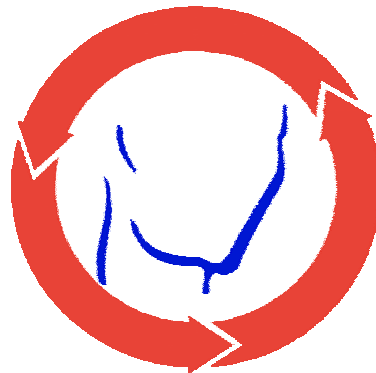


Semantic Markup & Annotation

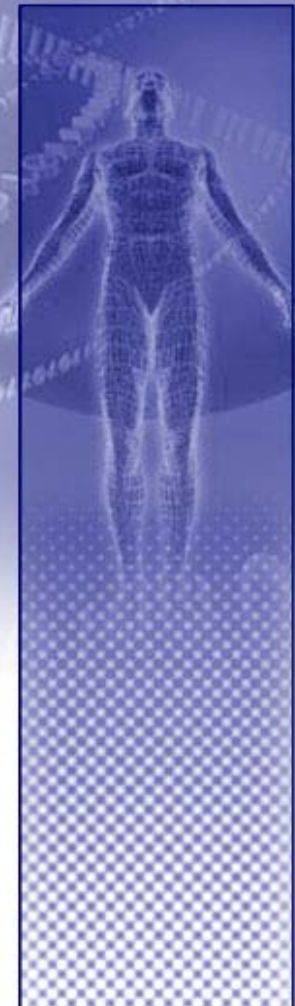
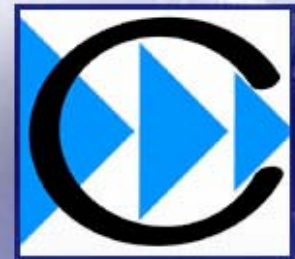
A Business Case on Web Based Technology



Robert H.P. Engels
Director R&D
CognIT a.s
Norway

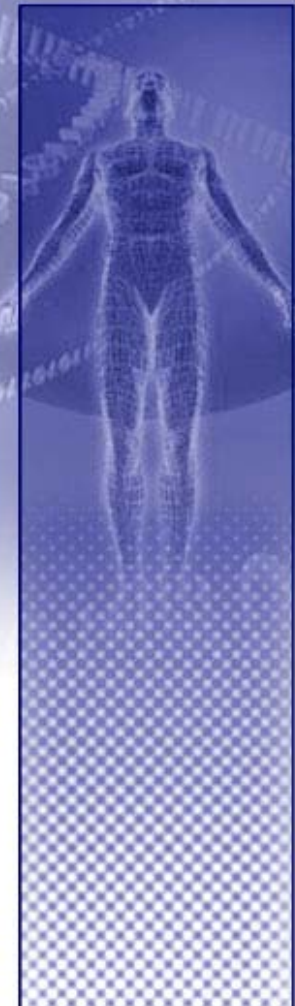
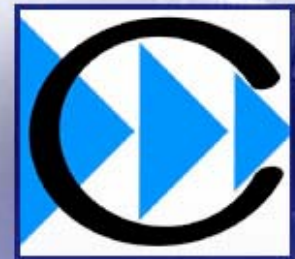
This talk

- The need for Semantic Technology
- The Business Case:
 - *Hydro Aluminium and Metal Products Dept.*
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- Technology
 - *Creating Knowledge Bases*
 - *Semantic Based Search & Retrieval*
 - *Summarisation*
 - *Indexing & Categorisation by Agents*
- Using Agents: Business Intelligence
- Conclusion



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Semantic Technology

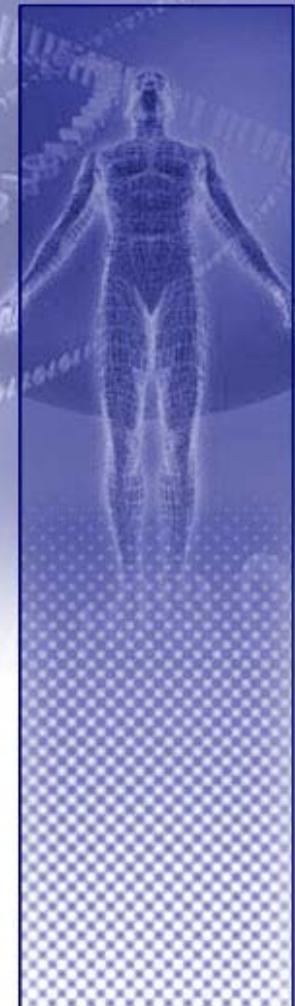
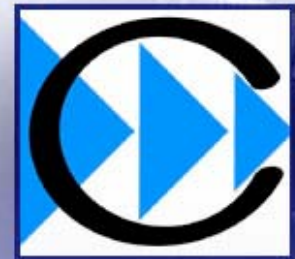
Where is the market?

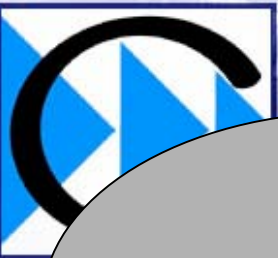


INTERNET **COMPLEXITY** versus INTRANET

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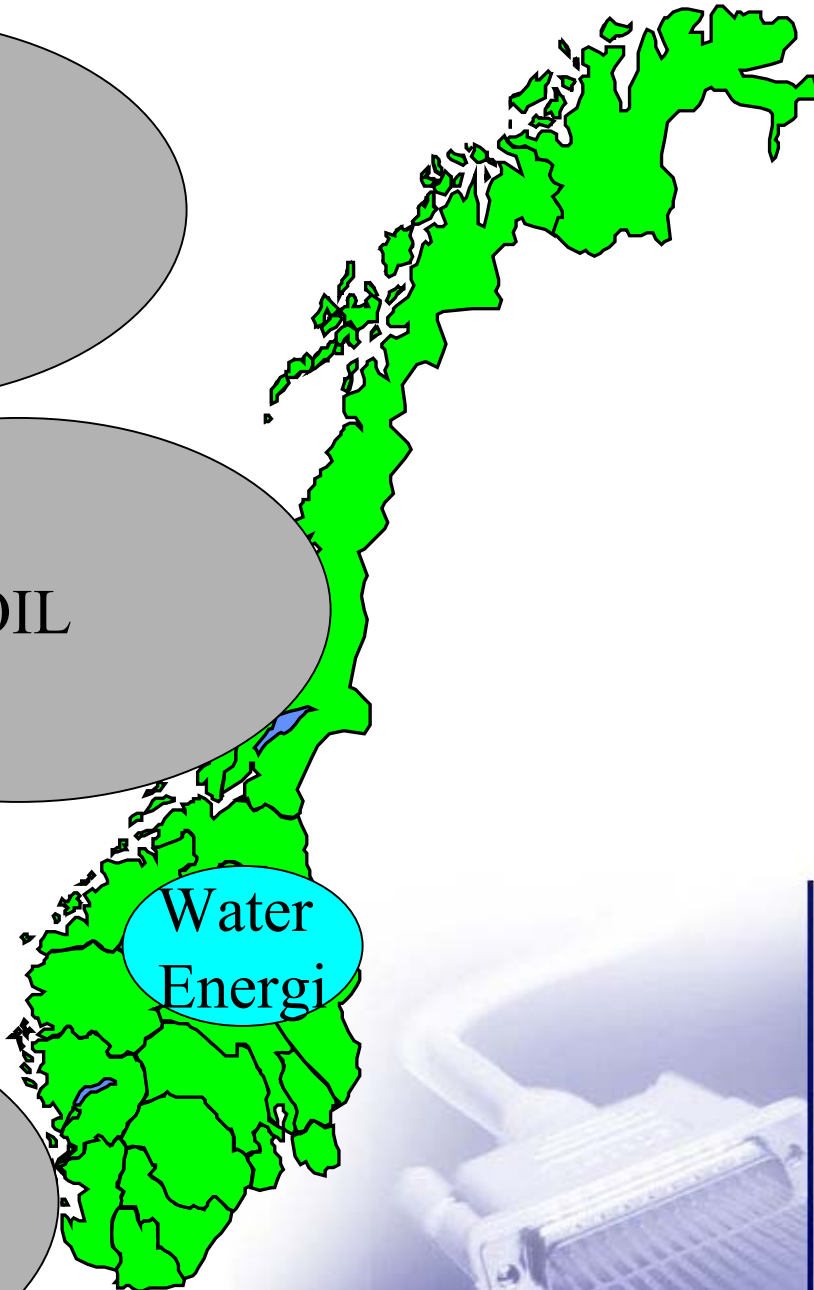
OIL

OIL

OIL

OIL

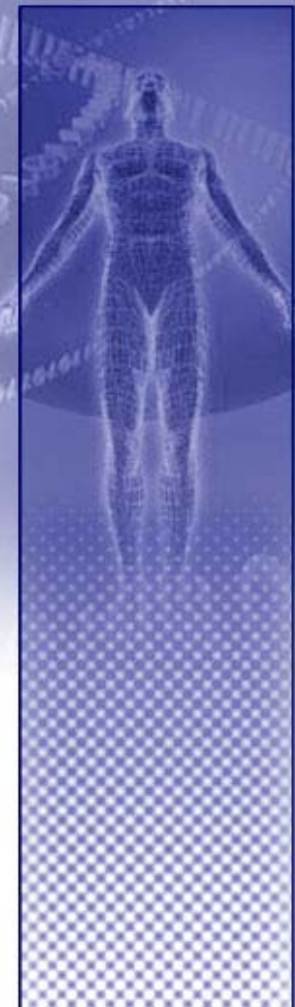
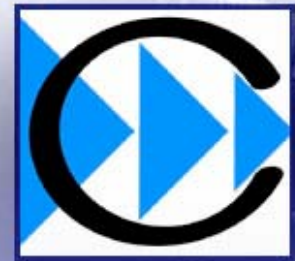
OIL



Water
Energi

Business Case: Norsk Hydro

- Business Case stems from Aluminium and Metal production Industries
- Aluminium and Metal production in Europe under increasing pressure from low-cost countries (China, Argentina, etc.)
- Norway might not belong to those countries with the lowest costs
 - » Oslo is 3rd most expensive city on the globe!
 - » Beer (0,5 ltr.): €7-9, Coffee: €4, etc.
- Thus: Industry has focus on Knowledge, Innovation and Management!
 - » Production increasingly "outsourced"
 - » Knowledge provided and upgraded "remotely"
- BUT: how to "manage" this knowledge?



