

UNIVERSITY OF CENTRAL ASIA GRADUATE SCHOOL OF DEVELOPMENT Mountain Societies Research Institute















Proceedings of the International Workshop

Silk Roads in the Mountains of **Central Asia**

Ancient Routes and Modern Challenges in **Times of Global Change**

3-4 October 2017 Dushanbe, Tajikistan



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Foreword

Ancient and modern ways, diverse cultures, and a host of ideas and perspectives meet daily in Central Asia. Through these encounters, visions of the future are now being defined and refined as globalization brings people and opportunities together at a scale unprecedented in the history of the world. In the mountains of Central Asia, the ancient Silk Road is actively being built afresh as modern infrastructure and information technologies combine with personal and institutional encounters, and the new ideas or recombination of ideas they bring, allowing a re-imagination of people and place. Once at the periphery of empires, yet also always being the home for numerous mountain peoples and cultures, the mountains of Central Asia now find themselves *de facto* at 'centre stage' for much international development and geopolitics at the outset of the 21st Century.

Perhaps the most significant driver of change ushering in a new era for Central Asia is China's vision for the region. Until recently, most attention has been given to Russian influence. More recently, though, China's economic influence in the region has grown dramatically – especially since President Xi Jinping announced in 2013 the launch of its unparalleled One Belt, One Road Initiative (more recently renamed the Belt & Road Initiative), Central Asia now must look eastward as well. Many exciting opportunities are on the horizon as well as a range of emergent challenges. These are the conundrums of any exchange network – as surely was the case centuries ago on the original Silk Roads, too. The critical area of enquiry now is to move beyond the primary focus of most recent studies on China's One Belt, One Road Initiative, namely the official or assumed goals and motivations of the Initiative. With this workshop, we aim to turn this approach on its head and instead consider the policies, programmes and projects *from a Central Asia perspective*.

This inaugural Silk Roads workshop was organized by University of Central Asia and its partners and convened 40 development professionals and academics from around the world to discuss what is known or anticipated in the near future under the umbrella of China's modern re-creation of the Silk Routes in the 21st Century. What will such changes mean for Central Asia? In particular, how are these new developments likely to affect the mountain regions of Central Asia, and the societies who live here? Some social and environmental challenges clearly are present, however development opportunities also abound for local communities – if adequate space can be created within the processes of global changes and maximized in favour of mountain societies.

These proceedings provide a glimpse into critical development issues. A start has been made, and now already new concepts, approaches, and collaborations are emerging. The University of Central Asia is honoured to have hosted this meeting. It also extends here a note of appreciation to its partner institutions and keynote speakers – especially to Yuri Badenkov and Hermann Kreutzmann, who first suggested that such a meeting be organized. We also thank all workshop participants, as well as Mountain Societies Research Institute staff who worked tirelessly in the weeks leading up to the meeting to make it a success. Thank you!

Marchoggi

About Mountain Societies Research Institute (MSRI), University of Central Asia (UCA)

The Mountain Societies Research Institute operates at the interface of academia and development. It envisages a future in which communities, government, academia, development practitioners and the private sector collaborate in the generation of inter- and transdisciplinary knowledge and its application for sustainable development in the mountain regions of Central Asia and beyond.

Situated in UCA's Graduate School of Development, Mountain Societies Research Institute conducts research for development with the goal to improve the quality of life and well-being of the people and communities that it serves in the mountain social-ecological systems of Central Asia.

