



STELLAR



Das STELLAR Exzellenznetzwerk

**Vortrag für e-teaching.org
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**Prof. Dr. Ulrike Cress
Nina Heinze, M.A.
Institut für Wissensmedien**

**Christine Plesch, Dipl. Psych
Universität Freiburg**



Sustaining Technology-Enhanced-Learning at a Large Scale:

Das STELLAR Exzellenznetzwerk

Förderung: 7. EU Rahmenprogramm

Laufzeit: Februar 2009 bis Mai 2012

Ziele:

- innovative und kritische Zukunftsagenda für TEL in Europa,
- Förderung der Forschungskapazitäten für TEL in Europa
- Sichtbarkeit
- Defragmentierung

Partner: 16 Universitäten und Forschungsinstitute aus 9 Ländern,
ca. 250 affillierte Wissenschaftler



Partner:

Universität Freiburg

Ludwig-Maximilians-Universität,
München

Institut für Wissensmedien,
Tübingen

Instituto Tecnologie Didattiche,
Genova

- CSCL

- Lehr- / Lernprozesse

- Skripts



Partner:

University of Nottigham

Open University UK

Université Joseph Fourier, Grenoble

Ecole Polytechnique Fédérale de
Lausanne

- Educational Sciences

- Innovative Lerntechnologien

- CSCL



Partner:

Leibniz Universität Hannover

Katolieke Universiteit Leuven

Open University of the Netherlands,
Heerlen

- Web 2.0

- Lernnetzwerke

- Information Retrieval



Partner:

Zentrum für Soziale Innovation,
Wien

Know Center, Graz

University of Bristol

- Technologie und Wissen
- Wissensmanagement
- Weiterbildung und Training



Partner:

Atos Origin

Scienter

- Industriepartner
- Weiterbildung und Training
- Kollaborative Lernumgebungen



Aktivitäten des Netzwerks:

- Summer und Winterschools
- Doctoral Academies
- Mobility Fellowships
- Incubator
- Theme Teams
- TELeurope
- EC-TEL
- Open Archive
- Delphi Studien

Forschung in interdisziplinären, verteilten Forschernetzwerken

Beispiele der Herausforderungen:

- Awareness der Community
- Bündelung von Kommunikationstools
- Wissensmanagement



