

**13th International Association for Sport Information World Congress  
11-13 March, 2009 - Canberra, Australia**

**Sprint 2.0 - state-of-the-art ideas for information supply in elite sport and elite sport research.**

**Dr Hartmut Sandner**

Institute for Applied Training Science (IAT)  
Leipzig, Germany



Australian Government  
Australian Sports Commission



AUSTRALIAN  
INSTITUTE OF SPORT

# 13th IASI World Congress

11-13 March, 2009 Canberra, Australia

*Building and sustaining sport information communities -  
through connectivity, collaboration and sharing*



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*Building and sustaining sport information communities -  
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**Dr. Hartmut Sandner**

Institute for Applied Training Science, Leipzig, Germany

„Citius – altius – fortius – better informed“

# Sprint 2.0 - state-of-the-art and ideas for information processes in elite sport and elite sport research

**SPRINT SPRINT 2.0**

**Dr. Hartmut Sandner**  
Institute for Applied Training Science Leipzig



Ein Institut  
im Verein IAT/FES des DOSB e.V.

Gefördert durch



- Wayne Wilson (LA 84 Foundation)

„Will the Internet and the Net will make special libraries – at least one challenge is to add new, exciting technologies being able to manage information and knowledge in a quite different manner to hundreds of years of library development, traditions and habits – to reinvent libraries or to develop them into information management centres.



## Science and elite sport

Several scientific disciplines can contribute

**Sport science(s)** i. a. with the core field of training science

**Life sciences** i. a. sports medicine + sport physiology

**Technical sciences / Engineering** i. a. biomechanics + computer Science

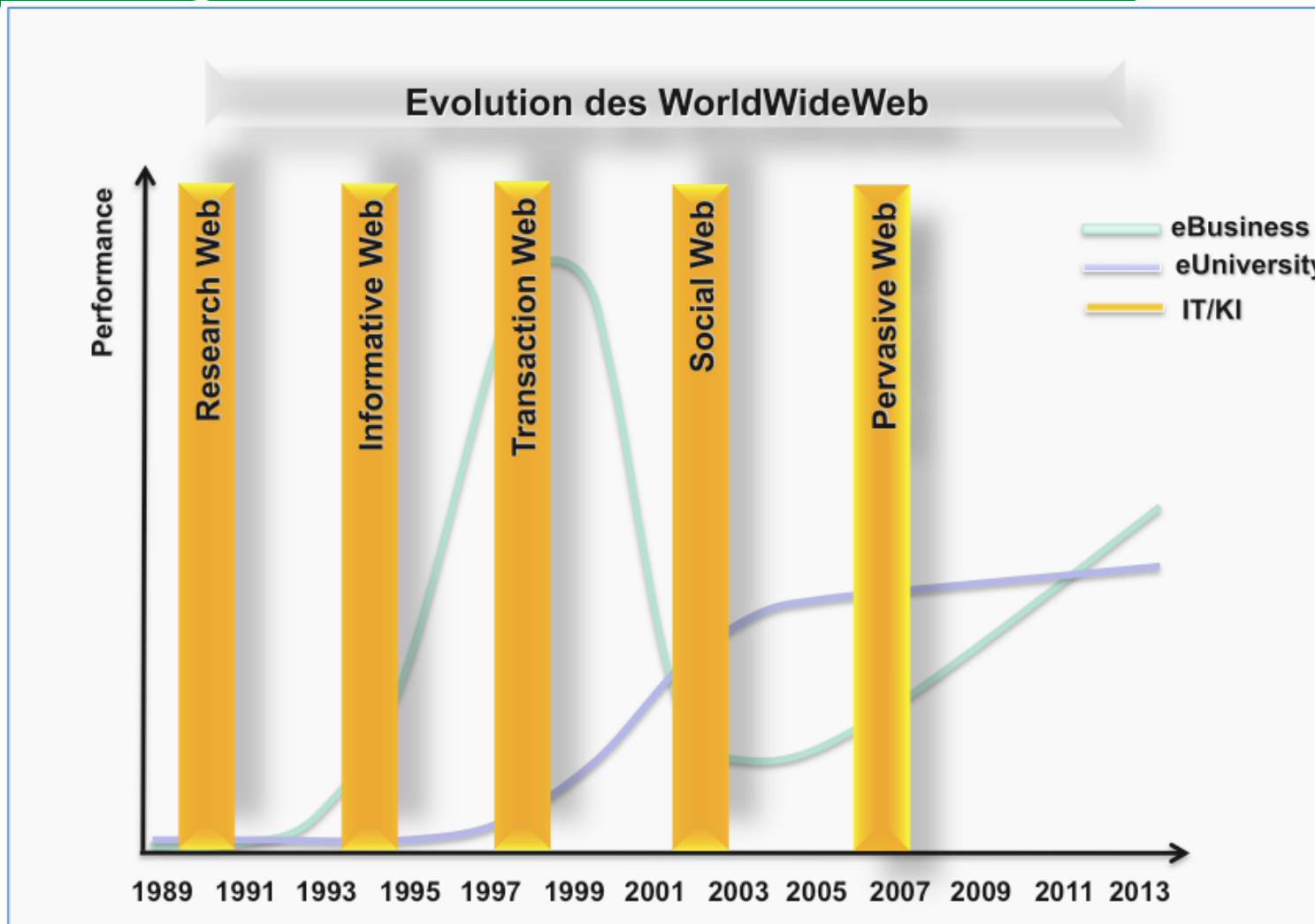
**Social sciences** i. a. sport psychology + sport sociology

**Time budget for retrieval, supply and  
processing of quality information, latest  
findings and knowledge?**

**The development of all scientific disciplines as well as of  
international elite sport is very dynamic**

## Selected ways of access to quality information and knowledge in elite sport

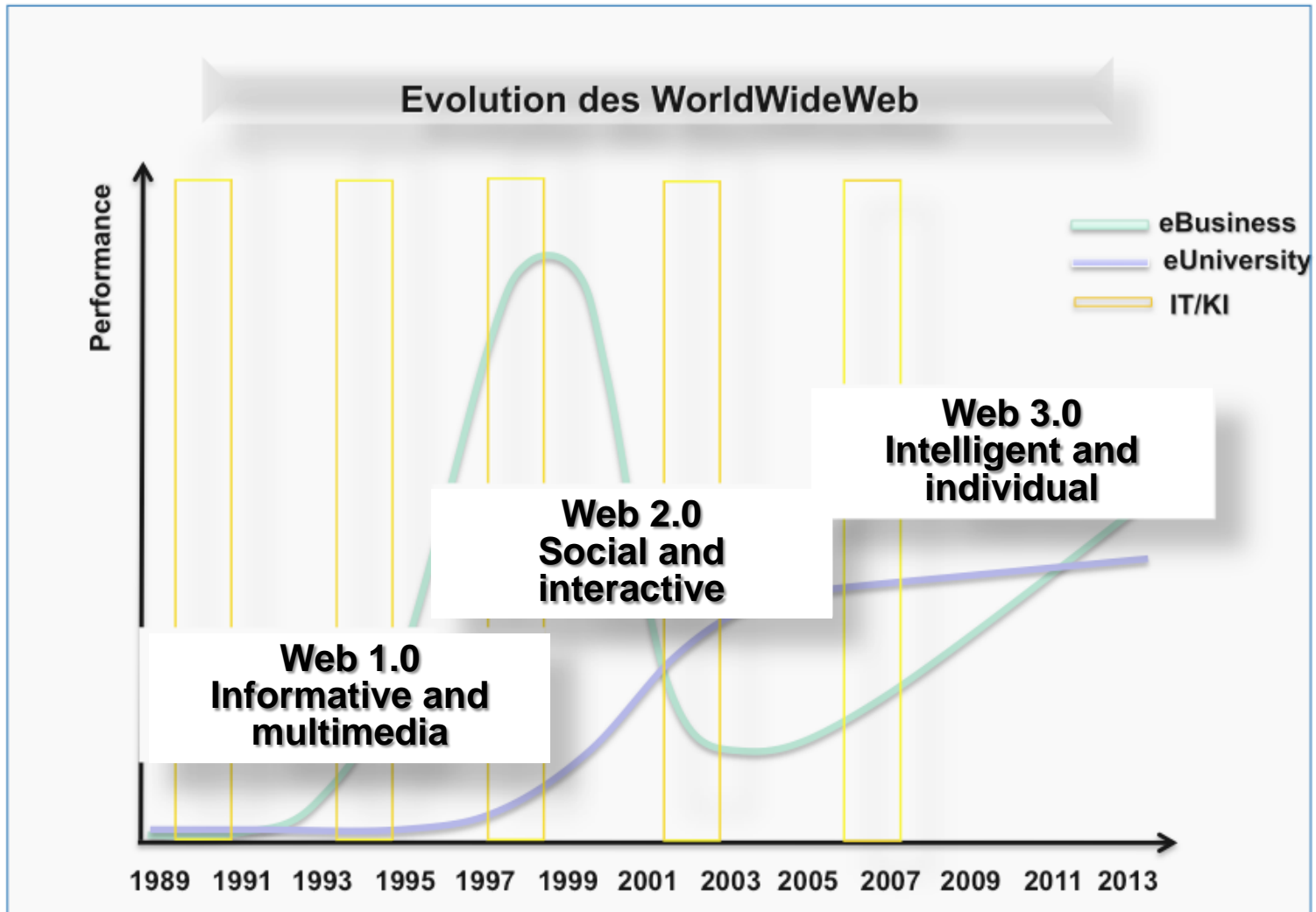
- **libraries (DSHS Cologne, universities, IAT) with books,**
- **journals, conference proceedings...**
- **databases (IAT, BISP, Ebsco, Medline...)**
- **videos, TV**
- **live observation of training sessions and competitions**
- **individual and organisational access** often decentralised access with differing
- **personal contacts, communication with the athletes** media, differing places, differing rules of
- **participation in congresses and workshops** access, free of charge or connected with additional costs...



