



Matchmaking event of PhD program

Aktanten in Aktau Project

It is our great pleasure to have
you on board! A hearty

Welcome
To You!



Introduction and greetings

- Greetings and very warm welcome

Planning of the Match-making event

1. Welcome & Introduction

Greetings and introduction of Aktanten Project

2. Overview of PhD program in TU Berlin

TU Berlin and PhD program

Introduction of supervisors in TU Berlin

Structure of the PhD program / cooperation possibilities

Founding and scholarship possibilities

Presentation of Mr Altynbek Akylbekov

3. Overview of PhD program in HAW

HAW Hamburg and PhD programs

CC4E research activities

Research scope and areas of supervisors

4. Pitch Session: PhD Candidates and other participants

Each person introduce him/herself for **2–3 minutes** to present their research focus, open topics, or collaboration needs.

5. Wrap-Up & Next Steps

Who we are?

AKTANTEN IN AKTAU project is a multidisciplinary association and the academic framework for research and capacity building.

- This initiative, supported by DAAD, brings together German and Kazakh universities to jointly develop innovative study programs and research and networking with industry in the field of energy transition, green hydrogen, transport, and sustainable mobility.



What do we do?

We are building and supporting :

- **Two Master's programs and Research program and short educational programs including online workshops and summer school** in the fields of:
 - Renewable Energy and Hydrogen production Technologies
 - Logistic and sustainable transport management
- The project not only creates academic bridges but also strengthens **cooperation between research and industry** across borders, like **Hyrasia** project.

Who is involved?

Our consortium brings together strong academic partners from Germany and Kazakhstan:



Germany:

- TU Berlin (*Project Lead*)
- TU Darmstadt
- HAW Hamburg

K Z Kazakhstan:

- KINI institute
- Yessenov University (Aktau)
- DKU – Deutsch-Kasachische Universität (Almaty)





Research Cooperation and PhD program of Aktanten Project

- This PhD program of Aktanten Project is based at TU Berlin and will cover **joint research projects, supervision, and publications** between German and Kazakh partners.

Research areas and some key questions

- **Logistics and the Caspian Corridor:**
 - Infrastructure, transportation, and supply chain dynamics of green hydrogen in the Caspian region.
- **Green Hydrogen Technologies:**
 - Innovations in production, storage, and utilization of hydrogen in various sectors.

Research areas and some key questions

- **Business Partnerships:**

- Collaboration between industry players, investors, and policymakers to drive green hydrogen initiatives.

- **Socio-Economic and Governance Perspectives:**

- Policy frameworks and regulatory strategies for enabling large-scale energy transition, social acceptance and behavioural studies related to hydrogen and renewables.

Overview of PhD program in TU Berlin

- **Introduction of TU Berlin**
- Introduction of the supervisors at TU Berlin
- Structure of the PhD program / cooperation possibilities
- Founding and scholarship possibilities

Introduction of TU Berlin

- Founded in **1879**, TU Berlin is one of Germany's leading technical universities, an internationally renowned institution.
- Renowned for its excellence in research, innovation, and international collaboration.
- TU Berlin is the home to **over 35,000 students** and a vibrant ***international community***, with numerous partnerships worldwide.



Introduction of TU Berlin

- The university offers a wide range of programs in **engineering, natural sciences, economics, and humanities**, fostering an interdisciplinary approach to education and research.
- The university is particularly strong in areas such as **renewable energy, mobility, information technology, and sustainable urban development**.

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Professor.Dr. Hans-Liudger Dienel

- He is the **Head of the Department for Work Studies, Technology, and Participation** at TU Berlin.
- The research and teaching activities in this department includes key domains of: **Energy** and **transportation transition**
- His expertise covers
 - Smart city technologies,
 - Transportation and mobility attitudes,
 - Renewable energy innovations,
 - socio-technical management of energy and transportation transition.



Selected important projects and Academic affairs

- He has led several important projects, such as:
 - Head of the consortium of Aktanten in Aktau project
 - Connecting the energy and transport. “Mobility to Grid”
 - The Academy for Participatory Processes,
 - Fluid mobilities for cities in transformation
 - Academy for Participatory Methods
 - Citizen Participation for Energy-Efficient New Towns in Iran
 -

Selected important projects and Academic affairs

- He is **Editor-in-Chief** of the journal “**Innovation: European Journal of Social Science Research**”,
- and he is also the **scientific director** of the **MBA program in Mobility and Transportation Management**.
- Professor Dienel is very active in mentoring **PhD students and visiting researchers**, and his chair organizes **annual Phd workshops** where all his researchers, external and internal researchers present their work and share their progress.

Prof.Dr Naimeh Mohammadi

- Her academic background is rooted in **Electrical Engineering**, followed by studies in **Business management and policy of energy transition** and received PhD in
- **“Policy Design of Sustainable Socio-Technical Energy Transition”** from TU Berlin.
- She is teaching in the field of **Advanced Renewable Energy Technologies, strategic management of energy transition** combining both perspectives of **engineering and policy making**.