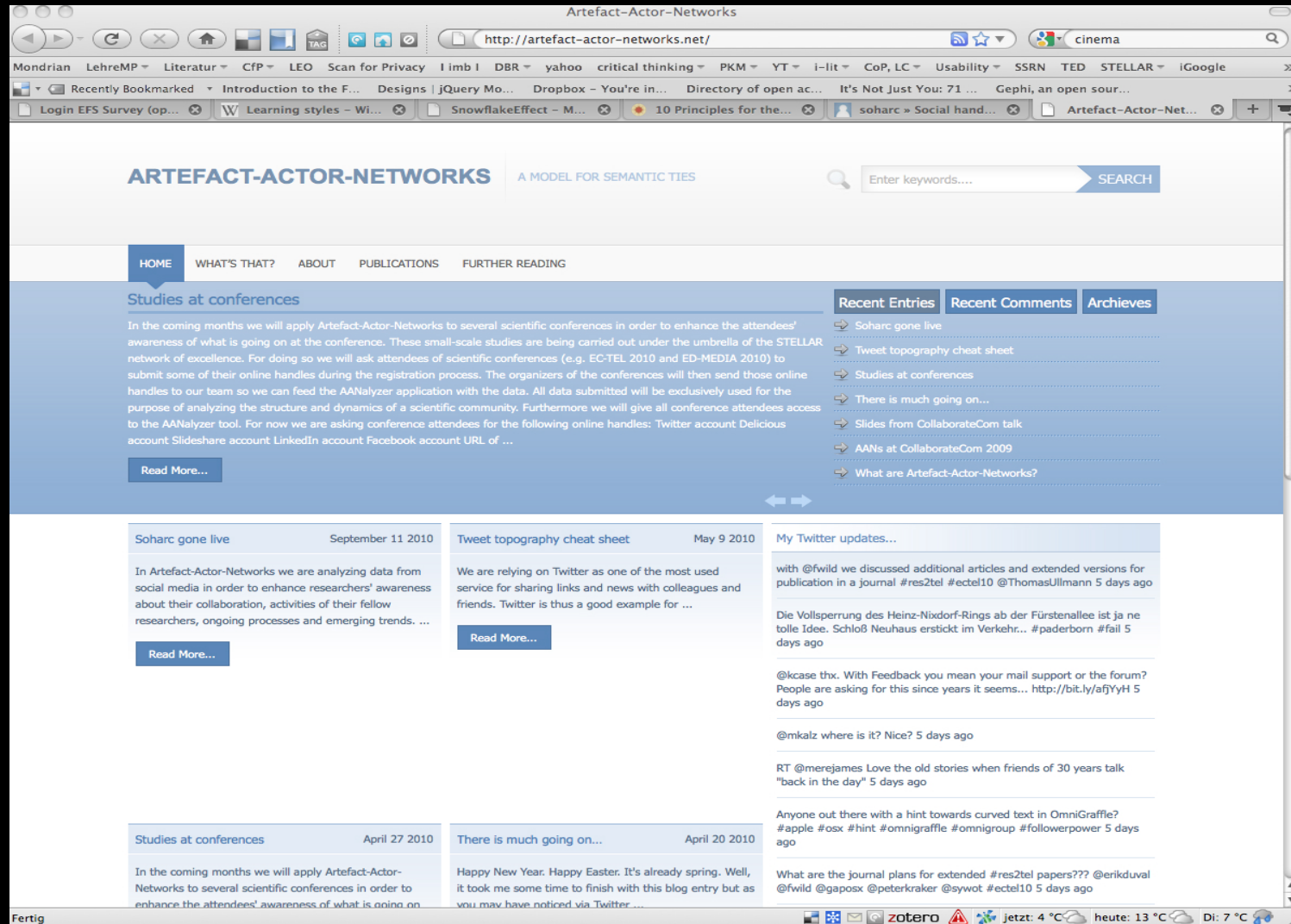
Forschung in interdisziplinären, verteilten Forschernetzwerken

Forschungsfelder:

- Awareness
- Web 2.0 Tools
- Wissensmanagement

Forschung in interdisziplinären, verteilten Forschernetzwerken

Awareness



The screenshot shows the website 'Artefact-Actor-Networks' in a browser window. The URL is 'http://artefact-actor-networks.net/'. The page features a navigation menu with 'HOME', 'WHAT'S THAT?', 'ABOUT', 'PUBLICATIONS', and 'FURTHER READING'. A search bar is located at the top right. The main content area is titled 'Studies at conferences' and includes a paragraph about applying the network to scientific conferences. Below this, there are several article snippets with titles, dates, and 'Read More...' buttons. A sidebar on the right contains 'Recent Entries', 'Recent Comments', and 'Archives'.

ARTEFACT-ACTOR-NETWORKS A MODEL FOR SEMANTIC TIES

Enter keywords... **SEARCH**

HOME WHAT'S THAT? ABOUT PUBLICATIONS FURTHER READING

Studies at conferences

In the coming months we will apply Artefact-Actor-Networks to several scientific conferences in order to enhance the attendees' awareness of what is going on at the conference. These small-scale studies are being carried out under the umbrella of the STELLAR network of excellence. For doing so we will ask attendees of scientific conferences (e.g. EC-TEL 2010 and ED-MEDIA 2010) to submit some of their online handles during the registration process. The organizers of the conferences will then send those online handles to our team so we can feed the AAnalyzer application with the data. All data submitted will be exclusively used for the purpose of analyzing the structure and dynamics of a scientific community. Furthermore we will give all conference attendees access to the AAnalyzer tool. For now we are asking conference attendees for the following online handles: Twitter account Delicious account Slideshare account LinkedIn account Facebook account URL of ...