(Kerres, 2006; Kerres & Nattland, 2006; Milius, 2006)

Source: Igel (2008). Informationsverhalten von Sportwissenschaftlern

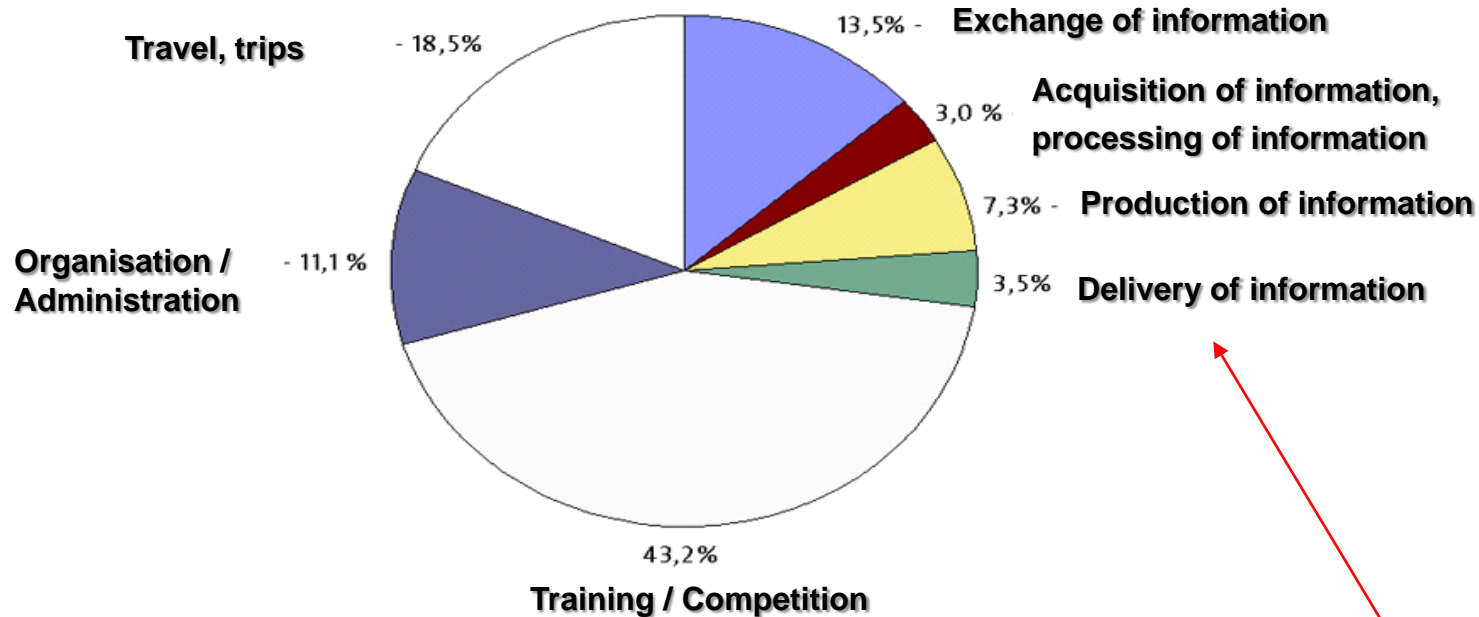




(Kerres, 2006; Kerres & Nattland, 2006; Milius, 2006)

Source: Igel (2008). Informationsverhalten von Sportwissenschaftlern

# Distribution of working load in elite coaching settings



**only 25 % for information retrieval, acquisition and exchange**

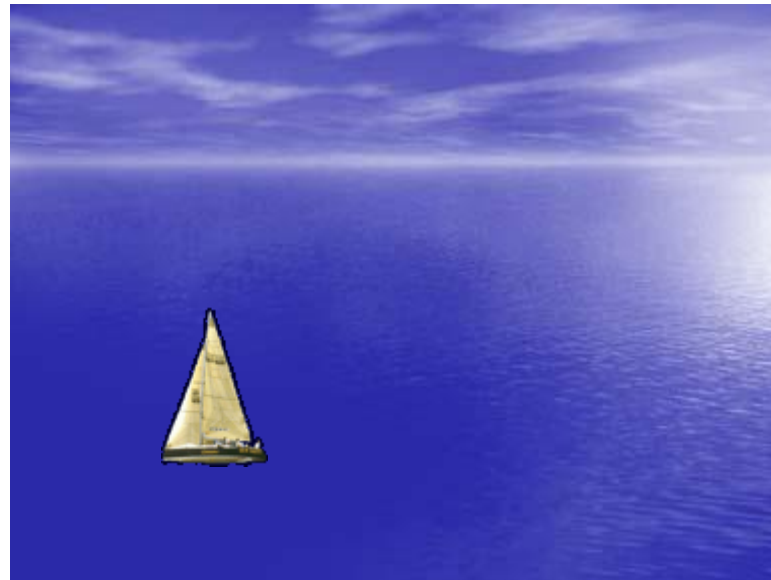
Source: Muckenhaupt (2008). Information supply for coaches

# Recent situation – Information overflow – the example of the Internet



- In 2006 Google indexed more than 25 Billions of free-access websites.
- The so called Deep Web is estimated to be approx. 500 times bigger [2005]
- In July 2008 Google had discovered one trillion unique URLs.

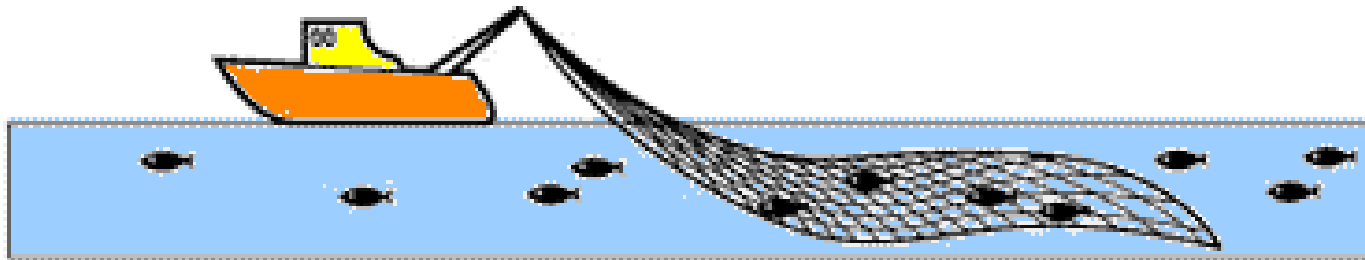
Medium	Terabyte
Surface Web	167
Deep Web	91.850
Emails	440.606
Instant Messaging	274
total	532.897



Dimensions of the Internet (2002)

