SuMoCoS
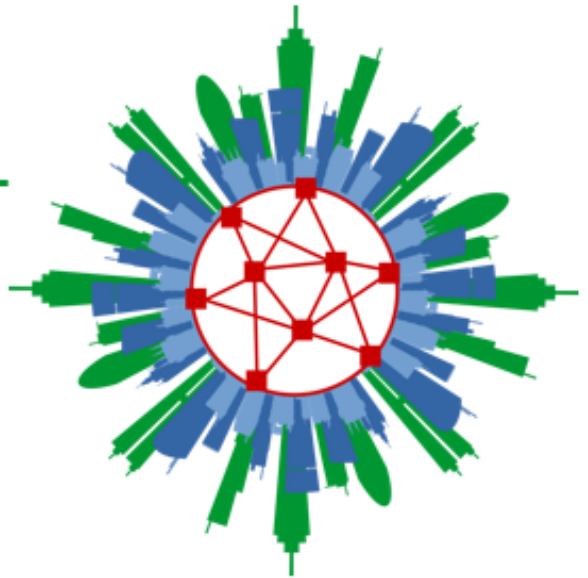## Sustainability and Mobility in the Context of Smart Cities

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

Ulaanbaatar

September 24-28, 2019

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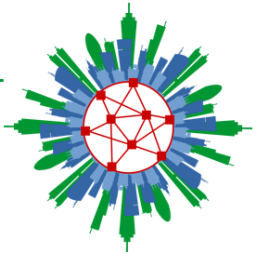
Final Programme (23.09.2019)

24-Sep-2019, Tuesday, Day 1 (09:00-18:00)

Smart City Foundations

Time	Activities
08:30-09:00	*Registration*
09:00-10:30	**Session 1.1: Opening**
09:00	**Opening speeches** • *Academician D. Regdel (President of Mongolian Academy of Sciences)* • *S. Batbold (State Secretary of Ministry of Road and Transport Development)* • *M. Khaliunbat (Head of Innovation and Technology Projects, Governor's Office of the Capital City)*
09:30	Introduction to Travelling Conferences *Christian Schönberg (University of Oldenburg)*
09:45	Introduction of MAS and Mongolian Universities *Organizing committee (Mongolian Academy of Sciences)*
10:15	Introduction of DLR and Delegation *Christian Rahmig (DLR)*
10:30-11:00	*Coffee & Tea*
11:00-12:30	**Session 1.2: Introduction of Partners**
11:00	Introduction of University of Oldenburg and Delegation *Johannes Meier (University of Oldenburg)*
11:30	Smart Cities viewed as IoT Systems *Andreas Winter (University of Oldenburg)*
12:00	**Keynote Presentation** Smart City Strategy of Mongolia *R. Mergen (Director General of the Policy and Planning Department, Ministry of Road and Transport Development)*
12:30-12:40	*Group Photo*
12:40-14:00	*Lunch*