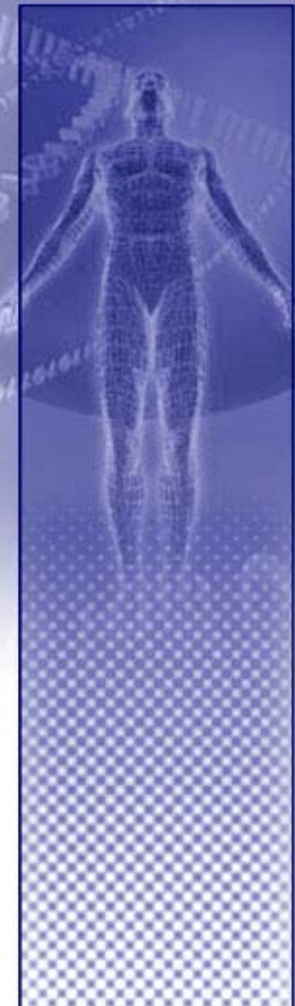
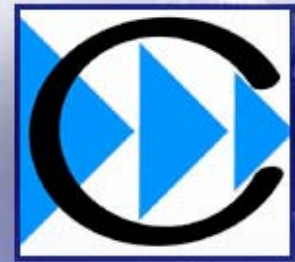
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Where does the Knowledge reside?

- Knowledge resides in:
 - » Peoples' heads
 - » Letters, emails
 - » Newsgroups, chat/discussion channels
 - » (Semi-) Official Internal Documents
 - » External Documents
 - » Customers/Suppliers
- Most important items:
 - » Entities, Events, Names, Organisations
 - » Numbers, Dates, Tables, Formula's
 - » Graphs, Images
 - » Relations between these items!



Customised Knowledge Room keeps it all together

F2000 Navigator - Microsoft Internet Explorer provided by Hydro Bridge

File Edit View Favorites Tools Help

Start : HAMP Veiviser : Kunnskapsrom

Brukervalg Søk Tilbakemelding Om HBS Nyheter Ordbok

Beste Praksis Aktivitetslister Verktøy og metoder Prosess nyheter

Strategi og policy Kompetanse nettverk Resultater Opplæringsprogram

Start

F2000 Navigator - 2. Pag... Freelance Graphics - [Ko... F2000 Navigator - Micr...

12:20

Represents multiple dimensions for accessing the underlying knowledge.

Navigation through Enterprise Business Model

HBS - Microsoft Internet Explorer provided by Hydro Bridge

File Edit View Favorites Tools Help

Address [http://osl01domino.hak.hydro.com/.../Open&Topic=HAMP;RoomNo;02](http://osl01domino.hak.hydro.com/...)

HAMP Veiviser : Beste praksis

Brukervalg Søk Tilbakemelding Om HBS Nyheter Ordbok Nødtelefon Business System

Ledelsesprosesser

- Idégrunnlag, Visjoner og Verdier
- Strategi
- Verdibasert styring
- Kvalitetsledelse
- Eksterne interesser

Verdikjedeprosesser

Markedsføring og salg → Metall-planlegging → Forsyning → Karbon → Elektrolyse → Støperi → Distribusjon

Støtteprosesser

- Forretningsutvikling og prosjekter
- Markedsanalyse
- Risiko
- Finans
- Vedlikehold
- Forskning og teknologiutvikling
- HMS
- Kommunikasjon
- IS/IT
- Laboratorietjenester
- Fellesanlegg
- P & O
- TPM

Process map

Start Jan Steffensen - Inbox - ... Freelance Graphics - [Ko... HBS - Microsoft Intern... Local intranet 10:20

Business Ontology provides structure as a "hook" for knowledge

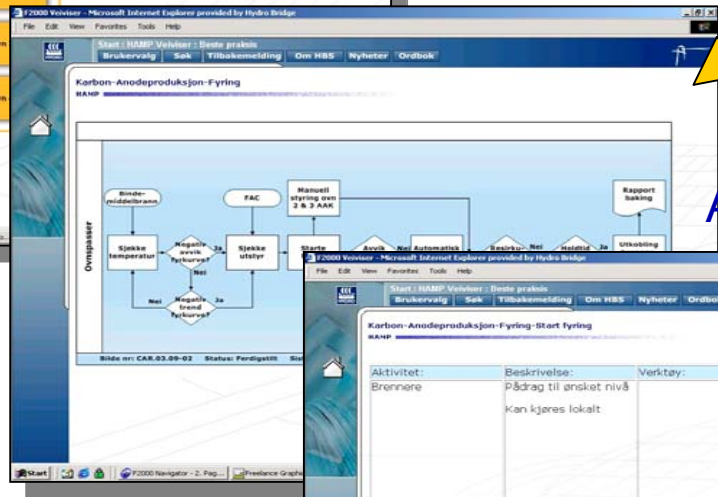
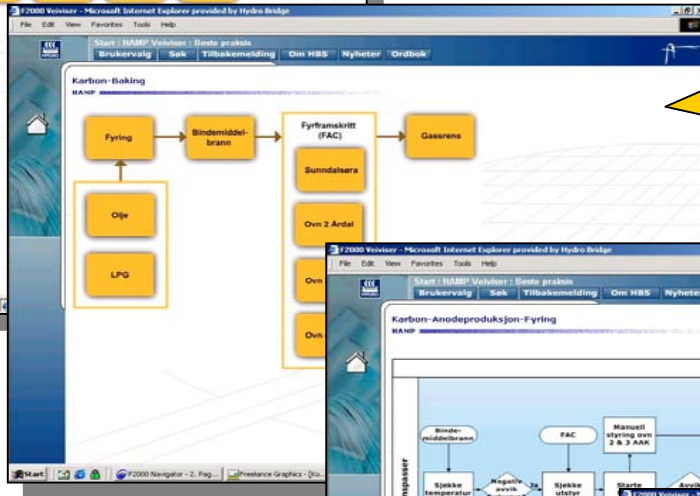
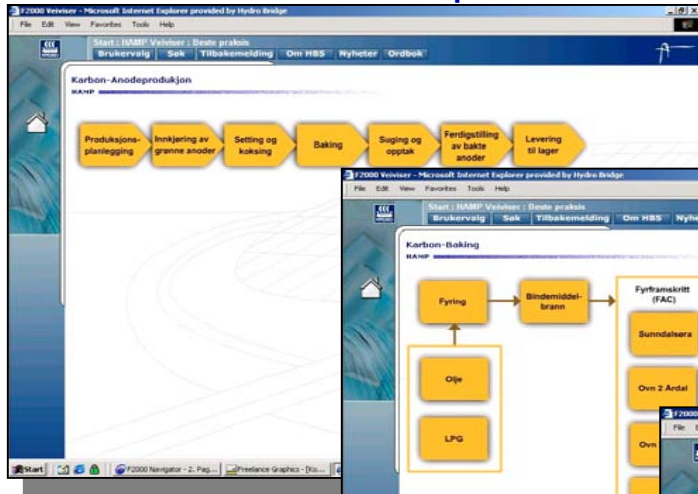
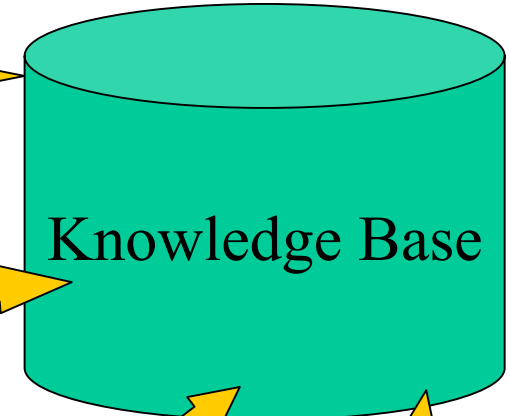
Main process

Part Process

Flow Chart

Knowledge Base

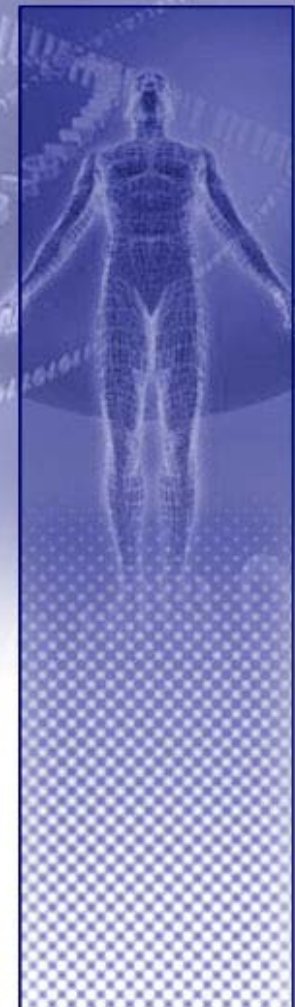
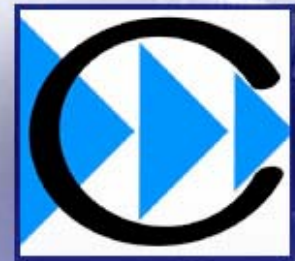
Activity Table



