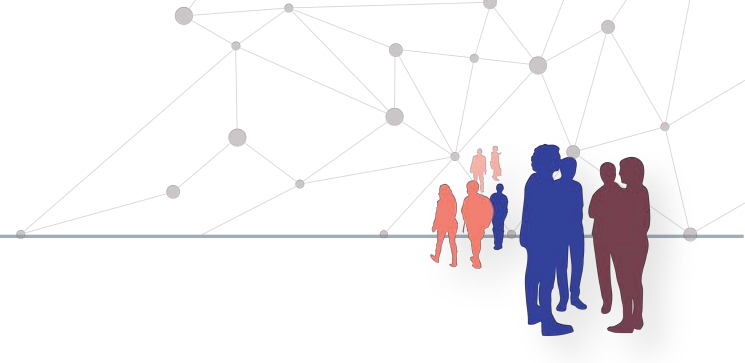
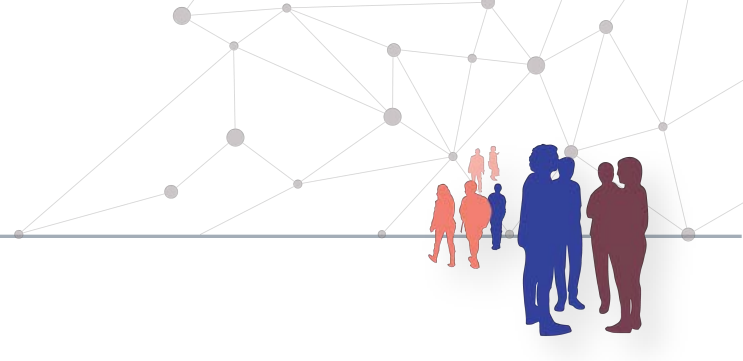
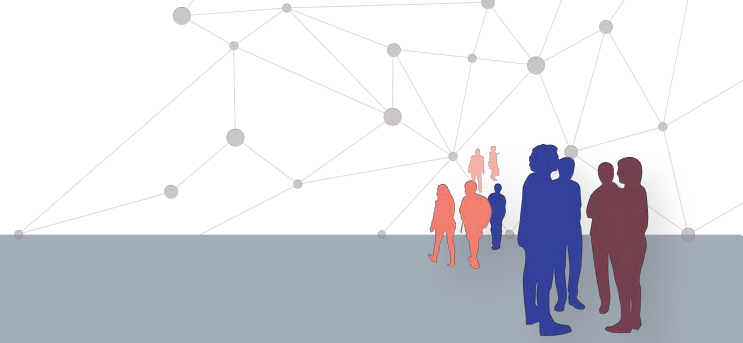


DSI General Meeting
November 11, 2021

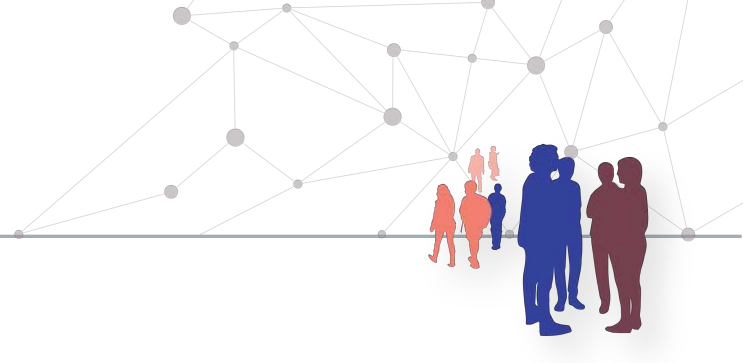


Agenda

- Introductory Formalities
- DSI Updates
  - General information from the Directorate
  - Update Communication
- Voting
  - Adoption of the DSI Roadmap 2021
  - Election of new network members
- Presentation of DSI Communities
- Feedback and Questions



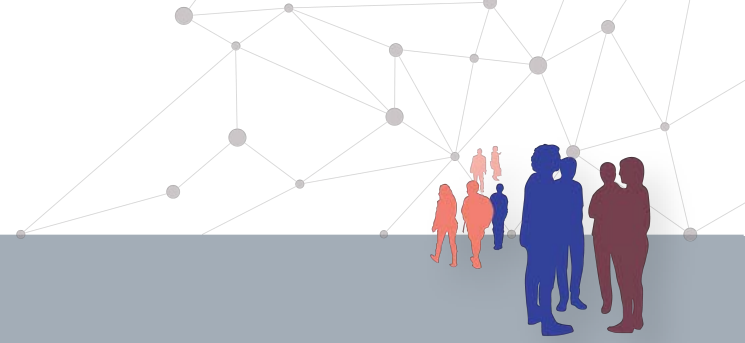
Introductory Formalities



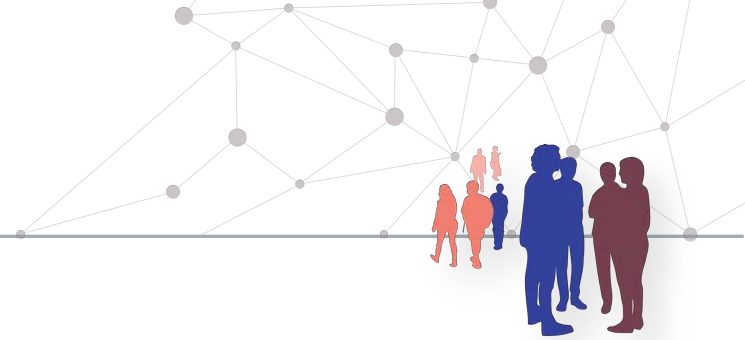
Introductory Formalities

Minutes of last year's meeting

– Do you have any feedback? Questions?



DSI Updates



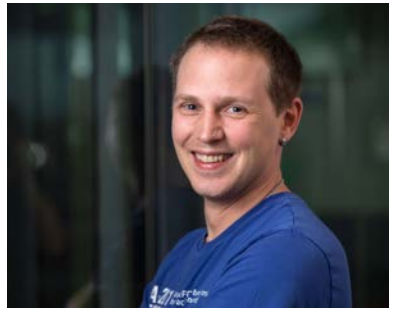
Most important activities 2021 – Overview