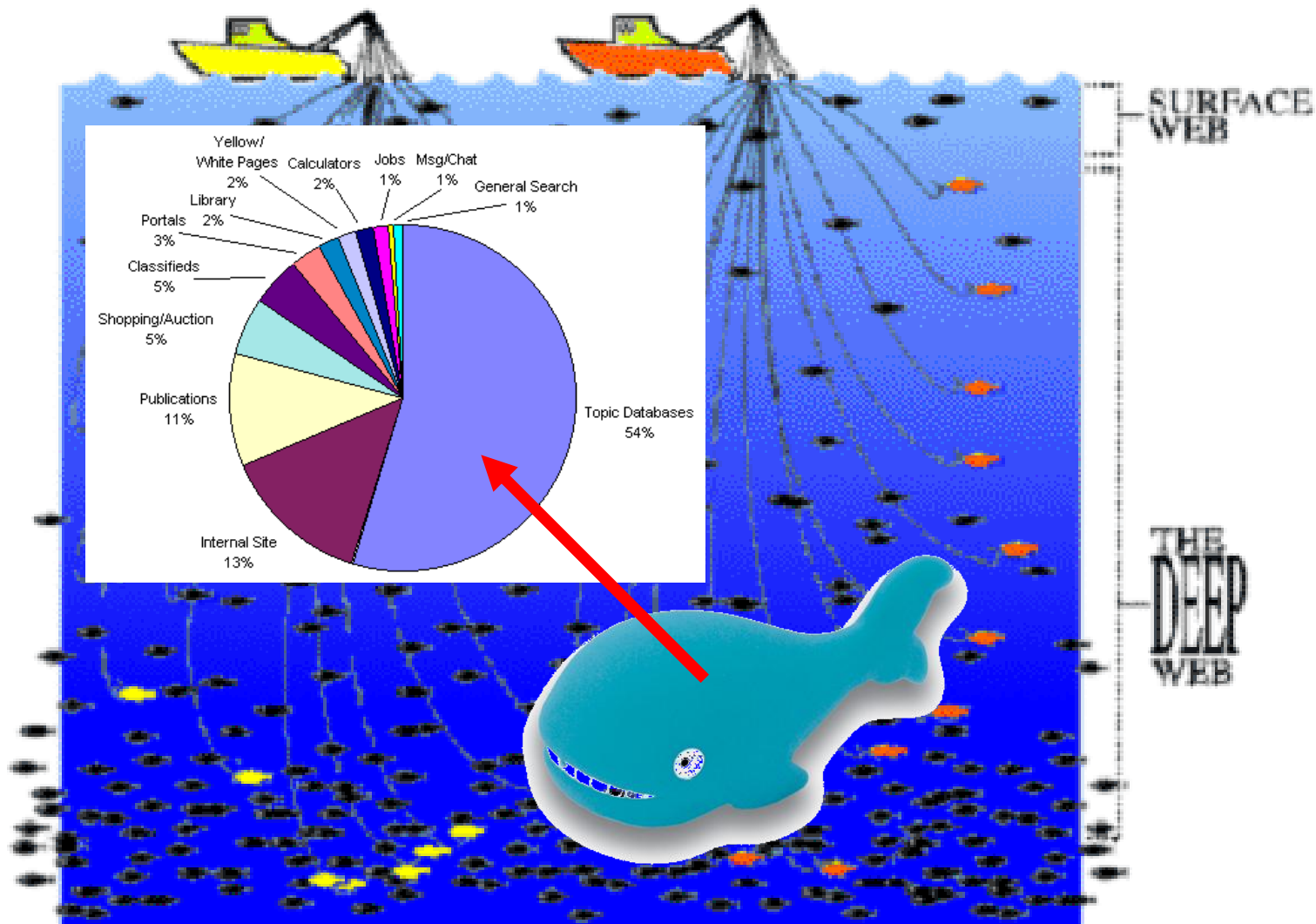
Source: How much information 2003

# Surface Web – The Google-World



— SURFACE  
WEB

# Deep Web



Source: White Paper @ <http://www.brightplanet.com/deepcontent/tutorials/DeepWeb/index.asp>

Source: [www.en.wikibooks.org](http://www.en.wikibooks.org)

- **topical bunching of information offers**
- **active information supply and distribution**
- **individualised information supply**
- **design and development of information networks (organisations, institutions, persons)**

# Virtual library Sport

The screenshot shows the ViFa:SPORT website interface. At the top, it displays the date and time (19.10.2007, 11:13:41 Uhr) and the logo 'ViFa:SPORT' with the tagline 'Virtuelle Fachbibliothek Sportwissenschaft'. Below the header, there are navigation options like 'Einfache Suche', 'Erweiterte Suche', 'Historie', 'Merkmale', 'Impressum', 'Hilfe', and 'LOGOUT [Externer Gast]'. On the left side, there is a sidebar with a 'Datenbank:' section listing various institutions and their 'Treffer:' (hits) counts. The main content area shows search results for the descriptor 'Judo'. It is divided into two sections: 'SPORTIF (Bundesinstitut für Sportwissenschaft)' with 893 hits and 'SPONET (Institut für Angewandte Trainingswissenschaft)' with 155 hits. Each section lists search results with details like author names, titles, years, and icons for document types or availability.

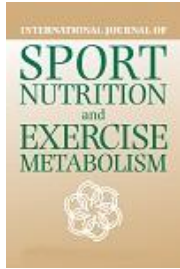
Suchergebnis	Deskriptor: Judo	Suche verändern
<b>SPORTIF (Bundesinstitut für Sportwissenschaft): Treffer 1 - 10 von 893 ▶</b>		
1 >>	Gebauer, Gunter ; Braun, Sebastian <a href="#">Kulturelles Kapital von Sporteliten - ein Sportartenvergleich im europäischen Vergleich</a>	2007
2 >>	Laskowski, Radoslaw <a href="#">Proba testowa do oceny specjalnych mozliwosci wysilkowch zawodniczek judo</a>	2007
3 >>	Mester, Joachim ; Mader, Alois ; Hartmann, Ulrich ; Komanns, Bernd <a href="#">Belastungsverträglichkeit in Abhängigkeit von Anpassungskapazität, Leistungsniveau und Trainingsinhalten bei Hochleistungssportlern in Ausdauer- und Kraftsportarten</a>	2007
4 >>	Pasincev, V.G. <a href="#">Algoritm aerobnoj rabotosposobnosti dzjudoistov</a>	2007
5 >>	Ehmler, Rainer ; Happ, Sigrid <a href="#">Den Gegner lesen die eigenen Signale verstehen. Der Akzent auf Wahrnehmung und Partnerschaftlichkeit fördert das Lesen und Verstehen von Körpersprache im Judo</a>	2007
6 >>	Poluchin, A.V. ; Gozin, V.V. ; Malkov, O.B. <a href="#">Sovershenstvovanie deistvil napadenija i aktivnoj oboronny v dzjudo</a>	2007
7 >>	Wick, Diltmar <a href="#">Erfassen individueller Bewegungsprofile angriffspezifischer Technik Elemente und deren Beeinflussung über das sensorimotorische Regulationsystem bei Spitzensportlern im Judo</a>	2007
8 >>	Degoutte, F. ; Jouanel, P. ; Begue, R.J. ; Colombier, M. ; Lac, G. ; Paquignot, J.M. ; Filaire, E. <a href="#">Food restriction, performance, biochemical, psychological, and endocrine changes in judo athletes</a>	2006
9 >>	Rychter, Oliver <a href="#">Judo</a>	2006
10 >>	Sviscev, I.D. ; Bucharin, A.V. <a href="#">Temp wpolnenija dzjudoistami tehniko-takticeskich deistvil v sorevnovatelnom poedinke</a>	2006
<b>SPONET (Institut für Angewandte Trainingswissenschaft): Treffer 1 - 10 von 155 ▶</b>		
1 >>	Oh, S. D. <a href="#">The distribution of VD polymorphism in the ACE gene among korean male elite athletes</a>	2007
2 >>	Pucsock J. M., Györe I., Argay K., Huszar E., Barát E., Pucsock J., Horváth I. <a href="#">Effect of exercise on levels of cyclo-oxygenase mediators in exhaled breath condensate in elite athletes</a>	2007
3 >>	Blais, L. <a href="#">Three-dimensional joint dynamics and energy expenditure during the execution of a judo throwing technique (Morote Seoi Nage)</a>	2007
4 >>	Bratic, M. <a href="#">Efekti specifichnih pripremih vezbi na kvalitet znanja i izvedenja tehnika u dzudou</a>	2006
5 >>	Mikheev, M. <a href="#">Motor control and cerebral hemispheric specialization in highly qualified judo wrestlers</a>	2002
6 >>	Yaegaki, M. <a href="#">Change in the capability of reactive oxygen species production by neutrophils following weight reduction in female judoists</a>	2007
7 >>	Green, C.M. <a href="#">Injuries among judokas during competition</a>	2007
8 >>	Rouveix, M. <a href="#">Eating attitudes, body esteem, perfectionism and anxiety of judo athletes and nonathletes</a>	2007
9 >>	Artoliu, G. G. <a href="#">Does sodium-bicarbonate ingestion improve simulated judo performance?</a>	2007
10 >>	Kubo, J. <a href="#">Differences in fat-free mass and muscle thicknesses at various sites according to performance level among judo athletes</a>	2006

