

Concluding Workshop

2020-03-04, Oldenburg

- Impressions of the conferences
 - in Mongolia
 - in Uzbekistan
- Dissemination
- Lessons Learned and Results
- Follow-up activities
 - current
 - planned
 - future
- Final report
- Closing



SuMoCoS Mongolia









СӨҮЛИЙН ГУДАМЖ

서울의 거리















Coin the topic

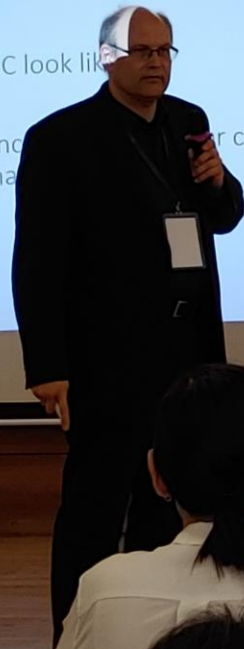
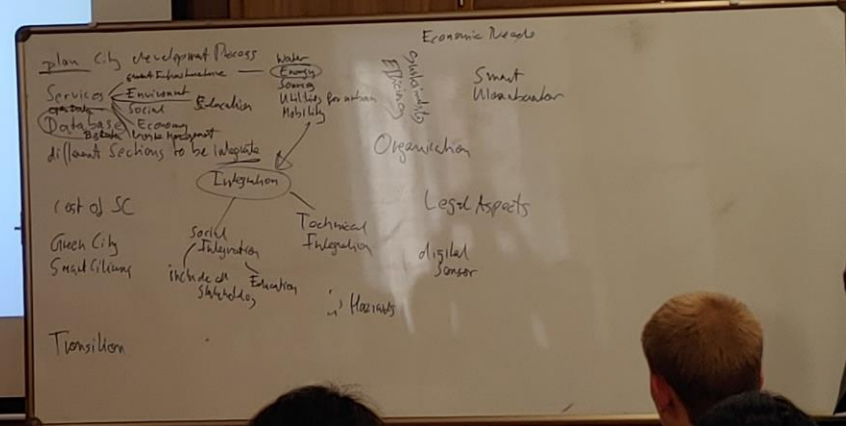


Suppose

- the SuMoCoS-Participants are asked to create the New Ulaanbaatar Smart City (UBSC)?

How should UBSC look like?

Which competences are needed for creating, operating and maintaining it?









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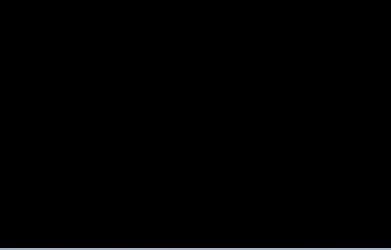
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DAEWOO

ТАНЫ АНГААРАЛД !!!
ЗӨВХӨН КАРТААР
ҮЙЛЧИЛНЭ











이 구조물은 전통적인 한국 요리법에 사용되며, 특히 김치와 떡을 굽는 데 사용됩니다. 이 구조물은 전통적인 한국 요리법에 사용되며, 특히 김치와 떡을 굽는 데 사용됩니다.





POLICE







SuMoCoS Uzbekistan



HOTEL UZBEKISTAN

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QUR'AN VA HUKM-AL-HUKUM
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HOTEL UZBEKISTAN



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Maintenance & Evolution

- scale for size → minimize number of sensors
 - replace existing sensors with visual sensors
 - use common/shared sensors
- redundancy vs. data quality vs. cost
- local control vs. remote control
- simulate greenhouse (digital twin)



TP-LINK_7BFE wifi antenna

1234567890

Maintenance and Evolution

existing

clouds

change

Greenhouse

use

water

health quality

Sensors

Realization

Wind

Fine-dust

Realization

control logic

Data

Actuator

Efficiency

Hardware

Software

Shields

Light

Light

Light

Sensors

Scenarios

Soil

fertilization plan

Control

Logic

Data

Actuator

Hardware

Software

Shields

Light

Light

Light







IT PARK

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СЛОБОДА

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© XALQ BANKI
FUNGUSOBD FILIALI