Aktivitet	Beskrivelse	Verktøy	Sikkerhet og risiko	Referanser
Brennere	Pådrag til ønsket nivå Kan kjøres lokalt		Følgende parametre fører til nedstenging av brennerbro: - P-gass < 0,5 bar - P-gass > 1,0 bar - Undertrykk ledning - Temperatur <= 650°C - Temperatur >= 1300°C - Undertrykk sone	
Pulslenge	Ytterdyser gir mer/lengre puls, dette for å gi bedre varmfordeling i kammeret	PC/PLS Parametrisert Styreskap		
Innstilling av brennere	Gassbrennere A-del innstilles etter mål Innstille rett olagintensitet (brennerluft) Brennerdyser må sentreres i frysakt Defekte dyser skiftes	Mål	Fare for varme (forbrenning) Fare for tilbakeslag Overdosering medfører kokning/medsmelting av murverk	

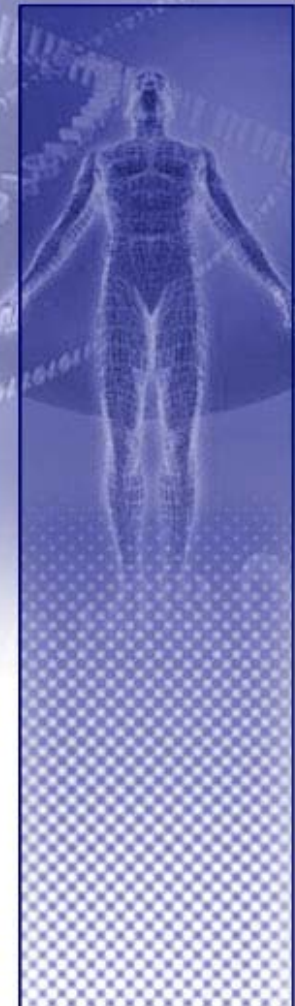
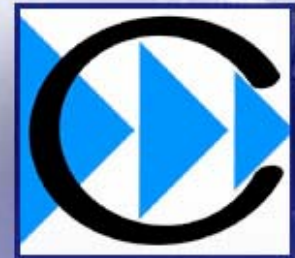
This talk

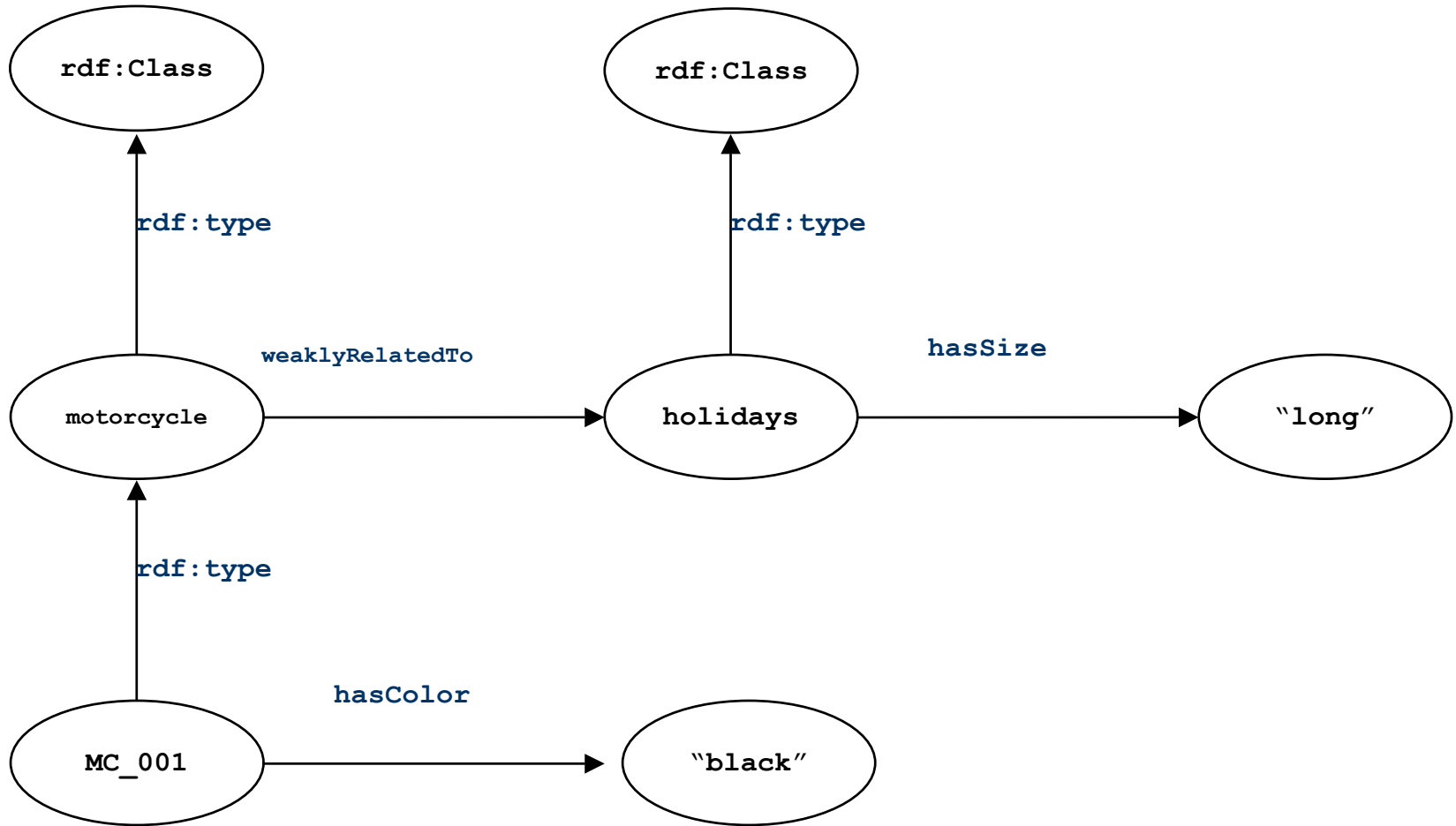
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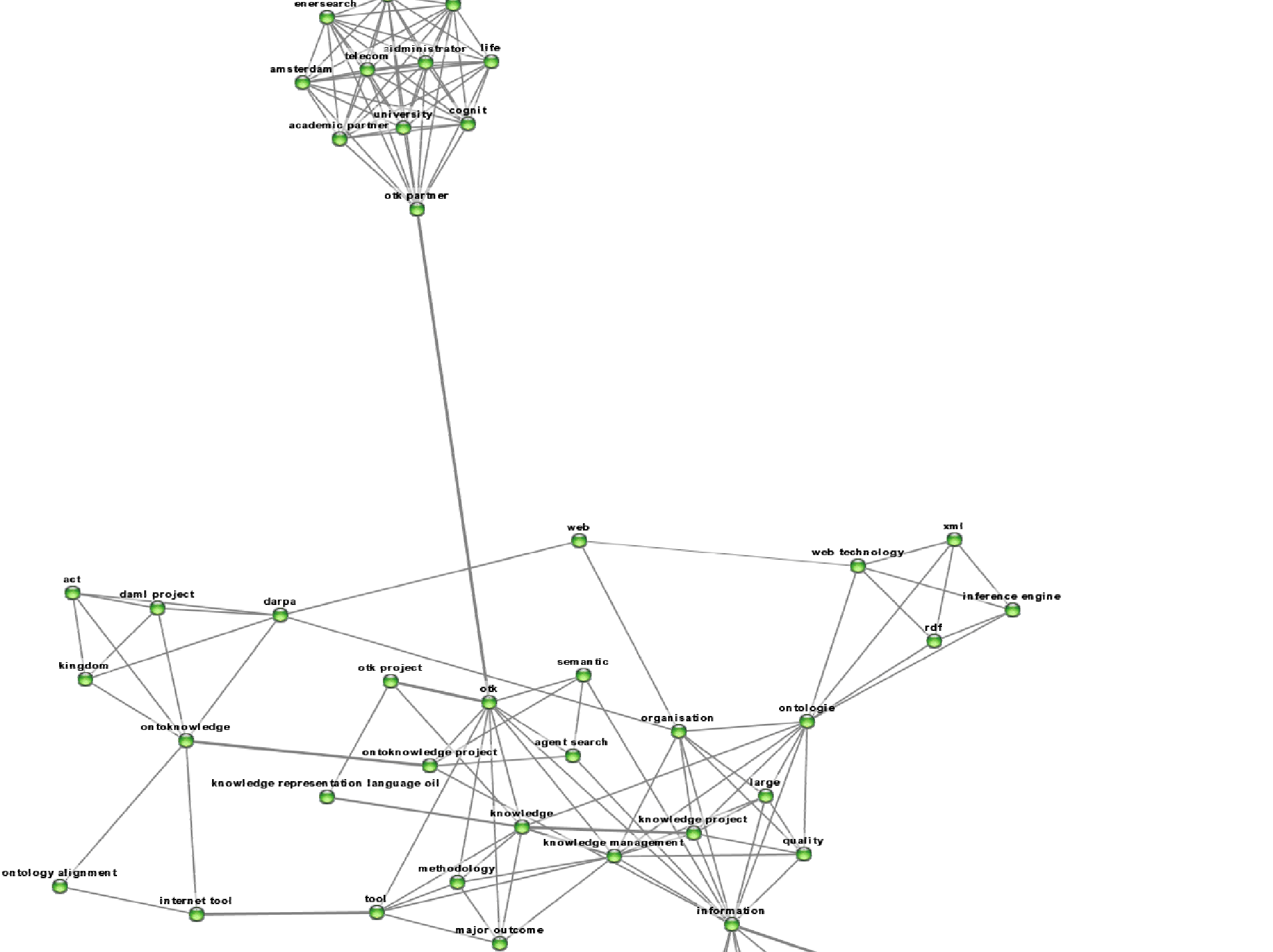