[Read More...](#)

Recent Entries **Recent Comments** **Archives**

- Soharc gone live
- Tweet topography cheat sheet
- Studies at conferences
- There is much going on...
- Slides from CollaborateCom talk
- AANs at CollaborateCom 2009
- What are Artefact-Actor-Networks?

Title	Date
Soharc gone live	September 11 2010
Tweet topography cheat sheet	May 9 2010
My Twitter updates...	
Studies at conferences	April 27 2010
There is much going on...	April 20 2010

Soharc gone live September 11 2010

In Artefact-Actor-Networks we are analyzing data from social media in order to enhance researchers' awareness about their collaboration, activities of their fellow researchers, ongoing processes and emerging trends. ...

[Read More...](#)

Tweet topography cheat sheet May 9 2010

We are relying on Twitter as one of the most used service for sharing links and news with colleagues and friends. Twitter is thus a good example for ...

[Read More...](#)

My Twitter updates...

with @fwild we discussed additional articles and extended versions for publication in a journal #res2tel #ectel10 @ThomasUllmann 5 days ago

Die Vollsperrung des Heinz-Nixdorf-Rings ab der Fürstenallee ist ja ne tolle Idee. Schloß Neuhaus erstickt im Verkehr... #paderborn #fail 5 days ago

@kcase thx. With Feedback you mean your mail support or the forum? People are asking for this since years it seems... http://bit.ly/afjYyH 5 days ago

@mkalz where is it? Nice? 5 days ago

RT @merjames Love the old stories when friends of 30 years talk "back in the day" 5 days ago

Anyone out there with a hint towards curved text in OmniGraffe? #apple #osx #hint #omnigraffe #omnigroup #followerpower 5 days ago

What are the journal plans for extended #res2tel papers??? @erikduval @fwild @gapox @peterkraker @sywow #ectel10 5 days ago

Studies at conferences April 27 2010

In the coming months we will apply Artefact-Actor-Networks to several scientific conferences in order to enhance the attendees' awareness of what is going on