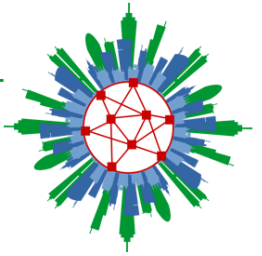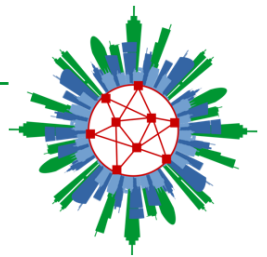| 14:00-15:30	Session 1.3: Smart City Concepts and Methodologies
14:00	**Keynote Presentation**
	Smart City Strategy of Ulaanbaatar
	M. Khaliunbat (Head of Innovation and Technology Projects, Governor's Office of the Capital City)
14:30	Mobility platforms as a key element for sustainable mobility
	Alexander Sandau, Jorge Marx Gómez (University of Oldenburg)
15:00	Evaluating Smart Cities
	Burmaa Myagmar, Zaya Mashlai (Mongolian University of Sciences and Technology)
15:30	**Poster Pitches**
15:45-16:15	*Coffee & Tea*
16:15-17:45	**Session 1.4: Interactive**
16:15	Envisioning smart cities – some examples from Europe
	Peyman Khodabakhsh (atene KOM GmbH)
16:30	**Panel discussion**
	Topic: Potential of Smart City Approaches in Mongolia
	Panellists:
	• *Prof. Dr. Andreas Winter (University of Oldenburg)*
	• *Hilmar Bunjes (erminas GmbH)*
	• *Acad. B. Avid (Mongolian Academy of Sciences)*
	• *Mr. M. Khaliunbat (Head of Innovation and Technology Projects, Governor's Office of the Capital City)*
	• *Dr. U. Odgerel (Senior Officer at Policy and Planning Department, Ministry of Road and Transport Development)*
	Moderator: Dr. Christian Schönberg (University of Oldenburg)
18:00	*Daily Closing*
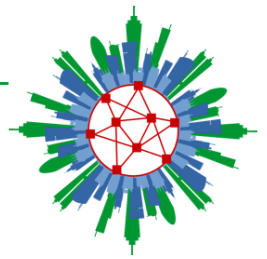
25-Sep-2019, Wednesday, Day 2 (09:00-18:00)

Use Cases and Industry Solutions

Time	Activities
08:30-09:00	*Registration*
09:00-10:30	**Session 2.1: Infrastructures**
09:00	Dependable Sensor Networks for Smart Cities *Oliver Theel (University of Oldenburg)*
09:30	Industrial IoT – Improving manufacturing processes and enhance production machines *Yvette Teiken, Hilmar Bunjes (erminas GmbH)*
10:00	Developing the Smart City based on Internet of Things *Khishigjargal Gonchigsumlaa, Uranchimeg Tungalag, Narantsetseg Yadmaa, Chuluunbandi Naimannaran (Mongolian University of Sciences and Technology), Erdenetuya Dorj (Tokushima University)*
10:15	Digital infrastructure as a fundament for smart cities and regions *Annette Schumacher (atene KOM GmbH)*
10:30-11:00	*Coffee & Tea*
11:00-12:30	**Session 2.2: Mobility**
11:00	Digital Urban Mobility *Christian Rahmig (DLR)*
11:15	Smart Mobility Solutions by OECON *Christian Rahmig (DLR), Fatih Özel (OECON)*
11:30	Conception of a product service management system for the marketing of customer-specific services in the mobility sector *Alexander Sandau, Jorge Marx Gómez (University of Oldenburg)*
11:45	Smart Mobility in the energy system, its features and challenges *Zagdkhorol Bayasgalan, Tsetsgee Bayasgalan (Mongolian University of Sciences and Technology), Muzi Francesco (University of L'Aquila)*
12:00	Routing in Oldenburg *Johannes Meier, Oliver Theel, Andreas Winter (University of Oldenburg)*
12:15	PAHs associated with PM10 among Ger districts in Ulaanbaatar *Khulan Tsermaa, Tseren-Ochir Soyol-Erdene (National University of Mongolia), Günter Bambauch (University of Stuttgart), Amarsanaa Badgaa (Mongolian Academy of Sciences)*
12:30-14:00	*Lunch*

14:00-15:30	**Session 2.3: Education and Privacy**
14:00	Introducing a "SMART" concept in engineering curriculum *Bayarmaa Tsogtbaatar (Institute of Engineering and Technology), Bolormaa Dalanbayar, Lodoiravsal Choimaa, Enkhdul Tuuguu (National University of Mongolia)*
14:15	Towards a system for data transparency to support data subjects *Christian Janßen (University of Oldenburg)*
14:30	Privacy and smart traffic management *Boris Reibach (University of Oldenburg)*
15:00	*Discussion of Legal Aspects*
15:30	**Poster Pitches**
15:45-16:15	*Coffee & Tea*
16:15-17:45	**Session 2.4: Breakout Session**
16:15	**Poster Pitches**
16:30	Collection of Topics of Interest
17:00	Table Discussions on Collaborations
18:00	*Daily Closing*
19:00-	*Conference Dinner*

