customized content space for the deployment of self-organizing neural networks is patented in Europe and the USA.

Resulting Benefits

immediate use

categorization of documents without any human training

synonym recognition

true cross-language retrieval

similarity search

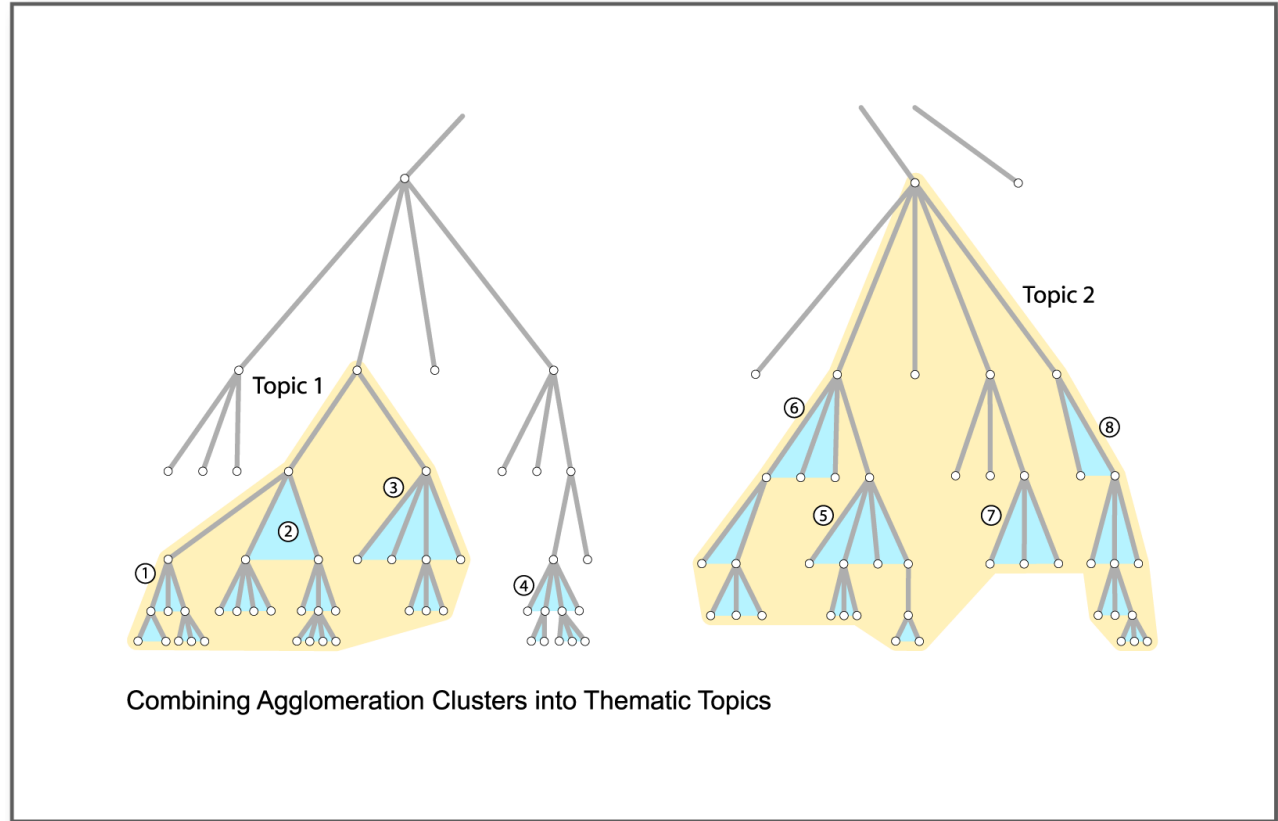
find documents similar to an incoming paper (e.g. Email)

