

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

**The Sports Documentation of the German Federal Institute of  
Sports Science (BISp) - status quo and future objectives and  
projects.**

**Werner Kloock**  
Federal Institute of Sports Science (BISp)  
Bonn, 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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Australian Government  
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**Mr. Werner Kloock**

Federal Institute of Sport Science, Germany

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## The Sports Documentation of the German Federal Institute of Sports Science (BISp) - Status quo and future objectives and projects

**Werner Kloock**  
Federal Institute of Sports Science (BISp)  
Bonn, Germany



*Wir helfen dem Sport ...*



## Outline

1. Sport organisation in Germany
2. BISp: Location and historical background, legal status and structure
3. Documentation and Information
4. Information about one of the two research projects: initiation and funding by the BISp: “Coach Campaign”
  - a) “Coach profession profile” (Prof. Helmut Digel, Institute of Sport Science University of Tübingen, Germany)
  - b) “Coach information supply” (Prof. Manfred Muckenhaupt, Institute of Media Science, University of Tübingen, Germany)
5. Summery



Federal states: 16

Population: >82 millions

One of three Germans play sports  
in a club

Top sports (in terms of  
participation): soccer, handball,  
basketball, gymnastics/ fitness,  
athletics

Sport in Germany is autonomous;  
the German State acts upon the  
principle of subsidiarity  
Non-existence of a national sport  
act

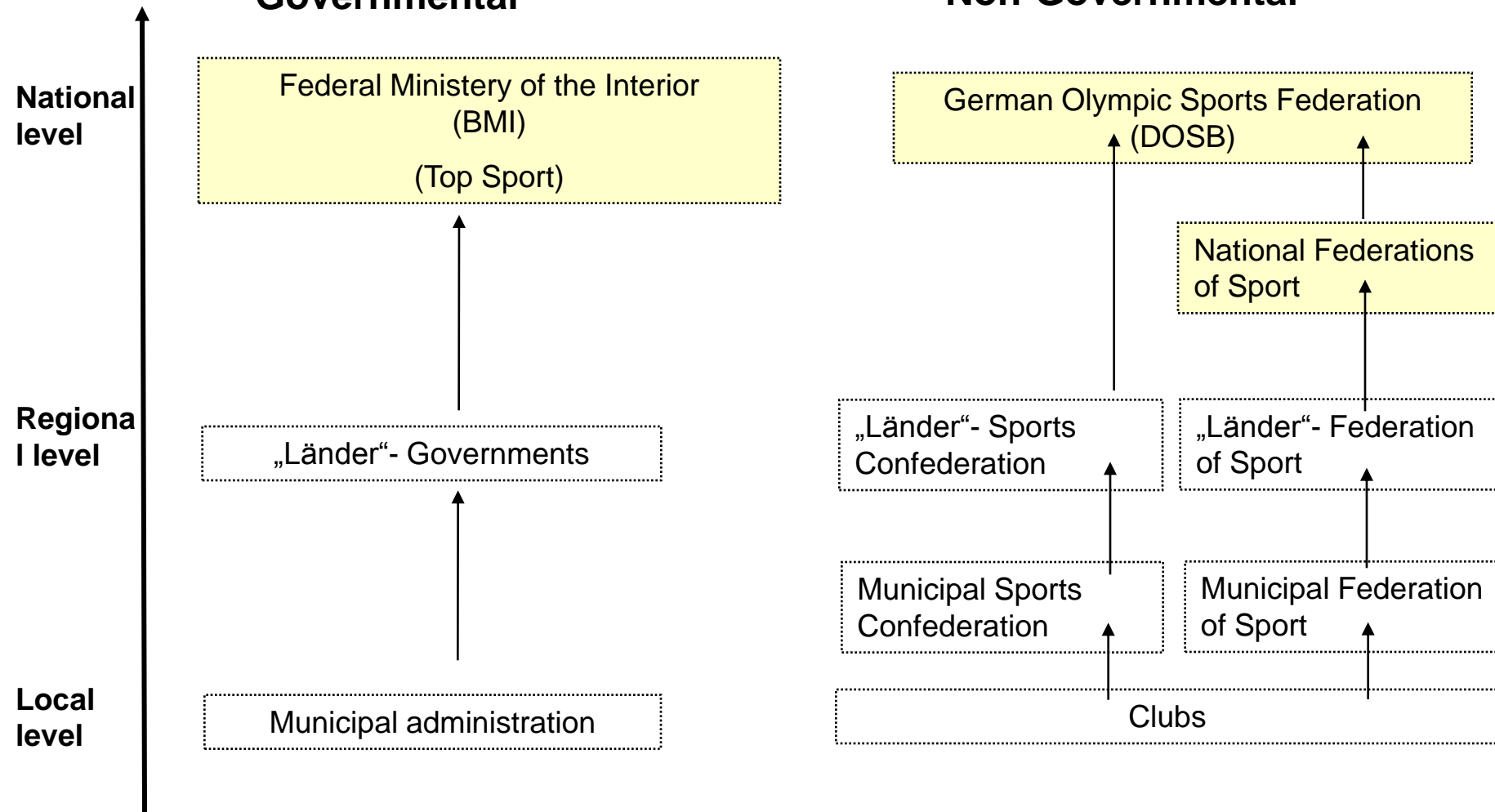
Source: Häußler



# Organisation of German sport

## Governmental

## Non-Governmental





# Scientific Network System for Performance Sport (WVL)

The BISp does not act independently but in cooperation with its partners from sports science, sports practice and sports politics



Sport Federations (SFs)  
Science coordinators  
National coaches, top level athletes



Universities, Special Sport Institutions

# WVL

National - & Olympic training centers (OSP)







# Location



## Bundesinstitut für Sportwissenschaft

Graurheindorfer Straße 198 - 53117 Bonn

Postfach 170148 - 53027 Bonn

Ph: +49/228/99 640-0 — Fax:+49/228/99 640-9007

E-Mail: [info@bisp.de](mailto:info@bisp.de) — [http:// www.bisp.de](http://www.bisp.de)

Geoinformationen (VG1000)  
© Bundesamt für Kartographie und Geodäsie ([www.bkg.bund.de](http://www.bkg.bund.de))  
Generalisierung Statistisches Bundesamt Wiesbaden



## Historical Background

- Foundation in 1970
- To contribute to the development of sporting excellence and to ensure an even playing field in international competitions
- Development of research programmes, latest revision in 2007
- Anti-doping analytics & research, laboratories in Cologne and Kreischa, 1975-2005
- Development and support of scientific databases
- Publication of scientific literature
- Launch of the internet portal „Sport Psychology for top level sports“ in 2002



## ***The Federal Institute of Sport Science (BISp)***

was founded by a decree of the Federal Minister of the Interior in close collaboration with the German Sports Federation (DSB/ DOSB) in 1970, based on the awareness that

- < in order to give German athletes an equal chance for success in international competitions,
- < sport cannot do without scientific support
- < support of elite sport has the highest priority at the federal level.