Filling the Knowledge Base

- Semi-Automatic: Categorise Documents using agents:
 - » According to Processes,
 - » Activities,
 - » Roles
 - » Personal or Group Interests
- Automatic: Linguistic analysis of text
 - » Capture semantics
 - » Extract high-value items
 - » Relate!
 - » Generate Summaries, Visualisations etc.
- Represent in RDF/OWL (ideally),
- Store as MetaData in MetaDB for quick reference

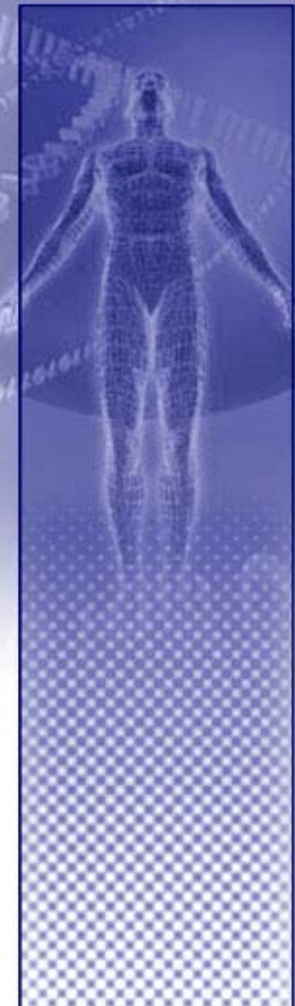
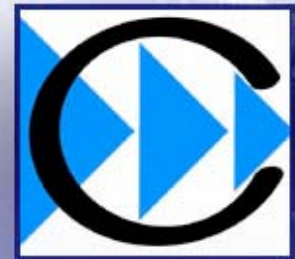




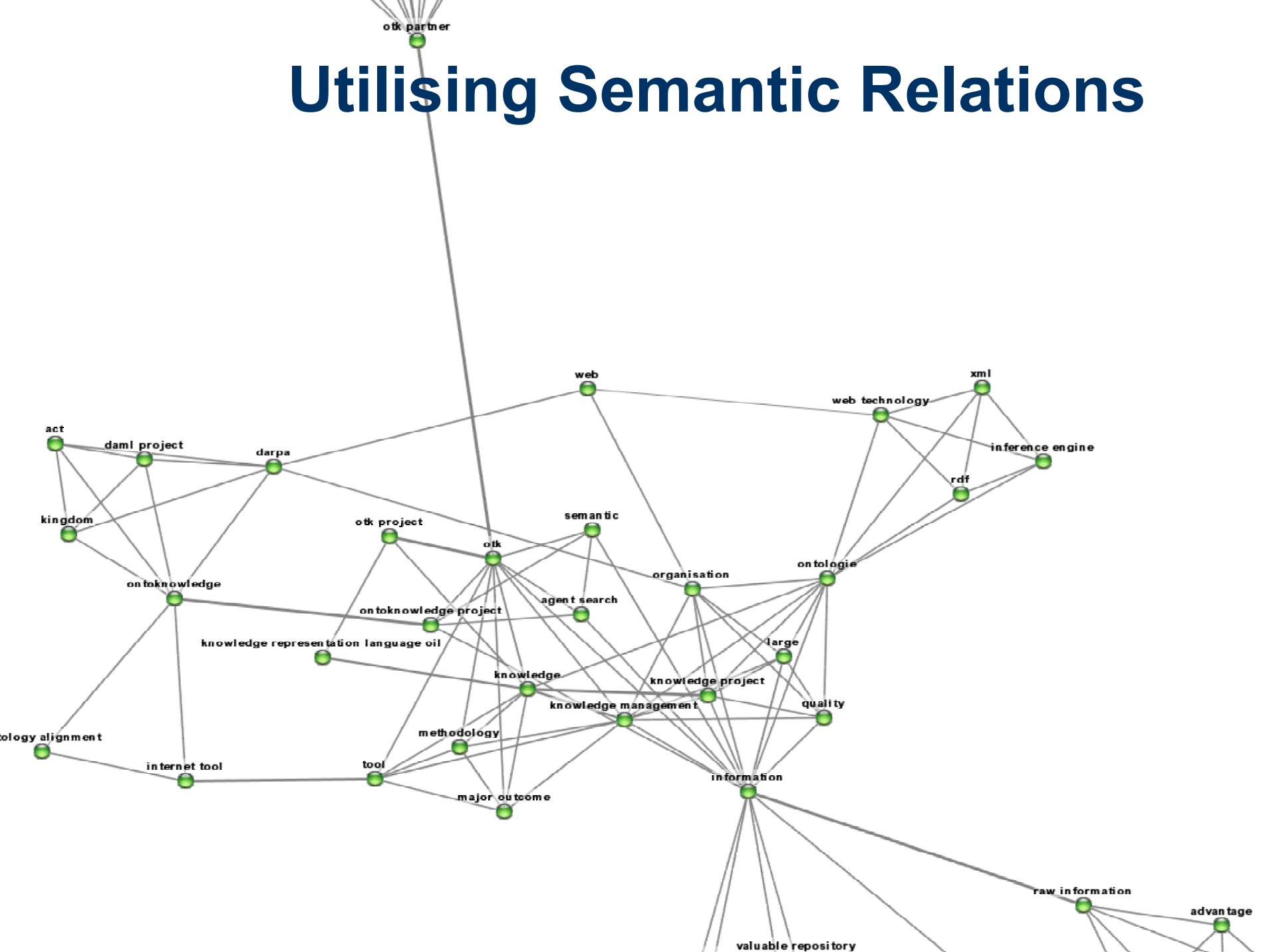


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Utilising Semantic Relations



Corporum SmartSearch - Microsoft Internet Explorer

Adresse <http://bestprac/ks3/search/smartsearch.asp?Page=1&SortBy>

SmartSearch

knowledge
 semantic web
 technology
 web
 corporum
 generation
 agent
 agent technology
 context
 halden
 knowledge representation

Search in: Language:

Corporum Standard Search - Microsoft Internet Explorer

Adresse <http://bestprac/ks3/search/StandardSearch.asp>

Standard search

Searched in Knowledge base for: (semantic analysis) Results 1 - 20 of 120

Sorted by: Show Details

[1 CognIT Technology and Products 04-2002.ppt](#)

text, context, Intelligence, CORPORUM™ Intelligence Portal, Intelligent agent monitoring, Knowledge Management Systems, German NorCom, text sources, Norsk Hydro, Advantages context, agent technology, CORPORUM™ technology, text analysis, Halden municipality, Content Utilisation, Swiss Life, Norske Skog, Aker Maritime, Scandpower PTI, Fortum Services

OnToKnowledge project (Semantic Web), AmbieSense, AcknoNet, VISION, misc. INTERREG projects & 2,5 mill. invested in technology and product development (not activated) German NorCom AG invested in CognIT early 2000 (18% share) Strengthened capital basis despite a difficult capital marked for IT investments CognIT a.s Some customers Norsk Hydro (N) Statoil (N) ...

Document last changed: 12.4.2002 - 05:54

<http://node-c/seinfeld/Prosjekter/00%20-%20Anbud-Prospekter/ CORPORUM%20Partner%20Software%20Innovati on/Presentation%2012.04.02/ CognIT%20Technology%20and%20Products%2004-2002.ppt>

[2 Technology.doc](#)

technology, analysis, text, CORPORUM™, language, agent technology, Semantic Web, projects OnToKnowledge, AmbieSense, contexts, Norwegian, development, gaining, attention, generation, knowledge theory, Semantic, agent, theory, Web

This technology is gaining a great deal of attention abroad and is the key technology of the EU projects OnToKnowledge and AmbieSense that are essential to the development of the next generation's "intelligent" Internet, the so-called "Semantic Web". CORPORUM™ is based on sophisticated language and knowledge theory. This technology is based on semantic analysis of text and...



Standard search

Search

Select additional term:

process

OR: [procedure](#)

cognit
corporum
corporum knowledge factory
knowledge
factory
area
author
business
business recognise
competitiveness
credibility

Search in: Whole Knowledge Base

Language: All

Searched in Knowledge base for: **(process)**

Results 1 - 2 of 2

Sorted by: Relevance Show Details

▶ **1. CognIT a.s - Detailed description** (Document last changed: 28.5.2003 - 13:01)

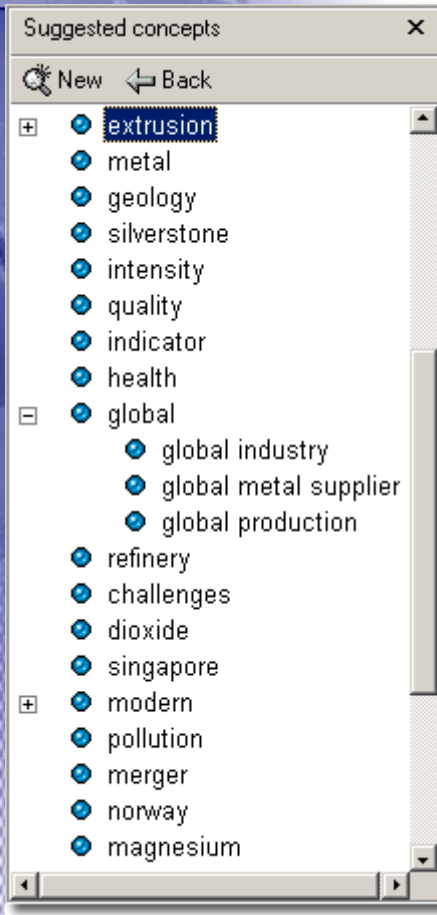
CognIT a.s Author: CognIT a.s CognIT a.s - Detailed description Detailed description of the CORPORUM Knowledge Factory CORPORUM Knowledge Factory - the shortcut to ISO 9000 Certification The ISO 9000 series of quality...