topic clustering

essential aid in the case of large search result lists

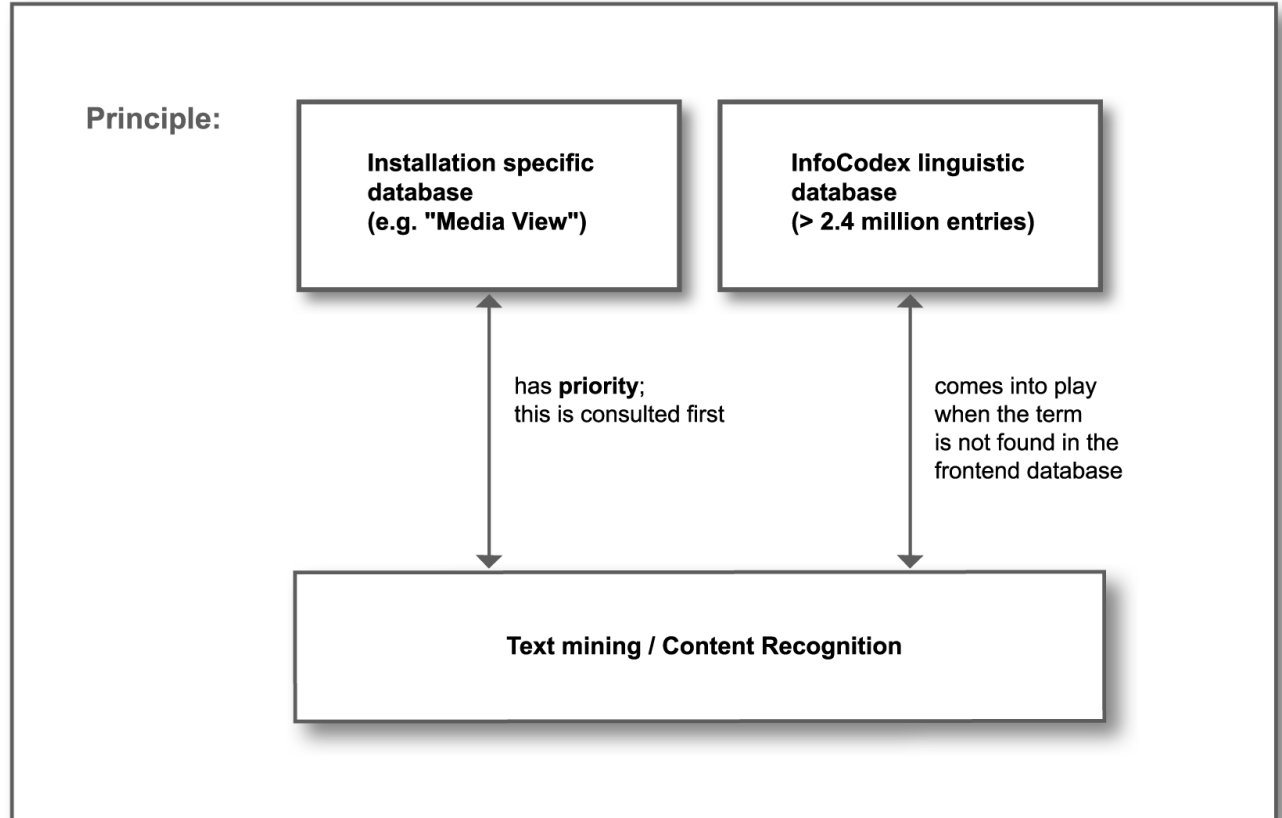
Technology

Thematic Grouping of Documents



Technology

Customer Specific Vocabularies (Thesauri)