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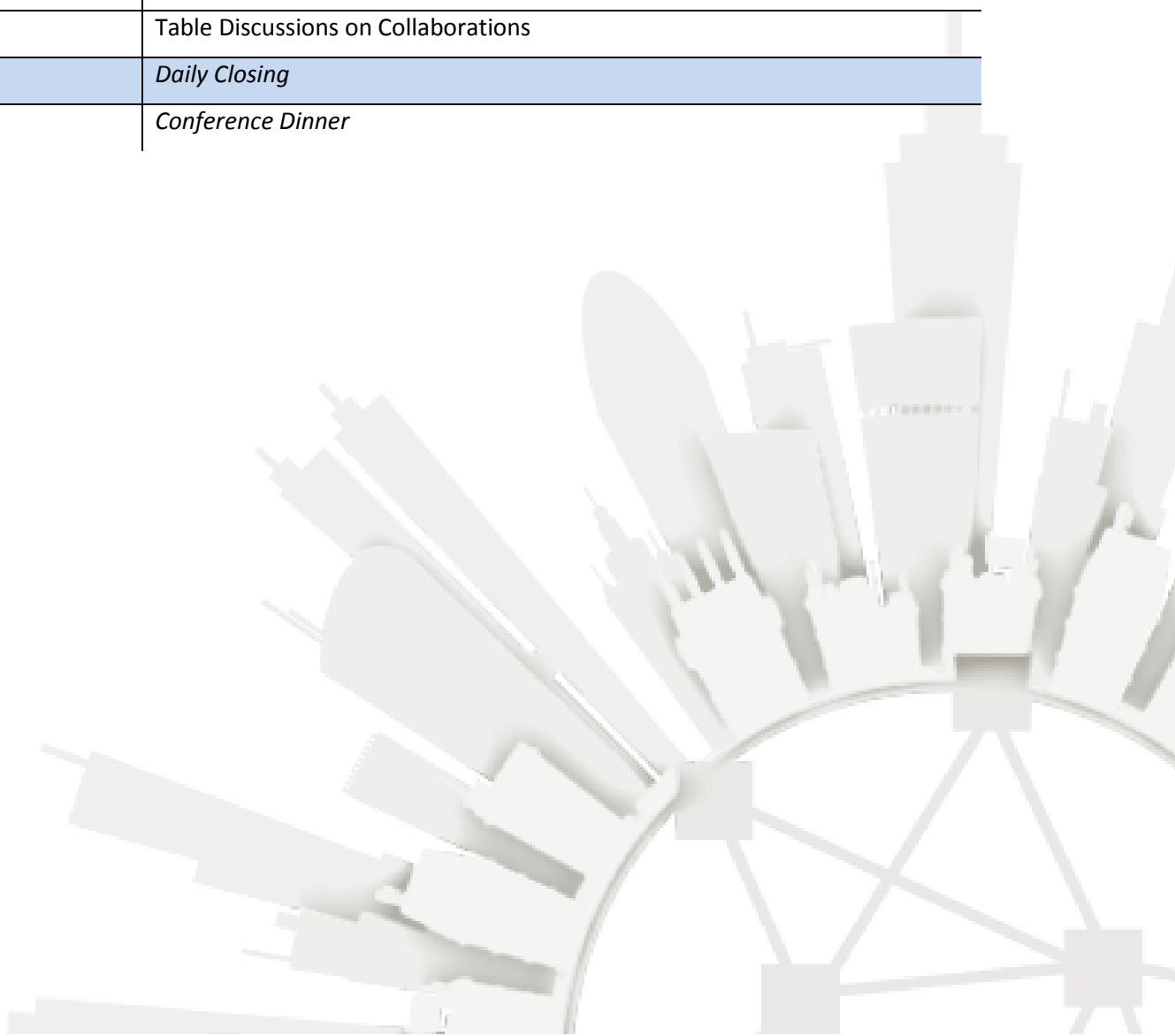
26-Sep-2019, Thursday, Day 3 (09:00-18:00)