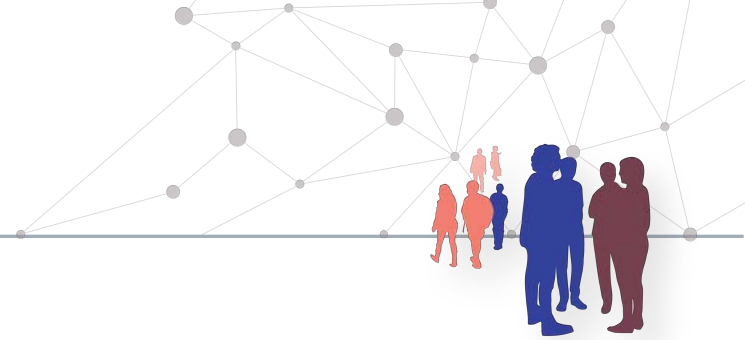
- Main developments 2021 (by **Avi Bernstein**):
  - New directors / new managing office members
  - New agreement of objectives by 2022, shift to UZH Research
  - DIZH & DSI Calls
  - DSI strategic projects
- DSI Strategy Lab 2021 (by **Markus Christen**)
- DSI education programs update (by **Nina Cornelius & Ursula Brack**)
  - Studium Digitale
  - PhD Excellence program
  - Upcoming Minor Digital Skills
- DSI outreach update (by **Claudia Witt**)
- Activities of Communities ➔ main point in this meeting (by **Thomas Friemel**)

The DSI Team 2021

Directorate

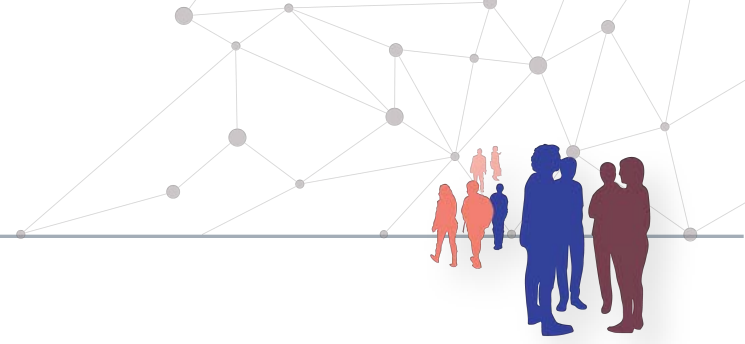
Managing Office





Developments on the formal level

- The DSI is about to finalize the new "**Zielvereinbarung**" with the UL starting 2022 for its main five units:
  - Research
  - Education
  - Outreach
  - Strategy
  - Structure (Administration)
- By 2022, the DSI will formally be subsumed in the unit "**Prorektorat Forschung**" (currently: "Prorektorat Professuren und wissenschaftliche Information")



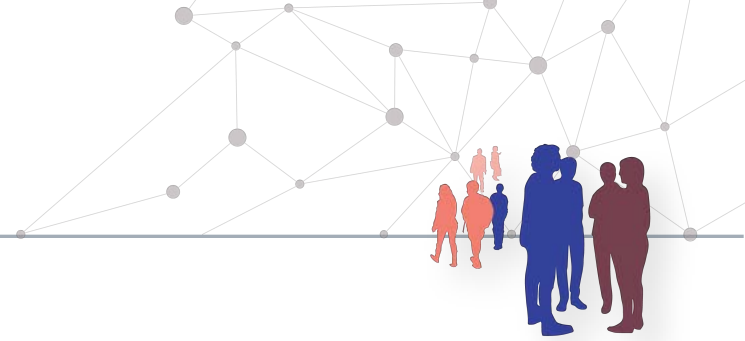
DIZH and DSI Calls

The **Digitalization Initiative of the Zurich Universities** (DIZH) has started its call activities in late 2020, leading to the following results so far:

- **Project Call** 2020 (10 projects funded, 3 with UZH lead)
- **Rapid Action Call** 2021 (currently under evaluation)
- **Structure Call** (currently open until (01.02.2022)

The DSI is managing the following **DIZH-funded projects**:

- **DIZH Bridge Professorships** (final decisions still pending)
- **DSI-Infrastructure-Lab-Call** (4 projects funded in first call; second call open until 01.12.21)
- **Tenure Track / Assistant Professorship Program** are in preparation



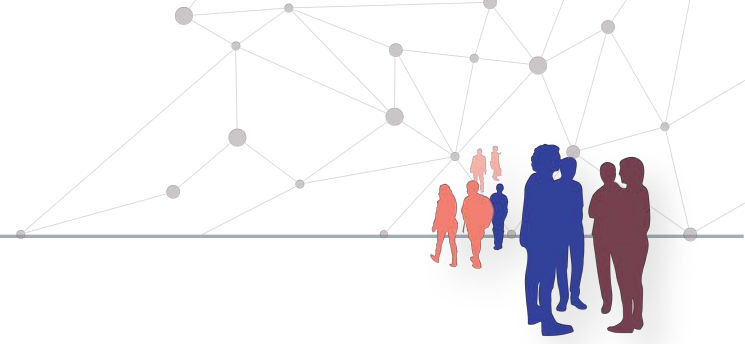
DSI strategic projects and research success

Strategic projects

- Development of the research focus on **cybersecurity** (among others: NRP-77 project)
- Development of **data protection & ethics self-assessment tool DESAT** (with data protection department), becomes part of new grant management platform in 2022.
- Development of **Z-Pool-Tool platform** (with DIZH universities) for participant pool management.
- NRP-75 cross-cutting projects: ELSI Task Force / Women in Big Data to be finalized in 2022

Research activities

- Operational implementation of the majority of UZH-related **DIZH projects** (post-doc progr., infrastructure/lab call, bridge professorships).
- Strategic **planning** of all new DIZH-funded professorships (AP, tenure track).
- Funding and partial supervision of **digitalization research**; currently (early 2022) 58 DSI projects (~11M) and 163 DSI-related projects (~53M).
- Management of all **DSI communities** (acceptance of annual plans, etc.)
- Supervision of all **interdisciplinary exchange** events of the DSI network (speed dating, etc.)

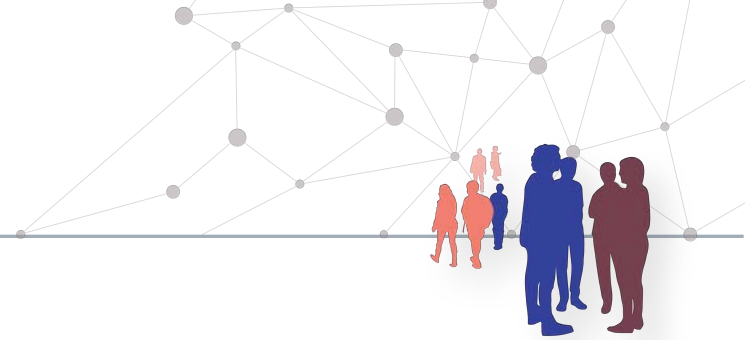


DSI Strategy Lab

The **DSI Strategy Lab** drafts conceptual and strategic designs and scenarios for future developments in digital transformation. A topic is usually addressed through retreats, workshops, or other appropriate forms of collaboration. In any case, the result is a high-profile product such as a position paper.