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286

287

285





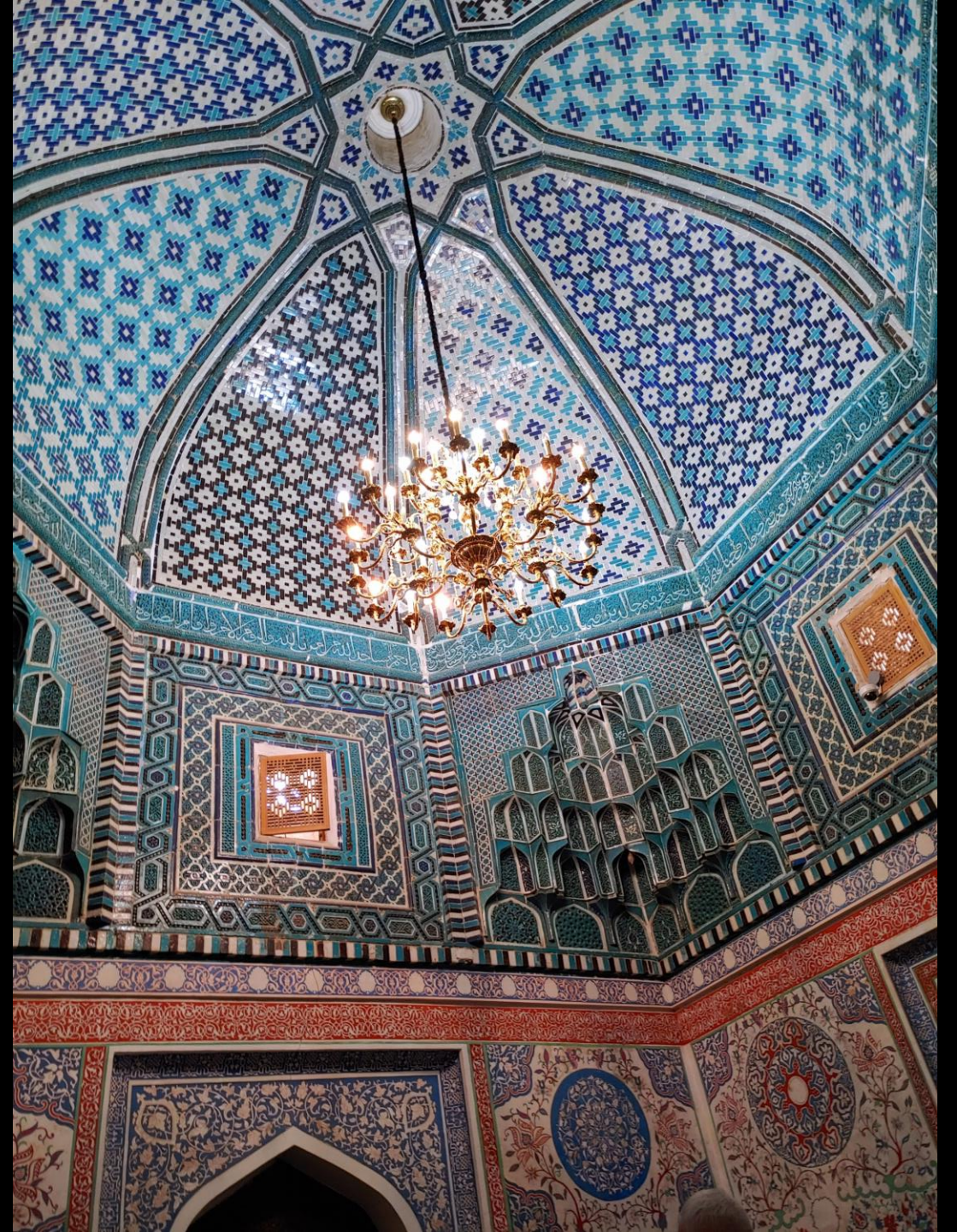






MIRZO ULUGBEK

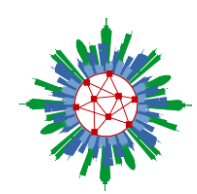
1394 1449







Results



- Websites of UOL, TUIT
- Newssites
- Social media
- Publications
 - Artikov, Muzaffar; Meier, Johannes; Winter, Andreas: *Towards Integrated IoT Languages*, In: International Conference on Information Science and Communications Technologies (ICISCT) 2019, pp. 1-5, Tashkent, Uzbekistan, IEEE, 2020.
 - Winter, Andreas; Schönberg, Christian; Rahmig, Christian; Tsednee, Munkhtsetseg: In: Winter, Andreas; Schönberg, Christian; Rahmig, Christian; Ganbaatar, Chunsriimyatav; Duger, Regdel; Budeebazar, Avid; Sainbileg, Bayannasan; Tsednee, Munkhtsetseg (eds): *Book of Abstracts: International Conference on Sustainability and Mobility in the Context of Smart Cities*, Ulaanbaatar, Mongolian Academy of Sciences, 2019.
 - Kuryazov, Dilshodbek; Winter, Andreas; Schönberg, Christian: *Towards Collaborative Smart City Modeling*, In: , vol. 5, no. 5, Tashkent, International Scientific-Practical and Spiritual-educational Conference to explore the importance of information and communication technologies in the innovative development of real sectors of the economy, TUIT, April 2018.