CORPORUM Knowledge Factory, Knowledge, ISO Certification, Centralising, CognIT, process, CORPORUM, Practice procedures, Enhancing competitiveness, European clients, businesses recognise, clients, Giving, credibility, areas, efficiency, Helping, chains, success, Connecting

http://www.cognit.no/home_multi/html/index.asp?SideID=300

CONCEPT BROWSING

Also COMPLEX Concepts



While browsing the concepts, the user can select generic concepts like :

“global”

as well as more specific concepts like :

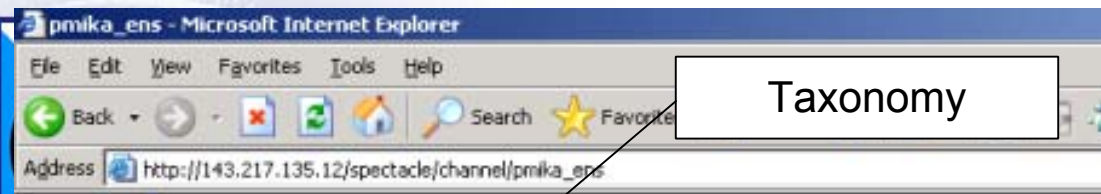
“global industry”

“global metal supplier”

“global production”

Generated by the system based on available content.
Defines excellent subject indexes and table of contents.





Taxonomy

EnerSearch AB

Profile

- All Concepts
- By Author
 - Rikard Larsson
- By Project
 - ISES 1
 - ISES 4
 - ISES 5
 - ISES 5 (RISI Conf)
 - ISES 7
 - Power line cor
 - ISES Book, Chap.
 - ISES Book, Chap.
 - ISES Book, Chap.
 - Knowledge Engin
 - OnToKnowledge
- By Year
 - 1997
 - 1998
 - 1999
 - 2000

IEEE	client	feature	low voltage grid	preference	structured engineer
ISES effort	collaboration	field	lund		
OIL	community	focus	lund university		
OnToKnowledge	competition	force	mail	production	sub
RDF	cost	function	measure	professor	subject
Rikard Larsson	course	goal	member	professor driver	team
Social, economic	date	grid	message	programme	telecommunication
UK	day	group	metaphor	progress	telephone
USA	dean	hand	microcomputer	protection	test
addition	december	home	month	quality	text
agent communication	degree	impact	moscow	query	today
al	deregulation	implementation	necessity	range	topic
algorithm	devices	improvement	network	re	transaction
ar	distribution	increase	number	receiver	transactions
architecture	distributor	influence	october	region	university southern
assessment	driver	information source	office	requirement	usage
auction	efficiency	information system	order	research co	utility
author	effort	infrastructure	organisation	rotterdam	ways
automation	electricity	initial	page	sales	white
bandwidth	electronic market	input	participation	search	
basis	energy system	integration	pattern	second	
	energy utility	interest	performance	sector	world wide web
	entity	internet	period	side	wurzburg
	equipment	introduction	person	signal	

Ontology Concepts

Related Concepts

Summary

OR select a related concept:

[top existing agent communication language](#) [management industrial corporate knowledge ISMICK?96](#)

<http://143.217.135.12/evaluation/knowledgebase/publications/conference-journals/EMMSEC00/EMMSEC00-1.html>

Summary: OnToKnowledge: Ontology based Tools for Knowledge Management. Author: Dieter Fensel, Frank van Hees, Frank Akkermans keywords: OnToKnowledge: Ontology based Tools for Knowledge Management description: OnToKnowledge: Ontology based Tools for Knowledge Management



View original document



finding, discovery & learning

Publications by D. Healey on liberalisation

[By Author / Healey, David / liberalisation](#)

OR select a related concept:

[potential cost effective efficient solution](#)

http://143.217.135.12/evaluation/knowledgebase/publications/by_project/ISES/ises7/EU98/eu98-t.html#page9

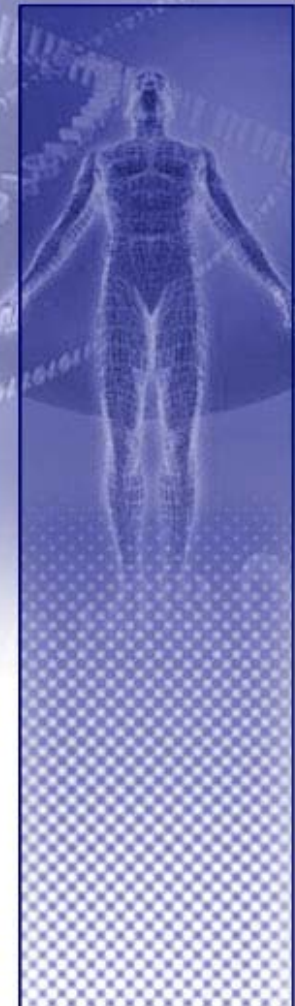
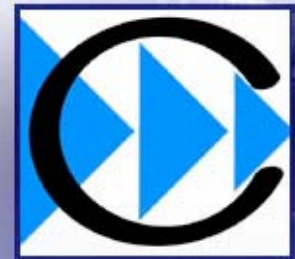
Summary: The changing market, legal and technical environment. Current developments take place in a highly dynamic where sector boundaries are shifting, financial power is enhanced through mergers and acquisitions, competition is being fundamentally redesigned, new market entrants appear, and old paradigms of operational and business success are being replaced. The growing trends of privatisation, liberalisation and competition have called for fundamental changes in goals, organisational culture, human resources and market and customer orientation. The onset of growing competition has driven increasing numbers of companies to investigate and develop strategies that differentiate their service and products in the marketplace.

http://143.217.135.12/evaluation/knowledgebase/publications/by_project/ISES/ises7/EU98/eu98-t.html#page6

Summary: Page 6 7 ? The power grid is already in place, thus enhancing cost effectiveness. Developments in the coinciding business and technology factors in the telecom and electricity sectors that can be summarised as follows: (a) Liberalisation of the electricity supply sector is driving investment in operating efficiencies. (b) Flat growth and market saturation has driven utilities to focus upon expansion of value added energy service capabilities. (c) The majority of the activity in value added services is based upon exploitation of communications technologies. (d) Liberalisation of the telecom sector has resulted in a

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SMS Variant

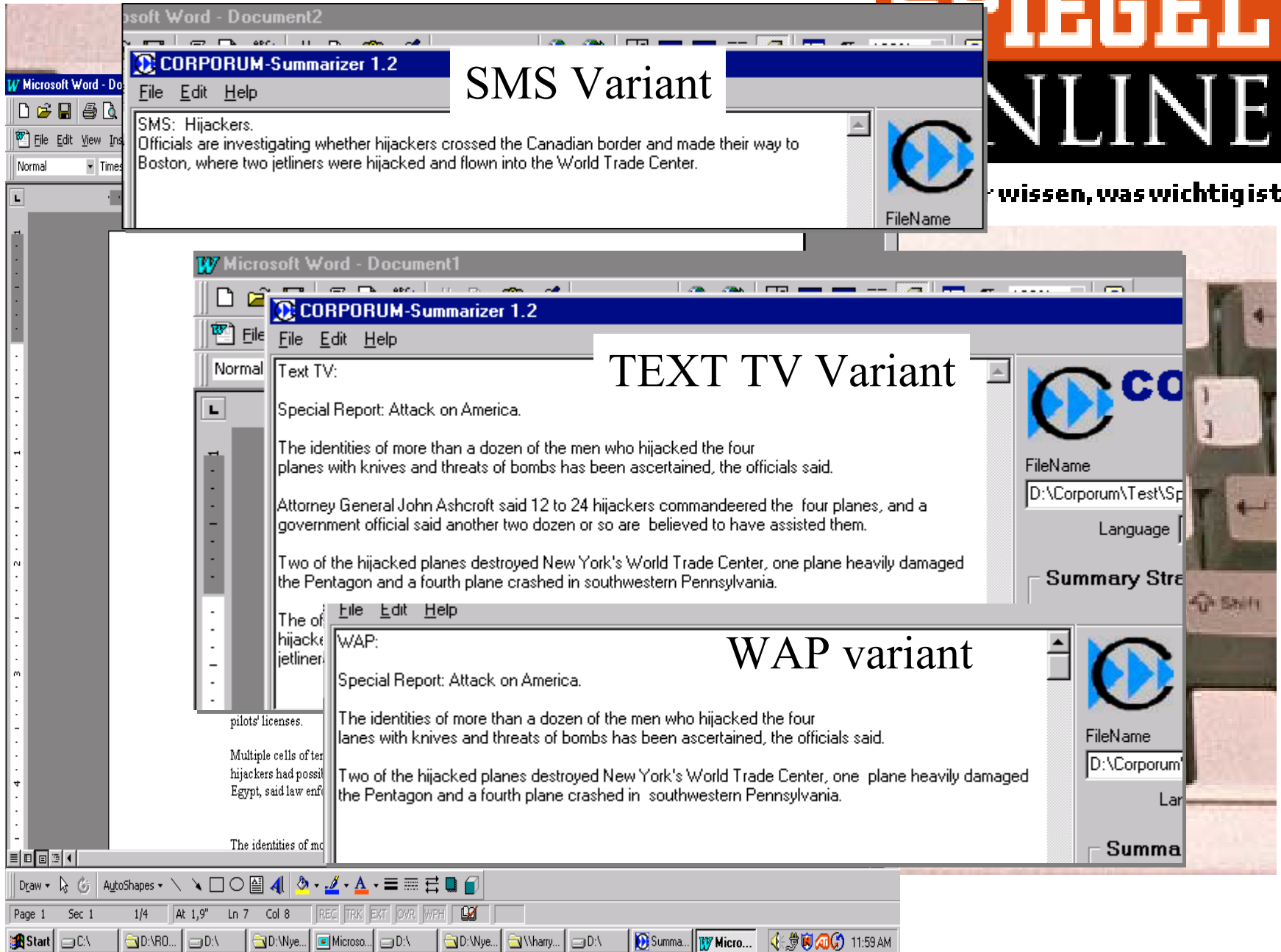
SMS: Hijackers.
Officials are investigating whether hijackers crossed the Canadian border and made their way to Boston, where two jetliners were hijacked and flown into the World Trade Center.