MSRI has five key objectives:

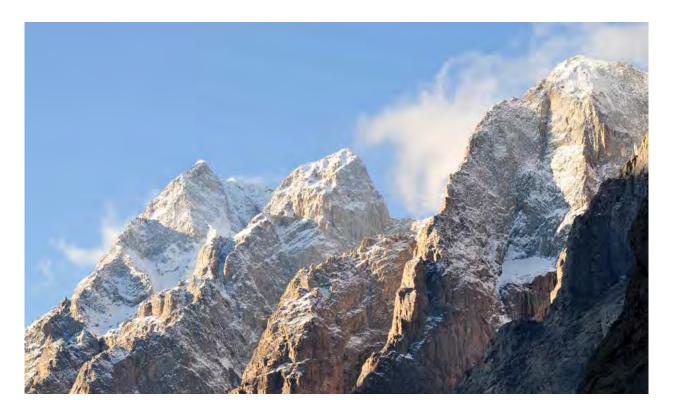
- To generate knowledge on mountain regions and their societies through original scientific research
- To serve as a knowledge hub for scholars from a wide range of disciplines, development practitioners, and policy-makers
- To enhance Central Asian capacities to conduct sound research relevant for mountain societies
- To inform policy and practice through strategic engagement with key development partners and mountain stakeholders
- To disseminate knowledge and lessons learned amongst the full range of mountain stakeholders

MSRI's core research themes include:

- Natural resources management and agro-pastoral livelihoods
- Water-energy-food-environment nexus, incl. food security
- Mountain hazards and disaster risk management
- Climate change, adaptation to climate change

For more information:

http://msri.ucentralasia.org





Partner Institutions

INSTITUTE OF GEOGRAPHY



Institute of Geography, Russian Academy of Sciences

The Institute of Geography, Russian Academy of Sciences is the oldest and largest Russian research center, founded in 1918, devoted to the study of physical and economical geography. The Institute's main current research directions are: evolution of the natural environment and surface natural resources; natural cryogenic systems; cryosphere processes; geographical aspects of land use and nature conservation; the interaction of environment and society in light of growing anthropogenic pressures; regional frameworks for the sustainable development of environment and society; and GIS technologies and mapping.

http://www.ras.ru/

UNIVERSITY OF OXFORD





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School of Geography and Environment, University of Oxford

The School of Geography and the Environment is a dynamic, diverse, interdisciplinary academic department at the University of Oxford that combines natural and social science interests and skills, underpinned by Geography's tradition of working across differing cultures. The School is internationally recognized for the quality of its teaching, research, and wider engagement across the breadth of human and physical geography and environmental studies.

www.geog.ox.ac.uk/

Centre for Development Studies (ZELF), Free University of Berlin

The Centre for Development Studies (ZELF) provides research and teaching in the field of Geographical Development Studies. The Centre's main research interests concern the political, economic and socio-cultural developments and transformation processes in Central and South Asia. It studies dimensions and forms of social vulnerability, the effects of global exchange relations, and transformation processes in rural areas. Current research focuses on rural areas in Pakistan, India, Nepal, Afghanistan, Tajikistan, Kyrgyzstan and the People's Republic of China (Xinjiang and Tibet). Most projects are located in peripheral regions where human-environmental relations are under stress, e.g. in mountain regions, with a focus on pastoral practices, water management, and other resource-oriented strategies. The Centre's institutional core is the professorship in Geographical Development Studies (Prof. Dr. Hermann Kreutzmann) within the Institute of Geographical Sciences, in the Department of Earth Sciences, Freie Universität Berlin.

http://www.geo.fu-berlin.de/en/geog/fachrichtungen/anthrogeog/zelf/index.html

ICIMOD





A K D N Aga khan development network

International Centre for Integrated Mountain Development

The International Centre for Integrated Mountain Development (ICIMOD) is a regional intergovernmental learning and knowledge sharing centre based in Kathmandu, Nepal serving the eight regional member countries of the Hindu Kush Himalayas – Afghanistan, Bangladesh, Bhutan, China, India, Myanmar, Nepal, and Pakistan. Globalization and climate change increasingly influence the stability of fragile mountain ecosystems and the livelihoods of mountain people. ICIMOD aims to assist mountain people to understand these changes, adapt to them, and make the most of new opportunities, while addressing upstream-downstream issues.

http://www.icimod.org/

Central Asia Mountain Hub (CAMH)