## Legal status:

The Federal Institute of Sports Science/ *BISp* is

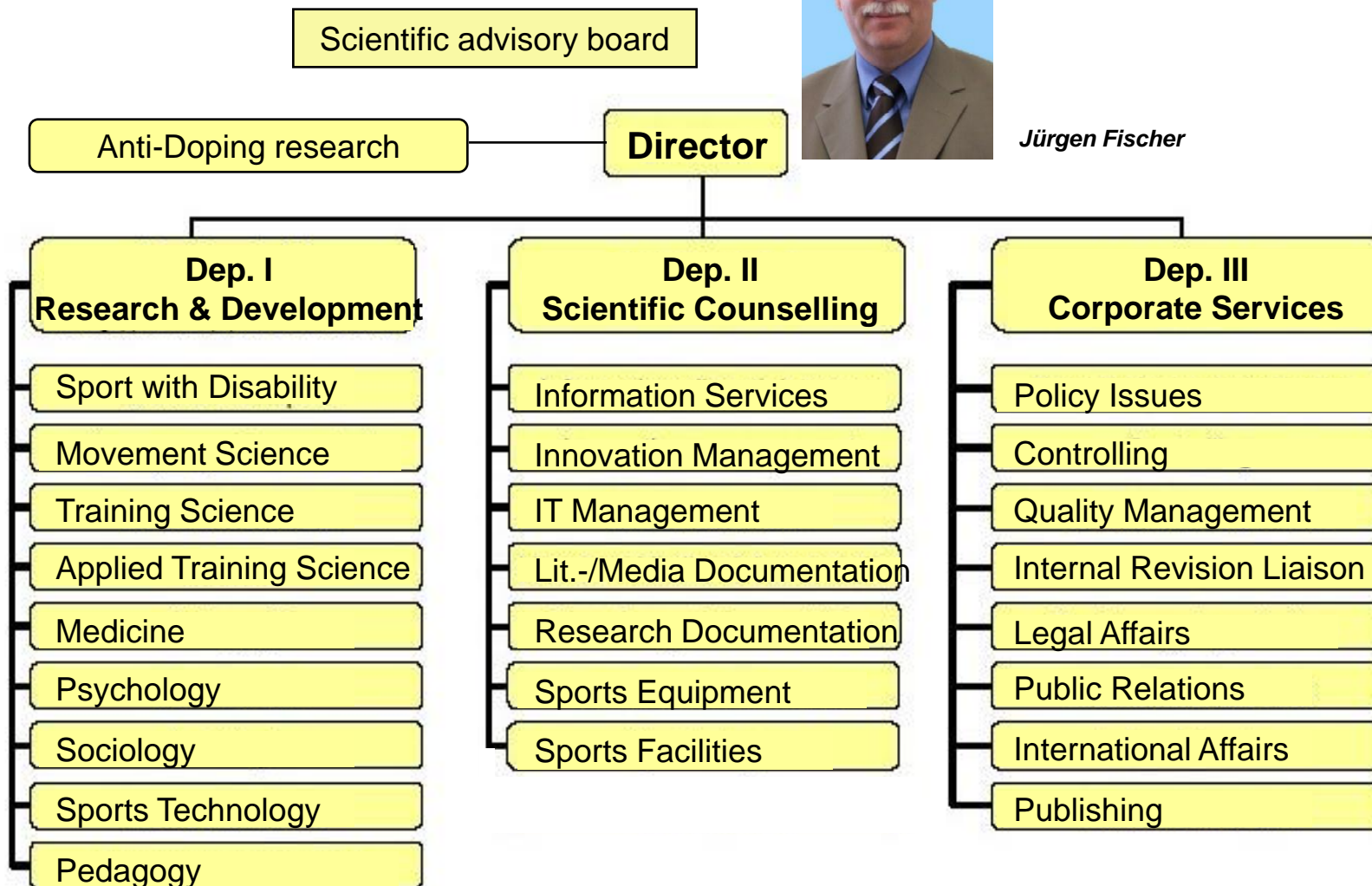
- a federal agency without independent legal capacity, attached to the Federal Ministry of the Interior
- subject to the jurisdictional regulations that apply to the Federal Government and federal agencies in the area of sport
- advised by a directory board



# Structure BISp



Jürgen Fischer





# Major tasks

- Identifying and initiating
- Coordinating
- Evaluation and Transferring



Promotion of research

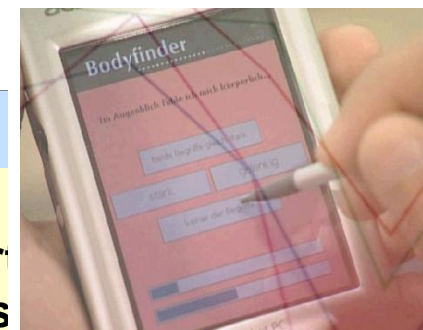
Documentation of research

**BISp is responsible for supporting and optimizing performance at**

**Information services**

Top level sports  
(including talent identification)

**Sport cons**



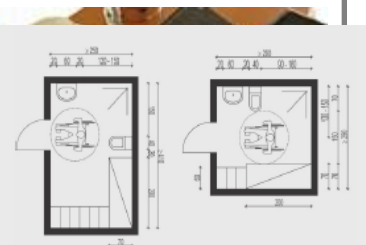
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With the Federal Ministry of the Interior BMI

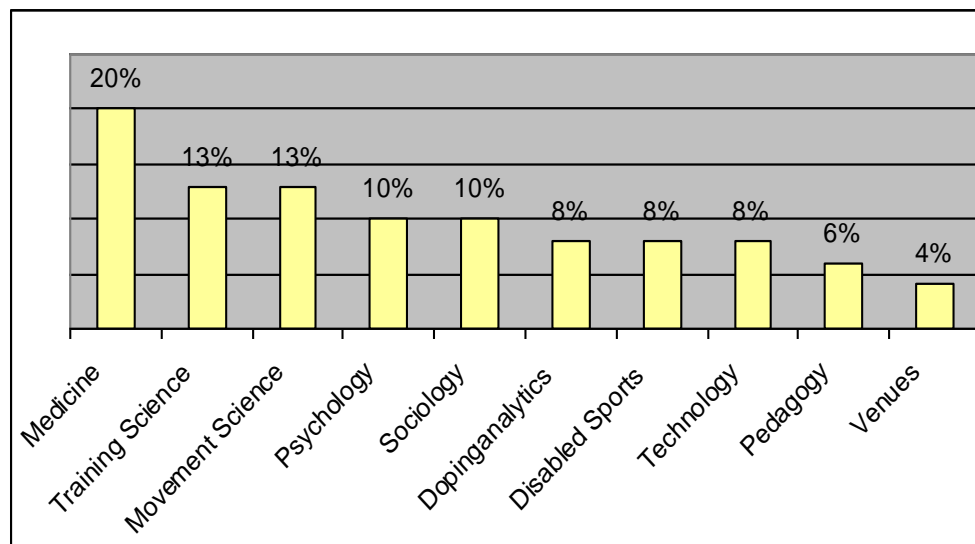
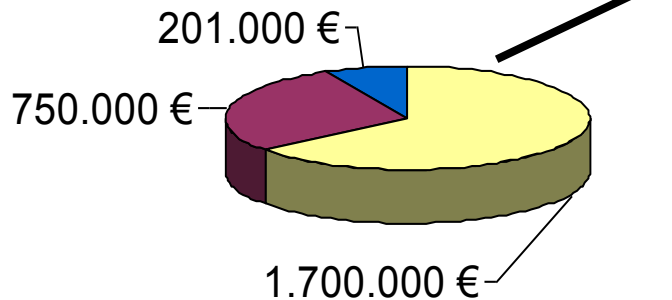
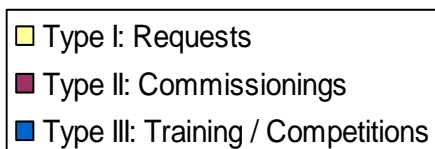


Source: Häußler



# Annual research budget

- Total 2.651.000 €
- Divided into three types of research:





## BISp: Department II – „Scientific Counselling“: *Documentation and Information*

- The core of the information processing are the three databases run by the BISp: SPOFOR, SPOLIT, SPOMEDIA, (research, literature and media documentation) as well as the Specialist Sports Information Guide (quality-secured internet sources)
- These special information products are used for initiation and support of research and for coordinating research projects
- Platforms and portals have been developed as user-friendly search-tools. Using these platforms and portals, the BISp's databases can be searched simultaneously





Information services: instruments of co-ordination for the promotion of research projects

**SPOFOR** contains the description of more than 6.200 sport science research projects from Germany, Austria and Switzerland since 1990

**SPOLIT** contains national and international sport science literature with more than 161.000 documents (books, journal articles, chapters/articles in books, working papers etc.) since 1970. (Nearly to 4000 publications are annually selected and documented. SPOLIT covers the sports literature of Germany, Austria, Switzerland and a lot of foreign publications)

**SPOMEDIA** contains more than 1.600 media (AV-media)

**Specialist Sports Information Guide** (Fachinformationsführer) contains 1800 documents



## The database SPOFOR

covers 6200 descriptions of research projects with relevance to sport sciences in German-speaking countries (Germany, Austria, Switzerland) since 1990

**Ausgabe Forschung**

voriges Ergebnisliste nächstes

Änderung melden

Autorisiert sind ausschließlich Leiter und Mitarbeiter des Projekts

<b>Projektnummer</b>	20080600175
<b>Erfassungsjahr/Aktualisierung</b>	2008
<b>Titel</b>	Bestimmung der totalen Hämoglobin-Menge während Höhen- und Flachlandtrainingslagern der deutschen Nationaltrainingslager der deutschen Nationalmannschaft in Vorbereitung auf die Olympischen Spiele in Peking 2008
<b>Leiter(in)</b>	Prof. Dr. <a href="#">Schmidt, Walter</a> , Tel: (0921)553464, Fax: (0921)553468, Email: <a href="mailto:walter.schmidt@uni-bayreuth.de">walter.schmidt@uni-bayreuth.de</a> <b>Institution:</b> <a href="#">Universität Bayreuth / Institut für Sportwissenschaft / AB Sportmedizin und Sportphysiologie</a>
<b>Gesamtkosten</b>	15.000 bis unter 30.000 EURO
<b>Finanzierung</b>	BMI/BISp
<b>Aktenzeichen</b>	070309/08
<b>Theoriefelder</b>	Dopingforschung; Sportmedizin
<b>Themenfelder</b>	Leistungssport
<b>Quelle</b>	profi - Projektinformationssystem
<b>Schlagworte</b>	<a href="#">Hämoglobin</a> ; <a href="#">Hämoglobinkonzentration</a> ; <a href="#">Hochleistungssport</a> ; <a href="#">Höhenaufenthalt</a> ; <a href="#">Höhenphysiologie</a> ; <a href="#">Höhentaining</a> ; <a href="#">Leistungsphysiologie</a> ; <a href="#">Leistungssport</a> ; <a href="#">Meereshöhe</a> ; <a href="#">Nationalmannschaft</a> ; <a href="#">Olympische Spiele</a> ; <a href="#">Peking 2008</a> ; <a href="#">Schwimmen</a> ; <a href="#">Schwimmsport</a> ; <a href="#">Wassersport</a> ; <a href="#">Wettkampfvorbereitung</a>
<b>Datenträger</b>	keine Angabe
<b>Laufzeit</b>	04.2008-12.2008