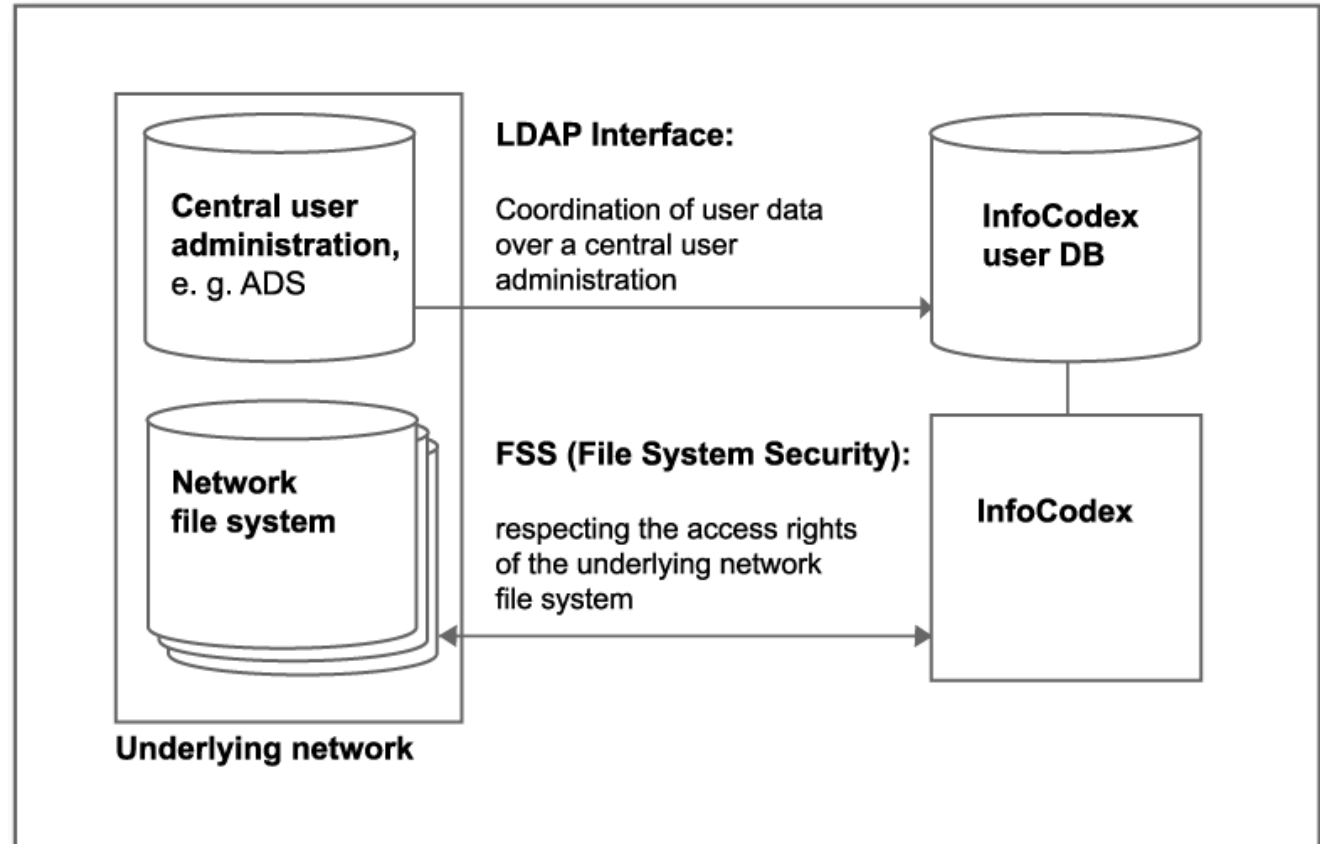


Preparation of Customer Specific Vocabularies

Vocabulary.xls						
A	B	C	D	E	F	
1	Vocabulary.xls					
2	Words/Terms for the Frontend Database					
3						
4	Grp.	Lang	Type	Sig	Word/Collocated Term	Hypernym
5	No.	age		nif.		(English)
6						
7	102	e	1	2	coinsurance	insurance
8	102	e	1	2	co-insurance	
9	102	d	1	2	Mitversicherung	
10	102	f	1	3	assurance additionnelle	
11	102	f	1	2	coassurance	
12	102	i	1	2	coassicurazione	
13						
14	105	e	1	3	underground economy	economic structure
15	105	e	1	3	black economy	
16	105	e	1	3	informal economy	
17	105	e	1	3	shadow economy	
18	105	e	1	3	twilight economy	
19	105	e	1	3	counter-economy	
20	105	e	1	3	grey economy	
21	105	e	1	3	submerged economy	
22	105	e	1	3	unofficial economy	
23	105	d	1	3	Schattenwirtschaft	
24	105	d	1	3	Untergrundwirtschaft	
25	105	d	3	2	schattenwirtschaftlich	
26	105	f	1	3	économie souterraine	
27	105	i	1	3	economia sommersa	