Topic 2021: Regulation of artificial intelligence

- The DSI Strategy Lab 2021 is investigating which civil, criminal, administrative, and international law issues the use of artificial intelligence may have
- The Strategy Lab has created a position paper to identify the central challenges of regulating AI, to formulate the regulatory approaches and the most important contents of possible rules, and to draw up a research plan to develop concrete solutions to these challenges.
- More information on: www.dsi.uzh.ch/strategy-lab



DSI Education

Studium Digitale: Online course on OLAT at Bachelor level with focus on Data & Information, Programming and Computational Thinking, Digital Society and Studying Digital. 3 ECTS. Pilot HS20: 60 students → FS21: 360 students → target size: 1000 students per semester.

PhD Excellence Program: Complimentary PhD program, that promotes interdisciplinary networking across all UZH faculties. Courses on digital skills and technical knowledge, interdisciplinary thinking and critical reflection on all aspects of a digital society. (1st cohort 2020: 16 students; 2nd cohort 2021: 9 students)

P8-DISK4U: Program funded by the federal government and coordinated by swissuniversities to strengthen digital skills in teaching. Project management by the DSI for 6 projects with students as the target group.

DSI Minor "Digital Skills": Design of a new study program of 30 ECTS at Master level. The DSI Minor enables students to acquire the competencies needed to meet the challenges of the digital transformation. The focus is on interdisciplinary, problem-oriented group work.

DSI Education needs you

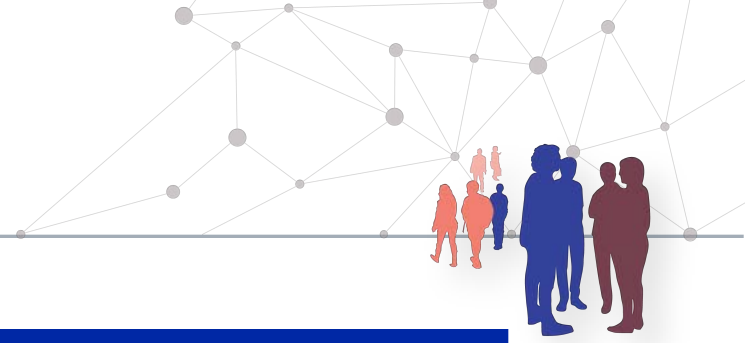
- The **PhD Excellence** Program thrives on the diversity of research in the DSI network. We look forward to expanding our course offerings base.

- **Call for application:** Please spread the word and encourage your PhDs to take part in the DSI Excellence Program starting next Autumn 2022.
- All information are available on dsi.uzh.ch

DSI Education needs you!

The **DSI Minor** looks for current challenges of the digitalization for the students' interdisciplinary project work.

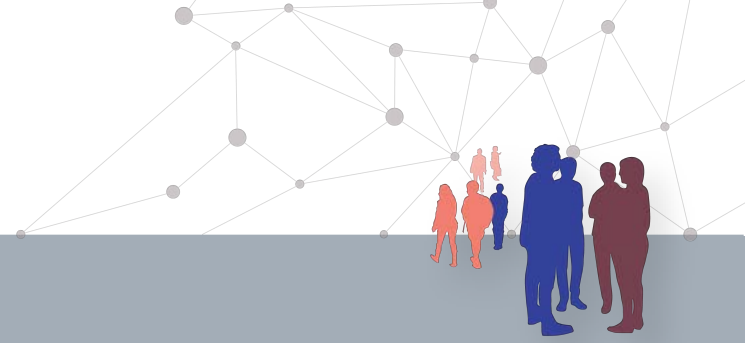
We look forward to your ideas and suggestions.
Many thanks!



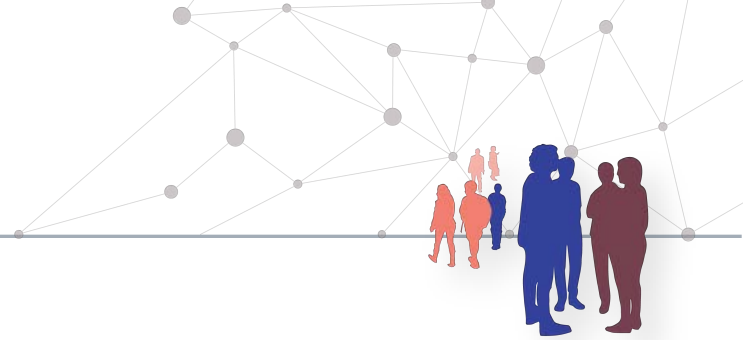
What do we want from you?

What do we want from you?

DSI Outreach



Voting



Rights and duties of DSI General Assembly

1. Election of full DSI members

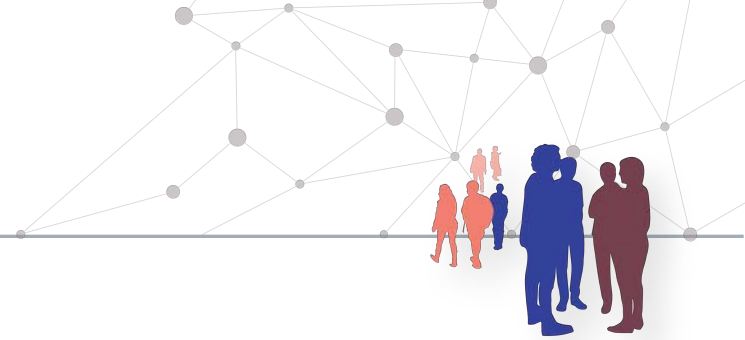
2. Election of associated members

3. Formal approval of new DSI roadmap

Formalities: Election of DSI members

140 new full members (since 07.11.2020 up to 11.11.2022):