Archive

Contact

 Prof. Dr. Andreas Winter

News

Spektrum der Wissenschaft refers to our research on the energy demand of the internet

SuMoCoS



Begin: 29.01.2019

This project is supported by BMBF (German Federal Ministry of Education and Research) under grant number 01DK18017 (Travelling Conferences).

SPONSORED BY THE

Federal Ministry
of Education
and Research

Participants

Prof. Dr. Andreas Winter
Dr. Christian Schönberg
Dr.-Ing. Dilshodbek Kuryazov
Christian Rahmig
Dr. Chunsriimyatav Ganbaatar



Overview

The SuMoCoS project (Sustainability and Mobility in the Context of Smart cities) is a travelling conference with project partners in Germany, Uzbekistan and Mongolia. It is funded by the Federal Ministry for Education and Research (BMBF) under the Travelling Conferences grant.

The aim of the project is to strengthen the cooperation between all project partners and to further deepen the understanding of the theoretical and practical challenges of Smart City projects in Central Asia. In addition, there will be an exchange of knowledge between the participants with the aim of deepening and promoting cooperation in research and economic projects.

Conference Information

Conference in Ulaanbaatar (Mongolia)

The SuMoCoS 2019 conference in Ulaanbaatar was held on September 23-27.

Participation by local interested parties (researchers, industry, government, NGOs, ...) is very welcome.

- [Conference program](#)
- [List of talks](#)
- [Book of Abstracts](#)
- [Contact the organizing committee](#)

Conference in Tashkent (Uzbekistan)

The SuMoCoS 2019 conference in Tashkent was held on October 7-12.

Participation by local interested parties (researchers, industry, government, NGOs, ...) is very welcome.

If you have questions or suggestions, you can contact the organizing committee via email at contact.sumococ-tashkent@ca.upl.de

Sustainability and mobility of smart cities being discussed in Ulaanbaatar

SOCIETY

Baljmaa.T

baljmaa@montsame.gov.mn

2019-09-25 12:23:07

Like 54 Share Tweet



Ulaanbaatar /MONTSAME/. An international conference 'Sustainability and Mobility in the Context of Smart cities' kicked off in Ulaanbaatar on September 23. The event is being organized by the Mongolian Academy of Sciences, Ministry of Road and Transport Development and Ulaanbaatar City Governor's Office and organizations from the Germany and funded by the German Federal Ministry for Education and Research (BMBF) under the Travelling Conferences grant.

The SuMoCoS conference in Ulaanbaatar is bringing together scientists, researchers, entrepreneurs and representatives from government and private organizations, research institutes and universities from Germany and Mongolia to share and exchange the knowledge and experience on the sustainability and mobility in the context of the Smart City. The conference is also providing an excellent opportunity to initiate collaborations with the partners from Germany

The Sustainability and Mobility in the Context of Smart cities' project (SuMoCoS) is a travelling conference with project partners in Germany, Uzbekistan and Mongolia. It is funded by the German Federal Ministry for Education and Research (BMBF) under the Travelling Conferences grant. The SuMoCoS project aims to strengthen the cooperation between all project partners and to further deepen the understanding of the theoretical and practical challenges of Smart City projects in Central Asia.

With topics of air pollution and renewable energies, water, soil and waste management, smart government, public and private transport, sustainable and green city development and internet of things as its main interests of the project as creating and applying a smart city to reduce environmental pollution and improve mobility, the SuMoCoS conference is focusing on the topics of improved traffic control and environmental pollution.

