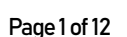




# SHAPE-IT Sciencefest

## Agenda

**Technische Universität München**  
**Boltzmannstr. 15**  
**85748 Garching b. München**





This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement 860410

## List of partners

No.	Participant organization name (acronym)	Country	Type
1	Chalmers Tekniska Högskola AB (Chalmers)	SE	University
2	University of Leeds (UnivLeeds)	UK	University
3	Göteborg University (UGOT)	SE	University
4	University Ulm (UULM)	SE	University
5	Technical University Munich (TUM)	DE	University
6	Technical University Delft (TUDelft)	NL	University

## List of Early Stage Researchers

No.	Name	Host University	Country
1	Ms Nikol Figalova	University of Ulm	DE
2	Ms Naomi Mbelekani	Technical University Munich	DE
3	Ms Chi Zhang	Göteborg University	SE
4	Ms Yue Yang	University of Leeds	UK
5	Ms Chen Peng	University of Leeds	UK
6	Mr Mohamed Nasser	University Ulm	DE
7	Mr Liu Yuan-Cheng	Technical University Munich	DE
8	Ms Amna Pir Muhammed	Göteborg University	SE
9	Mr Wilbert Tabone	Technical University Delft	NL
10	Ms Siri Hegna Berge	Technical University Delft	NL
11	Mr Sarang Jokhio	University Ulm	DE
12	Mr Xiaolin He	Technical University Delft	NL
13	Mr Amir Hossein Kalantari	University of Leeds	UK
14	Mr Ali Mohammadi	Chalmers University of Technology	SE
15	Ms Xiaomi Yang	Chalmers University of Technology	SE

## List of Supervisors and Management

CHALMERS	Jonas Bärgrman (PMT), Jacqueline Plette (PMT), András Balint, Marco Dozza
UNIVLEEDS	Natasha Merat, Gustav Markkula, Yee Mun Lee
UGOT	Christian Berger, Eric Knauss
UULM	Martin Baumann, Olga Pollatos
TUD	Marjan Hagenzieker, Riender Happee, Joost de Winter, Meng Wang
TUM	Klaus Bengler

## List of invited Associated Partners from industry

Bosch	Frank Beruscha and Claus Marberger
Bosch	Dietrich Manstetten
LMU	Lewis Chuang
SWOV	Nicole van Nes
Toyota	Maminirina Ranovona and Cinzia De Marco (TME)
Zenseact	Alessia Knauss
Veoneer	Annika Larsson and Ulrich Sander
Volvo Cars	Mikael Ljung Aust (VCC)
VW	Lukas Enke and Julia Drüke
TOI	Trine Dale and Torkel Bjørnskau



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## Logistical information

### Travel by plane

Flights to Munich International Airport (MUC, *Flughafen München Franz Josef Strauss*)

- You may purchase “single ticket” (*Einzelfahrkarte*) from Zone 5 (*Flughafen München*) to 2 (*Garching-Forschungszentrum*) for around 7,00 €. Google map is quite accurate, but there are some route options:
  - **S-Bahn + Bus**: From the airport with **S1**(to *Leuchtenbergring*) → change to **BUS690**(to Garch., Forschungsz.) at *Neufahrn* → leave at *Garch., Forschungsz.* then you shall see the Science Congress Center Munich.
  - **S-Bahn + Bus**: From the airport with **S8**(to *Herrsching*) → change to **BUS230**(to Garch., Forschungsz.) at *Ismaning* → leave at *Garch., Forschungsz.* then you shall see the Science Congress Center Munich.
  - [Map for public transportation in Munich](#)
- If you travel with other participants, you may share an **Uber** or **Taxi**. The driving time is around 20 mins.

### Travel by train

Trains to Munich Central Station (*München Hbf, München Hauptbahnhof*)

- You may purchase “single ticket” (*Einzelfahrkarte*) from Zone M (*Hauptbahnhof*) to 2 (*Garching-Forschungszentrum*) for around 7,00 €. Google map is quite accurate, but there are some route options:
  - **U-Bahn**: From the Hbf with **U4**(to *Arbellapark*) / **U5**(to *Neuperlach Süd*) → change to **U6**(to *Garching-Forschungszentrum*) at *Odeonsplatz* → leave at *Garch., Forschungsz.* then you shall see the Science Congress Center Munich.
- Travel by car from the city center is heavily affected by the traffic situation, it would take around 30-40 mins.