The Central Asia Mountain Hub (formerly known as Mountain Partnership Central Asia Hub) has been hosted at UCA since 2010. and at MSRI since the Institute's establishment in 2011. Supported by the Swiss Agency for Development and Cooperation (SDC), CAMH is a regional centre that brings together a wide range of mountain stakeholders including members of the Mountain Partnership global alliance, to ground the sustainable mountain development (SMD) concept into practice at regional, national and sub-national levels. CAMH activities include policy advocacy at many levels through community mobilisation as well as collaboration with policy makers; building partnerships to enhance local capacities and to promote and extend good practices; and advancing the 'mountain agenda' and mountain peoples' concerns in global, regional, national and subnational development and policy making processes.

www.ucentralasia.org/msri/

www.fao.org/mountain-partnership/

Aga Khan Development Network (AKDN)

The Aga Khan Development Network (AKDN) has a mandate to improve living conditions and opportunities in the communities it serves without regard to faith, origin or gender. AKDN operates predominantly in Asia and Africa. For more than 60 years, it has been building institutions and delivering services by creating schools and hospitals, newspapers and electricity generation plants, and social programmes helping improve the lives of hundreds of millions of people in places as varied as Cairo, Kabul, Delhi and Bamako. AKDN has been operating in Central Asia since 1995.

http://www.akdn.org/

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Ancient Routes and Modern Challenges in Times of Global Change



INTERNATIONAL WORKSHOP 3-4 October 2017 Dushanbe, Tajikistan

Mountain Societies Research Institute University of Central Asia (UCA) 138 Toktogul Street, Bishkek Kyrgyz Republic, 720001 msri@ucentralasia.org

Silk Roads in the Mountains of Central Asia Ancient Routes & Modern Challenges in Times of Global Change including the Pamirs, Tien Shan, and Altai mountains

3-4 October 2017 — Dushanbe, Tajikistan Dushanbe Declaration

Introduction

Central Asia has been a crossroads for global economic trade and the exchange of ideas and innovations for centuries. China's "One Belt, One Road" (OBOR) Initiative (also known as the Belt & Road Initiative (BRI) was launched in 2013, seeking to revive the ancient routes that to a large extent were closed for much of the twentieth century. Spanning more than 60 countries from Asia to Europe, the land and sea routes envisaged by China are likely to impact, and could radically transform, local and regional socio-economic, ecological, and cultural systems. Further study of the possible outworking of the OBOR initiative in Central Asian countries such as Tajikistan –highly dependent on foreign investments from China for the development of transportation as well as telecommunication and agricultural infrastructures – clearly is warranted. Many significant benefits as well as potential challenges stem from such financial and technological investments and other forms of influence; these should be explicitly considered and discussed, even debated, and eventually synthesized – in order to inform both policy and practice. A wide and inclusive approach to dialogue is essential, too, encompassing a broad range of thematic, geographic, and socio-cultural perspectives.

Focusing on the mountains of Central Asia, with special attention on the Pamirs and Hindu Kush ranges, this workshop considered both opportunities and challenges associated with current and planned infrastructure developments (e.g. roads, railways, pipelines), urbanization, and the range of institutional changes that are likely to arise through emerging development pressures (such as changes in land tenure, access and benefit sharing, civic engagement, legislation, etc.).

The workshop adopted a social-ecological systems approach in the dialogues it encouraged, and sought to foster new partnerships and networks that promote interdisciplinary research. A more refined research agenda to advance Sustainable Mountain Development is anticipated from the workshop, as part of the global over-arching Mountain Agenda promoted by the Swiss Agency for Development and Cooperation (SDC), the UN Food and Agriculture Organization (FAO), and other global development implementation and donor agencies.

In regard to the OBOR initiative, the international Silk Road workshop aimed specifically to answer the following questions, and more:

- What are the actual or anticipated impacts of the OBOR initiative on mountain regions in Central Asia?
- To what extent will improved accessibility benefit local communities, versus external stakeholders?
- Who are likely to be the main winners and who will be the losers in the mountain regions?
- How will the OBOR initiative affect urbanization in mountain regions?
- What environmental impacts may be expected in mountain environments, such as land

degradation, loss of wildlife/biodiversity, transformation of traditional indigenous systems and cultural identity?