Alexander Zimmermann, Alexandria Deliz Liang, Ana Kotarcic, Anais Aeschlimann, André Kretzschmar, André Meyer, Andrea Glässel, Andreas Gregr, Andri Färber, Angela Müller, Anne Schulz, Anniko Hannak, Antonio Pozzi, Ashley Polhemus, Brian Park, Carolin Marie Merten, Christian Ewerhart, Christian Killer, Christina Haag, Cristina Frei, Dan Olteanu, Daniel Drewniak, Daniel Schuler, David Chiavacci, David Oesch, David Schneider, Dilan Seckiner, Dzmitry Katsiuba, Egwuchukwu Emmanuel Ani, Ekaterina Tikhomirova, Enru Lin, Eva Becker, Farhad Nooralazadeh, Federico Germani, Felix Gille, Florian Spychiger, Frank Weyen, Franziska Oehmer, Gabriel Aguirre Fernandez, Gabriele Prohaska, Georg Blind, Guido Seiler, Hanna Marti, Hanna Stoll, Heinrich Nax, Henning Richter, Hiloko Kato, Hoda Allahbakhshi, Holger Brandt, Inez von Weitershausen, Ingrid Bauer, Iris Hübscher, Jaelle Fuchs, Jan Dirk Wegner, Jana Sedlakova, Jochen Menges, Julia Müller, Karina Frick, Katja Bärenfaller, Khaoula Ettarfi, Kiran Kappeler, Kiran Zahra, Kiril Mitrov, Konstantinos Tzouflas, Ladina Tschander, Lars Ebert, Lei He, Lena Kaufmann, Lesley Spiegel, Liudmila Zavolokina, Luis Aguiar, Maike Sieler, Malwina Kowalska, Marco Dell'Erba, Maria Olivares, Mario Angst, Markos Mpadanes, Mateusz Dolata, Matthias Dittberner, Melanie Knieps, Merens Derungs, Michel Rickhaus, Milan Scheidegger, Mina Stanikic, Mirjam Loewe, Myriam Pham, Nadine Strauss, Nicole Borel, Niels Mede, Nina Hartrampf, Noemi Dannecker, Olexandr Nikolaychuk, Oliver Strijbis, Paola Daniore, Pashalis Naoumis, Pavlos Natsios, Peter Brauchli, Philipp Kerksieck, Philippe Haensler, Rebecca Brauchli, Rudolf Mumenthaler, Sabine Dani, Sandra Luber, Sandra Luber, Sara Hitchman, Sara Pangrazzi, Sarah Hartmann, Sebastian Niederberger, Sharon Richardson, Shaymaa Soliman, Shengnan Li, Silke Fürst, Simon Aeschbacher, Simon Schwab, Simon Teuscher, Simon Walo, Sonja Hartnack, Sophia Charlotte Volk, Stefania Lottanti von Mandach, Stephanie Volz, Susanne Fischer, Sven Wissmann, Sybilla Merian, Sybille Sachs, Tessa Consoli, Thomas Frauenfelder, Thomas Lutz, Thomas Puschmann, Titus Neupert, Tobias Motz, Torsten Scheyer, Ursula Brack, Vanessa Camilleri, Vartan Kurtcuoglu, Viktor Matejka, Virginie Pache, Walter Bierbauer, Wenjie Han, Will Marter

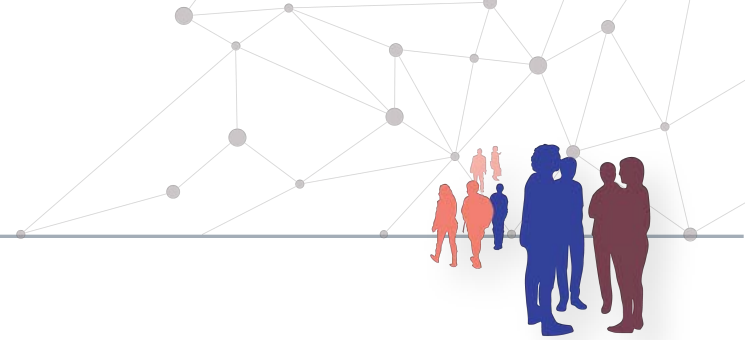


Formalities: Election of associate members

43 new associate members (since 07.11.2020 up to 11.11.2021):

André Cardozo Sarli, Baran Bagheri, Bilge Sayim, Bora Obacina, Christian Mathis, Costa Vayenas, Cristina Teleki, David-Olivier Chiffelle, Dorothée Caminiti, Edgar Barroso, Elena Simukovic, Ernesto De Léon, Gabriela Lüthi, Hannes Bajohr, Jennifer Victoria Scurrell, Jerome Duberry, Joachim Steinwendner, Johannes Pulsfort, Jonas Bozenhard, Joshua Binswanger, Manuel Sebastian Mariani, Manuel Suter, Mathias Bonmarin, Melanie Jeltsch, Melanie Paschke, Melinda Lohmann, Miriam Loertscher, Monique Helene Rauscher, Nicolai Maldaner, Nicole Lemke, Nunzia Sferrazza, Pauline Meyer, Philipp Riederle, Reto Inversini, Seraina Mohr, Serge Droz, Sonja Kahlmeier, Srinivas Yerramsetti, Sylvain Métille, Valentine Bernasconi, Vedantha Singh, Verena Griess, Wolfgang Segerer

In total, the DSI network now consists of 662 members.



DSI Roadmap 2021

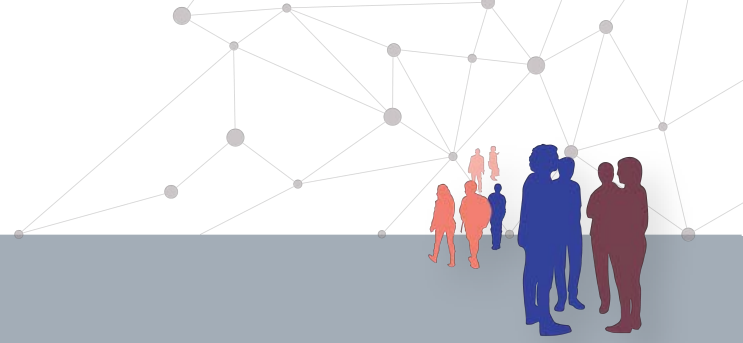
- Information about the process has been provided in the general assembly 2020
- Feedback has been collected in Q1 2021
- Roadmap has been finalized in Q2 2021

Any comments to the current roadmap?

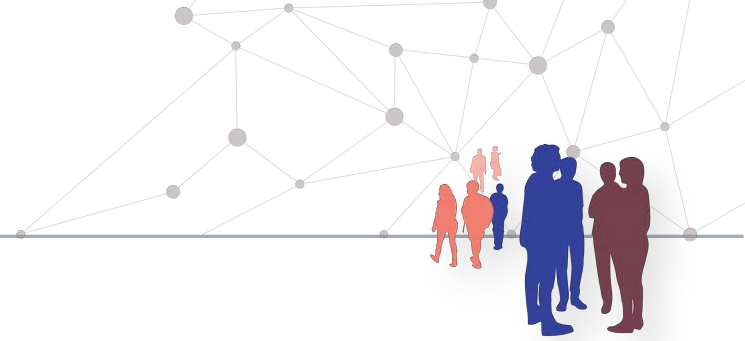
In about a year, a new update cycle will start.