## Covid precautions

Check on pandemic restrictions in Munich, Germany prior to your arrival:  
<https://www.muenchen.de/int/en/events/corona-virus-current-rules-regulations.html>

## Pre-meeting preparation

**ESR poster session:** ESRs should prepare a 7-minutes presentation about their research, with a focus on current and upcoming work, as well as any open issues (e.g., describe and discuss study designs). For the Complementary Skills workshop sessions, there may be additional reading required. Information will be sent out separately.

**Hybrid meeting format possible:** There are technical prerequisites available to stream some of our sessions and invite non-SHAPE-IT students. We will decide at a later stage which sessions will be made available online.





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## Day 0: Sunday 02 October 2022 (Arrival day for ESRs, AP and Supervisors)

*We would like to welcome you to Munich (TUM, LfE), we hope your time here will be an enjoyable one, filled with knowledge, adventure, and a little bit of German beer. This is our very own Oktoberfest, but make it science - Sciencefest. Welcome!*







**Lunch for this day is your own individual responsibility**

**Dinner onsite in Marriott in the Science Congress Center (SCC) at 19:00**





Day 1:	Monday 03 October 2022 (National Holiday in Germany)		Venue
07:30 – 08:00	Mindfulness (A meditational reading 1)		Personal space
08:00 - 09:00			Breakfast at the hotel (the rate for the hotel is incl. breakfast) Marriott
09:00 – 10:15	Welcome by Jonas Bärghman (Chalmers) Skill workshop part I: Naturalistic driving data, including an exercise on SHRP2-data.		SCC Taurus (EG 002/003)
10:15 – 10:30			Coffee break
10:30 – 12:00	Skills workshop part II: A lecture on automotive sensors, and methods for virtual safety assessment.		SCC Taurus (EG 002/003)
12:00 – 13:00			Marriott
13:00 – 14:00	Travel to Munich (English Garden): Meet at the lobby in Marriott		U-Bahn
14:00 – 18:00	Social activity: Team sports activity at the English Garden / along the Isar river		English Garden
19:00 +			L'Osteria

Day 2:	Tuesday 04 October 2022		Venue
07:30 – 08:00	Mindfulness (A meditational reading 2)		Personal space
08:00 – 09:00			Marriott
09:00 – 09:15	Welcome by Jonas Bärghman (Chalmers) and Klaus Bengler (TUM) Visitor registration		SCC Taurus (EG 002/003)

09:15 - 10:25	<p><b>ESR Poster presentations</b></p> <p>Five ESRs in 3 groups. Before each poster session, all ESRs have short presentations (7 minutes each), afterwards, ESRs will stand next to their poster. Each session will last for 70 mins. <i>(Still TBD)</i></p> <p><b>Presentation set 1: AV interface design strategies</b></p> <ul style="list-style-type: none"> <li>❖ ESR5 (Cheng Peng) – Developing more acceptable, pleasant and transparent AV-kinematic cues for drivers (Leeds)</li> <li>❖ ESR8 (Amna Pir Muhammad) – Human Factors in AI-base Automation Design (UGOT)</li> <li>❖ ESR7 (Yuan-Cheng Liu) – Assessing AV Transparency (TUM)</li> <li>❖ ESR9 (Wilbert Tabone) – Assessing Interactions Between AVs/VRUs Using Virtual/Augmented Reality (TU Delft)</li> <li>❖ ESR10 (Siri Hegna Berge) – HMI on bicycles, Promoting Transparent AV Interactions (TU Delft)</li> </ul> <p>Breakout session groupings for ESRs (TBD).</p>	SCC Taurus (EG 002/003)
10:25 – 10:35		Coffee break
10:35 – 11:45	<p><b>Presentation set 2: Understand road-user behaviour in AV interactions</b></p> <ul style="list-style-type: none"> <li>❖ ESR1 (Nikol Figalová) – Understanding AV Predictability Using Neuroergonomics (Ulm)</li> <li>❖ ESR2 (Naomi Y. Mbelekani) – Long Term Effects of Automation on User Behaviour (TUM)</li> <li>❖ ESR3 (Chi Zhang) – Classifying and Predicting Interactions Between AVs and VRUs Using AI (UGOT)</li> <li>❖ ESR4 (Yue Yang) – Long Term Effects of AV Exposure on AV/VRU Interactions (Leeds)</li> </ul> <p>Breakout session groupings for ESRs (TBD).</p>	SCC Taurus (EG 002/003)
12:00 - 13:00		Mensa
13:00 – 14:10	<p><b>Presentation set 3: Assess safety in mixed traffic</b></p> <ul style="list-style-type: none"> <li>❖ ESR11 (Sarang Jokhio) – Cooperative Interaction Strategies Between AVs and Mixed Motorised Traffic (Ulm)</li> <li>❖ ESR12 (Xiaolin He) – AV Occupants Perception of Safety in relation to AV behaviour (TU Delft)</li> <li>❖ ESR13 (Amir Hossein Kalantari) – Computational AV/Pedestrian Interaction Models (Leeds)</li> <li>❖ ESR14 (Ali Mohammadi) – Computational AV/Cyclist Interaction Models (Chalmers)</li> <li>❖ ESR15 (Xiaomi Yang) – Safety Evaluation of Automation Using Counterfactual Simulations (Chalmers)</li> </ul> <p>Breakout session groupings for ESRs (TBD).</p>	SCC Taurus (EG 002/003)
14:10 – 14:20		Coffee break
14:20 – 15:30	<p><b>Stakeholder discussion</b></p> <p>Stakeholders (industry, academia, institutes, and governments) exchange concerning SHAPE-IT project research focus</p>	SCC Taurus (EG 002/003)
15:30 - 16:30	<p><b>SB and Industrial Partner Meeting</b></p> <p>Combined SB-Industry partners meeting</p>	SCC Taurus (EG 002/003)