Special Focus

Time	Activities
08:30-09:00	*Registration*
09:00-10:30	**Session 3.1: Describing Smart Cities**
09:00	Integrated IoT Languages *Muzaffar Artikov, Johannes Meier, Andreas Winter (University of Oldenburg)*
09:30	Semantic Technologies for Smart Cities *Christian Schönberg (University of Oldenburg)*
10:00	ECOSense - Collection and analysis of cycling data *Kyra Pelzner, Ronald Bankowsky (baron mobility service GmbH), Christian Stehno, Eduard Sartison (CoSynth), Jorge Marx Gómez, Christian Janßen, Johannes Schering, Rene Kessler, Viktor Dmitriyev (University of Oldenburg)*
10:15	Economic instruments for water management of Mongolia: Analysis of water pollution control by economic instruments *Batsuuri Janyansuren, Gerelchuluun Javzan (Water Service Regulatory Commission of Mongolia)*
10:30-11:00	*Coffee & Tea*
11:00-12:30	**Session 3.2: Environmental Challenges**
11:00	Air pollution study in Ulaanbaatar City *Amarsaikhan Damdinsuren, Jargaldalai Enkhtuya, Enkhzul Natsagdorj, Tsogzol Gurjav (Mongolian Academy of Sciences)*
11:15	Use of Environmental Biotechnology approaches in remediation of soil pollution in Ulaanbaatar city *Munkhtsetseg Tsednee (Mongolian Academy of Sciences)*
11:30	Lead Removal from contaminated soil using electrokinetik remediation method *Khasbaatar Dashkhuu, Nyamtseren B., Undrakh B. (National University of Mongolia)*