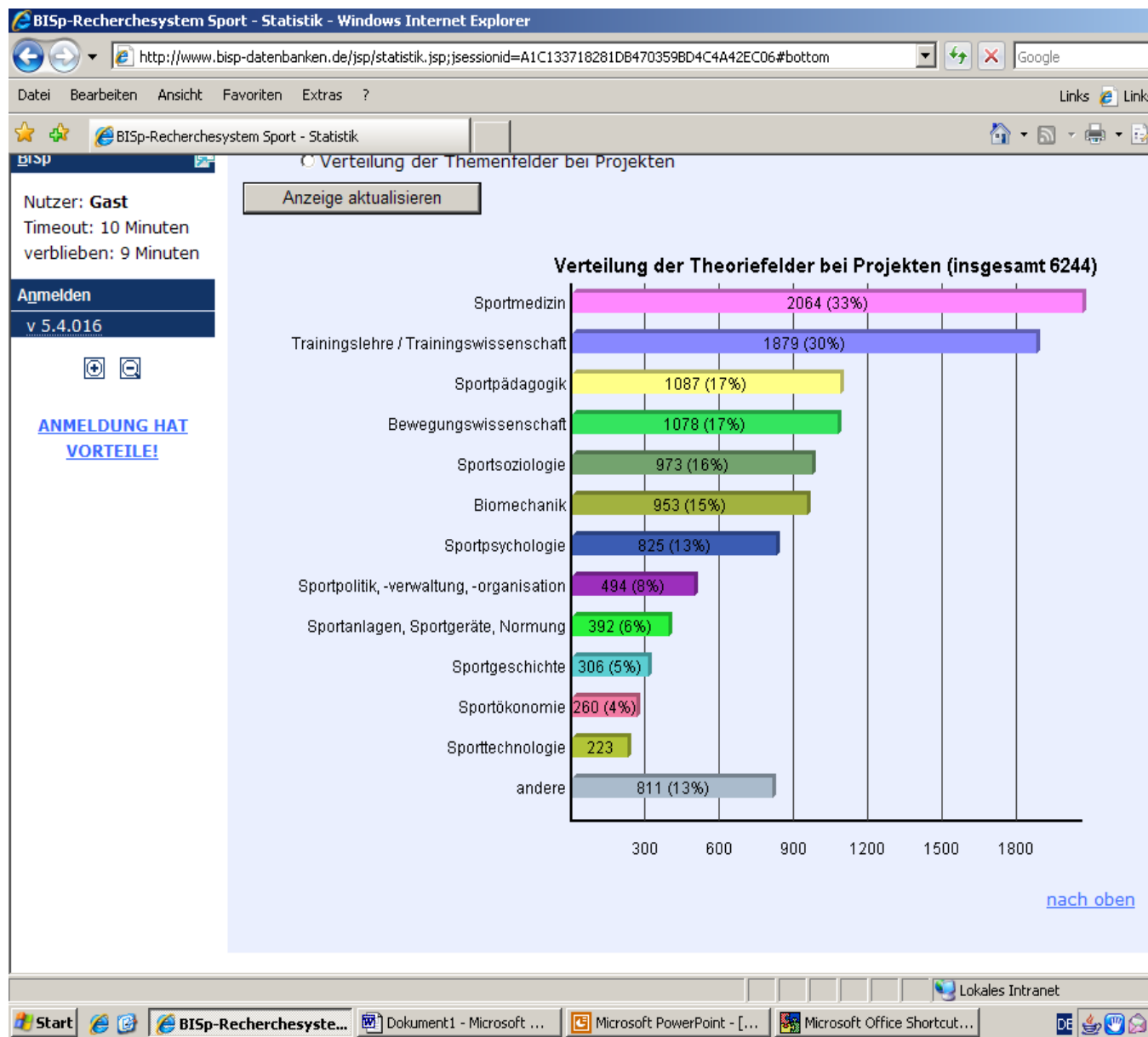
voriges Ergebnisliste nächstes

[nach oben](#)

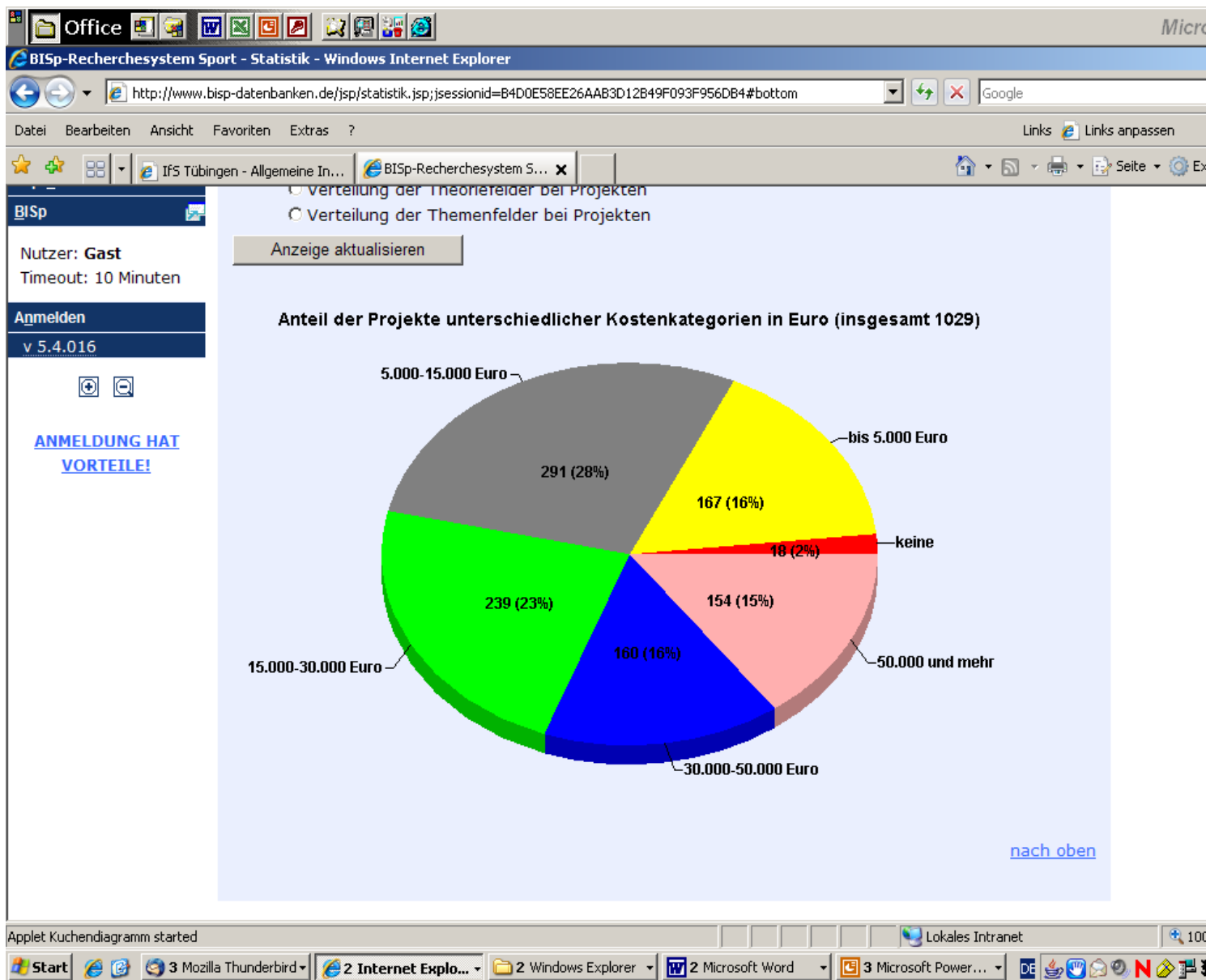
ANMELDUNG HAT VORTEILE!