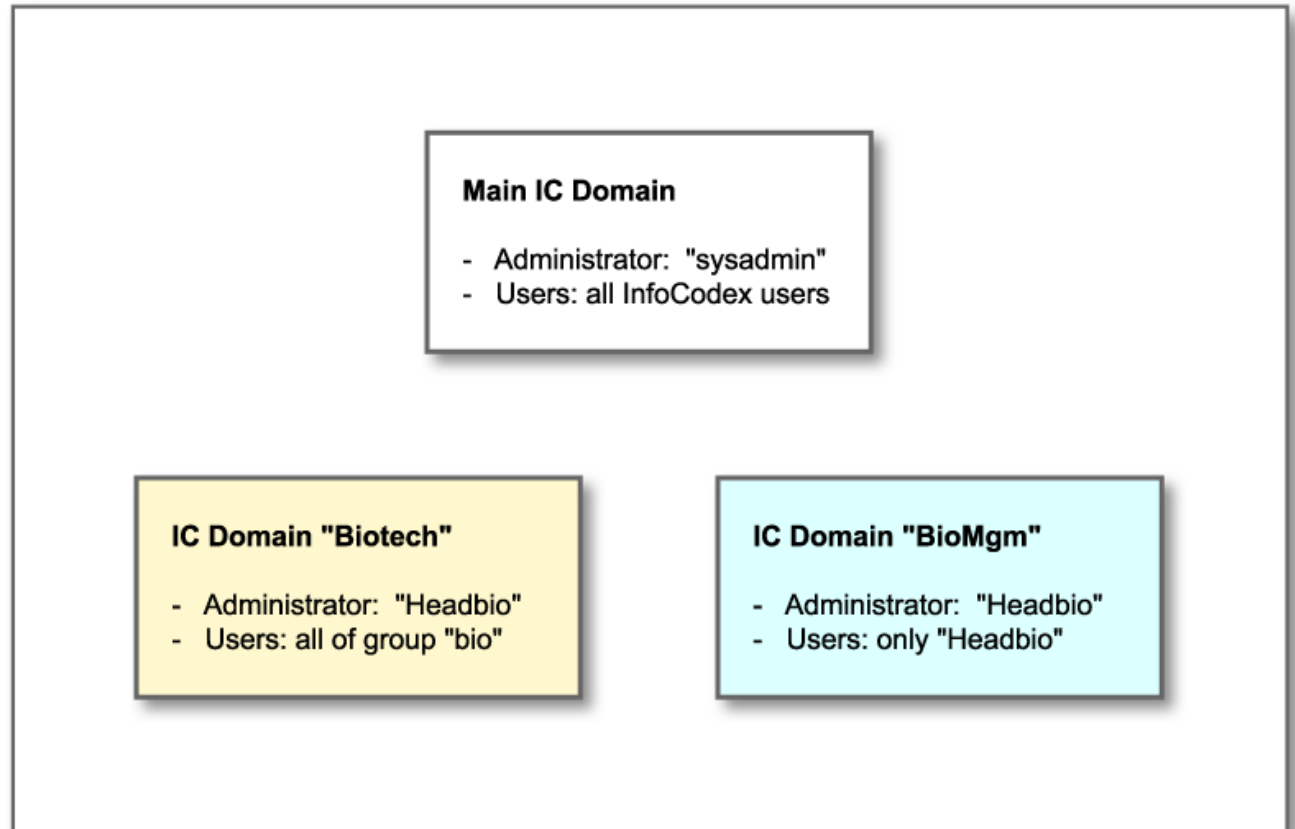
Security

LDAP Interface and File System Security

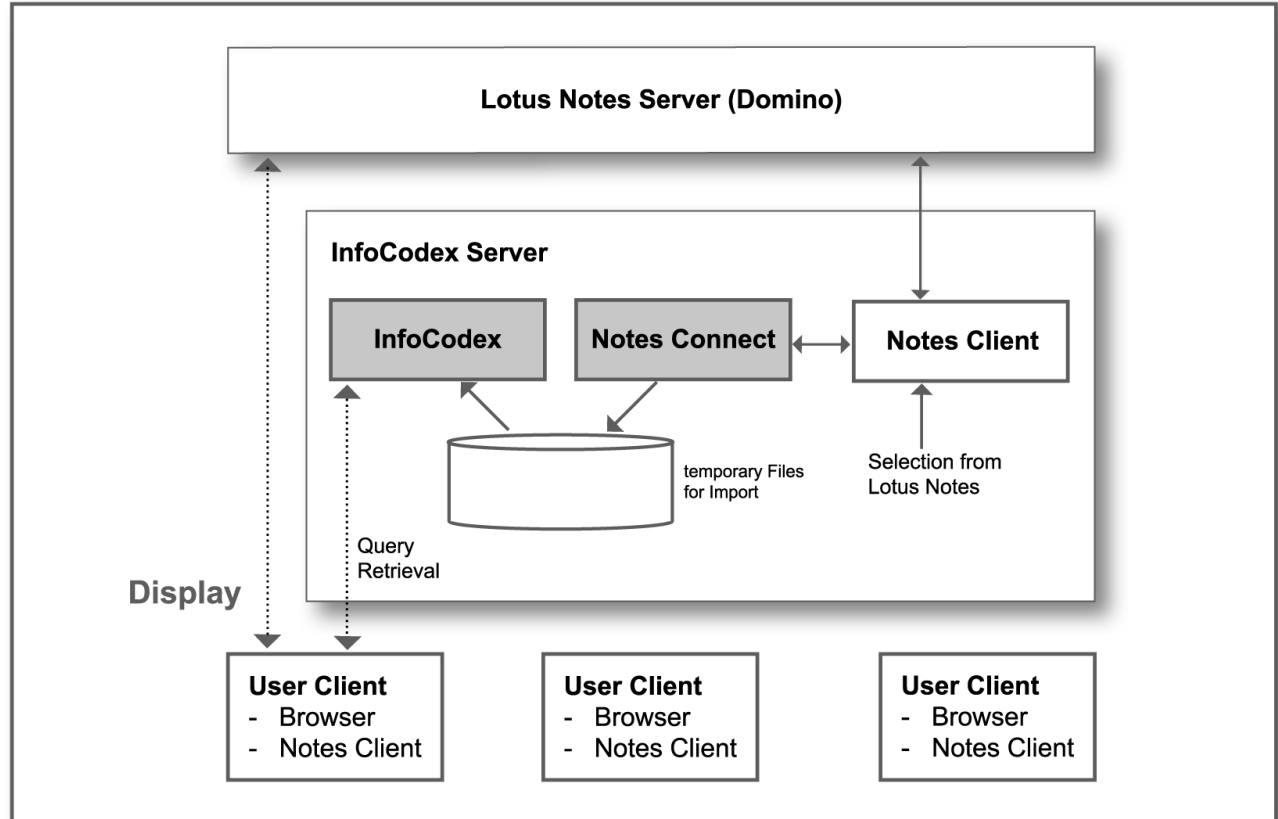


Security

Protected Regions / IC Domains