Universität Zürich[UZH]

Digital Society Initiative



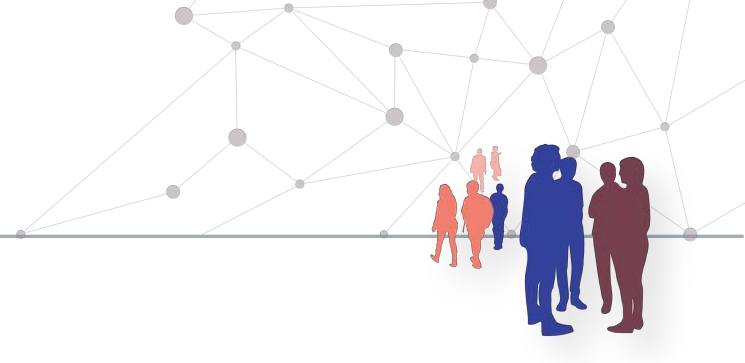
Presentation of DSI Communities



Current DSI Communities

The DSI currently consists of **8 active communities**

1. Communication
2. Cybersecurity
3. Democracy
4. Ethics
5. Gaming
6. Health
7. Mobility
8. Work



DSI Community Communication

Thomas Friemel & Julia Müller

Community report for 2021

- Four community meetings (online and hybrid) featuring nine talks of community members & guests
- DSI-fellowship of Sarah Geber: Tracing Technology Acceptance: International and Interdisciplinary Perspectives
- Workshop on automated content analysis (12th November)
- Community Project 2021:

  Donation of digital user data (e.g., search logs, browser history, mobility data, health data etc.) has huge potential for various research fields. The goal of the seed funding project was to develop and test a data donation framework that can be made available to all UZH/DIZH researchers.

  > DIZH infrastructure funding www.datadonation.uzh.ch

  Data Donation Lab

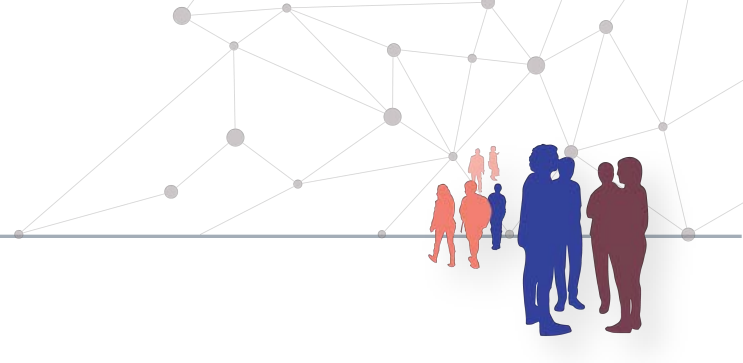
  > PWA funding for citizen science project www.digital-meal.ch

  Digital Meal
  Unsere digitale Mahlzeit

Community plans for 2022

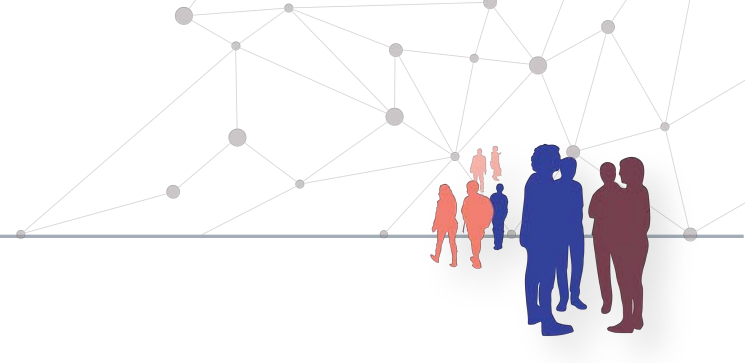
- New Chairs
  - Dr. Sarah Geber (IKMZ)
  - Dr. Lea Stahel (SUZ)

- Four community meetings (online and hybrid) with project presentations & business meetings
- Workshop on automated content analysis
- Community Project 2022: DSI Information Abundance Project (Dr. Anne Schulz, Dr. Sophia Volk)
  - critically reflect on the concept of information abundance from an interdisciplinary perspective
  - empirically examine the actual prevalence, individual-level factors and consequences of information abundance
  - focus groups and a standardized online survey of the Swiss public



DSI Community Cybersecurity

Melanie Knieps & Sara Pangrazzi

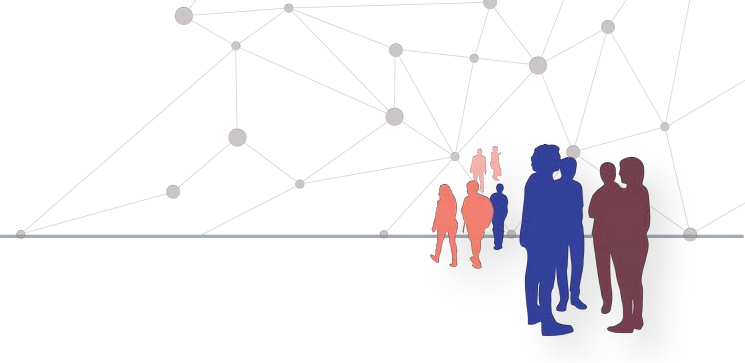


Activities 2021

Community Building and Strengthening

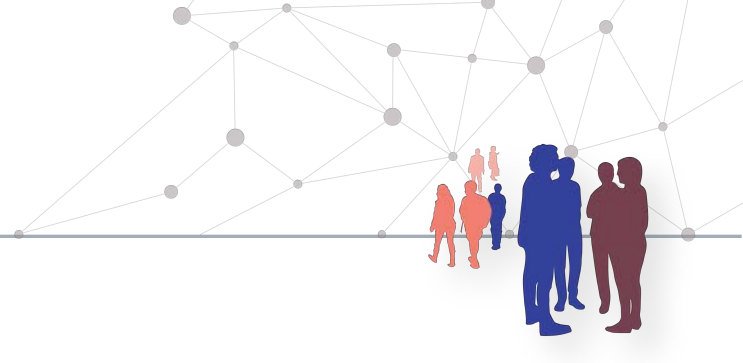
- **Speed Dating** (*Goal*: Exploring synergies)
- **Two small workshops** (*Goal*: Interdisciplinary exchange tech + non-tech).
- **Two main Workshops:**
  - **Cyber-cooperation** (*Goal*: Understanding the environment and practical challenges of cooperation)
  - **Quantum Computing** (*Goal*: Understanding what it is and what its implications for society may be in the future + first physical meeting of the community as such)

The Cyber Norms Project (*Goal*: Complementing existing research activities + explore new projects)



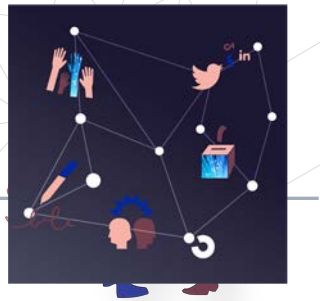
Plan for 2022

- **DIZH Structure Call** (*Goal*: Building a cybersecurity research cluster + exploring the feasibility of establishing a volunteer-based task force for large-scale cyber-incidences building upon this cluster)
- **Seed Funding** (*Goal*: Establishing a new social contract between researchers and citizens + collaboration with other communities)
- **Awareness Workshop** (*Goal*: Learning about best practices in communicating cyber security-related issues to policy-makers and the public)
- **Cybersecurity Teaching** (*Goal*: Sharing our knowledge in an interdisciplinary course for Master- and PhD-students (spring semester))
- **Fellowship (Decision making/human-centric design)** (*Goal*: Informing the DIZH Structure Call concerning policy-making, organizational best practices, and teaching the public)
- **Community Meetings (Speed dating, internal workshops etc.)** (*Goal*: Strengthening/building of Community)