11:45	Composition and pyrolysis of plastic waste of Ulaanbaatar city *Dashlkhagva Adiyasuren, Tseren-Ochir Soyol-Erdene, Tuuguu Enkhdul (National University of Mongolia)*
12:00	*Discussion on matching IoT Approaches*
12:30-14:00	*Lunch*
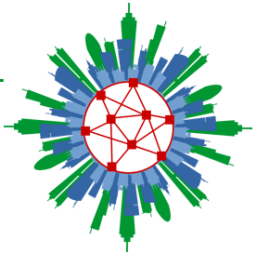
14:00-15:30	**Session 3.3: Energy and Participation**
14:00	Energetic neighbourhoods & inhouse energy management *Jörg Bremer (University of Oldenburg)*
14:30	Current conditions and simple solutions for a human-friendly mobility in Ulaanbaatar city *Amarjargal Nayanbaatar (City of Ulaanbaatar)*
14:45	Energy efficient Building Refurbishment in Mongolia Technical Cooperation Project by the German Government *Thorge Ketelhodt (GIZ)*
15:00	Research on Public Electric Transport possibilities in Ulaanbaatar City *Sergelen Byambaa, Otgontumur Gantumur, Nomuulin Batjargal (Mongolian University of Sciences and Technology)*
15:15	Green area change study in Central Ulaanbaatar using very high resolution QuickBird images *Nyamjargal Erdenebaatar, AmarsaikhanDamdinsuren, Munkh-Erdene Altangerel (Mongolian Academy of Sciences)*
15:45-16:15	*Coffee & Tea*
16:15-17:45	**Session 3.4: Finalization**
16:15	Presentation of Results and Discussion
17:30	Concluding Remarks
18:00	*Conference Closing*
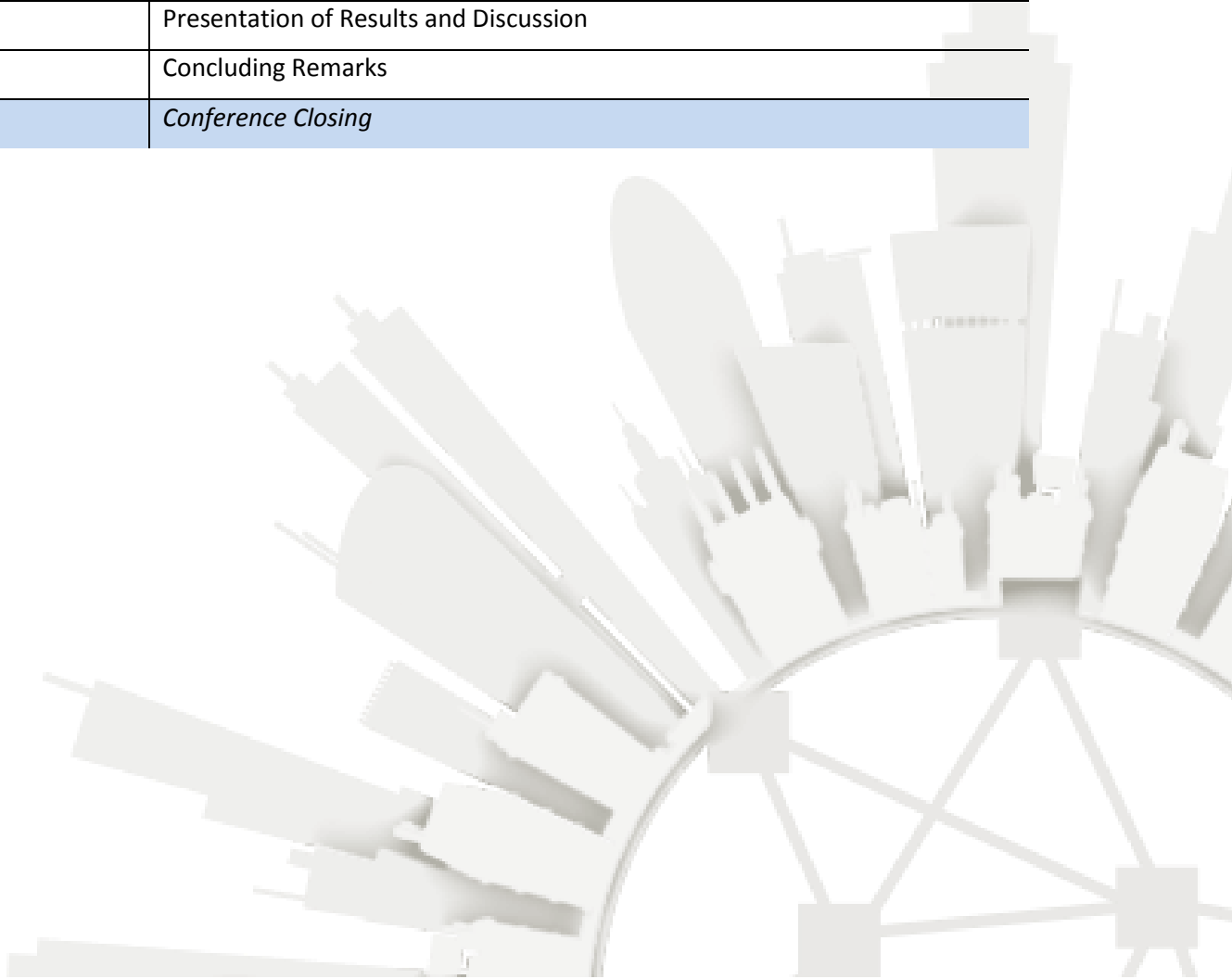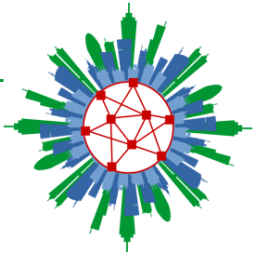
27-Sep-2019, Friday, Day 4