TEXT TV Variant

Text TV:
Special Report: Attack on America.
The identities of more than a dozen of the men who hijacked the four planes with knives and threats of bombs has been ascertained, the officials said.
Attorney General John Ashcroft said 12 to 24 hijackers commandeered the four planes, and a government official said another two dozen or so are believed to have assisted them.
Two of the hijacked planes destroyed New York's World Trade Center, one plane heavily damaged the Pentagon and a fourth plane crashed in southwestern Pennsylvania.

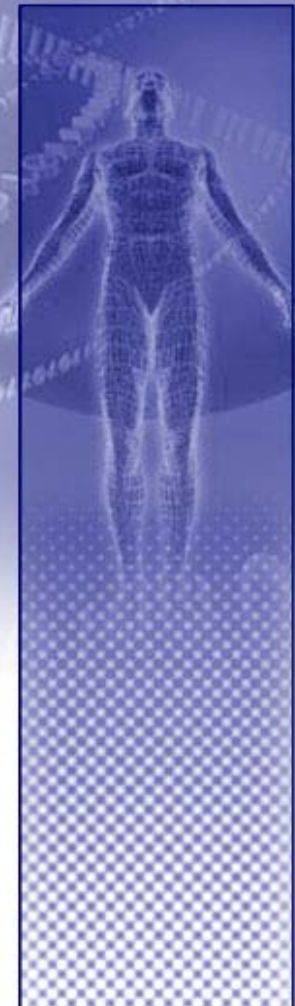
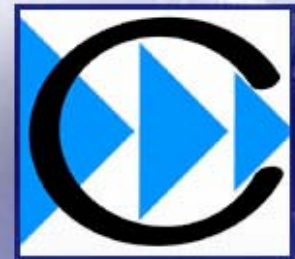
WAP variant

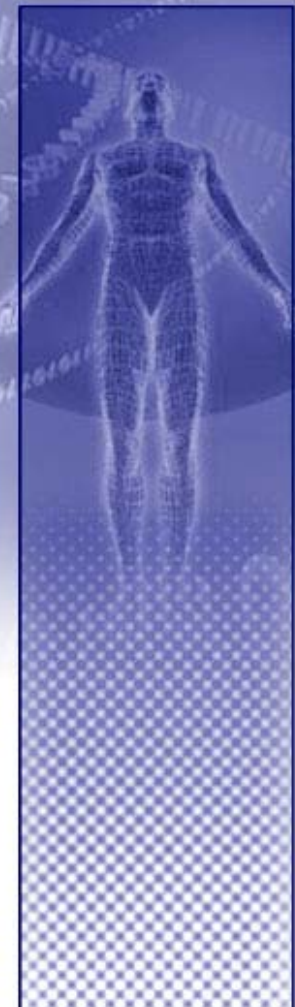
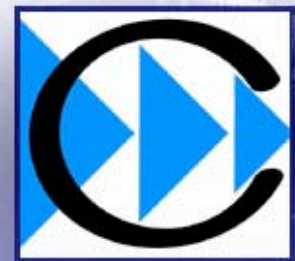
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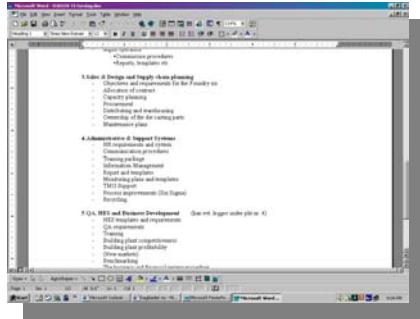
Where do you want to go today, Mister Anderson?

Intelligent agents

Updates

Missions

End-User Tool



Editor, portal,
news feed

Interest models
and crawler
targets defined
according to specific
long-term
interest



Back-end responsible or analyst

Agents

Agents

Crawlers

Document
system

File
system

Portal input

WWW
portals,
news,
online
databases

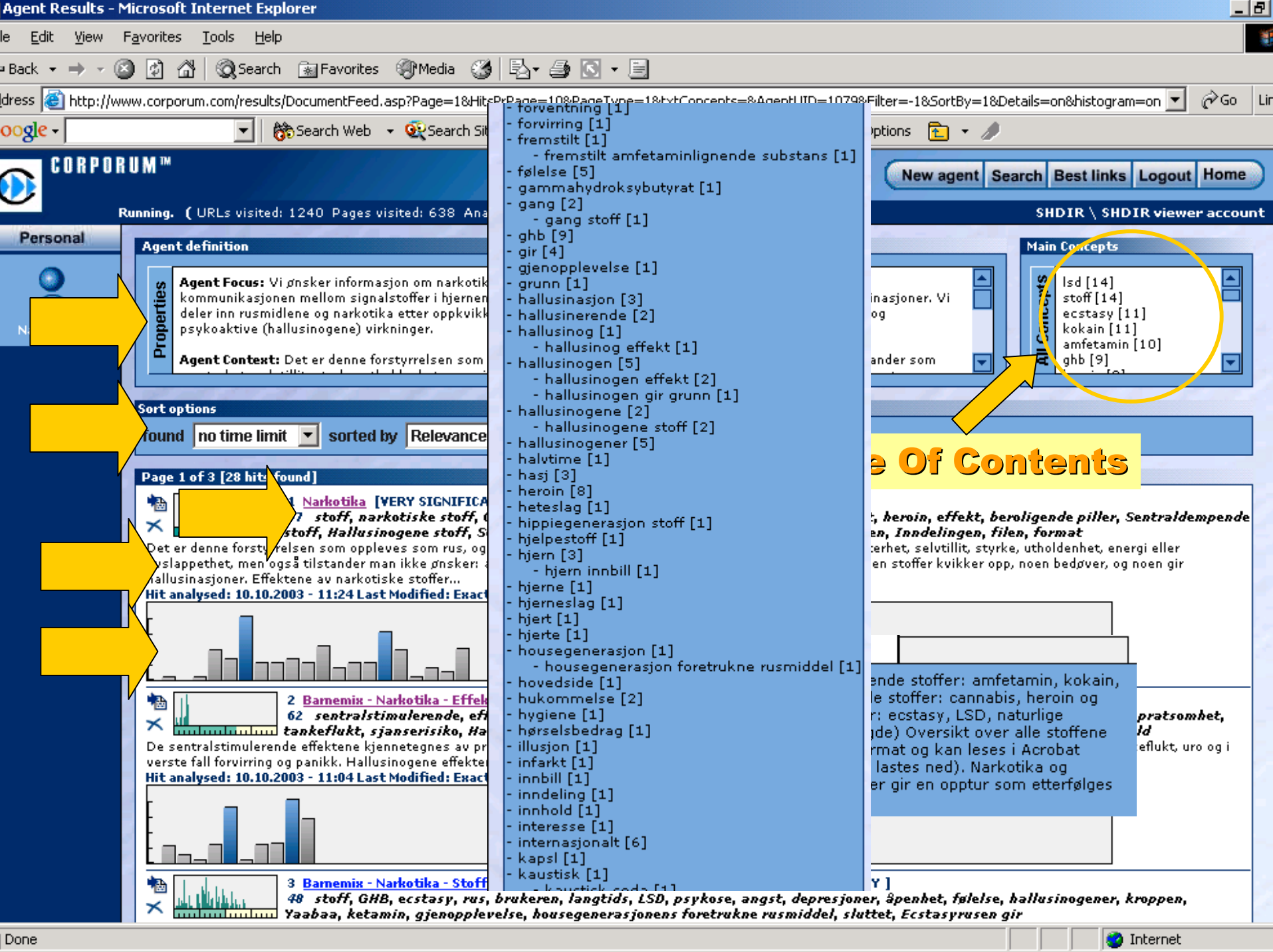


Login

Username

Password

Group



CORPORUM™

Running. (URLs visited: 1240 Pages visited: 638 Analyzed: 10)

Personal

Options New agent Search Best links Logout Home

SHDIR \ SHDIR viewer account

Agent definition

Agent Focus: Vi ønsker informasjon om narkotik kommunikasjonen mellom signalstoffer i hjernen deler inn rusmidlene og narkotika etter oppvikl psykoaktive (hallusinogene) virkninger.

Agent Context: Det er denne forstyrrelsen som

Sort options

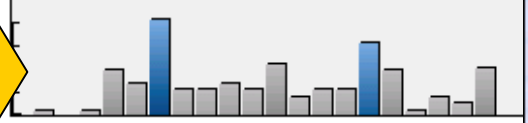
Round no time limit sorted by Relevance

Page 1 of 3 [28 hits found]

1 **Narkotika** [VERY SIGNIFICANT] 17 stoff, narkotiske stoff, kokain, LSD, amfetamin, GHB, Ecstasy, LSD, psykose, angst, depresjoner, åpenhet, følelse, hallusinogener, kroppen, Yaabaa, ketamin, gjenopplevelse, housegenerasjonens foretrukne rusmiddel, sluttet, Ecstasyrusen gir

Det er denne forstyrrelsen som oppleves som rus, og avslappethet, men også tilstander man ikke ønsker: hallusinasjoner. Effektene av narkotiske stoffer...