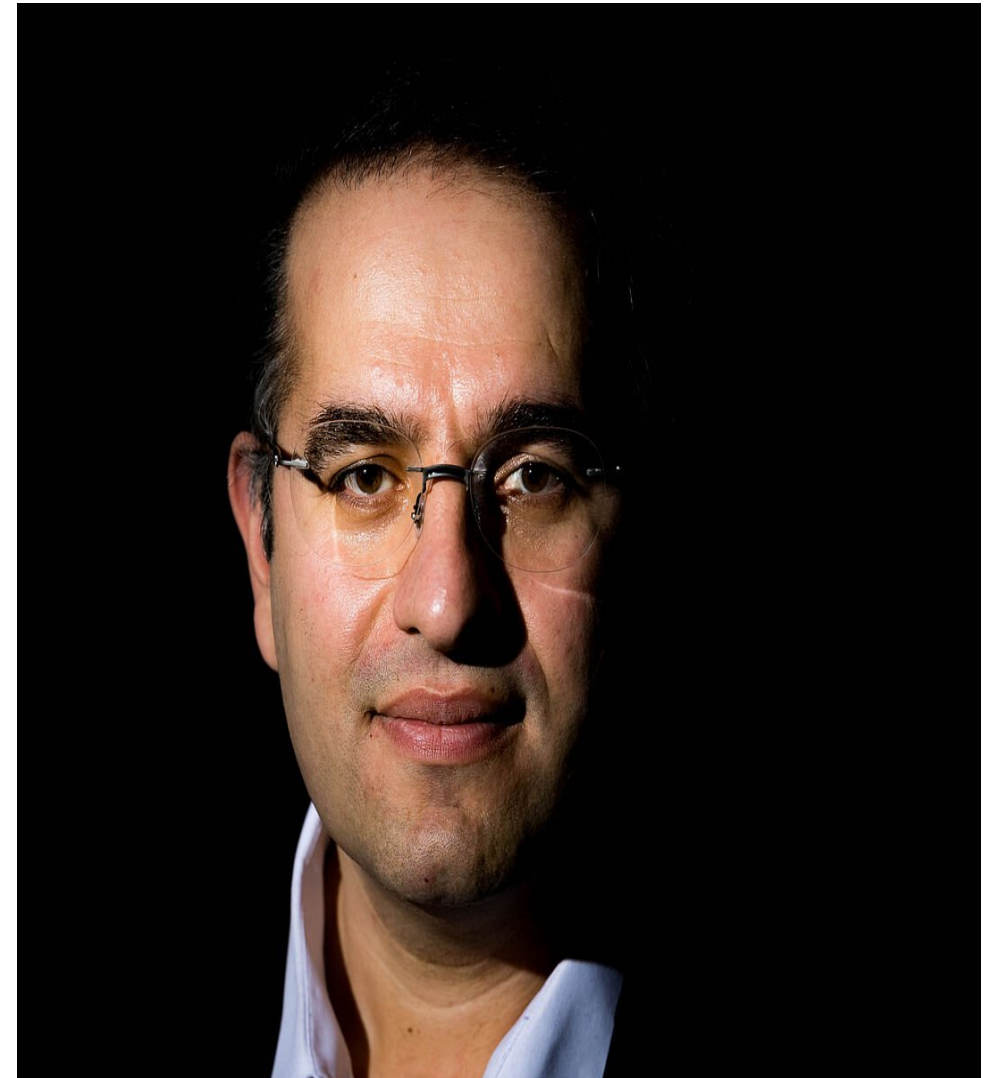
- Her expertise covers:
- **participatory governance**, and **collaborative policymaking**.
- **policy mixed instruments**, and their role in **diffusion of new technologies**, and advancing energy transition.
- **Comparative Studies of Energy Transition Pathways**

Interested research areas for collaboration

- **Energy Economics, Market Design & Hydrogen Integration**
 - Strategies and business models for **integrating supply chain of hydrogen production, storage, and grid-integrated solutions distribution.**
- **Comparative Studies of Energy Transition Pathways**
 - Studying **barriers and opportunities** and country comparisons of **policies, governance, and business models** for energy transition
- **Governance and Policy Innovation for the Energy Transition**
 - Exploring **collaborative governance models** and **policy instruments** for renewable energy projects in Germany and Kazakhstan.

Prof. Dr Hamid Mostofi

- His background is in industrial engineering and received PhD from TU Berlin with the thesis title: “**The Role of Smart City Technologies in Urban Automobile Dependence and Changing Mobility Behaviours**”
- His research interest lies in :
 - application of data science techniques and artificial intelligence to sustainability concepts, taking into account social acceptance, perception, and attitude, as well as socio-economic factors.
- He is professor of Data science and Artificial intelligence and his research expertise are in quantitative methods and machine learning.



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1. PhD enrolment at TU Berlin

- Direct enrolment as a student at TU Berlin and admission to the group.
- Your second supervisor could come from Kazakhstan, from one of the local universities, or from other universities of Germany.
- The process for accepting PhD students at TU Berlin involves submitting an application to the Dean.
- The application should include a 5- to 10-page proposal and a résumé.
- A committee will then vote on the acceptance of the researcher.

2. Joint / Double PhD degree (Cotutelle de thèse)

- You will be researcher of two different universities and,
- You will have **two supervisors** (one from each university).
- After successful defense, you either receive:
 - **One joint degree** issued together, or
 - **Two separate PhD diplomas** that mention the collaboration.

3. Visiting researcher

- You will visit TU Berlin for a limited period of time as your research opportunity to carry out research, collaborate with TU Berlin academics, or participate in Aktanten project.
- This status is typically open to **doctoral or postdoctoral researchers, professors, and experienced academics** from universities, research institutes, or companies.

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Founding and scholarship possibilities

- TNB scholarship of DAAD in Germany

It is a scholarship for foreign students who enroll in transnational study program, like Aktantne in Aktau project. The goal is to establish or support study programs abroad associated with a German university.



Deutscher Akademischer Austauschdienst
German Academic Exchange Service

- Bolashak scholarship: A **government-funded scholarship program** from Kazakhstan.



Overview of PhD program in HAW

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Pitch Session: PhD Candidates and other participants

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Thank you for your attention – We warmly invite you to join this project educational and research.

Q&A / Let's Connect!