Field Trip I

Time	Activities
	Mobility
	Destination 1: New International Airport
	Energy
	Destination 2: Salkhit Wind Farm

28-Sep-2019, Saturday, Day 5

Field Trip II

Time	Activities
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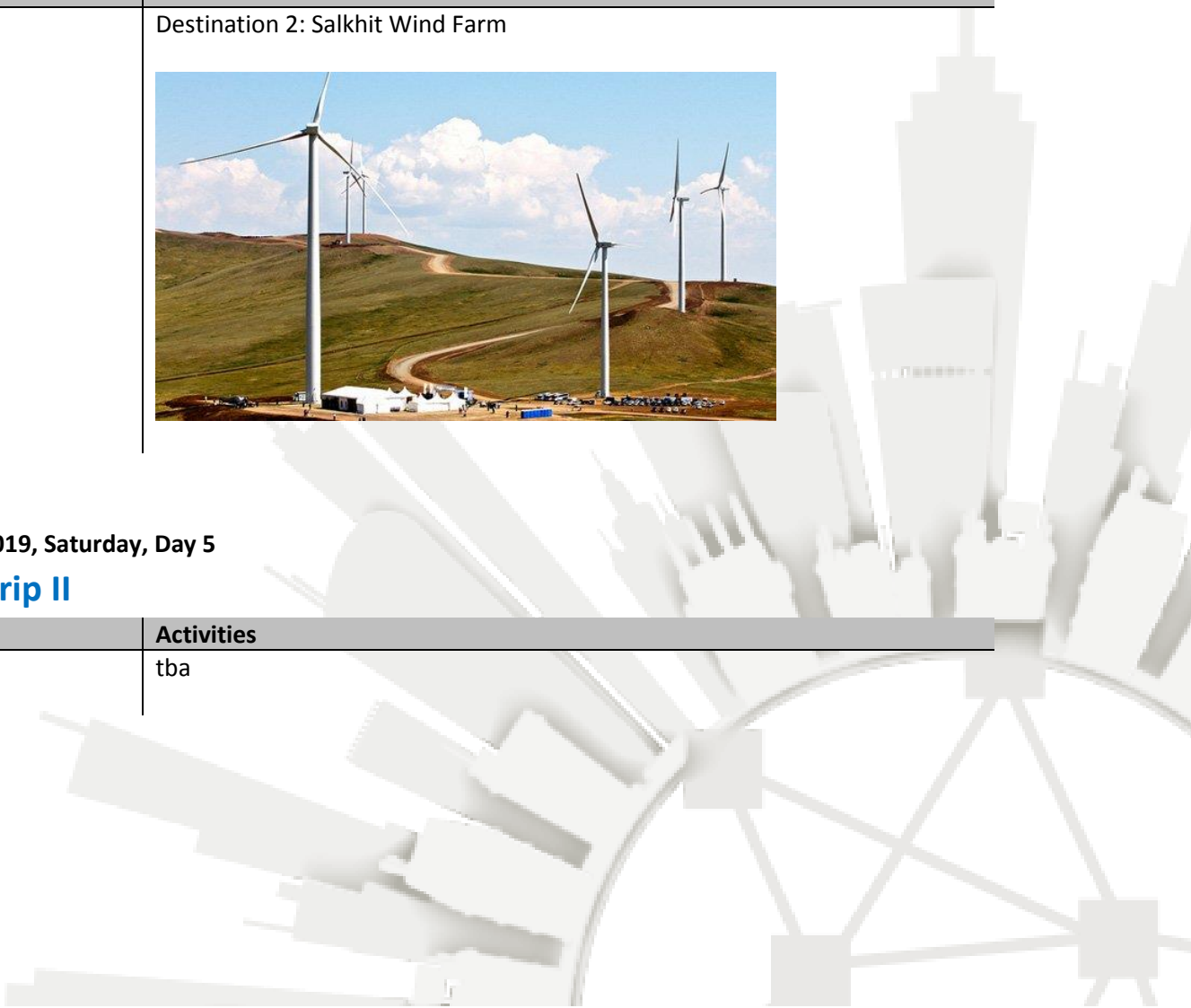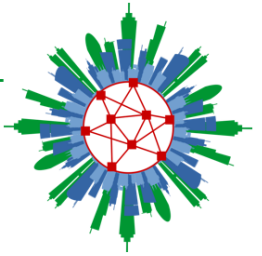
Final Programme (23.09.2019)

Conference Venue

Puma Imperial Hotel

Imperial Hall, 2F

www.pumaimperialhotel.mn