- How will the initiative influence the ability of external actors to determine developments in the mountain regions (cf. tele-coupled landscapes)?
- How should potential impacts of OBOR initiative and other 'Silk Road' developments be assessed in context of, or in conjunction with, other manifestations of global change, particularly climate change?

Anticipated workshop outcomes and outputs included the following:

- Inventory of existing knowledge about current development trajectories in the Pamirs and other Central Asian mountain ranges
- Synthesis of progress in our understanding of global changes occurring in mountain areas, including examples of innovative development approaches as well as identification of significant knowledge gaps
- Increased interdisciplinary work, international exchanges, and collaborations amongst researchers, practitioners, and policy-makers
- Networking amongst researchers and development practitioners with special interest in the Mountain Agenda
- Building on the above, eventual authoring of one or more "policy briefs" under MSRI's new Policy Brief Series, as well as submission of articles for a 'special issue' in a development journal (e.g. Geography, Environment, Sustainability)

The first in a series of workshops, this meeting primarily aimed to develop broad consensus on priorities for research in relation to development policy impacts on the societies resident in, or dependent on, the mountains of Central Asia. The workshop took place in Dushanbe over a two-day period in October 2017. Following the workshop, an optional 5-days field trip was organized, during which participants were able to visit UCA Khorog Campus and to experience the cultures and natural environments in the Pamir region.

This inaugural **Silk Roads in the Montains of Central Asia** international workshop organized by the University of Central Asia was marked by the authoring of the **Dushanbe Declaration**, highlighting the dialogues, broad consensus, and key recommendations from the workshop.

Workshop summary

The workshop began with a welcome and opening remarks by Marc Foggin, Associate Director of the Mountain Societies Research Institute, University of Central Asia, and by Yodgor Faizov, CEO of AKF Tajikistan, presented on behalf of the Aga Khan Development Network (AKDN).

Presentations over the two days served to help the group 'take stock' of current changes taking place in the region, with a special focus on China's new programme of economic investment and development known as the One Belt, One Road (OBOR) Initiative.

Several additional sessions were dedicated to the further exploration of major emerging themes or discussion points, including time for questions and answers following presentations. Some of the high-level questions and observations made during these discussions included the following:

- The ancient Silk Roads were long-distance routes with bi- and multi-directional exchanges of goods, people, ideas, and cultures. Today, China's new plans for a revived Silk Road hold some risk of unidirectional trade... How could we better assure that exchanges and integration between countries and communities hold benefits for all parties concerned?
- The time scales for OBOR are unprecedented. The speed of infrastructure developments and other OBOR projects in Central Asia are extremely rapid, arguably with insufficient time for due consideration of the great variability and complexities of natural environments, people and cultures, and endogenous development priorities in the region.
- Repeatedly the question was asked, *Who should set priorities?* This was almost always followed by, *What policies and/or procedures should be in place to ensure that mountain communities are kept in the centre?*
- The value of transdisciplinary research involving all stakeholders was highlighted. The role of 'action research' with real connections to people and issues deemed important to them (such as land entitlement) also was stressed. In light this need, developing a supportive network of universities to promote learning exchanges and emphasizing the importance of such research approaches was encouraged.
- Despite associated challenges, the role of transport routes (roads) and other infrastructure projects as facilitating mechanisms for development was recognized by the participants.
- The need to bridge short- and long-term development perspectives/needs and strategies also was recognized. This gap could be met in part through appropriate partnerships, e.g. between research institutes and development agencies together with community partners.

Anticipated impacts of OBOR in Mountains of Central Asia

During the second day of the workshop, three breakout sessions were facilitated to help further elucidate the main anticipated **impacts of OBOR projects** in the mountain areas of Central Asia:

- 1. Transitioning from 'transport routes to 'development corridors'
- 2. Environmental considerations of infrastructure and land projects
- 3. Sociocultural impacts of OBOR related projects in mountain regions

Based on these and other sessions, the following impacts or **issues of concern** – whether real or perceived, actual or potential – were deemed by the workshop participants as being of greatest significance, warranting further careful consideration and academic study in the future. They are presented here *in the order in which the group raised them* during the workshop's final discussion session, which aimed to recapture the essence of all the discussions of the preceding two days.