ViFa:SPORT

...ing information services  
...the roof of a  
...top-shop

...rman Sport University Cologne  
...t. Appl. Training Science Leipzig  
...d. Inst. Sport Science Bonn  
...s Hamburg  
...Ebert-Foundation Bonn

# Training scientific information service SPONET - SPRINT



conference proceedings



electronic  
theses worldwide



more than 100  
journals

Google<sup>SM</sup>



active distribution of  
specialised information  
services based on  
individualised  
information profiles

DER  
SPORT  
VERLAG

latest books of 200  
publishing houses

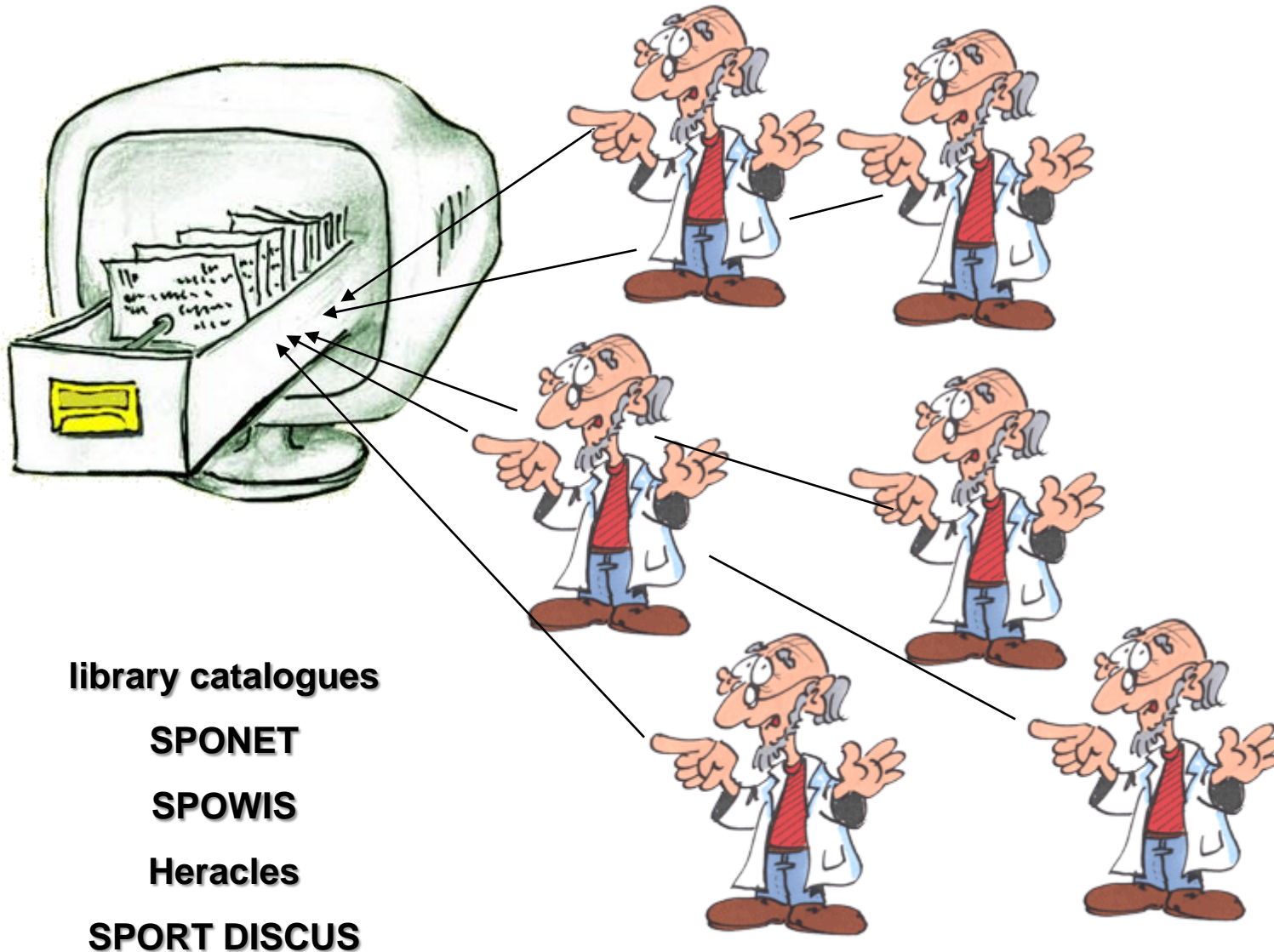


(inter)national databases

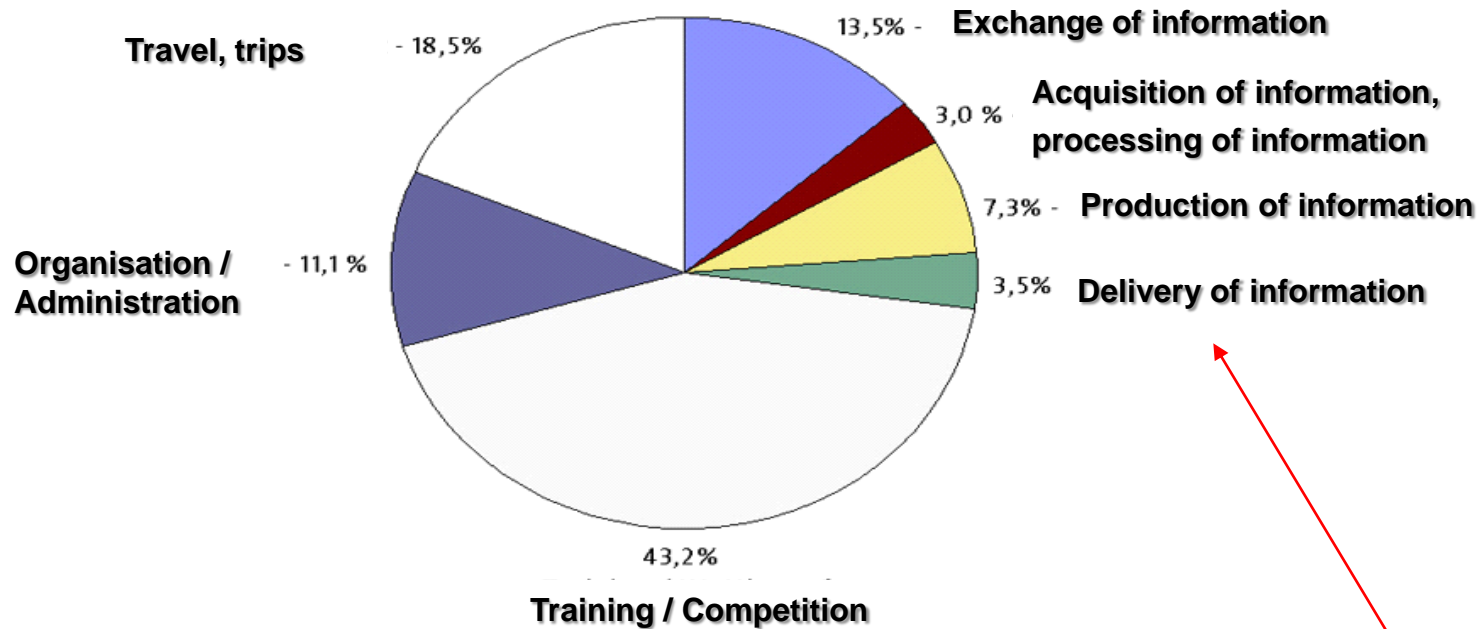




# Information delivery in academic environments



# Distribution of working load in elite coaching settings



**only 25 % for information retrieval, acquisition and exchange**

Source: Muckenhaupt (2008). Information supply for coaches

# Active information supply by SPRINT for coaches

für den **SPORTLER** 31.12.08  
mit dem **TRAINER**  
Forschung für den Spitzensport  
wissenschaftlich **FUNDIERT**