# SPOFOR Research projects

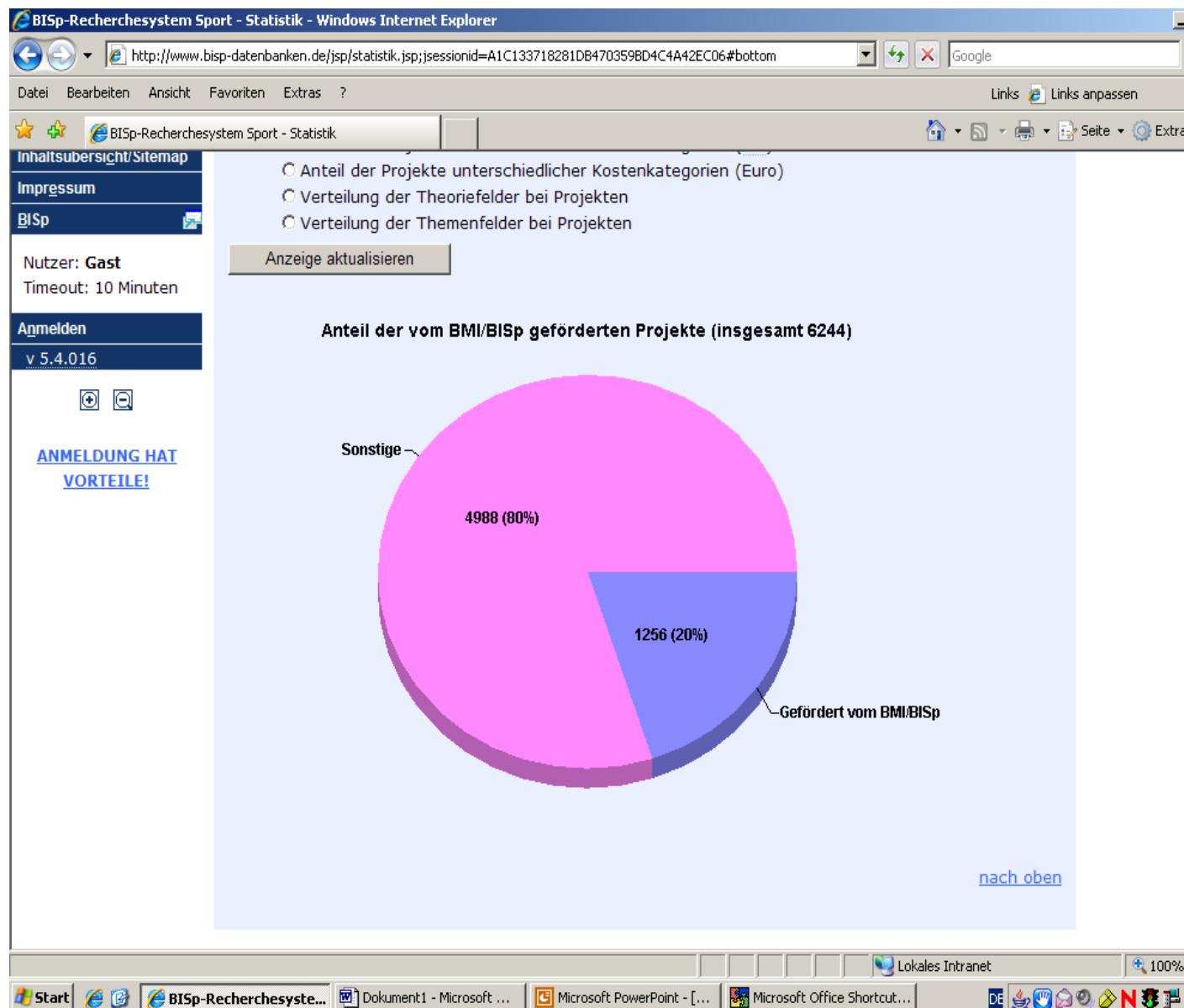


**SPOFOR**  
 Costs of  
 research  
 projects  
 (EURO)



# SPOFOR

research projects  
funding by BMI/  
BISp: 20%





http://www.bisp-datenbanken.de/system;jsessionid=CC58C794695A1AA3F2685F773D2EA97D?program=Down - Windows Internet Explorer

http://www.bisp-datenbanken.de/system;jsessionid=CC58C794695A1AA3F2685F773D2EA97D?program=DownloadExport&id

Suchen

02.03.2009

BISp Recherchesystem Sport: Ausgabe Forschung	
Projektnummer	20080600175
Erhebungsjahr	2008
Titel	Bestimmung der totalen Hämoglobin-Menge während Höhen- und Flachlandtrainingslagern der deutschen Nationaltrainingslager der deutschen Nationalmannschaft in Vorbereitung auf die Olympischen Spiele in Peking 2008
Leiter	Prof. Dr. Schmidt, Walter, Tel: (0921)553464, Fax: (0921)553468, Email: walter.schmidt@uni-bayreuth.de, Institution: Universität Bayreuth / Institut für Sportwissenschaft / AB Sportmedizin und Sportphysiologie
Institution	Universität Bayreuth / Institut für Sportwissenschaft / AB Sportmedizin und Sportphysiologie Universitätsstr. 30 D-95447 Bayreuth Tel: (0921) 55-3464 Fax: (0921) 55-84-3464 URL: http://www.sport.uni-bayreuth.de/spo_wiss_IV/de/index.html
Gesamtkosten	15.000 bis unter 30.000 EURO
Finanzierung	BM/BISp
Aktenzeichen	070309/08
Theoriefelder	Dopingforschung; Sportmedizin
Themenfelder	Leistungssport
Quelle	profi - Projektinformationssystem
Dt. Schlagworte	Hämoglobin; Hämoglobinkonzentration; Hochleistungssport; Höhengaufenthalt; Höhenphysiologie; Höhenstraining; Leistungsphysiologie; Leistungssport; Meereshöhe; Nationalmannschaft; Olympische Spiele; Peking 2008; Schwimmen; Schwimmsport; Wassersport; Wettkampfvorbereitung
Datenträger	keine Angabe
Laufzeit	04.2008-12.2008

Start | 3 Mozilla Thu... | 4 Internet E... | 2 Windows E... | 2 Microsoft W... | 3 Microsoft P... | Microsoft Offic... | DE | Unbekannte Zone

**SPOMEDIA**  
 contains 1.600  
 media (AV-media)

BISP-Recherchesystem Sport - Ausgabe Medien - Windows Internet Explorer  
 http://www.bisp-datenbanken.de/jsp/ausgabemedien.jsp;jsessionid=31DE0560B070F449299C4E18CEC26E3B

Datei Bearbeiten Ansicht Favoriten Extras ? Links Links anpassen

BISP-Recherchesystem Sport - Ausgabe Medien

**Aktuelles**

**Profisuche**

- Literatur gesamt
- Monographien
- Sammelwerksbeiträge
- Zeitschriftenaufsätze
- Forschung
- Medien

**Statistik**

**SPOFOR-Erfassung**

**Kurzbeschreibung / Beispiele**

**Hilfe**

**Inhaltsübersicht/Sitemap**

**Impressum**

**BISp**

Nutzer: **Gast**  
 Timeout: 10 Minuten  
**Sitzung abgelaufen**

**Anmelden**

v 5.4.016




**ANMELDUNG HAT  
VORTEILE!**

## Ausgabe Medien

voriges Ergebnisliste nächstes

<b>Code</b>	2007070001
<b>Titel</b>	Der offizielle Tennis- Lehrplan des DTB : Technik & Taktik - Return
<b>Urheber</b>	<a href="#">Deutscher Tennis Bund</a>
<b>Vertrieb</b>	Deutscher Tennis Bund, Hallerstr. 89, 20149 Hamburg, Tel. 040-411780, Fax 040-41178222
<b>Sprache</b>	Deutsch
<b>Produktionsjahr</b>	2007
<b>Produktionsland</b>	Deutschland
<b>Schlagworte</b>	<a href="#">Bewegungsablauf</a> ; <a href="#">Deutscher Tennis-Bund</a> ; <a href="#">Hochleistungssport</a> ; <a href="#">Trainingswissenschaft</a> ; <a href="#">Leistungssport</a> ; <a href="#">Return</a> ; <a href="#">Tennis</a> ; <a href="#">Trainer</a> ; <a href="#">Trainerausbildung</a> ; <a href="#">Training, spezielles</a> ; <a href="#">Anfänger</a>
<b>Zielgruppen</b>	Leistungssport; Trainer; Trainerausbildung
<b>Primäre Intention</b>	Veranschaulichung; Demonstration
<b>Didaktische Akzentuierung</b>	Anfaengerunterricht; Leistungssport; Trainerausbildung
<b>Niveau der Demonstration</b>	Leistungssportler
<b>Medienart</b>	Multimediale PC CD-Rom
<b>Technische Gestaltung</b>	Realfilm; Zeitlupe; Standbilder

### Kurzreferat

Diese Multimedia CD-Rom wurde in Zusammenarbeit mit dem Institut für Trainingswissenschaft und Sportinformatik und den Mitgliedern des Ausschusses für Ausbildung und Training des DTB erstellt.

Fertig Lokales Intranet 100%

Start 5 Internet Explor... H:\Kloock\Neuer Ord... IASI 2009 - Manuskri... Microsoft Office Shor... Master-Bisp-End\_Ne...