DSI Community Democracy

Paula Moser



- **Focus:**
  Benefits & risks of digitalization for democracy and society
  - Interdisciplinary research & projects
  - Outreach to stakeholders & the broader public
  - Development of practical approaches & solutions

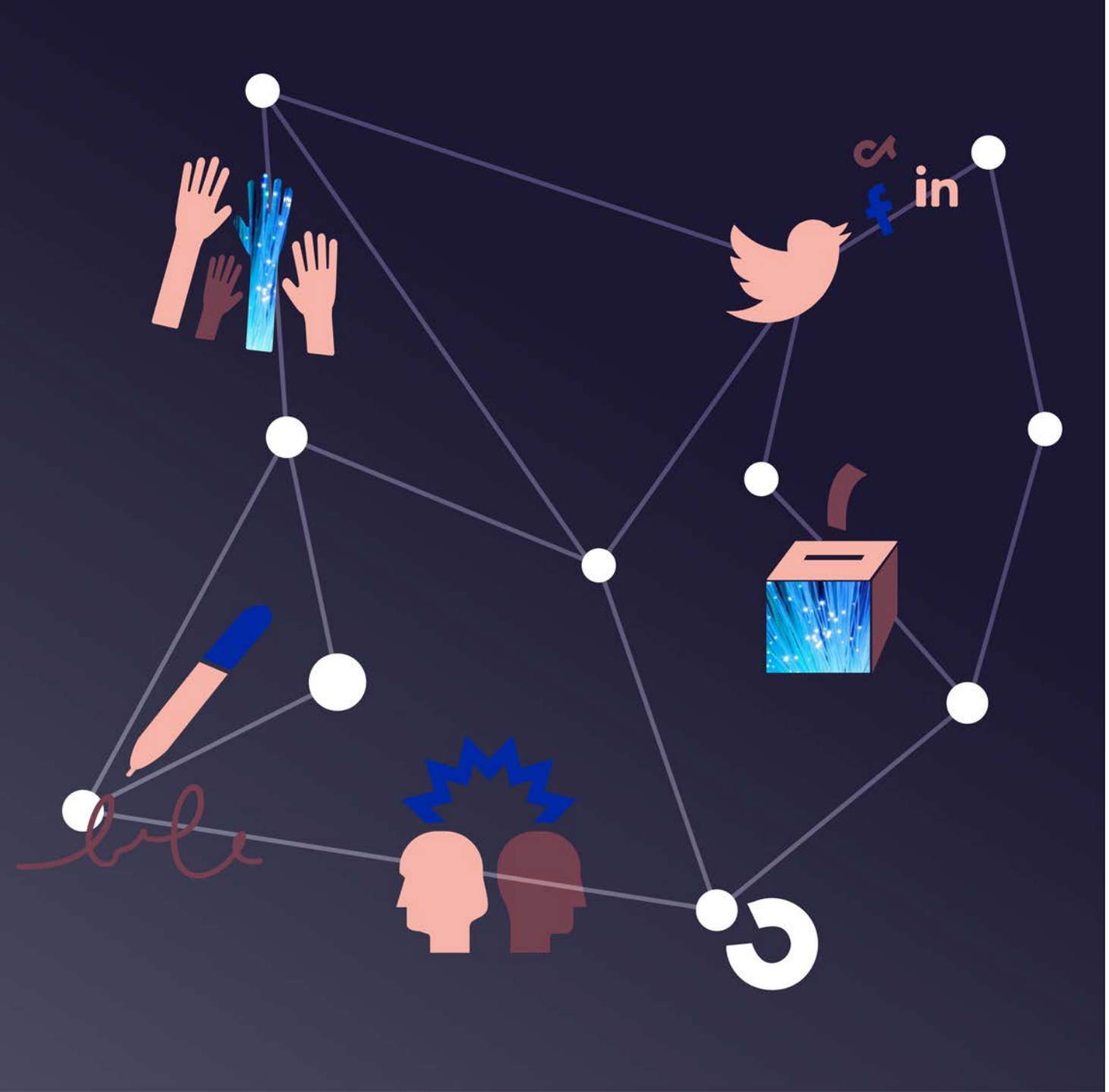
- **Coordinators**
  - Karsten Donnay
  - Fabrizio Gilardi
  - Paula Moser

DigDemLab

Digital Democracy Lab

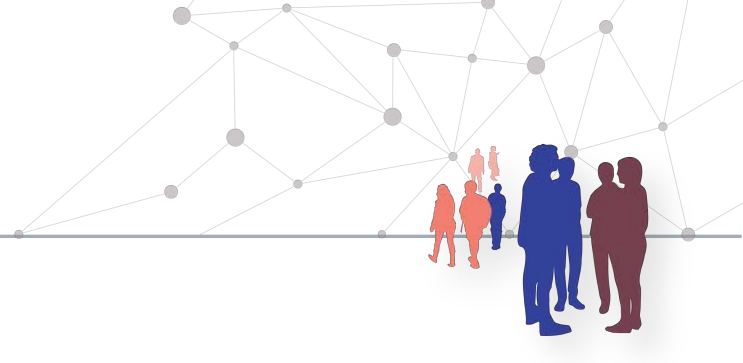
Third-party funded projects

Community meetings, Brownbag, Workshops, panel discussions



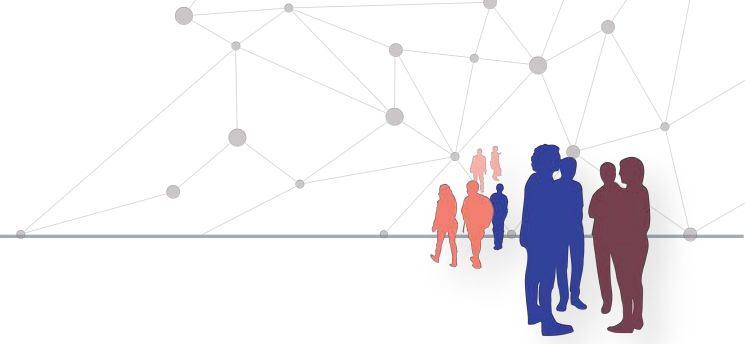
Agenda for next Semester

- **Community Meetings & Research presentations:**
  Exclusively for community-member, every other week via Zoom
- **DSI Democracy Meets:**
  Panel discussion series with stakeholders outside of academia, hybrid format
- **Digital Democracy Workshop:**
  Two-day academic workshop in October, full hybrid format