- Food security, both for China and Central Asia policy for small holders also important
- Promoting rural livelihoods and wellbeing, developing opportunities, access to markets
- Local socioeconomic benefits of OBOR projects also must be taken into consideration
- Government concerns about radicalism can impact ideas of how to develop OBOR
- OBOR can equally impact climate adaptation responses, such as migration patterns
- Impacts on Central Asian realities in terms of water, energy, transportation, connectivity, and improved or grown markets, are all critically important

- Education of all stakeholders about the potential benefits and impacts of OBOR is crucial
- Fostering community participation and sharing benefits with communities also should be upheld, to be facilitated by improved civic platforms and promoting engagement
- Interactions or impacts of OBOR projects on health and environment are potentially high
- Perceptions about OBOR and China should be better understood, as xenophobia is high
- All OBOR countries should be included in OBOR related discussions, including e.g. about job opportunities, prosperity, economy, trade balance between the concerned countries
- Benefits of local and regional/transboundary tourism development must be maximized
- Conflict and security issues must be considered, with due security measures in place
- OBOR impacts on societies along economic corridors, e.g. effects on peace and stability
- Environmental conservation measures to be taken, including impacts of invasive species
- Geopolitics, including Russia and China considering new impacts of OBOR projects
- Potential role of new information technologies, especially for youth, and value of training
- Corruption and transparency how to ensure corruption is eliminated, role of transparency
- Legal training will be important in new or emerging fields (e.g. impact assessments), also including policy development (especially for environmental and cultural sustainability)
- The role of experts is very crucial for project implementation, ensuring good practices

"Regional development will certainly improve under the influence of China's OBOR Initiative. But local development and wellbeing in mountain areas is extremely important too, and sometimes is at risk of being overlooked. We must keep communities at the centre of any development initiatives."

Nusrat Nasab

"Creating a network of universities in China and Central Asia within the framework of OBOR would encourage and facilitate academic exchanges, and research and monitoring of its environmental, sociocultural and development impacts and outcomes. Coordinated by UCA, this could provide basis for long-term monitoring of mountain socioecological systems, for mountain observatories."

Long Ruijun

"Information and communication technologies (ICTs) can greatly enhance future collaborations and outreach. Their role in scenario planning is unprecedented, and should be maximized. We now have excellent opportunity to bring modern technologies and long established sociocultural systems together."

Antonia Eastwood

Dushanbe Declaration 2017

Preamble

The *Silk Roads in the Mountains of Central Asia* workshop aimed to broaden, deepen, and strengthen our understanding of recent and anticipated developments in the context of China's *One Belt, One Road* policy and related initiatives. The impacts on the Pamir, Tien Shan and Altai mountain regions and societies of Central Asia were the main focus of discussions, attained through inclusive dialogue with participants from many countries, from multiple academic and professional backgrounds, and people working in academia, government, the financial sector, civil society, and in many instances with close ties to communities.

Discussions aimed to assess the current state of knowledge about *One Belt, One Road* initiatives, and led to the preliminary, broadly agreed identification of priority areas for future transdisciplinary research in Central Asia's mountainous regions. The workshop has thus helped advance the global Sustainable Mountain Development (SMD) agenda as well as encourage research and action on a broad range of mountain-relevant Sustainable Development Goals (SDGs) that are anticipated to be affected, positively or negatively, by China's increasing engagement and investment in the region.