Latest news Trend news

ЭРҮҮЛ МЭНД
 461 people under medical supervision
 2 hours

WORLD BANK
 World Bank Group announces up to USD12 billion support for COVID-19 country response
 2 hours

State Bank signs MoU to cooperate with Development Solutions NGO
 3 hours

'Vision-2050' policy document presented to central bank
 3 hours

The Mongol Messenger

- 11 days A Day in the Life of a Camel Herder in the Snowstorm
- 19 days Minister D.Tsogtbaatar: Introduction of new political culture required for establishment of wealth fund
- 19 days Z.Batjargal: Climate change is causing traditional agriculture to deteriorate
- 22 days The time is nearing to domestically process black gold and become self-sufficient
- 26 days The mild melody of B.Munkhbold or fervent

- News
- News
- Events
- Our achievements
- Tenders
- Mass Media about us
- Photogallery
- Videogallery
- Contests

- Quick links
- 🎓 Faculties
- 🏢 Departments
- 👤 Centres and Departments
- 🔍 For the applicant
- 👤 For the students
- 🏆 Competitions
- 📄 Normative Documentation
- 👤 Researcher

INTERNATIONAL CONFERENCE “SMART CITY” IS BEING HELD IN TUIT

[Home](#) → [News](#) → [News](#) → International conference “SMART CITY” is being held in TUIT

🖨 Print



According to scientific research plan “Uzbekistan –Germany”, Uzbek-German international conference “Smart City” is being held from October 7 to 11 in TUIT.



Asosiy / [Axborot xizmati](#) / TATUda "SMART CITY" xalqaro konferensiya...

TATUda "SMART CITY" xalqaro konferensiyasi bo'lib o'tmoqda



08.10.2019



"O'zbekiston-Germaniya 2019" ilmiy-tadqiqot dasturining rejasiga binoan 2019 yil 7-11 oktyabr kunlari Germaniyaning Oldenburg universiteti, TATU, TATU Samarqand, Nukus va Urganch filiallari hamkorligida TATUda "SMART CITY" mavzusida O'zbekiston-Germaniya xalqaro konferensiyasi bo'lib o'tmoqda.

O'quv-trening kursi tashkilotchilari: Germaniyaning Oldenburg universiteti, TATU "Yosh olimlar kengashi", TATU Samarqand, Nukus va Urganch filiallari.

O'quv-trening kursi maqsadi:- universitet professor-o'qituvchilari va O'zbekiston Respublikasi Axborot texnologiyalari va kommunikatsiyalarini rivojlantirish Vazirligi qoshidagi soha korxonalarini xodimlari uchun "SMART CITY" dasturi bo'yicha xalqaro tajriba almashish va hamkorlikni yanada mustahkamlashdan iborat.

Konferensiya Germaniya va O'zbekiston olimlari, ilmiy tadqiqotchilar, ishbiarmonlari va jamoat tashkilotlarini, ilmiy-tadqiqot institutlari va universitetlari vakillarini "SMART CITY" kontekstida bilim va tajriba almashish uchun birlashtiradi. Shuningdek, ushbu konferensiya Germaniya universitetlari va ilmiy-tadqiqot institutlari hamda jamoat tashkilotlari bilan halqaro hamkorlik o'rnatish uchun katta imkoniyat hisoblanadi.

Manba: Axborot xizmati



Vazirlik yangiliklari

OAV AKT haqida

Anons

E'lonlar

Rahbariyatning chiqish va bayonotlari

Soha nashrlari

Nashrlar

Videolavhalar

Ochiq ma'lumotlar

Media-reja

OAV vakillarini akkreditatsiyadan o'tkazish

Axborot xizmati bilan bog'lanish



Вазирликка юборилган хатлар ҳолатини кўриш





CTO Dr. Yvette Teiken ist unterwegs um neue Welten zu entdecken: Mit Experten von @DLR_Verkehr, @UniOldenburg und der Tashkent University of InformationTechnologies hat sie den deutschen Botschafter Günter Overfeld getroffen um über den digitalen Wandel in Usbekistan zu sprechen.



Yvette Teiken

3:53 nachm. · 11. Okt. 2019 · Twitter Web App

3 Retweets 7 „Gefällt mir“-Angaben



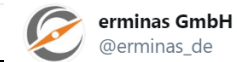
Nach drei spannenden Tagen in Ulaanbaatar ist die International Conference Sustainability and Mobility in the Context of SmartCities zuende gegangen. Unser CEO @hbunjes war dabei und wir werden bald davon erzählen. #SuMoCoS #SmartCities #Ulaanbaatar #Mongolei



Hilmar Bunjes

12:54 nachm. · 26. Sep. 2019 · Twitter Web App

2 Retweets 6 „Gefällt mir“-Angaben



Unser CEO Hilmar Bunjes ist als Tech Enabler in der Mongolei, die sich im digitalen Umbruch befindet. #SuMoCoS