Institut für Angewandte Trainingswissenschaft  
Marschnerstraße 29  
04109 Leipzig  
Tel: +49 (341) 4945 01  
Fax: +49 (341) 4945 400  
[www.sport-iat.de](http://www.sport-iat.de)

Hallo Dr. Hartmut Sandner,

Ihr personalisierter Suchagent für die Neuerfassungen in den IAT-Publikationsdatenbanken hat folgende Ergebnisse für Sie:

- [1 Treffer für Profil Kampfsport / SPONET \(täglich\)](#)
- [4 Treffer für Profil komplett / SPORTBOX \(täglich\)](#)
- [3 Treffer für Profil SPONET komplett / SPONET5 \(täglich\)](#)

Die Ergebnisse nach Anfrageprofilen geordnet:

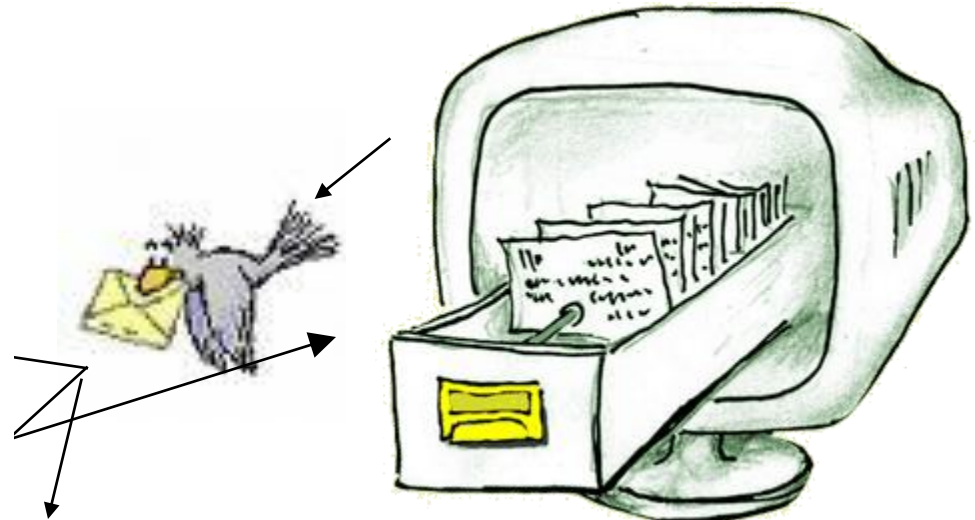
• **Profil 'Kampfsport' - Datenbank SPONET**

1. [Ulkar, B. & Kunduracioglu, B. \(2008\). Evaluation of the knee laxities of wrestlers \(Untersuchung von Knie-Instabilitäten bei Ringern\). \*Biol. Sport\*, 25 \(4\), 361-369. \(Mikrofiche-Nummer: \[305560\]\(#\)\)](#)

• **Profil 'komplett' - Datenbank SPORTBOX**

1. [Danckert, P. & Schück, H. \(2009\). \*Kraftmaschine Parlament\*. Aachen: Meyer & Meyer.](#)

Der Rechtsanwalt und Vorsitzende des Sportausschusses des Deutschen Bundestags schreibt "klar, kantig und überzeugend" über die Geschichte der Sportförderung in der Bundesrepublik Deutschland - mit den Anfängen der Sportdebatten im Plenum des Deutschen Bundestags 1967 bis hin zu einer Vision und sportpolitischen Zielstellungen für die kommenden Legislaturperioden. Des Weiteren wird in einem Kapitel das Verhältnis zwischen den unabhängigen Institutionen und Organisationen des Sports und der staatlichen Förderung wird sehr klar und deutlich gezeichnet. In diesem Zusammenhang wird auch ganz deutlich die Arbeit des Sportausschusses des Deutschen Bundestags beleuchtet. Damit das Verhältnis Staat-Sport so funktioniert, wurden schon 1978 drei Eckpfeiler festgeschrieben, die heute noch als das staatliche Bekenntnis zu Daseinsvorsorge gelten: 1) die Autonomie des Sports 2) die Subsidiarität der Sportförderung 3) ein partnerschaftliches Zusammenwirken. Natürlich darf auch eine klare Betrachtung des Themas Doping nicht fehlen. Schon 1977 wurde sich in einem "öffentlichen Dopinghearing" offensiv mit der Thematik auseinandergesetzt, damals jedoch "verhinderte ein falsches