There is much going on... April 20 2010

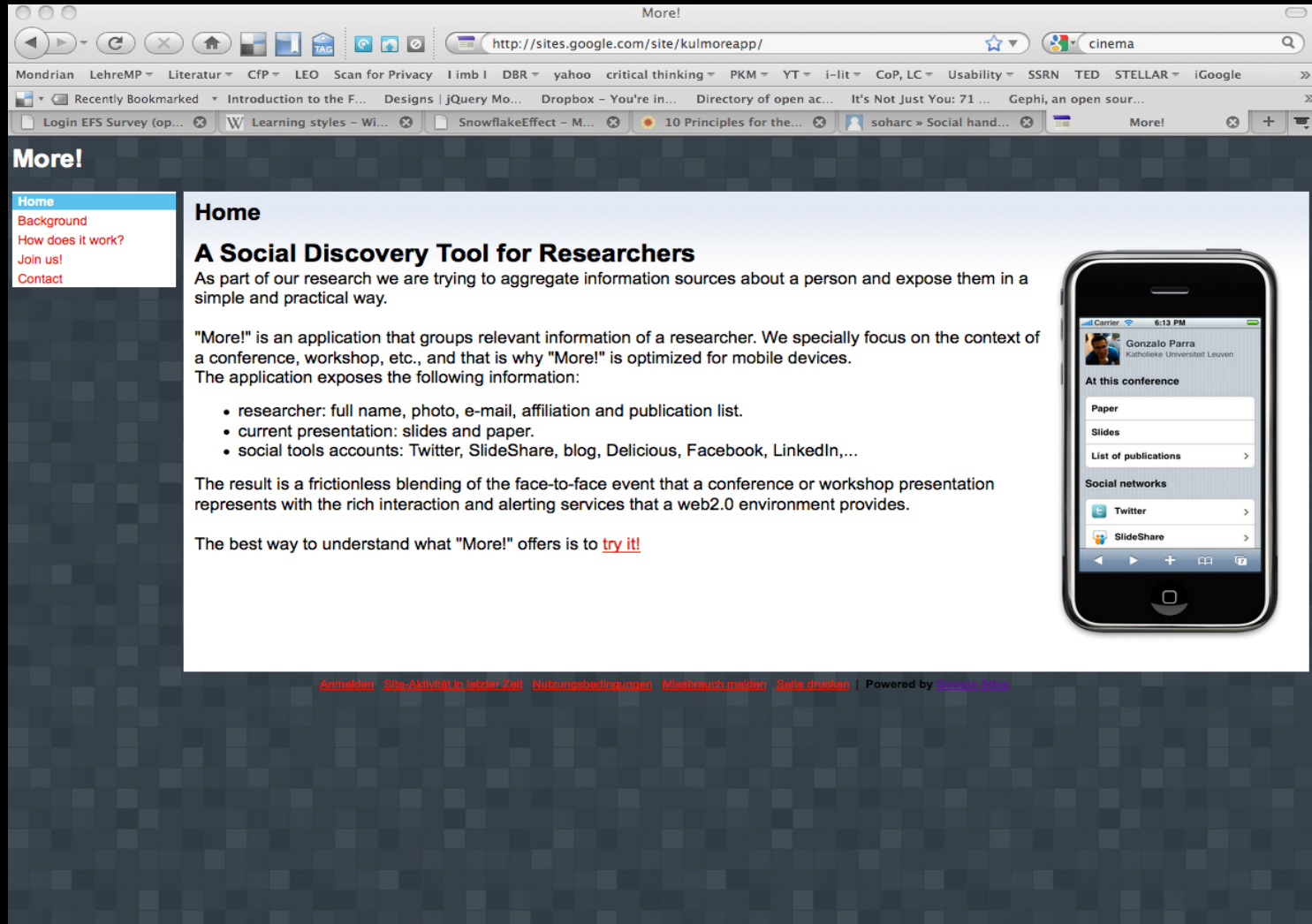
Happy New Year. Happy Easter. It's already spring. Well, it took me some time to finish with this blog entry but as you may have noticed via Twitter ...

Fertig

zotero jetzt: 4 °C heute: 13 °C Di: 7 °C

Forschung in interdisziplinären, verteilten Forschernetzwerken

Awareness



More!

http://sites.google.com/site/kulmoreapp/

Mondrian LehreMP Literatur CFP LEO Scan for Privacy I imb | DBR yahoo critical thinking PKM YT i-lit CoP, LC Usability SSRN TED STELLAR iGoogle

Recently Bookmarked Introduction to the F... Designs | jQuery Mo... Dropbox - You're in... Directory of open ac... It's Not Just You: 71 ... Gephi, an open sour...

Login EFS Survey (op... Learning styles - Wi... SnowflakeEffect - M... 10 Principles for the... soharc » Social hand... More!

More!

Home
Background
How does it work?
Join us!
Contact

Home

A Social Discovery Tool for Researchers

As part of our research we are trying to aggregate information sources about a person and expose them in a simple and practical way.

"More!" is an application that groups relevant information of a researcher. We specially focus on the context of a conference, workshop, etc., and that is why "More!" is optimized for mobile devices. The application exposes the following information:

- researcher: full name, photo, e-mail, affiliation and publication list.
- current presentation: slides and paper.
- social tools accounts: Twitter, SlideShare, blog, Delicious, Facebook, LinkedIn,...

The result is a frictionless blending of the face-to-face event that a conference or workshop presentation represents with the rich interaction and alerting services that a web2.0 environment provides.