## SPOLIT

contains national and international sport science literature with 161.000 documents (books, journal articles, chapters/ articles in books, working papers etc.) since 1970



BISp sport search engine - search results - Windows Internet Explorer

http://172.27.61.104/jsp/ergebnis.jsp;jsessionid=8D31198441ECB90963C6980E8522D77

Standard search

News  
menu.main.sammelpprofil  
Advanced Search  
Statistic  
ONLINE-form  
Usage/Examples  
Help  
Sitemap  
Imprint  
BISp

user: **Gast**  
timeout: 10 minutes  
session timeout

Login  
v 5.5.000

[REGISTER FOR ADVANTAGE!](#)

**BISp** Wir helfen dem Sport ...  
Bonn

You are here: [last search](#) > search results

**search results**

number of results: **81** [ literature: **73** research: **8** media: **0**] (search time: 0.1 seconds)  
results are ordered by databases (SPOLIT, SPOFOR, SPOMED)

last search export all export selected

first prev page **10** of **12** next last to page

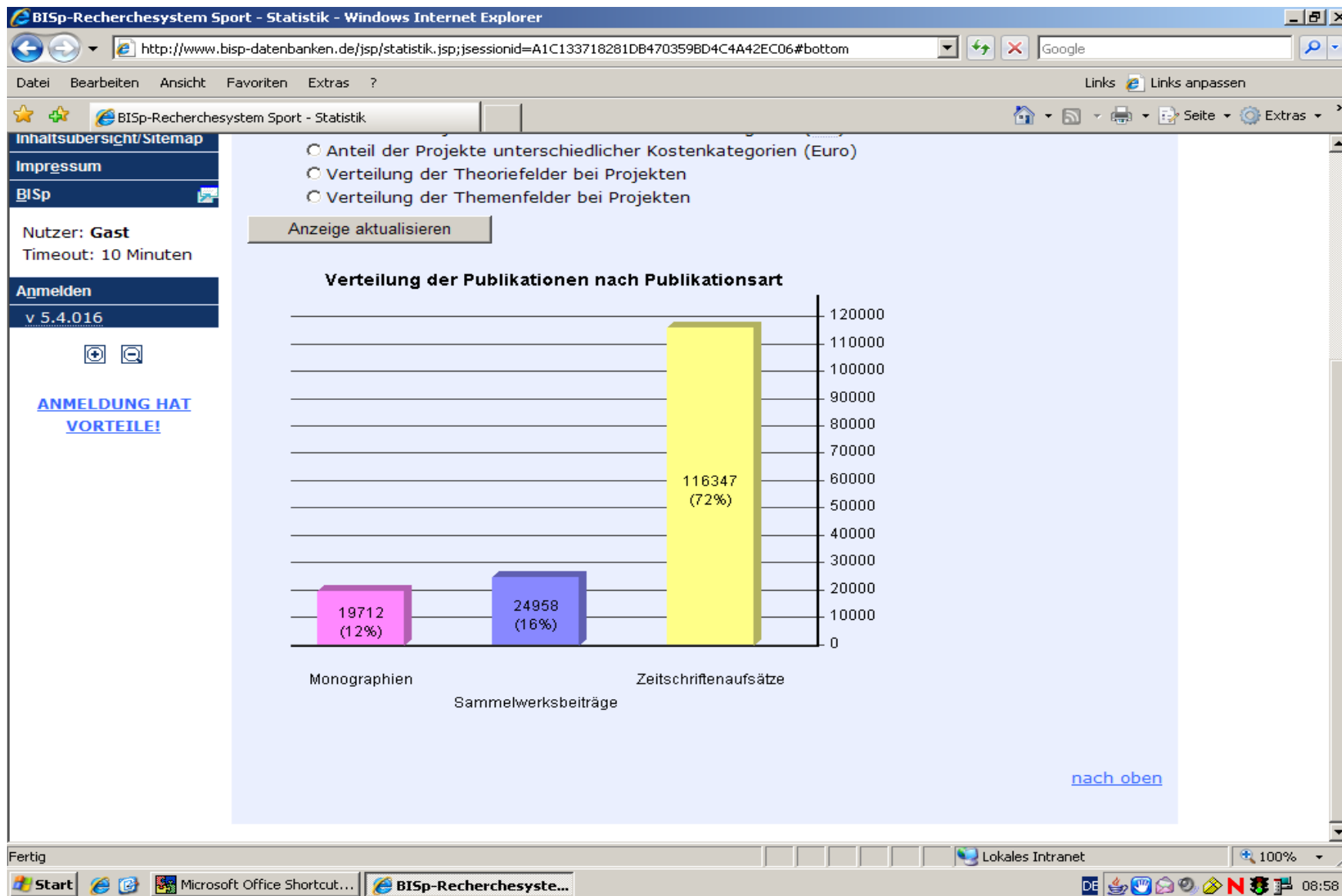
selection	type	title	year	full text
64. <input type="checkbox"/>		Facetten qualitativen Bewegungslernens : ausgewählte Schlüsselbegriffe ; konzeptionelle Orientierungen und bewegungspädagogische Leitlinien [ <a href="#">more about: Facetten qualitativen ...</a> ]	2005	
65. <input type="checkbox"/>		Kreativnost i tvorceskie priemy trenera vysokoj kvalifikacii [ <a href="#">more about: Kreativnost ...</a> ]	2005	D 9
66. <input type="checkbox"/>		Modelirovanie i effektivnost' tekstov auto- i geterovozdeystvija v sportivnoj praktike [ <a href="#">more about: Modelirovanie ...</a> ]	2005	D 9
67. <input type="checkbox"/>		Research on physical education teacher and coach education (published in German) 2003-2004 [ <a href="#">more about: Research on ...</a> ]	2005	D 9
68. <input type="checkbox"/>		Sportpsychologie. Ein Lehrbuch in 12 Lektionen [ <a href="#">more about: Sportpsychologie ...</a> ]	2005	
69. <input type="checkbox"/>		Steuerung sportlicher Spitzenleistungen aus trainingswissenschaftlicher Perspektive [ <a href="#">more about: Steuerung sportlicher ...</a> ]	2005	D 9
70. <input type="checkbox"/>		Team building: from group to team. Critical conditions for fulfilling team experiences [ <a href="#">more about: Team building: ...</a> ]	2005	D 9

Lokales Intranet





# Publication type in SPOLIT





# Direct access to the media (through links to digital fulltexts, online ordering, electronic document delivery) if possible

The screenshot shows a Windows Internet Explorer browser window displaying a search result from the BISp-Recherchesystem Sport. The search results page lists a document with the following details:

- Dokumentnummer:** 200902000931
- Dokumentart:** Zeitschriftenaufsatz
- Quelle:** BISp
- Autor:** Jaitner, ...
- Titel:** An amb...
- Übersetzer Titel:** Ein intel...
- Zeitschrift/Sammelband:** E-Journ...
- Fundstelle:** (2008), ...
- Publikationsjahr:** 2008
- ISSN:** 1612-57...
- Sprache:** Englisch
- Volltext (i.A. kostenlos):** <http://www.ejournal-but.de/doks/jaitner.pdf>
- Deskriptoren:** [Bewegung](#), [Geschwindigkeit](#), [Kommunikation](#), [Training](#)

Below the search results, a second browser window is open, displaying the full text of the article. The article title is "AN AMBIENT INTELLIGENCE SYSTEM TO SUPPORT TEAM TRAINING IN CYCLING" by THOMAS JAITNER<sup>1</sup> & MARCUS TRAPP<sup>2</sup>. The abstract discusses the use of ambient intelligence systems in cycling training, mentioning parameters like performance, speed, and heart rate, and the use of a BORG scale for subjective sensations.

**THEMATIC PRIORITY**

**AN AMBIENT INTELLIGENCE SYSTEM TO SUPPORT TEAM TRAINING IN CYCLING**

THOMAS JAITNER<sup>1</sup> & MARCUS TRAPP<sup>2</sup>  
<sup>1</sup>AG TRAININGS- UND BEWEGUNGSWISSENSCHAFT, TU KAISERSLAUTERN, GERMANY,  
<sup>2</sup>AG SOFTWAREENGINEERING, TU KAISERSLAUTERN, GERMANY

*In den letzten Jahren werden vermehrt hoch entwickelte Technologien eingesetzt, um das Training im Radsport zu unterstützen. Parameter wie Leistung, Geschwindigkeit, Puls werden nicht nur im Hochleistungsbereich, sondern zunehmend auch im Freizeit- und Breitensport online während des Trainings erfasst und zur Optimierung der Belastung des einzelnen Sportlers herangezogen. Obgleich der Fokus im Radsport hauptsächlich auf der Leistung des einzelnen Athleten liegt, wird im Training auch häufig in der Gruppe gefahren. In einer funktio-*

*decrease the speed. Besides physiological and biomechanical parameters subjective sensations are measured on a BORG scale (Borg 1998) and considered for the optimization of the training load. According to the preliminary results with the first prototype, the TCTS might be considerably support a more effective cycling training, especially for youth athletes.*

Keywords: cycling, information technology, feedback training, adaptive software architecture



# Digital fulltexts in SPOLIT

The screenshot shows a Windows Internet Explorer browser window displaying a search result from the BISp-Recherchesystem Sport. The search results page on the left lists document details for a journal article. A red arrow points from the 'Volltext' link in the search results to the preview of the article's abstract and keywords in the adjacent browser window.