library catalogues

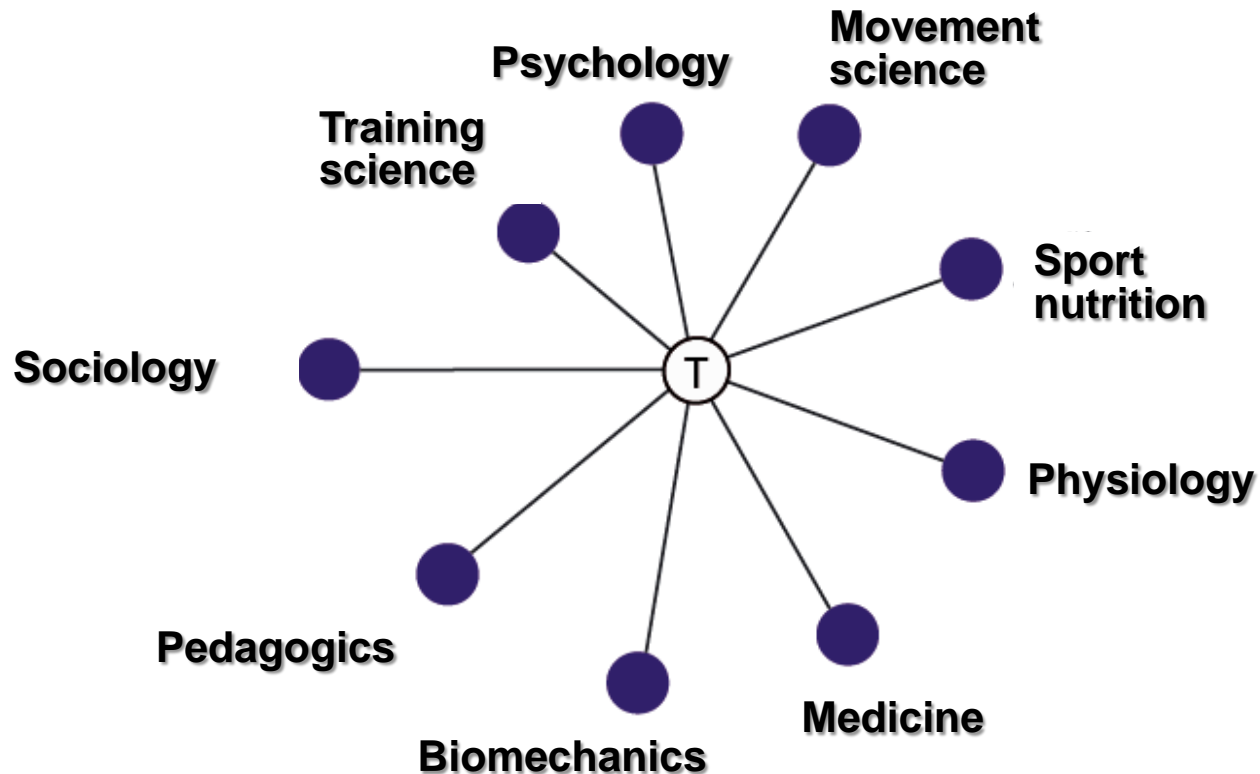
SPONET

SPOWIS

Heracles

SPORT DISCUS

# Elite coaches' topics of major interest



Source: Muckenhaupt (2008). Information supply for coaches

# Representation of major topics in SPONET / SPRINT

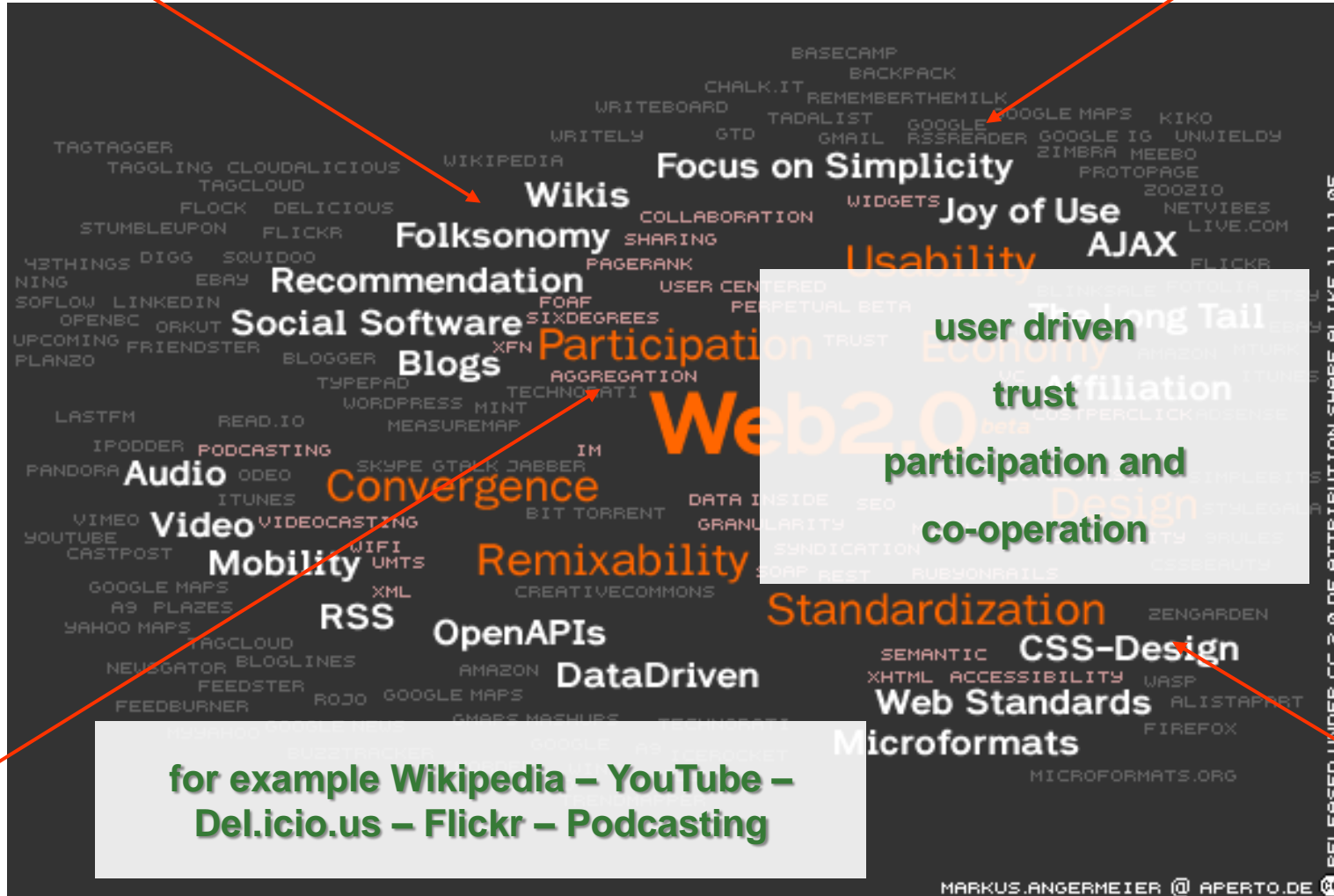
- actual information - 288
- academic training and research – 279
- endurance sports – 4787
- sports for handicapped people - 107
- biological and medical sciences - 7711
- spare-time sport - 11
- combat sport – 628
- strength and power sports- 1267
- management and organisation - 255
- junior elite sport - 1097
- natural science and technology - 1936
- organisations and events - 724
- sport at schools - 46
- social sciences - 927
- team sports - 2446
- sport history and sport politics - 372
- sport facilities and apparatuses - 127
- technical sports - 1038
- training science - 3428



- **adapted to and controlled by the individual information need of sport / training scientists and coaches**
- **service can be accessed without temporal and local restrictions and has options for interactions**
- **serves the professional and individual further education**
- **is characterised by actuality and professional competence**
- **the services can be used parallel to other activities**

# SPRINT 2.0

## A training scientific information and documentation network in elite sport



for example Wikipedia – YouTube – Del.icio.us – Flickr – Podcasting

user driven  
trust  
participation and  
co-operation

RELEASED UNDER CC 2.0 DE ATTRIBUTION SHARE ALIKE 11.11.05

MARKUS.ANGERMEIER @ APERTO.DE

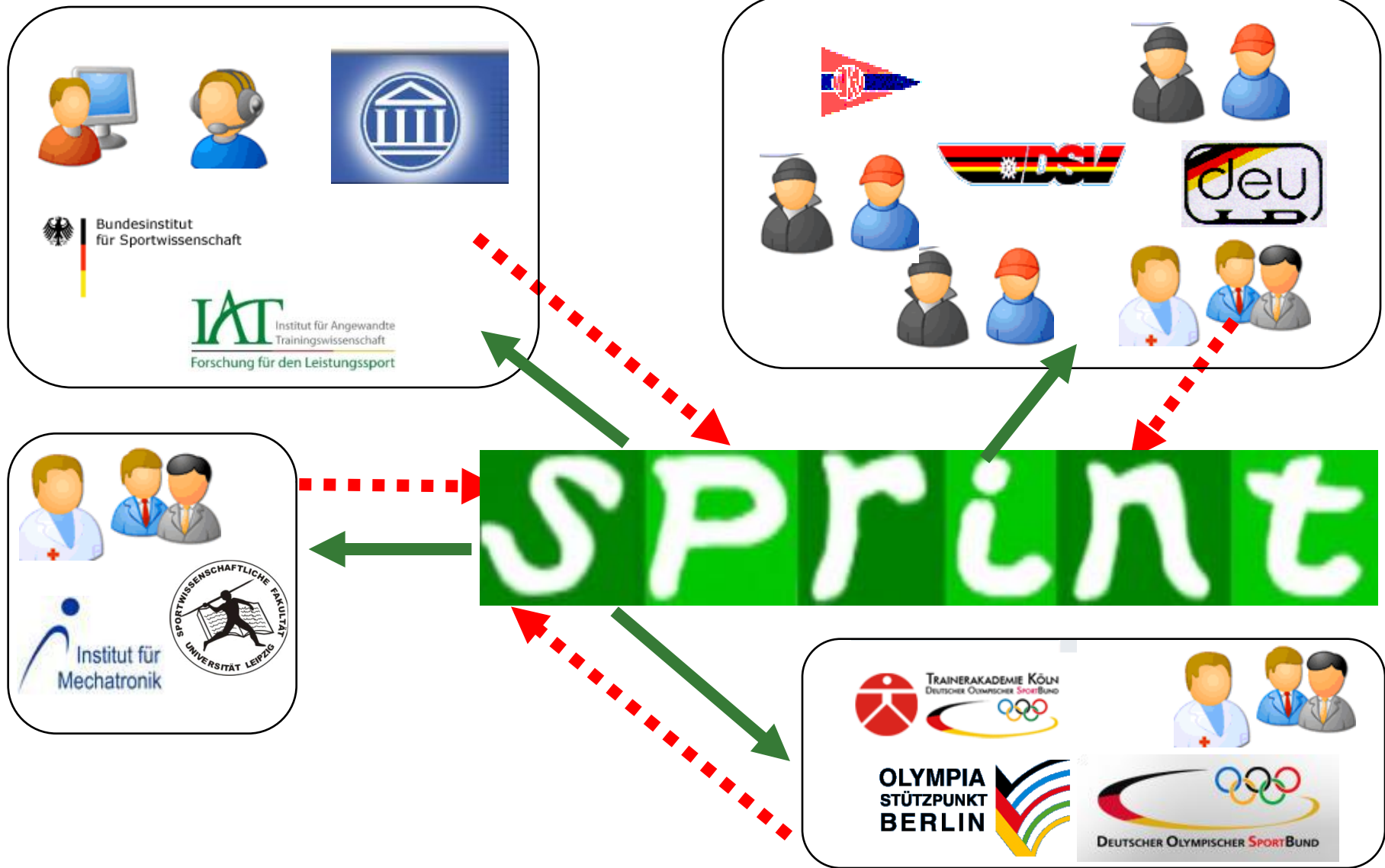
# Basic approach for SPRINT 2.0

**Participation of many partners, information and knowledge supply by many partners, use and application by many partners**