The best way to understand what "More!" offers is to [try it!](#)

Anmelden Site-Aktivität in letzter Zeit Nutzungsbedingungen Missbrauch melden Seite drucken | Powered by Google Sites



Forschung in interdisziplinären, verteilten Forschernetzwerken

Web 2.0 Tools

Stellar scientific portal

TEL europe • eu

FM EA-TEL

slideshare
present yourself

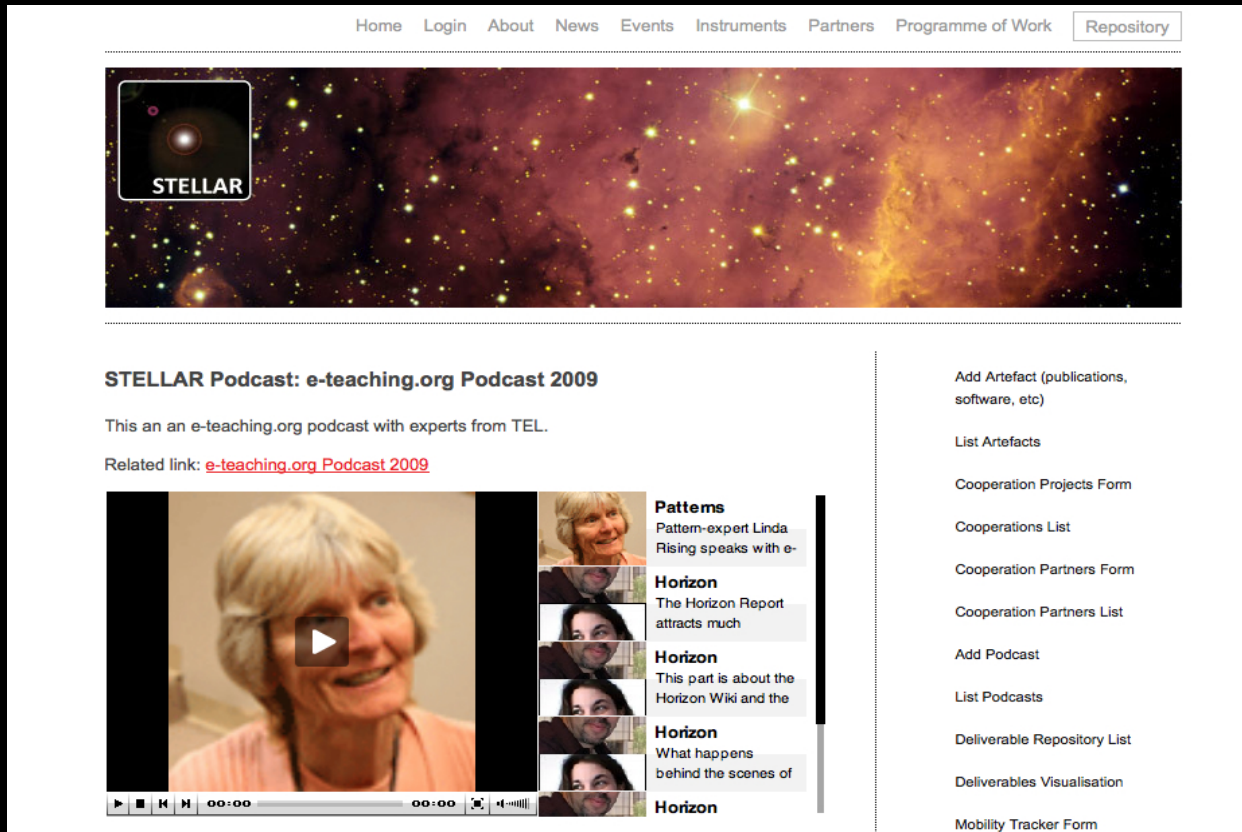
twitter

delicious

 MENDELEY
RESEARCH NETWORKS BETA 0.9

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Web 2.0 Tools



Home Login About News Events Instruments Partners Programme of Work Repository

STELLAR

STELLAR Podcast: e-teaching.org Podcast 2009

This an an e-teaching.org podcast with experts from TEL.