Recommendations emerging from the workshop

Based on two days of dialogue and discussion, drawing on recent experience and observations from across Central Asia, the following ten core recommendations are highlighted:

- Local, national and regional stakeholders including mountain communities directly and indirectly impacted by China's One Belt, One Road (OBOR) Initiative should be engaged in the planning and implementation of proposed projects.
- Regional cooperation should be encouraged through mechanisms such as transboundary collaborations, interstate agreements, knowledge platforms, and exchange networks.
- In times of regional and global changes, building local resilience through key development interventions and strategic approaches will be of critical importance for local communities.
- Use of emerging information and communications technologies (ICTs) can help advance and strengthen the participation of local communities and reinforce the positive impacts of development interventions.
- The geophysical, ecological and socio-cultural dimensions of mountain landscapes impacted by OBOR should be studied with diverse approaches and perspectives, including the use of scenario planning to ensure that sustainable and inclusive development plans are made.
- 'Transport routes' should transition to and be perceived as development corridors for regional development, with increased attention given to localize the benefits of development in mountain regions as well as mitigating potential negative sociocultural, economic, or environmental impacts.
- Experiences from UNESCO's model of transboundary biosphere reserves may be used to facilitate dialogue and cooperation in conservation of biological and cultural diversity in regions affected by OBOR initiatives, with relevant experiences drawn from the "Great Altai" Transboundary Biosphere Reserve, as well as ICIMOD's transboundary landscape conservation programme.
- Research on the immediate, mid- and long-term impacts of OBOR-related projects should be

undertaken, including inter-disciplinary studies about socio-cultural dimensions of change, economic regionalization and globalization, climate change and adaptation, biodiversity and ecosystem services, natural resource governance and regional institution, local and regional security, and the administration of regional connectivity including goods and services.

- Several priority research topics pertaining to OBOR were identified at the workshop, included the following:
- Host regions' and nations' ability to decide, structure and/or influence OBOR projects, to be undertaken alongside institutional and personal capacity building, along with a strengthening of partnerships with Chinese institutions and the private sector
- Transport and market access people's connectivity and exchanges in farming/ pastoral contexts, and migration, focusing on production, processing, flow of goods and marketing including ICT based e-commerce platforms
- Water understanding the influences of environmental conditions including climatic change and weather extremes, and anthropogenic interventions e.g. infrastructure development and agricultural intensification, with focus on agricultural development, sustainable urbanization, and disaster risk reduction (e.g. mountain hazards)
- Mountain ecosystems assessing, monitoring and managing rangelands, wetlands and deserts for sustaining food production, water security and nature's contribution to people; and strengthening the conservation of high altitude wetlands with further attention given to Ramsar sites in Pamirs
- Climate change enhancing the capacities of local communities in adaptation, mitigation, and promoting the assessment of carbon footprint of key projects, including implementing eco-friendly technology (e.g. renewable energy)
- A network of universities and research institutions, or an international panel of experts, should be established possibly under the umbrella of UCA in order to foster exchange of information and scientific data, build partnerships, and facilitate thematic research that extends our understanding of OBOR's impacts on the environment and local communities.

The *Silk Roads in the Mountains of Central Asia* workshop was organized and hosted by University of Central Asia (UCA) through its Mountain Societies Research Institute (MSRI). The workshop was co-initiated by the Institute of Geography, Russian Academy of Science, and Free University of Berlin; and was co-sponsored by University of Oxford and the International Centre for Integrated Mountain Development (ICIMOD).

We the undersigned, acting as representatives of the participants of the Silk Roads workshop held in Dushanbe, Tajikistan, maintain the significance of all the *above recommendations* for local and regional sustainable development in Central Asia, especially in light of China's growing engagement in the region. These recommendations can help advance 'sustainable mountain development' by strengthening opportunities and enhancing benefits for local and regional mountain stakeholders. As much as possible, these jointly developed and agreed recommendations, as presented herein, should be incorporated into future development programmes and projects, including Chinese-led infrastructure projects under OBOR, as concrete ways to advance our common goals of promoting people's wellbeing, while also protecting our shared natural and cultural heritages for the present and future generations.