DSI Community Ethics

Jana Sedlakova



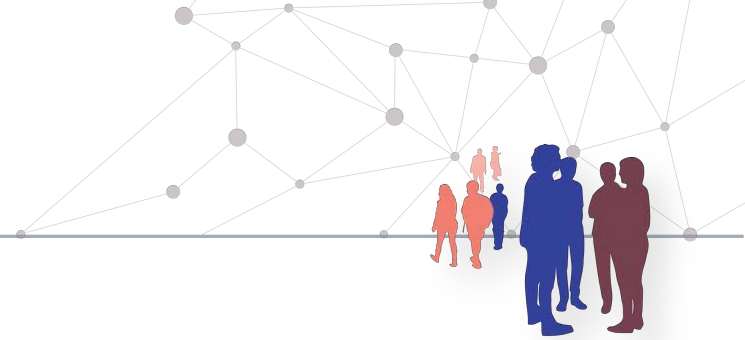
Projects and Activities 2021

Reading Group – 10 meetings, discussing articles and books on „ethics of algorithms“

Digital Ethics Lab - empirical exploration of questions at the intersection of digitalization and morality

Workshop „High Risk AI“ – 3 online meetings, 1 online workshop in December, contact & exchange with Huawei

Seed Funding “Promoting professional’s data ethics decision-making skills” – potential Innosuisse project



Community Annual Plan 2022

Seed Funding "Public Legitimacy of Digital Methods" – collaboration across DSI communities

**Reflection Board for SDI's Swiss Digital Trust label - **collaboration with Society Digital Initiative

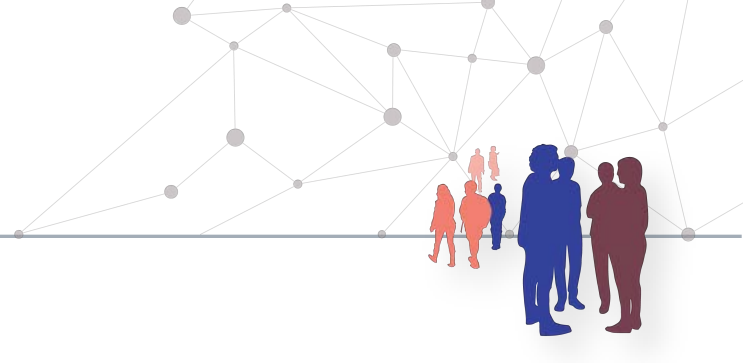
DSI Ethics Lab – designing and running studies at the intersection of digitalization and ethics

Reading Group "Interdisciplinary Ethics of Algorithms" – collaboration with the Department of Mathematics of the Politecnico Milano

**Workshop «High-Risk AI» - **fall semester, contact & exchange with Huawei

Workshop „The role of Ethics for Sustainable Data Economy" – fall semester, collaboration with Data Innovation Alliance & Economiesuisse

Fellowship - synergies with "Public Legitimacy of Digital Methods"



DSI Community Gaming

Tanja Samardzic

2021 Report

- Gaming community started with matching funds from the **UPSKILLS** project
- Obtained funds from **DSI**: **fellow** (7000 CH), grant **proposal** (7000)
  - Fellow: Vanessa Camilleri from University of Malta AI department, September-October
  - Grant: Leyla Feiner hired as an assistant to Tanja Samardzic and Vanessa Camilleri
  - DSI Lab proposal to be submitted on 1 December, in connection with "**The Future of Work Virtual Reality Lab"**
- Organised two **events** at UZH:
  - Kick-off meeting online
  - Presentation of the Community at the URPP Language and Space
- Established online working space: **Miro board** and **mailing list**

Plans 2022-2023

- Define the organisational **structure**, roles and procedures
- Realise the **DSI lab** project
  - supported by and oriented towards UPSKILLS
  - collaboration with Future of Work
- Connect with **Gamification Group** (Tampere and Turku)
- Connect with **local partners**
- Look for **new leaders**

Beyond 2023:

- New leaders new directions!

DSI Community Health

Jana Sedlakova

Projects and Activities 2021

Joint project "The Textual Analysis Project"

How can we as researchers enrich study data with unstructured textual health data to achieve better results, create efficiencies, and to gain a deeper understanding in an ethical and responsible way?

Stream 1

Three Workshops on text analytics with R and Python:

Classification, Topic Models, Visualization, Distributional Semantics

Three case studies with the datasets from the DSI community were presented:

(1) The Spanish Flu (1918), reports of patients (2) with MS & (3) with orofacial pain

Stream 2

Literature Review

Survey – 181 answers from UZH researchers across all faculties

Reflection Workshop – November 29, 2021

→ very little generic guidance is available for applied researchers on how to process, analyze, and interpret studies that combine structured and unstructured information

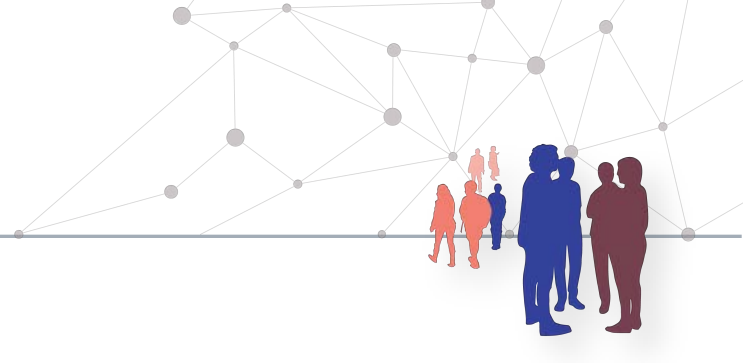
Community Annual Plan 2022

DSI Approach: How to define a Good Research Question for Digital Unstructured Data

→ 3 workshops: goals & added value; assessment of data quality and alignment with scientific principles; ethical issues, open science & public awareness
→ Application writing for Lehrkredit: developing a short online program
→ White paper

Workshop series on the state-of-the-art of medical chatbots

→ converting unstructured data into a structured format
→ building a chatbot knowledgebase to show empathy and gain trust
→ automatic classification of questions and replies
→ retrieval of suitable answers, detection of topics and moods, and methods of text generation.