Related link: [e-teaching.org Podcast 2009](#)

Patterns
Pattern-expert Linda Rising speaks with e-

Horizon
The Horizon Report attracts much

Horizon
This part is about the Horizon Wiki and the

Horizon
What happens behind the scenes of

Horizon

- Add Artefact (publications, software, etc)
- List Artefacts
- Cooperation Projects Form
- Cooperations List
- Cooperation Partners Form
- Cooperation Partners List
- Add Podcast
- List Podcasts
- Deliverable Repository List
- Deliverables Visualisation
- Mobility Tracker Form



Forschung in interdisziplinären, verteilten Forschernetzwerken

Web 2.0 Tools



The screenshot shows the 'STELLAR Doctoral Community of Practice' page on the TEL europe.eu website. The page is titled 'STELLAR Doctoral Community of Practice' and features a description, a list of group members, and a section for 'Latest discussion' with three posts: 'soharc Archive', 'Best papers', and 'About the virtual DoCoP'. There are also sections for 'Group files' and 'Group pages'.

STELLAR Doctoral Community of Practice

The STELLAR virtual Doctoral Community of Practice supports top-level research-oriented learning activities for doctoral students working within the field of TEL.

Subscribe to feed
Bookmark this
Report this

Edit group
Invite friends
Group discussion
Group pages
Group files
Add RSS Feed
View Feeds

Group members

STELLAR Doctoral Community of Practice

Description:
The STELLAR virtual Doctoral Community of Practice supports top-level research-oriented learning activities for doctoral students working within the field of TEL. The community sees PhD education as a key issue for strengthening TEL research, shaping the domain and preparing the next generation of researchers and TEL entrepreneurs. To support Ph.D. candidates this group provides doctoral students with news and events from the larger TEL community, Ph.D.-related information and a virtual place to discuss research findings and other issues pertaining to Ph.D. studies.

Brief description: The STELLAR virtual Doctoral Community of Practice supports top-level research-oriented learning activities for doctoral students working within the field of TEL.

Interests: virtual community of practice, doctoral candidates, Ph.D. studies, TEL research

Website:

Latest discussion

- soharc Archive**
Posts: 1
- Best papers**
Posts: 1
- About the virtual DoCoP**
Posts: 1

Group files

- Short list of Web 2.0 tools for research
22 hours ago
More
- Short list of TEL-related journals
yesterday
More

Group pages

- Call for papers JURE at Earli 2011
Last updated yesterday by nina heinze
- Doctoral Consortium and Early Career Workshop at CACL 2011, Hong Kong
Last updated 4 days ago by Denis Gillet
- Doctoral Colloquium at CSCW

Forschung in interdisziplinären, verteilten Forschernetzwerken

Web 2.0 Tools




Stellar scientific portal

Home Events Register Affiliate Contact

Collections: [RSS](#)

Science 2.0 for TEL (ECTEL 2009)

5 items matching your criteria. [PDF only](#) | [All](#)

-  **Science 2.0: Supporting a Doctoral Community of Practice in Technology Enhanced Learning using Social Software**
Gillet D., El Helou S., Joubert M., Sutherland R.
Science2.0 for TEL Workshop. ECTEL 2009, France (2009) 7 pages
-  **Social networking in scientific conferences - Twitter as tool for strengthen a scientific community**
Ebner M., Reinhardt W.
Science2.0 for TEL Workshop. ECTEL 2009, France (2009)
-  **Science 2.0 Practices in the Field of Technology Enhanced Learning**
Kieslinger B., Lindstaedt S.
Science2.0 for TEL Workshop. ECTEL 2009, France (2009)
-  **Visualizing Research Patterns in the Field of e-Learning**
Salman Khan M., Ebner M., Taraghi B.
Science2.0 for TEL Workshop. ECTEL 2009, France (2009)
-  **Reflections on Participatory Science for TELSci2.0**
Underwood J., Luckin R., Smith H., Walker K., Rowland D., Fitzpatrick G., Good J., Benford S.
Science2.0 for TEL Workshop. ECTEL 2009, France (2009)

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TEL Folio
Thesaurus
Topics Café

STELLAR Delphi Studie

Delphi Methode:

- aufkommende Trends und zukünftige Entwicklungen identifizieren
- mehrere Befragungsrunden mit Experten

Ziele der STELLAR Delphi Studie zu technologiegestütztem Lernen (TEL)