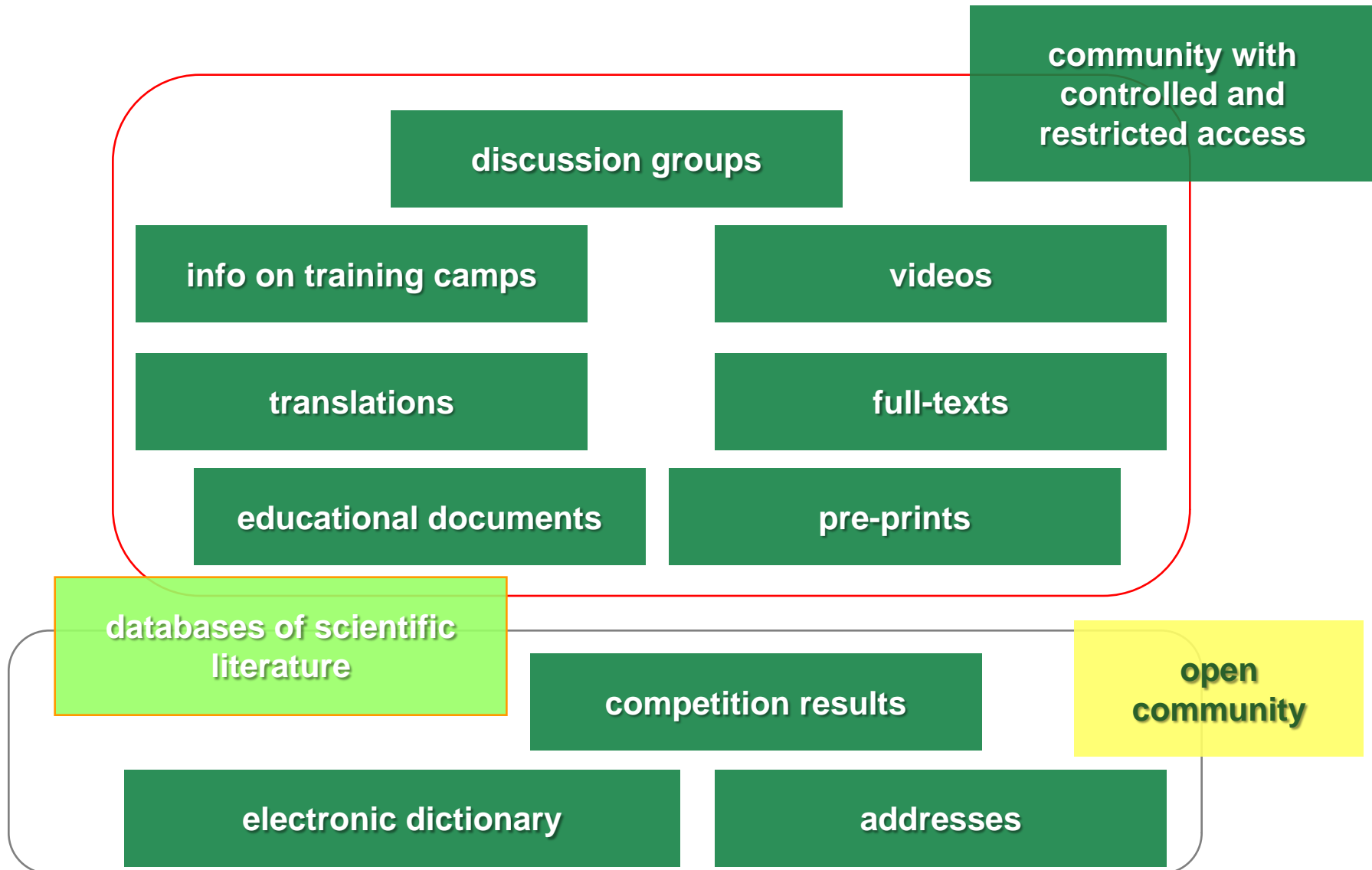
	ways of I + K supply and distribution	document types	assembling of I + K (initiated by)	description of the content of I + K
traditional	via I/D-institutions	Print media selected fulltexts Internetmedia videos	German Sport Uni., Inst. Appl. Training Sci., Fed. Inst. Sport Sci.	German Sport Uni., Inst. Appl. Training Sci., Fed. Inst. Sport Sci.
<b>new</b>	via I/D-institutions, but also <b>direct links between users/partners</b>	printmedia fulltexts Internetmedia videos <b>diskussion forums</b> <b>blogs</b> <b>wikis</b>	German Sport Uni., Inst. Appl. Training Sci., Fed. Inst. Sport Sci. + <b>all users / partners</b>	German Sport Uni., Inst. Appl. Training Sci., Fed. Inst. Sport Sci. etc. + <b>all users / partners (co-operative approach)</b>



# Information supply and information application



# Examples for co-operative SPRINT - services



„Web 2.0“ describes a changed recognition, understanding and application of the Web, mainly from the organisational point of view: Content is not any longer provided centrally by big „media“ (institutions), the so called „fourth power“, only and supplied res. distributed to the mass audience, but also by independent persons who are inter-connected, the so called „fifth power“... Besides the traditional strict distinction between the role of a processor res. provider of information on the one side and the pure consumer of information on the other side services and offers can be found res. appear with partial or temporal reversal of the roles.



SPONET
Institut für Angewandte Trainingswissenschaft

Anzeige
Auswahl
Suche
Listen
Ergebnis
Ende

Kurzform Langform

Sortierung nach Erfassungsdatum - neue zuerst

alphabetisch nach Autor

Suchauftrag: Deskriptoren: Kanurennsport  
Treffer: 74 (sortiert)  
angezeigte Treffer: 1-10

im Ergebnis springen: 1 10 20 30 40 50 60 70

1 von 74 [»](#)

<b>Nummer:</b>	013941
<b>URL:</b>	<a href="http://www.informaworld.com/spont/content-content=a781058964-dt=all-order=name">http://www.informaworld.com/spont/content-content=a781058964-dt=all-order=name</a>
<b>Autor:</b>	Rudge, B.R., Broad, E., Kerr, D.A., Ackland, K.R.
<b>Jahr:</b>	2007
<b>originaler Titel:</b>	Morphological characteristics of Olympic slalom canoe and kayak paddlers
<b>übersetzter Titel (DE):</b>	Morphologische Charakteristika von Renn- und Slalomkanuten, die an Olympischen Spielen teilnehmen
<b>Gesamttitle JT:</b>	Eur. J. Sport Sci.
<b>Volume:</b>	7
<b>Hefnummer:</b>	2
<b>Seiten:</b>	107-113
<b>Level:</b>	hoch
<b>Land:</b>	Großbritannien
<b>Sprachen:</b>	Englisch
<b>Notation:</b>	Ausdauersportarten; Biowissenschaften und Sportmedizin
<b>Type</b>	Artikel
<b>(Dokumententyp):</b>	
<b>Deskriptoren:</b>	Kanurennsport; Kanuslalom; Kanusport; Anthropometrie; Körpermaße; Atmung; Hochleistungssport; Leistungssport
<b>Referat:</b>	Sidney and Shephard (1973) were the first to report on the morphology of slalom paddlers and characterized them as having "a substantial standing height and lean body mass, good general muscle development with particular emphasis on the leg muscles". The purpose of this study was to analyse the morphological characteristics of Olympic slalom kayak and canoe paddlers to determine whether they possess unique physique or structural characteristics that provide an advantage for their sport. Thirty-one male and 12 female slalom paddlers were measured using a battery of 36 anthropometric dimensions in the 15-day period before competition at the 2000 Olympic Games. Male slalom paddlers were taller, lighter, shorter, and leaner than previously reported slalom paddlers and had similar height and weight to a reference population of non-athletes. Compared with Olympic sprint paddlers, male slalom paddlers were older, lighter and shorter, and had similar body fat and almost identical proportionality characteristics. Female slalom paddlers were taller, lighter, older, and less fat than those reported previously. They were taller and lighter than the reference population of non-athletes and of similar age and height but lighter and leaner than the Olympic sprint paddlers. While a high brachial index was reported for both male and female slalom paddlers, the Best male paddlers (those ranked in the top 10 placings) were more compact, had smaller proportional hip girth, and showed a tendency for smaller proportional hip breadth but a larger proportional waist girth than the Rest (those not ranked in the top 10 placings). Changes to the technical aspect of the events and to competition rules and the nature and approach to training were explored as possible reasons for some of these differences. We outline the contribution this research makes to talent identification and highlight the need for further research.
<b>ausgewertet am:</b>	09.08.2007


tagging  
[www.del.icio.us](http://www.del.icio.us)

adding comments -  
discussing -  
translating


# SPRINT WIKI



IAT Institut für Angewandte Trainingswissenschaft  
Forschung für den Leistungssport