19:00 +		Garchiner Augustinger
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Day 3:	Wednesday 05 October 2022	Venue
07:30 – 08:00	Mindfulness (A meditational reading 4)	Personal space
08:00 - 09:00		Marriott
09:00 – 09:15	<b>Welcome, Jonas Bärghman (Chalmers) and Klaus Bengler (TUM)</b> <b>Complementary Skills Workshop 3: How to prepare for a career in industry and academia</b> (i) Tooling up for a scientific career in industry, (ii) When to move to academia (iii) Intellectual property and entrepreneurship (iv) Being enterprising and innovative in academia (v) Writing your first research grant proposal (vi) Team-building and innovation management in industry	SCC Taurus (EG 002/003)
09:15 – 10:45	<b>Complementary Skills Workshop 3: How to prepare for a career in industry</b> <b>Main Session 1: Industry panel discussion</b> <b>Different industry panellist:</b> (Automotive, Aviation, and Smart Farming, etc.) <ul style="list-style-type: none"> <li>❖ Dr. Andreas Haslbeck (Automotive and Aviation)</li> <li>❖ Dr. Christoph Vernaleken and Dr. Peter Sandl (Airbus)</li> <li>❖ Dr. Alexander Barzen (Smart Farming, AGCO GmbH/Fendt)</li> <li>❖ Dr. Dietrich Manstetten (through hybrid option, TBD) (Automotive, Bosch)</li> <li>❖ Dr. Audrey Beruneau (Automotive, Toyota)</li> </ul> <b>Moderator:</b> Klaus Bengler (TUM) <ol style="list-style-type: none"> <li>1. Tooling up for a scientific career in industry and When to move to industry</li> <li>2. Being enterprising and innovative in industry and Team building and innovation management in industry</li> <li>3. Intellectual property and entrepreneurship</li> </ol> Time allocation include Q&A	SCC Taurus (EG 002/003)
10:45 – 11:00		Coffee break