Hilmar Bunjes @hbunjes · 25. Sep. 2019

Today, I'm proud to hold my speech about "Industrial IoT in the context of SmartCities" at SuMoCoS conference in Ulaanbaatar. #sumocos

8:41 vorm. · 25. Sep. 2019 aus Deutschland · Twitter for iPhone

1 Retweeten 2 „Gefällt mir“-Angaben

OECON Products & Services GmbH
19. September 2019 · 0 · 0

SuMoCoS Projektaufakt!
"Sustainability and Mobility in the Context of Smart cities"
Nächste Woche ist es schon soweit. Der erste Stop des #SuMoCoS Projekt in Ulaanbaatar (#Mongolei) findet statt. Wir unterstützen die Veranstaltungen durch Zuarbeiten der Präsentation. Unser Fatih durfte leider aufgrund "höherer Mächte" nicht anreisen.
<https://montsame.mn/en/read/201598>



MONTSAMEimages

MONTSAME.MN
Sustainability and mobility of smart cities being discussed in Ulaanbaatar

1

Gefällt mir · Kommentieren · Teilen

eagle NEWS · Abonnieren
24. September 2019 · 0

Ухаалаг хотын хэрэглээг нэвтрүүлэх төсөл дээр Монгол, Узбекстан хоёр улс хамтран ажил...



ИЙГЛИН МЭДЭЭ
ХҮРЭЭЛЭН БҮЙ ОРЧНЫ ӨГӨГДЛҮҮДИЙГ АШИГЛАН ТУЛГАРЧ БҮЙ АСУУДЛАА ШИЙДЭЖ БОЛНО
eagle.mn 19:33 ЖИЛД 36 ОРЧИМ ТЭРБҮМ ТӨГРӨГИЙГ АВТО ЗАМ ЗАСВАРЫН АЖИЛД ТӨСӨВЛӨДӨГ

Gefällt mir · Kommentieren · Teilen

Album Smart City (SuMoCos) Conference 24-28.09.19

Chugii Drg hat ein neues Foto hinzugefügt.
2. Oktober 2019 · 0

24-28.09.2019 SuMoCos (Smart City) Conference <https://uol.de/se?sumocos>



15 · 2 Kommentare

Gefällt mir · Kommentieren · Teilen

Mongolian Young Scientist's Association
22. Juni 2019 · 0

Эрдэмтэд, судлаачид Та бүхнийг 2019 оны 9 дүгээр сард Улаанбаатар хотод зохион байгуулагдах "Ухаалаг хот" олон улсын хуралд оролцохыг урьж байна.

Together with University of Oldenburg, Germany, and Mongolian Academy of Sciences we are organizing this "Smart City" focused conference taking place in Ulaanbaatar in September 2019. Here are the most important information about it:

SuMoCoS Conference 2019
International Conference on Sustainability and Mobility in the Context of Smart Cities
Date: September 23-29, 2019
Place: Ulaanbaatar

The idea of the conference is to bring together research/academia with industry and administration from Germany and Mongolia to exchange knowledge and experiences in the context of "Smart City" and to initiate joint follow-up projects and activities. More detailed information about the underlying SuMoCoS project and the conference can be found at the project website [1] and the Call for Abstracts [2].

Call for Abstracts

SuMoCoS Conference 2019

International Conference on Sustainability and Mobility in the Context of Smart Cities

General information
The SuMoCoS project (Sustainability and Mobility in the Context of Smart cities) is a travelling conference with project partners in Germany, Uzbekistan and Mongolia. It is funded by the German Federal Ministry for Education and Research (BMBWF) under the Travelling Conferences grant. The SuMoCoS project aims to strengthen the cooperation between all project partners and to further deepen the understanding of the theoretical and practical challenges of Smart City projects in Central Asia.
In Mongolia, following the main interest of the project as creating and applying a smart city to reduce environmental pollution and improve mobility, SuMoCoS conference will be focused on the topics of improved traffic control and environmental pollution.
The SuMoCoS conference will be held at Ulaanbaatar city from September 23rd to September 27th, 2019. The conference will bring together scientists, researchers, entrepreneurs and representatives from government and private organizations, research institutes and universities from Germany and Mongolia to share and exchange the knowledge and experience in the sustainability and mobility in the context of the Smart City. The conference will also provide an excellent opportunity to initiate collaborations with the partners from Germany.
Conference participants are welcome to submit abstracts for oral or poster presentation at the meeting.