DSI Community Mobility

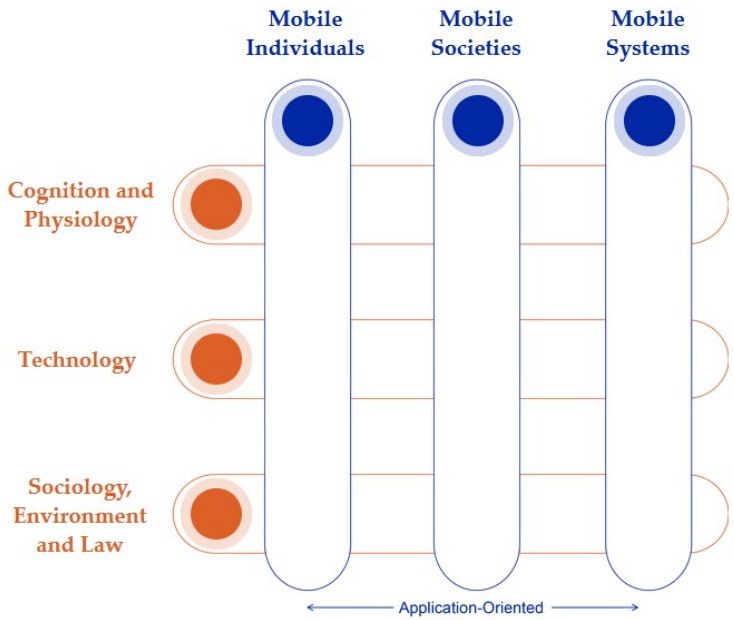
Anja Schulze

Universität Zürich[UZH]

Digital Society Initiative – Community Mobility

Workshops and bi-monthly meetings

- Exchange on current research
- Development of joint research (e.g., Social Acceptance of Urban Drones)



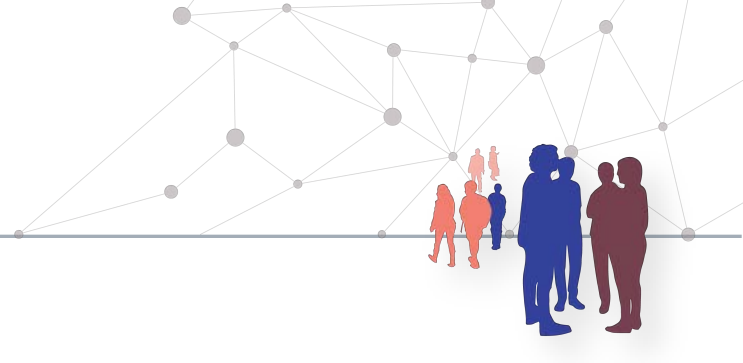
More on **https://dsi.uzh.ch/static/mobility/**

Ringvorlesung

Innovathon

- Course (Offered through School for Transdisciplinary Studies)
- Encouraging innovation
- Outreach to companies

accenture SIEMENS csem mobility car sharing amag SBB CFF FFS



DSI Community Work

Karin Schwiter

Universität Zürich[UZH]

33 members from 5 faculties

DSI Community «Work» in 2021

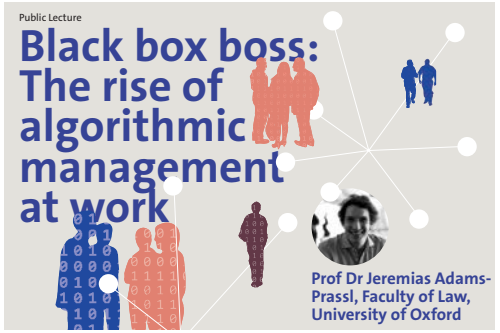
Community Fellow

Dr. Sarah Hartmann:
Building trust in platform mediated care work

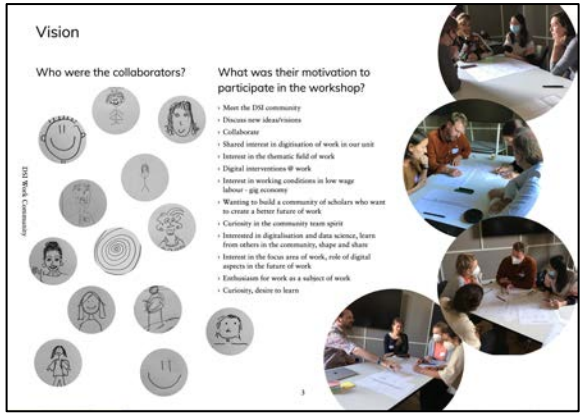
Community Project

Mapping Global Visions of the Future of Work

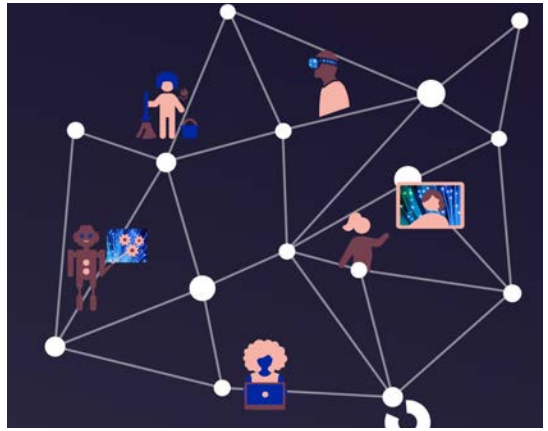
Community Lecture



Community Workshop



Community website



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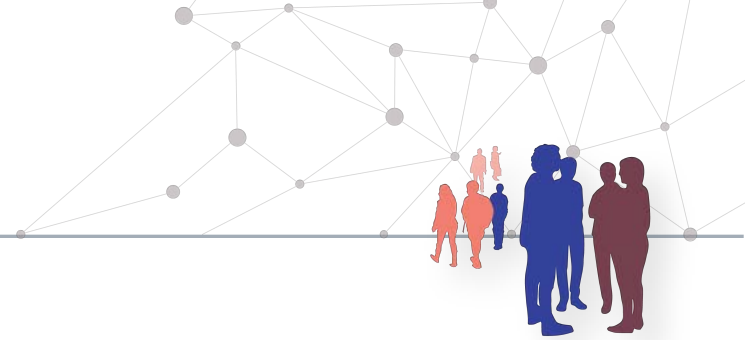
DSI Community «Work» in 2022

Community Lecture Series
The Future of Work

Community Fellow
Dr. Laura M. Giurge

Community Project
Emotional Intelligence

Community Building
with film screenings

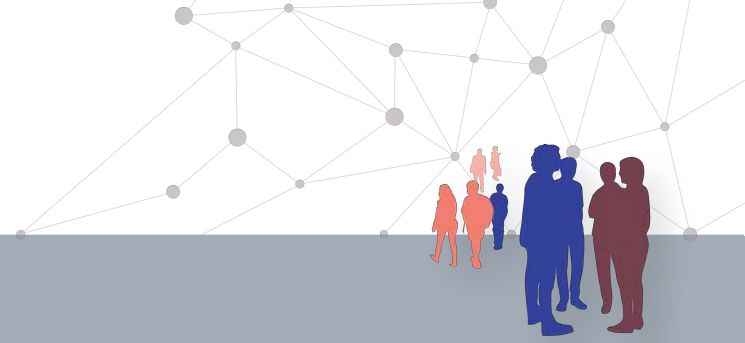


DSI Communities – a preliminary conclusion

Great variety of activities!

Thank you all for your contributions!

New communities are welcome!



Feedback and Questions