- zukünftige TEL-Forschungsthemen identifizieren unter Berücksichtigung technologischer Entwicklungen und gesellschaftlicher Herausforderungen
- Rahmenprogramm für zukünftige Europäische TEL-Forschung



STELLAR Delphi Studie

*Februar – September
2009*

Runde 1: Interne Befragung (STELLAR Partner)

*Oktober 2009 –
Juni 2010*

Runde 2: Weltweite Befragung

*Juli – Oktober
2010*

Runde 3: Zwei Workshops (STELLAR Partner)

*November 2010 –
September 2011*

Runde 4: Weltweite Befragung

*Oktober 2011 –
Mai 2012*

Runde 5: Workshops (STELLAR Partner und Stakeholder)



STELLAR Delphi Studie

Runde 1

Februar – September 2009

*Oktober 2009 –
Juni 2010*

*Juli – Oktober
2010*

*November 2010 –
September 2011*

*Oktober 2011 –
Mai 2012*

STELLAR-interne Befragung

- Identifizieren von wichtigen gesellschaftlichen Herausforderungen, technologischen Entwicklungen und Forschungsthemen
- Offenes Antwort-Format → qualitative Datenanalyse
- Entwicklung von Kategoriensystemen
- Grundlage für die 2. Delphi Runde

Runde 3: Zwei Workshops (STELLAR Partner)

Runde 4: Weltweite Befragung

Runde 5: Workshops (STELLAR Partner und Stakeholder)



STELLAR Delphi Studie

*Februar – September
2009*

Runde 1: Interne Befragung (STELLAR Partner)

Runde 2

Oktober 2009 – Juni 2010

Erste weltweite Befragung (STELLAR-extern)

- Quantifizierung der Kodier-Kategorien in Rating-Items
 - 3 Fragen zu zukünftigen Trends (gesellschaftliche Herausforderungen, technologische Entwicklungen, Forschungsthemen)
 - 16 "visionary statements"
 - Meinungen zu optimalen Standards für Forschung in TEL

*Juli – Oktober
2010*

Runde 4: weltweite Befragung

*November 2010 –
September 2011*

*Oktober 2011 –
Mai 2012*

Runde 5: Workshops (STELLAR Partner und Stakeholder)



STELLAR Delphi Studie

*Februar – September
2009*

Runde 1: Interne Befragung (STELLAR Partner)

*Oktober 2009 –
Juni 2010*

Runde 2: Weltweite Befragung

Runde 3

Juli – Oktober 2010

Zwei Workshops mit STELLAR Mitgliedern

- Ausarbeitung der zukünftigen Trends der 2. Delphi Runde
- Core Research Areas
- Areas of Tension in TEL

*November 2010 –
September 2011*

*Oktober 2011 –
Mai 2012*

Runde 5: Workshops (STELLAR Partner und Stakeholder)



STELLAR Delphi Studie: 2. Delphi Runde – Zukünftige Trends

Zukünftige gesellschaftliche Herausforderungen (18 items)

What key societal demands and challenges will Technology-Enhanced Learning have to respond to in the future?

Zukünftige technologische Entwicklungen (12 items)

What key technological developments will have an impact on Technology-Enhanced Learning in the future?

Zukünftige Forschungsthemen (25 items)

Imagine a large international research program on Technology-Enhanced Learning to be carried out from 2015 till 2020:

What should be central research themes in this program?



STELLAR Delphi Studie: Ergebnisse der 2. Delphi Runde - Top 5

Zukünftige Forschungsthemen

- Collaborative learning
- Enabling developing countries to benefit from TEL
- Personalization/individualization of learning
- Contextualized learning & context-aware applications
- Lifelong learning & workplace learning

Zukünftige gesellschaftliche Herausforderungen

- Lifelong learning
- Provide teacher training in order to improve formal education
- Adapt education to new generations of students
- Reducing the “digital divide”
- Learning on demand

Zukünftige technologische Entwicklungen

- Mobile (portable) computing technologies
- Collaboration & communication tools
- Technology spread
- Innovative interfaces
- Interoperability

STELLAR Delphi Studie: 2. → 3. Delphi Runde

Eine sozio-technologische Perspektive auf TEL-Forschung führt zur Entwicklung von Forschungsschwerpunkten, sogenannten **Core Research Areas**.