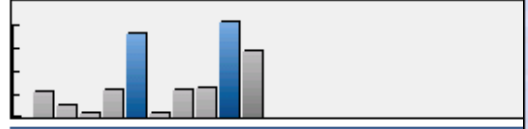
Hit analysed: 10.10.2003 - 11:24 Last Modified: Exact



2 **Barnemix - Narkotika - Effekt** 62 sentralstimulerende, effekt, tankeflukt, sjanserisiko, H

De sentralstimulerende effektene kjennetegnes av pr verste fall forvirring og panikk. Hallusinogene effekter

Hit analysed: 10.10.2003 - 11:04 Last Modified: Exact



3 **Barnemix - Narkotika - Stoff** 48 stoff, GHB, ecstasy, rus, brukeren, langtids, LSD, psykose, angst, depresjoner, åpenhet, følelse, hallusinogener, kroppen, Yaabaa, ketamin, gjenopplevelse, housegenerasjonens foretrukne rusmiddel, sluttet, Ecstasyrusen gir

- forventing [1]
- forvirring [1]
- fremstilt [1]
 - fremstilt amfetaminlignende substans [1]
- følelse [5]
- gammahydroksybutyrat [1]
- gang [2]
 - gang stoff [1]
- ghb [9]
- gir [4]
- gjenopplevelse [1]
- grunn [1]
- hallusinasjon [3]
- hallusinerende [2]
- hallusinog [1]
 - hallusinog effekt [1]
- hallusinogen [5]
 - hallusinogen effekt [2]
 - hallusinogen gir grunn [1]
- hallusinogene [2]
 - hallusinogene stoff [2]
- hallusinogener [5]
- halvtid [1]
- hasj [3]
- heroin [8]
- heteslag [1]
- hippiegenerasjon stoff [1]
- hjelpestoff [1]
- hjern [3]
 - hjern innbill [1]
- hjerne [1]
- hjerneslag [1]
- hjert [1]
- hjerte [1]
- housegenerasjon [1]
 - housegenerasjon foretrukne rusmiddel [1]
- hovedside [1]
- hukommelse [2]
- hygiene [1]
- hørselsbedrag [1]
- illusjon [1]
- infarkt [1]
- innbill [1]
- inndeling [1]
- innhold [1]
- interesse [1]
- internasjonalt [6]
- kapsl [1]
- kaustisk [1]
- kaustisk gade [1]

Main Concepts

lsd [14]
stoff [14]
ecstasy [11]
kokain [11]
amfetamin [10]
ghb [9]

Table Of Contents

heroin, effekt, beroligende piller, Sentraldempende, Inndelingen, filen, format

berhet, selvtillit, styrke, utholdenhet, energi eller en stoffer kvikker opp, noen bedøver, og noen gir

ende stoffer: amfetamin, kokain, le stoffer: cannabis, heroin og r: ecstasy, LSD, naturlige (de) Oversikt over alle stoffene rmat og kan leses i Acrobat (lastes ned). Narkotika og er gir en opptur som etterfølges

pratsomhet, id, effekt, uro og i



Personal



Narkotika

Keyword search **Orthogonal list** Natural language query

Concepts in English to search for

stoff

Boolean

AND

Search In

Narkotika

Search

Show details

- lsd [10]
- amfetamin [8]
- ecstasy [8]
- ghb [7]
- kokain [7]
- rus [7]
- heroin [6]
- narkotika [6]
- cannabis [5]
- hallusinogen [5]
- rusmidl [5]

- lsd [10]
- amfetamin [8]
- ecstasy [8]
- ghb [7]
- kokain [7]
- rus [7]
- heroin [6]
- narkotika [6]
- cannabis [5]

Search results by agent

- Narkotika [14 hits]
- Corporate memory [14 hits]

Page 1 of 1 [14 hits found]

- 1 [Narkotika] Narkotika [VERY SIGNIFICANT AND INTERESTING]**

Score:97 *stoff, narkotiske stoff, GHB, kokain, LSD, amfetamin, khat, ecstasy, Oversikt, heroin, stoff, Hallusinogene stoff, Sentralstimulerende stoff, Acrobat Reader, Hallusinogen, In*

Det er denne forstyrrelsen som oppleves som rus, og som kan føre til at hjernen innbiller seg tilstander som munter avslappethet, men også tilstander man ikke ønsker: angst, depresjon, skrekkvisjoner eller forfølgelsestanker. Noe hallusinasjoner. Effektene av narkotiske stoffer...

Hit analysed: 10.10.2003 - 11:24 Last Modified: Exact date not specified (changed prior to 10.10.2003 - 11:24)
- 2 [Narkotika] Meditest.no - Narkotika tester, Alkohol tester, Graviditets tester, rusmiddeltester [VERY SIGNIFICANT AND INTERESTING]**

Score:65 *narkotiske stoff, stoff, hjernen, effekt, rus, angst, depresjon, rusmidler, Narkotika, ecstasy, LSD, heroin, kokain, amfetamin, khat, GHB, hjernen innbiller, utholdenhet, skrekkvisjoner, forfølgelsestanker*

Inndelingen av stoffer: Sentralstimulerende stoffer: amfetamin, kokain, GHB, khat og ecstasy Sentraldempende stoffer: cannabis, heroin og beroligende piller Hallusinogene stoffer: ecstasy, LSD, naturlige hallusinogener og cannabis (stor mengde) Narkotika og avhengighet De fleste narkotiske stoffer gir en opptur som etterfølges av en fysisk og psykisk nedtur. Det...

Hit analysed: 10.10.2003 - 11:18 Last Modified: Exact date not specified (changed prior to 10.10.2003 - 11:18)
- 3 [Narkotika] Barnemix - Narkotika - Stoffer som påvirker sanseintrykk [ABSOLUTELY READWORTHY]**

Score:48 *stoff, GHB, ecstasy, rus, brukeren, langtids, LSD, psykose, angst, depresjoner, åpenhet, følelse, hallusinogener, kroppen, Yaabaa, ketamin, gjenopplevelse, housegenerasjonens foretrukne rusmiddel, sluttet, Ecstasyrusen gir*

På samme måte som LSD og cannabis var hippiegenerasjonens stoffer, har ecstasy etablert seg som housegenerasjonens foretrukne rusmiddel. Stoffet har til og med



Personal



Keyword search Orthogonal list Natural language query

Concepts in English to search for

stoff cannabis

Boolean

AND

Search In

Narkotika

Search

Show details

Search results by agent

[-] Narkotika [5 hits]

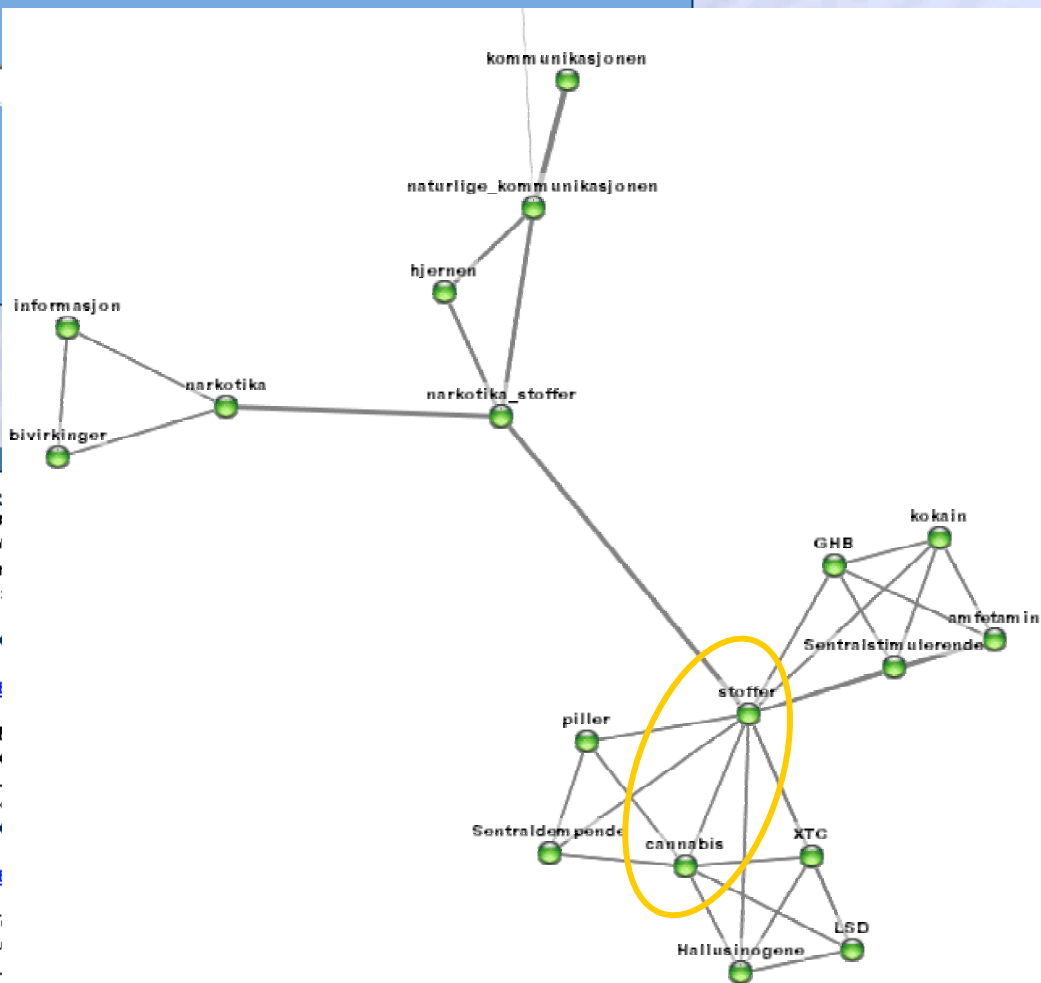
[+] Corporate memory [5 hits]

Page 1 of 1 [5 hits found]

1 [Narkotika] **Khat** [ABSOLUTELY READWORTHY]
 Score:3
 Fakta, rusmidler, Stoff, Antall misbrukere, I Hovedside, Fakta, Narkotikalovgivningen, N Amfetamin Benzodiazepiner Cannabis Ecstasy GHB Hallusinogener narkotika Overdosedødsfall Antall misbrukere Narkotikabeslag og : Ungdom og rusmidler Hovedside...
 Hit analysed: 10.10.2003 - 11:09 Last Modified: Exact date not specified