11:00 – 12:00	<p><b>Sub-session 1a: Product Innovation competition</b> (Open innovation)</p> <p>This aims to enhance their ingenuity, creativity and think outside of the box skills.</p> <p><b>Moderator:</b> <i>Klaus Bengler (TUM)</i></p> <p><b>The idea is to design a system (for drivers/passengers or VRUs/other road users) that may be helpful for safe driving and smart traffic.</b></p> <p><i>ESRs will be organised into groups of five (3 groups, the teams will be interdisciplinary) and will be asked to design an automated system (for either drivers/passengers or VRUs/other road users). Then, afterwards, they will present their ideas to the audience (including industry and SB).</i></p> <p><i>Different industry experts (e.g. Klaus Bengler, TUM, etc.) will be assigned as mock jury and academic experts (e.g. Jonas Bärghman, Martin Baumann, Natasha Merat) as group advisors.</i></p> <ul style="list-style-type: none"> <li>❖ Group 1: <i>Jonas Bärghman</i></li> <li>❖ Group 2: <i>Natasha Merat</i></li> <li>❖ Group 3: <i>Martin Baumann/Olga Pollatos (ULM)</i></li> </ul>	SCC Taurus (EG 002/003)
12:00 – 13:00	<p style="text-align: center;"><b>Time for lunch</b></p> 	Mensa (Onsite)
13:00 – 13:30	<p><b>Presentation from each group</b></p> <p>Each-group will have 15 mins to present their design concept and 10 mins for discussion with industrial partners.</p>	SCC Taurus (EG 002/003)
13:30 – 14:30	<p><b>Main Session 2: Finding Career Alternatives outside of Academia – Challenges and Best Practices</b></p> <p><b>Speaker:</b> Dr Vera Kaulbarsch (TUM-GS: Project Manager Attract2HM   Career Track for Doctoral Candidates – Focus on Universities for Applied Sciences)</p>	SCC Taurus (EG 002/003)
14:30 – 14:40		Coffee break
14:40 - 16:00	<p><b>Complementary Skills Workshop 3: How to prepare for a career in academia</b></p> <p><b>Main Session 3: Academia panel discussion (Germany TUM/ULM, Sweden UGOT, the Netherlands DELFT, England LEEDS)</b></p> <p><b>Academia Panel Moderator:</b> <i>Martin Baumann (ULM)</i></p> <p>Tooling up for a scientific career in academia and Writing your first research grant proposal.</p> <ul style="list-style-type: none"> <li>❖ <b>Germany and The Netherlands:</b> <i>Klaus Bengler (TUM), Olga Pollatos (ULM), Riender Happee/Joost de Winter (TUD)</i></li> <li>❖ <b>Scandinavian perspectives:</b> <i>Jonas Bärghman/Marco Dozza (CHALMERS), Christian Berger/Eric Knaus (UGOT)</i></li> <li>❖ <b>United Kingdom perspectives:</b> <i>Natasha Merat/Gustav Markkula (UNIVLEEDS)</i></li> </ul>	SCC Taurus (EG 002/003)
16:00 - 16:30	<p><b>Research at the Chair of Ergonomics (LfE)</b></p> <p><b>Speaker:</b> <i>Klaus Bengler (TUM department head)</i></p> <p><b>Types of LfE research groups:</b></p> <ul style="list-style-type: none"> <li>❖ Group 1: Automated driving</li> <li>❖ Group 2: New mobility</li> <li>❖ Group 3: Energy efficiency and climate comfort</li> <li>❖ Group 4: Future work</li> <li>❖ Group 5: Robotics for life and healthcare</li> </ul> <p><b>The time allocation include walking to LfE</b></p>	SCC Taurus (EG 002/003)




16:30 – 17:00	<p><b>LfE facilities and lab tour – ALL (ESR/SB/AP)</b></p> <p>Simulator (Sitzkiste and Fahrsimulator) (Alex/Tobi), Exoskeleton (Christina), Weather chamber (Manuel), Motion lab/VR setup (Martin), Audi and BMW (Lorenz)</p> 	Chair of Ergonomics (LfE)
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17:30 - 19:00		Personal break and preparation for fancy dinner
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19:00 –	Fancy dinner onsite	Marriott
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Day 4:	Thursday 06 October 2022	Venue
07:00 – 08:30	Mindfulness (A meditational reading for day 3)	Personal space
08:30 – 09:00		Marriott
09:00 – 09:05	<p><b>Welcome, Jonas Bärgrman (Chalmers) and Klaus Bengler (TUM)</b></p> <p><b>Public engagement and outreach and Media engagement and outreach</b> (Media engagement, media training, complementary skills). E.g. Video (TV), audio (radio), and text briefing (journalistic blogs) training. For example, how to present yourself, how to sell your story, and your post-publication and withdrawal rights, etc.</p>	SCC Taurus (EG 002/003)
09:05 – 10:35	<p><b>Complementary Skills Workshop 3 - Research and Society impact</b></p> <p><b>Main Session 1: Presentation title:</b> Lecture, interview and conference: Requirements for people and technology (<b>Part 1</b>)</p> <p><b>Speakers:</b> <i>Mrs Melanie Rainer and Tobias Ostermeier (School of media and drama)</i></p> <p>Description: Is persuasive content persuasive on its own? Or is the "how" just as important? Scientists are always faced with the challenge of having to successfully "sell" their complex work. On the one hand, it is essential to be able to competently handle event and conference technology, e.g. to be able to assess and use different microphones, stage lighting, lecterns, meeting tools, etc. On the other hand, with voice, body and inner attitude, we have the most powerful tools as human beings under our own control.</p> <p>The actress Melanie Rainer and the social scientist and cabaret artist Tobias Ostermeier work as a trainer team on communication psychology topics and combine their expertise from their trainer experience with methods from acting.</p> <p>They give the participants a wide range of practical tips and practice in divided groups in realistic situations.</p>	SCC Taurus (EG 002/003)
10:35 – 11:00		Coffee break