<p>Conference topics (non-exhaustive list)</p> <ul style="list-style-type: none"> Air pollution and renewable energies Water, soil and waste management Smart government Public and private transport Sustainable / green city development Internet of things 	<p>Conference Partners from Germany</p> <ul style="list-style-type: none"> University of Oldenburg DLR Institute of Transportation Systems embiteco GmbH & Co. KG erminas GmbH OFFIS Institute for Informatics Oldenburger Energiecluster OLEC n.V. ecology + communication Unternehmensberatung GmbH (eoco) Electric-Special Photovoltaiksysteme GmbH OECON Products & Services GmbH City of Oldenburg
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Conference date: September 23-27, 2019

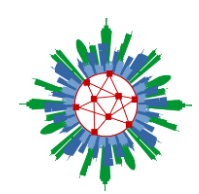
Day 1: Basics of Smart Cities
Day 2: Use Cases and Industry Solutions
Day 3: Young Sciences Day
Day 4: Special Focus Day
Day 5: Field Trip

Deadline for abstract submission: 2019-07-31
Abstracts must be written in English following the standard format template (see conference website <https://uol.de/se/sumocos>) and submitted by email (contact.sumocos@uol.de) until July 31, 2019.
For more information about the SuMoCoS Conference 2019, please check the website or contact the organizing committee via email (contact.sumocos@uol.de) or phone (+976-99235102, +976-77085447).

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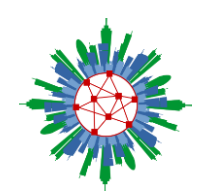
24 · 36 Mai geteilt

Gefällt mir · Kommentieren · Teilen



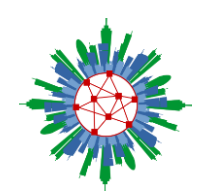
Lessons Learned

- Many smart systems exist, but most are separate
- No common control, standards or responsibility
- Make cities smarter, not smart
- Often also basic problems like busted pipes and insufficient infrastructure
- Can be an opportunity for building integrated smart systems from the ground up
- But need to be careful about understanding of „smart“
- Specific challenges:
 - energy dependency
 - privacy and data security
 - social acceptance (difference between cities and rural areas)
 - problems often less technical but political
 - language barrier



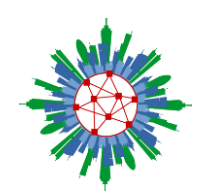
Results

- Publication: Two papers + Book of Abstracts
- Competency Atlas (still pending, based on collected topics)
- Contacts
 - Germany: UOL, OFFIS, DLR, city, industry
 - Mongolia: MAS, embassy
 - Uzbekistan: TUIT, TUIT-U, TUIT-S, KRASS, embassy
- Follow-up activities

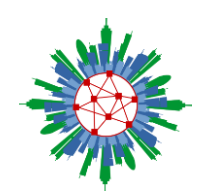


Follow-up Activities

- Smart Greenhouse Application with UOL, TUIT-U, KRASS and erminas
- Meeting with Dr. Uhrhan (head of the dept. for construction, traffic and environment)
- Smart Modeling Workshop
- Erasmus+ (3 visiting students)
- Discussion



- BMBF: Partnerships for sustainable problem solutions in central Asia
 - research and development, knowledge transfer, digitalisation, promotion of young talent
 - pilot projects for urban-rural-systems
 - 36 months, 200k €, university, SME
 - application until 2019-11
- BMEL: AI in agriculture, healthy diet and rural regions
 - practical application, efficiency and sustainability of agriculture
 - pilot projects, new business models, improvement of existing products
 - ??? €, university, SME
 - application until 2020-04
- BMBF+BMEL: ICT in agriculture
 - digitalisation of the food creation process, optimisation of usage of digital data from this process
 - data security, data standardisation, multiple stakeholders
 - 36 months, 500k €, university, SME
 - application until 2020-03
- BMI: Smart City



Final Report

- Due within six months after the project → May 2020
- Three parts
 - Summary
(2 pages, goal and state of the art, steps, results, cooperation)
→ published
 - Detailed report
(up to 20 pages, describe activities, deviation from application, finance overview, applications and follow-up projects, publications, travels)
→ published
 - Validation report „Erfolgskontrollbericht“
(scientific results, experiences, economic and scientific applications, references to parts one and two)
→ internal use



Closing