**Suchergebnisse > Ausgabe Literatur**

**Ausgabe Literatur - Zeitschriftenaufsatz**

voriges Ergebnisliste nächstes Volltext über Digib

Dokumentnummer	200902001033
Dokumentart	• Zeitschriftenaufsatz • Online-Publikation
Quelle	BISp
Autor	Cornett, Jeffrey; Bush, Pamela; Cummings, Nancy
Titel	An 8-factor model for evaluating crew race performance
Übersetzter Titel	Ein acht-faktorielles Modell zur Beurteilung der Leistungsfähigkeit von Ruderteams
Zeitschrift/Sammelband	International journal of sports science and engineering
Erscheinungsort	Liverpool <a href="#">Dokumentdetails</a>
Fundstelle	Jahrgang: 2, (2008), Heftnummer: 3, S. 169-184
Publikationsjahr	2008
ISSN	1750-9831
Sprache	Englisch
Volltext (i.A. kostenlos)	<a href="http://www.worldacademicunion.com/journal/SSCI/ssciivol2no3paper05.pdf">http://www.worldacademicunion.com/journal/SSCI/ssciivol2no3paper05.pdf</a>
Deskriptoren	Analyse; Beurteilung; Forschungsstand; Literatur; Sportwissenschaft; Technologie; Wettkampfsport

**Kurzreferat**

There are no models in the current literature that offer a unified theory of all of the factors that define crew race strategy and race day performance. This paper proposes an 8-factor model of crew race performance and summarizes the related literature. The model suggests those factors that should be used to analyze and evaluate the performance of crews in actual races.

**ACADEMIC**  
World Academic Union

ISSN 1750-9823 (print)  
International Journal of Sports Science and Engineering  
Vol. 02 (2008) No. 03, pp. 169-184

## An 8-factor model for evaluating crew race performance

Jeffrey Cornett<sup>1</sup>, Pamela Bush<sup>2</sup>, and Nancy Cummings<sup>3</sup>  
<sup>1,2</sup> University of Central Florida and <sup>3</sup> Florida Southern College  
*(Received May 28, 2008, accepted July 18, 2008)*

**Abstract.** There are no models in the current literature that offer a unified theory of all of the factors that define crew race strategy and race day performance. This paper proposes an 8-factor model of crew race performance and summarizes the related literature. The model suggests those factors that should be used to analyze and evaluate the performance of crews in actual races.

**Keywords:** crew race performance, race plan, rowing strategy, coxswain role, swing effect

### 1. Toward a Generalized Model of Crew Race Performance

Various researchers (including Zatsiorsky and Yakunin, 1991; Soper and Hume, 2004; and Atkinson, 2001) have developed biomechanical models to mathematically forecast boat speed as a function of the physics of racing cadence, force vectors, shifts in mass and momentum, and hydrodynamic resistance. Such



# Terminology: „coach...“

The screenshot shows a Windows Internet Explorer browser window displaying the 'BISp sport search engine - descriptors selection' page. The browser's address bar shows the URL: `http://172.27.61.104/jsp/deskriptorauswahl.jsp;jsessionid=A51BD1A91A14313E2C124F023758CE87`. The page header includes the BISp logo and the slogan 'Wir helfen dem Sport ...'. Below the header, the page title is 'descriptors selection'. A search bar contains the text 'coach', and a 'start search' button is visible. To the right of the search bar, it indicates '26 found'. The search results are presented in a table with three columns, each headed 'Name'. The results include terms like 'behavior of the coach', 'Coaches' Academy', 'exchange of the coach', 'coach', 'coaches' education', 'federal coach', 'coach behavior', 'coaches' training', 'further education of coaches', 'coach education', 'coaching', 'head coach', 'coach exchange', 'coaching certificate', 'national coach', 'coach personality', 'coaching license', 'personality of coaches', 'coach-athlete interaction', 'coach's work', 'playing coach', 'coach-athlete relationship', 'diploma coach', 'relationship between coach and athlete', and 'education of coaches', 'training of coaches'. A 'back to main search mask' button is also present. The page footer includes a 'REGISTER FOR ADVANTAGE!' link.



# SPOLIT – search results

BISp sport search engine - search results - Windows Internet Explorer

http://172.27.61.104/jsp/ergebnis.jsp;jsessionid=1E8CFDFB059023CD068A2227311EE97

Standard search

News

menu.main.sammelprofil

Advanced Search

Statistic

ONLINE-form

Usage/Examples

Help

Sitemap

Imprint

BISp

user: Gast

timeout: 10 minutes

Login

v 5.5.000

REGISTER FOR ADVANTAGE!

**search results**

number of results: **157** [ literature: **157** research: **0** media: **0**] (search time: 1.5 seconds)  
results are ordered by databases (SPOLIT, SPOFOR, SPOMED)

last search export all export selected

first prev page 1 of 23 next last to page

selection	type	title	year	full-text
1. <input type="checkbox"/>		Athlete profile: Questions for Bronwyn Thompson [ <a href="#">more about: Athlete profile: ...</a> ]	2008	D S
2. <input type="checkbox"/>		Coach profile: Questions for Gary Bourne [ <a href="#">more about: Coach profile: ...</a> ]	2008	D S
3. <input type="checkbox"/>		Coach/coach and athlete/coach collaboration [ <a href="#">more about: Coach/coach ...</a> ]	2007	D S
4. <input type="checkbox"/>		Concerns and developmental needs of highly confident and less confident elementary coaches in Hong Kong [ <a href="#">more about: Concerns and ...</a> ]	2007	D S
5. <input type="checkbox"/>		Interview with Gus Puopolo [ <a href="#">more about: Interview with ...</a> ]	2007	D S
6. <input type="checkbox"/>		Athletes' evaluations of their head coach's coaching competency [ <a href="#">more about: Athletes' evaluations ...</a> ]	2006	D S
7. <input type="checkbox"/>		Extending validity evidence for multidimensional measures of coaching competency [ <a href="#">more about: Extending validity ...</a> ]	2006	D S

[to the top](#)



# SPOLIT- document

BISp sport search engine - literature details - Windows Internet Explorer

http://172.27.61.104/jsp/ausgabeliteratur.jsp;jsessionid=1E8CFDFB059023CD068A22277311EE97

Google

Links Links anpassen

Start BISp sport search engine...

Bundesinstitut für Sportwissenschaft

**BISp** Wir helfen dem Sport ...  
Bonn

Standard search

**News**

menu.main.sammelpprofil

Advanced Search

Statistic

ONLINE-form

Usage/Examples

Help

Sitemap

Imprint

BISp

user: **Gast**  
timeout: 10 minutes

Login

v 5.5.000

REGISTER FOR  
ADVANTAGE!

You are here: [last search](#) > [search results](#) > literature details

## literature details - article

prev search results next

full text via [DigiBib](#) or [Subito](#)

<b>document number</b>	200711003124
<b>language</b>	Englisch
<b>document type</b>	Zeitschriftenaufsatz
<b>source</b>	BISp
<b>author</b>	<a href="#">Binnington, Max</a>
<b>title</b>	Coach/coach and athlete/coach collaboration
<b>translated title</b>	Die Zusammenarbeit zwischen Trainern untereinander und zwischen Trainer und Athleten
<b>magazine/collected edition</b>	Modern Athlete and Coach /
<b>place of publication</b>	Adelaide
<b>place of finding</b>	Jahrgang: 45, (2007), Heftnummer: 2, S. 24-25
<b>year of publication</b>	2007
<b>issn</b>	0047-7672
<b>descriptors</b>	<a href="#">Australien</a> ; <a href="#">Leichtathletik</a> ; <a href="#">Sprungdisziplin</a> ; <a href="#">Stabhochsprung</a> ; <a href="#">Trainer-Athlet-Beziehung</a> ; <a href="#">Trainerwechsel</a>

### abstract

Die meisten Sportarten, inklusive der Leichtathletik, sind auf eine effektive Zusammenarbeit zwischen



# Specialist Sports Information Guide

The screenshot displays the SPORTIF website in a Windows Internet Explorer browser. The browser's address bar shows the URL <http://www.sport-if.de/>. The website header includes the SPORTIF logo and the tagline "Wir helfen dem Sport...". The main navigation menu includes "SPORTIF-Recherche", "Wir über uns", "About us", "BISp-Recherche", "Fachinformationsführer", "Links", "Kontakt", and "Impressum".