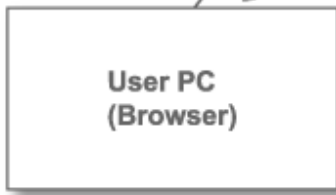
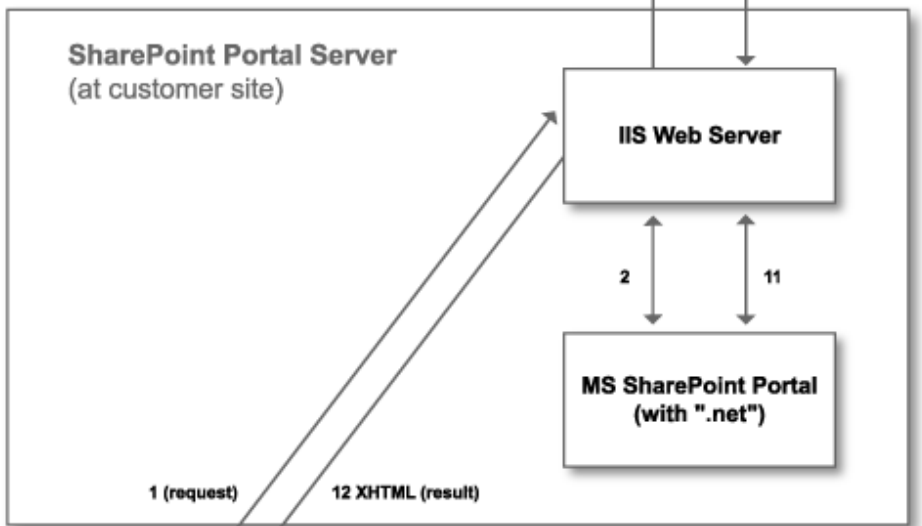
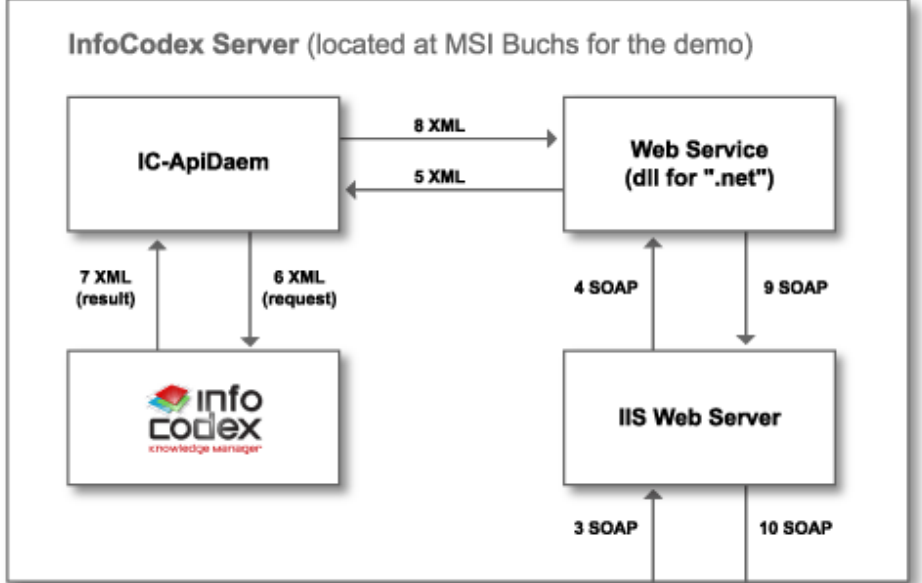
Interface to Lotus Notes





Integration

Integration into MS-Sharepoint



Files to be installed in the WebRoot directory on the SharePoint Portal Server:

- icwstst.aspx,
- icwstst.aspx.cs
- bin\icapiws.dll