DSV



Institut für Mechatronik



Bundesinstitut für Sportwissenschaft

# SPRINT WIKI

**SPRINTWIKI**  
as a vertical  
portal for elite  
sport training



TRAINERAKADEMIE KÖLN  
DEUTSCHER OLYMPISCHER SPORTBUND

OLYMPIA STÜTZPUNKT BERLIN

DEUTSCHER OLYMPISCHER SPORTBUND

# Secured discussion groups – example www.studivz.de

**STUDIVERZEICHNIS** suche einladen Hilfe Markttext boutique einstieg raus hier  
Copenhagen Business School

**studivz.de** Web  
Leute finden

Start  
Meine Seite ändern  
Meine Freunde  
Meine Fotos  
Meine Gruppen  
Nachrichtendienst  
Mein Account  
Privatsphäre

Der studivz-Eleganz Kalender 2008 ist endlich da! Überrasche deine Freunde zu Weihnachten -  
**Bestell deinen Kalender hier!**  
Fotos von der studivz-Eleganz bei Nacht Fete gibt's hier und hier.  
Top 100  
Online Radio  
Musical Hamburg  
Play Station 3

**Julia Sandners Seite**

**Verbindung**  
Hartmut Sandner  
Julia Sandner

**Information**  
**Account**  
Name: Julia Sandner  
Mitglied seit: 30.08.2006  
Letztes Update: 05.12.2007  
**Allgemeines**  
Hochschule: Copenhagen Business School (seit 2006)  
Status: Studentin  
Geschlecht: weiblich  
Geburtsjahr: 21.03.1982  
Heimatland: Dänemarksøge 8  
Heimatstadt: 2300 Kopenhagen  
Letzte Schule: Sportgymnasium Leipzig, Leipzig  
**Kontakt**  
Auf der Suche nach: netten Leuten, was sich eben ergibt  
Beziehungsstatus: Romanze  
Interessen: Sport, Reisen, Kochen  
Musikgeschmack: Christians Gitarrensolos  
**Arbeit**  
Art des Jobs: fleißige(r) Arbeiter(in)  
Firma: Börneuniversität  
Position / Job-Titel: Folkeskoleleærer

**Gemeinsame Freunde**  
Du hast keine gemeinsamen Freunde mit Julia

**Freunde (gleiche Hochschule)**  
**Andere Hochschulen**  
Julia hat 70 Freunde an...  
HU Berlin (1) Uni Kiel (1)  
Uni Bielefeld (2) Uni Leipzig (13)  
TU Chemnitz (1) HTWK Leipzig (2)  
TU Dresden (2) Uni Lüneburg (1)  
Uni Erfurt (1) LMU München (1)  
Uni Flensburg (24) TU München (1)  
Frankfurt School of Finance & Management (1) Uni Münster (1)  
FH Stralsund (1) FH Stralsund (1)  
FH Zwickau (1) PH Freiburg (1) FH Ansbach (1)  
Uni Gießen (1) BA Leipzig (1)  
Uni Göttingen (1) HAM Nijmegen (1)  
Uni Greifswald (1) FHV Bielefeld (1)  
FernU Hagen (1) Private-BA Leipzig (1)  
MLU Halle- (1) Hochschule  
Wittenberg (3) Darmstadt (1)  
Uni Hamburg (1) Uni Jena (1)

[ alle Freunde anzeigen ]

**Gruppen**

- "Sportler sind die geilsten Menschen der Welt"
- Deutschsprachige in Dänemark
- Die Sandners
- Dänisch
- Dänisch an der Uni Flensburg
- Erasmus Kopenhagen 2006/07
- gebi am 21.3 endlich BEGINNT wiDDer der FRÜHLING!
- Handball
- Jogginghosen-Liebhaber (dahem nix anners!!!)
- Kopenhagen
- Kreuzbandriss ist scheiße
- LE-Players
- Marlene & Pia machen Chaos in Oure - Das wird ein Spaß
- März-Geburstagskinder
- Schulterauskugler
- SpoGyma Leipzig
- Sporties
- Sportstudenten der UNI FL
- Tauschbörse für Unterrichtsentwürfe und Materialien
- Weisse Sneakers Gang
- Welthauptstadt Leipzig
- Wenn Handball einfach wäre, würde es ja Fußball heißen!

**Friends / partners by  
individual invitation**

**Photo- and/or video folders**

**Personal contact info as well  
as info on fields of interest**

**Info on institutions and  
persons of your individual  
network which can be  
contacted**

**List of discussion group you  
are member of and you have  
access to**


**General news service for  
individually selected topics**

Source: www.studivz.de

# SPRINT GROUP



IAT Institut für Angewandte Trainingswissenschaft  
Forschung für den Leistungssport



DSV  
deu



Institut für Mechatronik  
Bundesinstitut für Sportwissenschaft

# SPRINT GROUP



TRAINERAKADEMIE KÖLN  
DEUTSCHER OLYMPISCHER SPORTBUND



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# Video database in elite sport – Sevenload, YouTube

sevenload

The screenshot shows the Sevenload website interface. At the top, there are navigation tabs for 'KANALE', 'BILDER', 'VIDEOS', 'Big Brother', 'COMMUNITY', 'MEIN SEVENLOAD', and 'UPLAOD'. Below this is a search bar and a 'Suchen' button. The main content area features a video player with a 'Rechtturnen' video. To the right of the video player, there are sections for 'Weitere Uploads', 'Navigation', 'Wähle sevenload zur Website des Jahres', 'Standbilder', and 'Ähnliche Bilder & Videos'. At the bottom, there is a 'Kommentar hinzufügen' section and a 'Link speichern' section.

Searching and browsing options

Videoplayer

Photos and other documents

Comments

You Tube

The screenshot shows the YouTube website interface. At the top, there are navigation tabs for 'Videos', 'Kategorien', 'Kanäle', and 'Community'. Below this is a search bar and a 'Suchen' button. The main content area features a video player with a 'WM Quali Berlin Turnen' video. To the right of the video player, there are sections for 'Infos zu diesem Video', 'Mehr von: DieMara72', and 'Promote Videos'. At the bottom, there is a 'Möchtest du einen Kommentar abgeben?' section and a 'Suchen' button.

Sources: [www.sevenload.de](http://www.sevenload.de) & [www.youtube.de](http://www.youtube.de)

# Video database in elite sport – SPIDAR (AIS Canberra)

## Information & Digital Asset Repository

coaching activity is often supported by video and other digital technologies to better understand, measure, and improve athletic performance in training, competition and research



Video recordings  
Photographic images  
Statistical & notational data  
X-rays & medical scans  
Animation & graphics  
Proprietary performance analysis software  
files



Source: G. Reynolds: SPIDAR (2007)



**Better informed!**

**but**

**citius – altius - fortius ?**

**Thank you for your attention!**



**Institute for Applied Training Science (IAT)  
Marschnerstraße 29, 04109 Leipzig, Germany**

**Dr. Hartmut Sandner  
Fachbereichsleiter IKS  
E-mail: sandner@iat.uni-leipzig.de  
Phone: + 49 341 4945 - 133  
Fax: + 49 341 4945 - 400**

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