The search interface is titled "Fachinformationsführer Sport" and features a search bar with the keyword "talent". The search results are displayed in a list format, with the first result being "Development of elite hurdlers: Assessment of the individual athlete". The abstract of this article is visible, discussing the training of young hurdlers and the assessment of individual athletes.

An Adobe Reader window is overlaid on the search results, displaying a PDF document titled "Talent%20Identification (1).pdf". The document cover features the title "LONG-TERM ATHLETE DEVELOPMENT: TALENT IDENTIFICATION" in large red letters. The authors are listed as Darlene A. Kluka, Ph.D. and Anneliese Goslin, D.Phil. The cover also includes a filmstrip of images showing athletes in various sports settings.

The Windows taskbar at the bottom shows the Start button and several open applications, including Microsoft PowerPoint, Microsoft Office, and Internet Explorer. The system clock indicates the time is 11:39.



## Future objectives and projects

- more international literature (in SPOLIT) status quo (161.000): literature in

German: 74.000

English: 65.000

others: 22.500

(=87.000

international

literature)

- search with English descriptors
- more digital fulltext
- more transparency (list of journals etc.)
- more interaction/ communication with users/ authors etc.
- further development of platforms (autumn 2009: e. g. [www.bisp-datenbanken.de](http://www.bisp-datenbanken.de) in English)

The screenshot displays the BISP sport search engine interface. The top part shows search options for 'Sources' with checkboxes for SPOLIT, SPOFOR, and SPOMEDIA. Below this are search fields for 'person (name, forename)', 'title', 'content/abstract', and 'descriptors' (with 'coach' entered). There are also fields for 'year' (from 2008 to a 4-digit year) and 'language' (set to English). A 'search' button is visible. The bottom part of the screenshot shows a registration form with fields for 'Name', 'Vorname', and 'Funktion' for three different person entries.





BISp is partner  
in the project  
(platform)  
**VifaSport**

and member in  
the **Steering  
Committee**

[www.vifasport.de](http://www.vifasport.de)

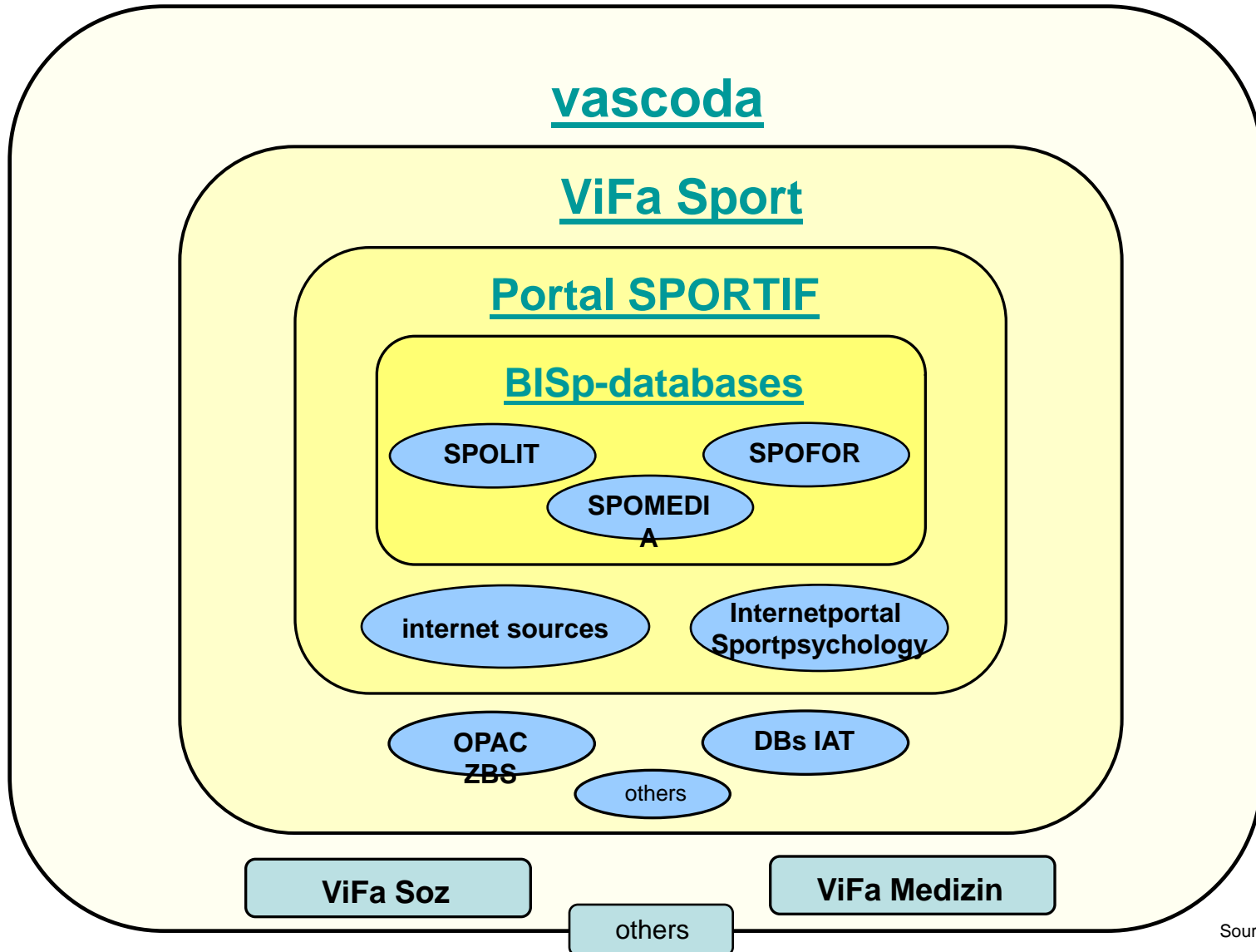
## Platform *vascoda*

- **vascoda** is a cooperative network of major German libraries and information providers and their international partners. The vascoda gateway systematically integrates the resources of participating institutions, thus offering a variety of search strategies. vascoda will become an important venue for research by providing efficient access to a great variety of relevant resources
- The BISp-databases (**SPOFOR**, **SPOLIT**, **SPOMEDIA**) and **SPORTIF** are provided in the internet portal **vascoda** ([www.vascoda.de](http://www.vascoda.de)).



# platforms

SPORTIF



Source: Lütkehermölle



# BISp - Information services and publications

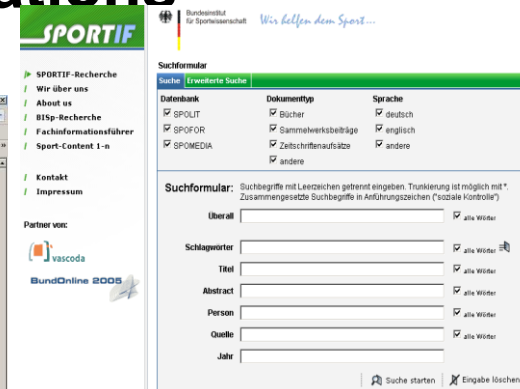
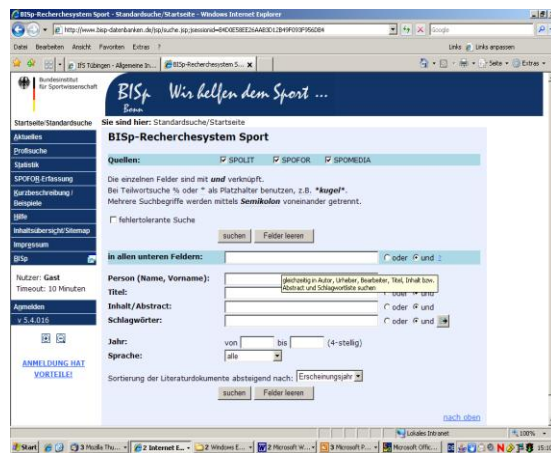
- Databases/ platforms (free access)

SPOLIT, SPOFOR, SPOMEDIA

quality-secured internet sources

Internetportal Sports Psychology

- Scientific series
- Journal „Sport Science“
- Reports of research projects
- Athletes manuals
- Brochures on sport facilities and equipment



## SCIENTIFIC SUPPORT FOR THE "COACH CAMPAIGN" IN GERMAN TOP LEVEL SPORTS

„Coach profession  
profile“

Prof. H. Digel

Institute of Sport  
Science University  
Tübingen

„Information and  
Knowledge Management  
for Coaches – Initial  
Results of a scientific  
study“

Prof. M. Muckenaupt  
Institute of Media  
Studies/ University  
Tübingen



### Berufsfeld Trainer

Trainer im Spitzensport spielen eine entscheidende Rolle für das Erzielen sportlicher Höchstleistungen. Sie sind die zentralen Bezugspersonen der Athleten und haben großen Einfluss auf deren Wettkampfleistung.