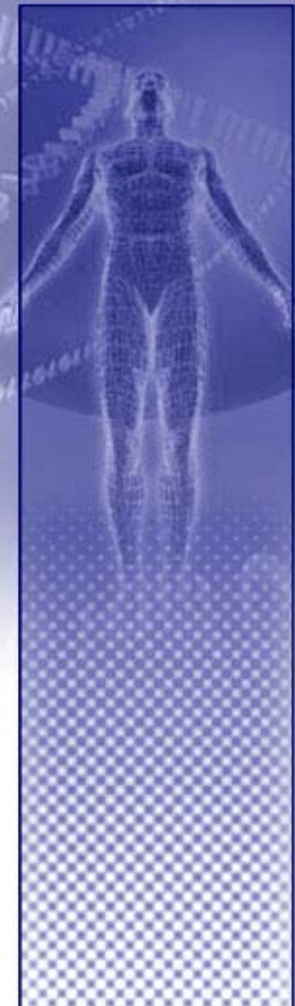
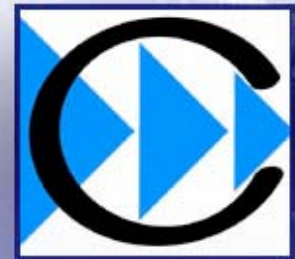
2 [Narkotika] **Meditest.no - Narkotika tilgjengelig** [READWORTHY]
 Score:0
 LSD, stoff, hallusinogen, hallusinogen effekt Narkotikabeslag, smaks, Sniffestoffer, hørselsforringelse
 Forsiden Produkter Fakta om rusmidler Nyheter Nettbutikk Forum L Benzodiazepiner Cannabis Ecstasy GHB Hallusinogener Heroin Kokain
 Hit analysed: 10.10.2003 - 14:37 Last Modified: Exact date not specified

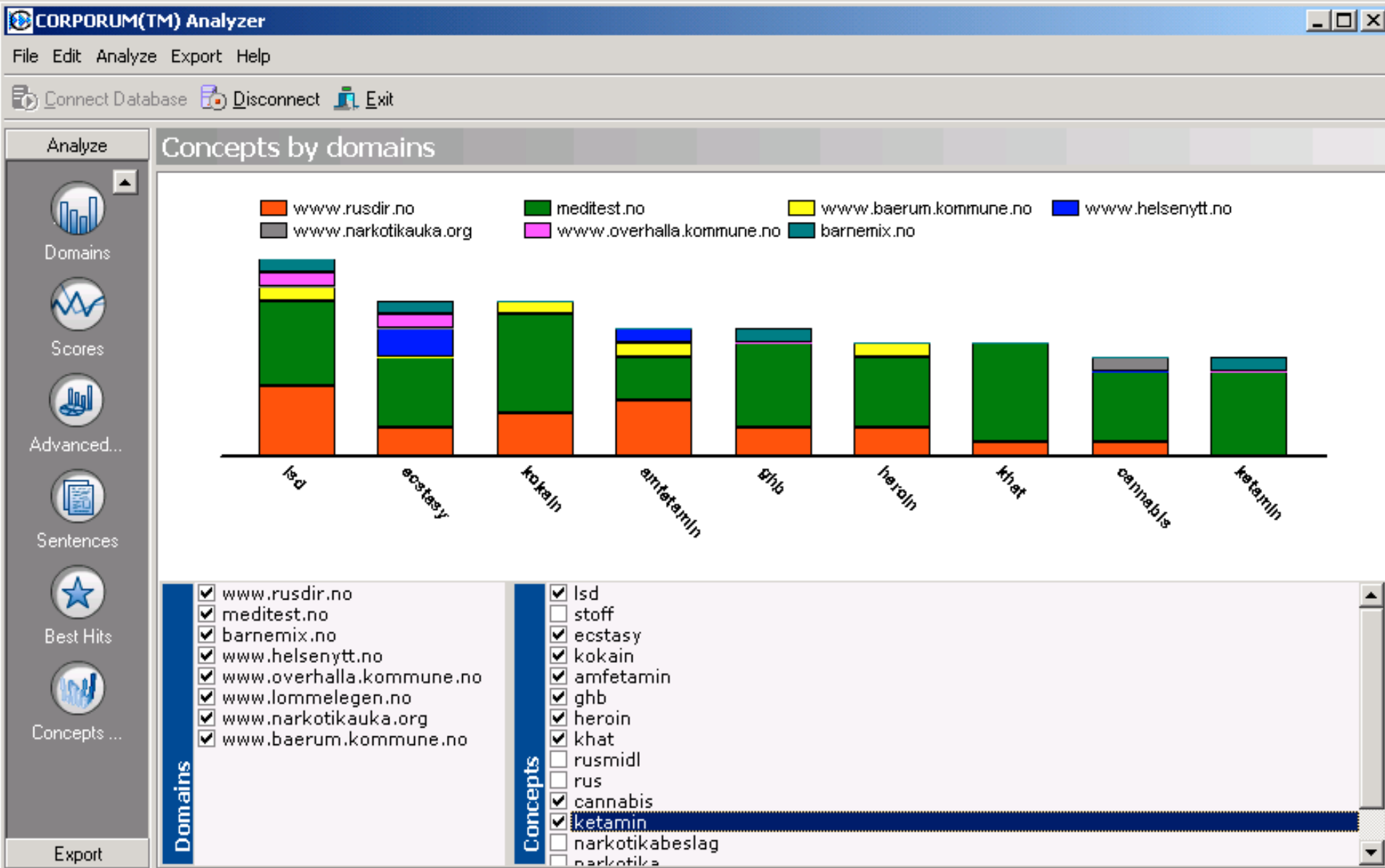
3 [Narkotika] **Meditest.no - Narkotika tilgjengelig** [READWORTHY]
 Score:0
 GHB, rusmidler, narkotika, stoff, Ecstasy, Khat, gammahydroksybutyrat, Narkotikalovgivningen
 Forsiden Produkter Fakta om rusmidler Nyheter Nettbutikk Forum L



This talk

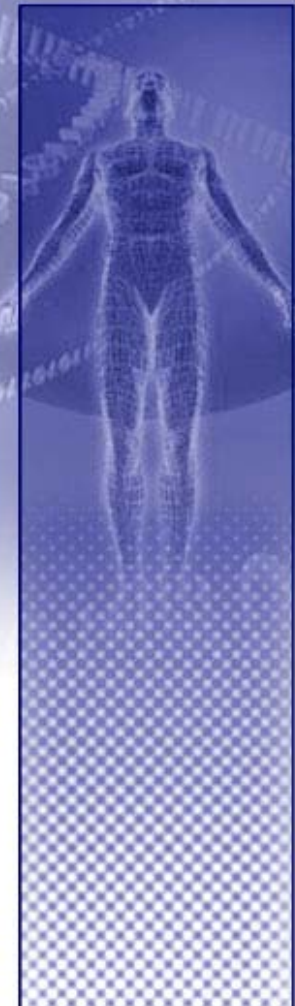
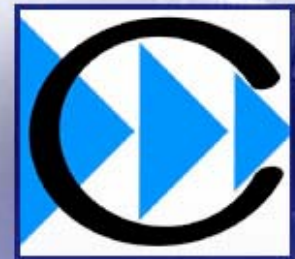
- The need for Semantic Technology
- The Business Case:
 - *Hydro Aluminium and Metal Products Dept.*
- Using it: how to get to your Knowledge
- Technology
 - *Creating Knowledge Bases*
 - *Semantic Based Search & Retrieval*
 - *Summarisation*
 - *Indexing & Categorisation by Agents*
- **Using Mr. Anderson: Business Intelligence**
- Conclusion

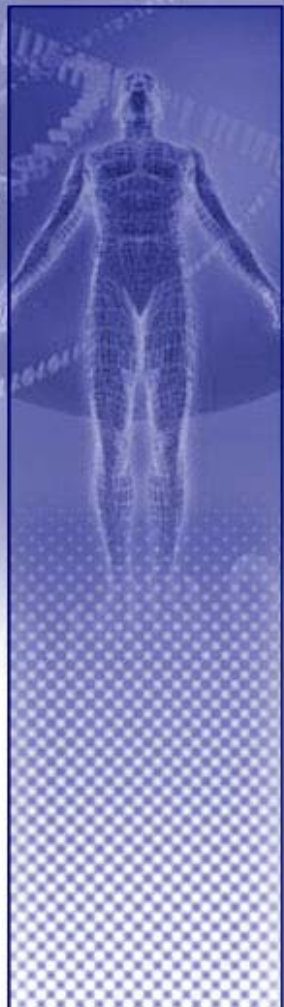




This talk

- The need for Semantic Technology
- The Business Case:
 - *Hydro Aluminium and Metal Products Dept.*
- Using it: how to get to your Knowledge
- Technology
 - *Creating Knowledge Bases*
 - *Semantic Based Search & Retrieval*
 - *Summarisation*
 - *Indexing & Categorisation by Agents*
- Another Use: Business Intelligence
- Conclusion





- HAMP Business System very successful!
- Used in whole Business Unit
 - » 4000-5000 contemporary users
 - » Other BU's to follow?
- Enables transparent access to information
- 4 languages implemented: Norwegian, English, German, Spanish, (Swedish)
- Uses multiple dimensions
 - » User Push (Business Processes)
 - » User Pull (pro-active agent technology)
 - » Active Search (using Semantic Relations)
 - » Library Services (cf. Automated TOC)
- Drawback:
 - » Unfamiliarity with this type of technology (cf. Scansofts point)
- Evaluated positive:
 - » Provide several ways to find the "unknown"!
 - » Great help in exploration of Knowledge Assets in the Company!
 - » Supports and Educates "newbies"!

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