11:00 – 12:00	<b>Part 2:</b> Lecture, interview and conference: Requirements for people and technology: <b>Speakers:</b> <i>Mrs Melanie Rainer and Tobias Ostermeier (School of media and drama)</i>	<b>SCC Taurus (EG 002/003)</b>
12:00 – 13:00	<b>Time for lunch</b> 	<b>Mensa</b>
13:00 – 14:00	Lecture, interview and conference: Requirements for people and technology: ( <b>Breakout sessions</b> )	
14:00 – 15:00	<b>Main Session 2: Complementary Skills Workshop: How do critically defend your research</b> <b>Description:</b> Prof Bengler and associates will give a short panel discussion on how the defence scenarios differ and describe the differences and similarities to the ESRs (with the basic message being – each defence scenario includes a focused scientific presentation and Q/A session with a committee), which we assume may last 30 minutes ❖ This is followed by the breakout session " <i>Mock research defence</i> ".	<b>SCC Taurus (EG 002/003)</b>

15:00 - 15:15



**Let's take a short break**

15:15 – 16:00	<b>Sub-session "Mock research defence".</b> Now setting the role-playing scenario (Grant application and review by funding agency): the idea for the mock defence candidate Chen is "Defend Your Research", and for the mock jury (mix of ESR and SB) is to judge whether Chen gets a competitive research grant or not, and what she can improve on.	
16:00 - 17:00	<b>Sub-session "Mock research defence" Jury deliberations and feedback</b>	<b>SCC Taurus (EG 002/003)</b>
17:00 - 18:00	<b>Preparation to go to the restaurant in Garching</b>	<b>Meet at 18:30</b>
19:00 +		<b>Restaurant Poseidon Garching, Munich</b>

<b>Day 5:</b>	<b>Friday 07 October 2022</b>	<b>Venue</b>
07:30 – 08:00	<b>Mindfulness (A meditational reading 5)</b>	<b>Personal space</b>
08:00 - 09:00		<b>Marriott</b>
09:00 - 09:05	<b>Welcome, Jonas Bärgrman (Chalmers) and Klaus Bengler (TUM)</b> <b>Complementary Skills Workshop 3 - Research and policy</b> Understanding the interaction of research and policy, Public engagement and outreach, Media engagement and outreach	

09:05 – 10:30	<b>Complementary Skills Workshop 3 Part 1- Research and policy</b> <b>Speaker:</b> Speaker Elisabeth Shi and André Wiggerich (BASt) <b>Presentation title:</b> “Human factors research in the context of regulation, consumer protection and standardisation”	SCC Taurus (EG 002/003)
10:30 – 10:45		Coffee break
10:45 – 12:15	<b>Complementary Skills Workshop 3 Part 2- Research and policy</b> <b>Speaker:</b> Speaker Elisabeth Shi and André Wiggerich (BASt) <b>Presentation title:</b> “Human factors research in the context of regulation, consumer protection and standardisation”	SCC Taurus (EG 002/003)
12:15 – 13:15		Mensa
13:15 - 14:00	<b>End of the workshop reflections</b> <b>Jonas Bärgrman (Chalmers)</b> <ul style="list-style-type: none"> <li>❖ Concerns, collaboration plans, secondments, and next project meet-up.</li> <li>❖ Latest updates about the SHAPE-IT end date and final event</li> <li>❖ Q&amp;A about SHAPE-IT in general and Wrap up</li> <li>❖ Closing remarks</li> </ul>	SCC Taurus (EG 002/003)
14:00 – 14:30	Travel to Munich city centre	Meet at the lobby
14:30 – 18:30	<b>Social activity: Marienplatz-Frauenkirche-Deutsches Museum (by foot 1.7 km / 21 mins)</b>   <b>Group Visit:</b> max. 10 people due to the current situation (25.01.2022), but should be open to 20 by then. <b>Duration:</b> 2 hours for the guided tour, maybe 1 hour to visit on one's own	Meet outside the SCC <u>OR</u> ESO Supernova Planetarium & Besucherzentrum. European Southern Observatory.
19:00 +	  	Sushi+Soul



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## Day 6: Saturday 08 October 2022 (Departure day)

*It was a pleasure having you in Munich (TUM, LfE), we wish you all a safe journey back home or to your next destination. We hope to see you again next year, at our next SHAPE-IT event.*