Dennoch ist die Bezahlung in vielen Bereichen vergleichsweise gering, die berufliche Handlungsautonomie in der Regel eingeschränkt und die Anstellung vielfach von kurzer Dauer. Hinzu kommen uneinheitliche Karriereverläufe, Rekrutierungswege und Zugangsvoraussetzungen sowie höchst unterschiedliche Tätigkeitsfelder und Aufgabenstellungen.

Drei Fragen stehen im Zentrum des Forschungsprojekts:

- Wie sehen Tätigkeitsfeld, Anstellungs- und Arbeitsbedingungen von Trainern im olympischen Spitzensport aus?
- Unter welchen Bedingungen lässt sich der Beruf des Trainers im olympischen Spitzensport als dauerhafte und gut bezahlte Position mit einer dominanten Stellung etablieren?
- Wie sehen (ideale) Karrierewege von Trainern im olympischen Spitzensport aus?

Untersuchungsdesign  
Repräsentative Fragebogenerhebung, leitfadengestützte Experteninterviews, Dokumentenanalyse  
Befragung von insgesamt 2500 Trainern, Managern und Funktionären

### Informationsversorgung von Trainern

Das Anforderungsprofil im Hochleistungssport wächst kontinuierlich. Zugleich werden die Lebenszyklen des Wissens immer kürzer. Gefordert sind aktuelle und gesicherte Informationen für die Trainingsgestaltung und Leistungsüberprüfung, die Gesunderhaltung und Wiederherstellung der Sportler, die Steuerung psychischer Prozesse, die Talentsuche und Talentförderung.

Die Leitfrage des Projekts lautet deshalb: *Wie kann die Informationsversorgung von Trainern optimiert werden – in den Verbänden, der Kommunikation untereinander, der Aus- und Fortbildung und den Informationssystemen?* Zentrale Forschungsfragen sind:

- Welche Informationsangebote gibt es für Trainer?
- Welche Informationsquellen nutzen Trainer?
- Wie bewerten Trainer die Informationsquellen im Hinblick auf ihre spezifischen Tätigkeitsfelder?
- Welchen Informationsbedarf haben Trainer und welche Anforderungen stellen sie an die gewünschten Fachinformationen?
- Welche Modelle eignen sich für eine Optimierung der Informationsversorgung?

Untersuchungsdesign  
Tagebuchstudien, leitfadengestützte Experteninterviews, Fragebogenerhebung  
Inhaltsanalysen des Informationsangebots



## SCIENTIFIC SUPPORT FOR THE "COACH CAMPAIGN" IN GERMAN TOP LEVEL SPORTS

### **„Information and Knowledge Management for Coaches – Initial Results of a scientific study“**

(Prof. M. Muckenhaupt, Institute of Media Studies/ University Tübingen)

- The Central Questions
- Current Situation: What information sources are available to coaches?
- Use: Which information sources are coaches using? How much time do they spend with those sources?
- Value: What criteria do coaches use to evaluate and rate their information sources?
- Needs: What are the coaches needs, and what requirements do they have for information relating to their field?
- Optimization: Which solutions are well suited to optimize the information needs of the coaches?



## **Application – Methods**

### **in Advance:**

- Interviews with Experts
- Diary Study

### **Questionnaire**

- Use, Analysis/ Needs of Information Sources/ Content/ Topics
- Time constraints, Access to Information

### **Qualitative Study of Available Sources / Is - Should Be Analysis**

- Specialized Publications
- Training Guidelines
- Internet Sources



## Performance Level of Coached Athletes

- almost 80 percent of the surveyed coaches train athletes competing at a highly competitive level: World class Athletes, Professional Athletes, Top National Athletes

## What sets German Trainers apart?

- High level of training, Years of professional experience, Prior personal experience as successful, professional athletes

## The Importance of Information Sources

- A purely publication-based model is ill-suited for coaches.
- Coaches rely on dialogue and visual forms of communication.
- Mobile information systems suite the lifestyle of the frequently travelling coaches.
- Systems that are personalized to the coaches' needs and requirements will have a higher likelihood of acceptance.



## General Conditions – Time

- In an average 50-hour work week, about  $\frac{1}{4}$  is spent on information activities.
- The largest allotment is spent on information exchange, the smallest on obtaining new information.

## General Conditions – Attitudes Toward Information - Taking the Trainers' Attitude Seriously

- Coaches are trained to communicate. They prefer personal contact when exchanging and obtaining new information.
- Coaches generate knowledge alone, and in groups.
- Information and knowledge management for coaches needs to take into account these general time constraints and the attitudes of the coaches.

## General Conditions – Uses for Information - Taking the Trainers' Attitude Seriously

- Coaches prefer informal methods of obtaining information (Access Paths).
- Coaches prefer to apply information from contacts/conversations and observations/analysis/results
- Coaches learn about specialized information for their sport from events, conventions and sports publications.



## **Coaches and Science: Are coaches science-adverse?**

- Coaches are largely interested in scientific studies.
- They're very interested in the specialized knowledge of other coaches.
- 76 percent of coaches have a college degree, 63 percent of those have a background in sports science.
- The assumption that coaches rely primarily on their own experience is not true - personal experience ranks last on their list.

## **Science and Coaches: Are the academics coach-adverse?**

- Formal, scientific sources provide little information that is readily incorporated into a workout or practice.
- When it comes to learning about the newest sport developments, event and conventions rank higher than trade journals.
- Coaches say the greatest need is for trade journals for each type of sport.
- Coaches desire scientific information and research that is directly applicable to the sport.

## **Information Source - Trends**

- Specialized / Magazines
- Training Guidelines (Rahmentrainingspläne)
- Internet sites
- Continuing Education Events and Seminars
- Environment of Communication (kommunikatives Umfeld)



## Specialized Publications

- Information Overload, and little relevant input for coaches

### **Specialized Publications - statements to open ended questions (F25) ordered by frequency**

- Too little time to search, read and apply
- Too little available (marginal value)
- Information not relevant in practice/ rarely applicable/ missing real-world connection
- No information about availability, good information often inaccessible
- Ambiguity about the quality of the results, missing validation, deficiencies in the methods
- Too much information available on the market, with no filter on the flood of information
- No processing or editing / executive summary / publications too extensive
- Nearly everything is written in a foreign language
- Too specialized / too expensive / outdated



## Quality pays off

### Example: Training Guidelines „Ski-Nordisch“

- commonly used
- little demand for improvements
- high quality results during the „Is-Analysis“

### Internet Sites

- Generally very heterogeneous, narrow selection of topics (of little use for top-coaches)
- Virtual databases are unknown or used rarely by the majority of coaches.
- Internet sites from institutions are accepted marginally more.
- Sites from clubs and sports organizations (Verbände) are often used, but primarily for news content.
- **Example Sites from Sports Organizations (Verbände)**
- No training exercises
- No summaries of current literature, no reviews, links to literature databases, sporadic literature lists (DBV, DSV)
- Primary news content: Upcoming Events, Sport Headlines, Contact Lists



## Continuing Education - Demand –Answers to Open Ended Questions

- Practical experience, connecting theory and practice, no theory
- without application
- More specific content, often too superficial
- Better instructors/speakers (top-coaches, international experts, former professional athletes, none without practical experience)
- Better separation/distinction between competitive sports and leisure sports
- Combine sport groups (i.e. martial arts, ball-sports)

## Information and Knowledge Management

- Coaches' current methods for sharing information, and their needs, were assessed through interviews with experts, diary-studies and a quantitative survey of 1.500 coaches. At the same time, a qualitative study analyzed the publications available to coaches, including websites, trade journals and training guidelines.
- Elite coaches in Germany are especially qualified they have many years of professional experience and, as athletes, were successful at the national and international level.
- Like their international counterparts, German coaches use informal methods of obtaining new information: exchanging information with colleagues, personal observations, data analysis and training seminars. The assessment of publications and information-use revealed no distinct differences among different sports.
- One of the study's recommendations highlights the need to tailor an information system to the needs of coaches, and not the other way around. The coaches should not have to adapt to the traditional information channels. The system that supplies coaches with information needs to be reliable, centrally-managed and built on the newest technology available in order to meet coaches' needs – which can be summed up as, “Current, relevant and useful information for the success of the athlete.”



# Summary

- The organisation of German sport within the federal structure of Germany - characterised by autonomy of sport and subsidiary support of the government
- The Federal Institute of Sport Science (BISp) supports research projects and scientific databases within the Scientific Network for German Top Level Sports
- The Dept. „Scientific Counselling“ of the BISp produces all necessary scientific information products for sports research in Germany (databases, platforms, portals with more than 170.000 documents/ sources), BISp-Homepage
- Future objectives: optimisation of the scope of the databases and platforms in technology and contents(e.g. more international literature/ documents, platform(s) in English (terminology in English)
- The ”Coach Campaign” in German top level sports is an example for research support directed to high level sports by the BISp. Further research in this field is in progress: “coach information supply”

Thank you for your attention!



*Wir helfen dem Sport ...*





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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