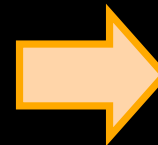
Zukünftige gesellschaftliche Anforderungen
und Herausforderungen

+

Zukünftige technologische Entwicklungen

+

Zukünftige Forschungsthemen



Core Research Areas



STELLAR Delphi Studie – Core Research Areas

- **Computer-supported collaborative learning**
- **Reducing the digital divide**
- **Personalization of learning**
- **Contextualized learning**
- **Workplace learning**
- **Ubiquitous & mobile technology and learning**
- **Emotional and motivational aspects of technology-enhanced learning**
- **Informal learning**
- **Improve practices of formal education**
- **Connection between formal and informal learning**
- **Interoperability**

STELLAR Delphi Studie – Core Research Areas

Beispiel: Contextualized Learning

Societal challenge for TEL

- Learning on demand
- Lifelong learning

Technological development

- Ambient intelligence/computing
- Context-aware technologies and applications
- Augmented and virtual reality

Research theme

- Contextualized learning & context-aware applications

Trendsetting Research Questions:

How can we theorize context in a form that is appropriate for enabling new forms of learning?

How to enable continuity of the interaction and accessibility of information between different contexts, including virtual and physical ones?

How to find and aggregate relevant people, resources and services from the “cloud” for a given context?

....



STELLAR Delphi Studie – 2. → 3. Delphi Runde

Rating von 16 Visionary Statements auf zwei Dimensionen

Beispiele: “By 2025, virtual experiences will dominate education”

unrealistic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	realistic
undesirable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	desirable

“By 2025, students will start their school day by switching on their computer and logging in to “school“ (from wherever they are at that time).”

unrealistic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	realistic
undesirable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	desirable

Muster in der Häufigkeitsverteilung auf beiden Rating-Skalen (realistic- und desirable-Rating) und Kommentare ließen Spannungen erkennen.



Areas of Tension

STELLAR Delphi Studie – Areas of Tension

**Allgegenwärtige Lerngelegenheiten
vs.
Fokussierte und kritische Informationsverarbeitung**

„Digital divide“ trotz Technologie-Verbreitung

**Datenerhebung- und speicherung für personalisiertes Lernen
vs.
Datenprivatsphäre**

**Bewährte Methoden
vs.
Kontinuierliche Innovation im Klassenzimmer**

Individuelle Lernprofile vs. Standardisierte Lernprofile



STELLAR Delphi Studie – 4. Delphi Runde

- **Weltweites Experten-Gremium**
- **Online-Datenerhebung Januar – März 2011**
- **Fragebogen**
 - Ranking der *Core Research Areas* und Vorschläge für konkrete Forschungsvorhaben
 - Bewertung der *Areas of Tension* in TEL

Ziel:

**Katalog mit Empfehlungen für zukünftige Forschung im Bereich
technologiestützten Lernens**



Perspektiven

- Stärkung der Forschergemeinde durch enge Zusammenarbeit
- Weiterentwicklung und Verbesserung der bestehenden Infrastruktur
- Nachhaltige Partnerschaften
- Erhöhte Interdisziplinarität
- Erhöhte Wettbewerbsfähigkeit der europäischen Forschergemeinschaft



Links:

STELLAR: www.stellarnet.eu

TELeurope: www.teleurope.eu

STELLAR Delphi Studie on TELeurope: <http://tinyurl.com/6x7unqo>

STELLAR Delphi Studie: http://www.stellarnet.eu/programme/wp1/stellar_delphi_study

STELLAR Open Archive: oa.stellarnet.eu

EC-TEL: www.ec-tel.eu

IWM: www.iwm-kmrc.de

Universität Freiburg Forschergruppe: www.psychologie.uni-freiburg.de/abteilungen/Allgemeine.Psychologie