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Dr Yuri Badenkov, Institute of Geography, RAS

Dr Wu Ning, ICIMOD

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Dr Marc Foggin, University of Central Asia

Dr Hermann Kreutzmann, Free University of Berlin

Dr Long Ruijun, Lanzhou University

Dr Troy Sternberg, University of Oxford

Dr Alexander Dunets, Altai State University

Participants of Silk Roads in the Mountains of Central Asia workshop, on 3-4 October 2017



Keynote Presenters



Dr. Yuri Badenkov, Senior Research Scientist Institute of Geography, Russian Academy of Sciences

Dr.Yuri Badenkov is a leading scientist in the field of sustainable mountain development and adaptation strategies for global change, with experience working in North Eurasia, Central Asia, North and South Caucasus, and the Sudet Mountains in Poland. Dr. Badenkov was a core member of the founding commission of University of Central Asia (UCA) and is member of the Advisory Committee for UCA's Mountain Societies Research Institute (MSRI). From 1983 to 2013, he led the Mountain Group MAB-6 at the Russian Academy of Science Institute of Geography. He also has contributed to UNESCO's work on sustainable mountain development, and to the Man and the Biosphere Programme (MAB), working to preserve mountain biosphere reserves. For his contribution in promoting cooperation with UNESCO, Dr. Badenkov received a prestigious medal of honour from the Commission of the Russian Federation for UNESCO Affairs. Dr. Badenkov holds a degree in Geology from the University of Moscow and in Geochemistry from the University of St. Petersburg.



Dr. Hermann Kreutzmann, Professor of Human Geography Director, Centre for Development Studies, Freie Universität Berlin Director, Institute of Geographic Sciences, Freie Universität Berlin

Dr. Hermann Kreutzmann has been Chair of Human Geography and Director of the Centre for Development Studies (ZELF) at Freie Universität Berlin since 2005. Previously he held the Chair of Cultural Geography and Development Studies, and was Director of the Institute of Geography at the Friedrich-Alexander-Universität in Erlangeng-Nuernberg. He was awarded his postdoctoral habilitation degree from Bonn University in 1994. Dr. Kreutzmann was recipient of a Heisenberg Fellowship in 1995 and awarded the Tianshan Prize in China in 2010. He has conducted empirical research in Afghanistan, Pakistan, Tajikistan, Kyrgyzstan, India, Nepal, Tibet and Xinjiang (China) since 1977, with fieldwork spanning a period of more than a decade, resulting in more than 200 publications including over twenty authored and edited books. Dr. Kreutzmann is Principle Investigator in the Berlin Graduate School "Muslim Culture and Societies" and a board member of the BMBF programme "Crossroads Asia."



Dr. Wu Ning, Chief Ecologist International Centre for Integrated Mountain Development (ICIMOD)

Dr. Wu Ning, a Chinese national, joined ICIMOD in October 2011. Prior to joining ICIMOD, he worked at the Chengdu Institute of Biology (CIB), Chinese Academy of Sciences (CAS) as Director General, responsible for the formulation, development, and management of many national and international programme activities. He handled over 60 projects from the Ministry of Science and Technology of China, the Natural Science Foundation of China, and many international organizations. His work on alpine ecology, high-altitude peatland and climate change, ecosystem services and ecosystem management in the Hindu Kush Himalayan region has been widely acknowledged. He has an MSc in plant ecology from Chinese Academy of Sciences and a PhD in geography from the Free University of Berlin, where he was also a Research Fellow of the Alexander von Humboldt Foundation. Dr. Wu Ning has published over 200 articles in peer-reviewed journals and many books or book chapters on various topics of ecology, geography and mountain development. Now he is also the Coordinating Lead Author (CLA) of IPBES regional assessment of biodiversity and ecosystem services for Asia and the Pacific, and the CLA of the Himalayan Monitoring and Assessment Programme.



Dr. Troy Sternberg, John Fell Research Fellow School of Geography, University of Oxford

Dr. Troy Sternberg is a member of the Center for Climate and Security's Advisory Board, and a British Academy Post-doctoral Research Fellow in the School of Geography, Oxford University. His research focuses on the interaction of natural hazards with societies and the environment in the Gobi Desert, including hazard identification as well as social exposure and resilience and evolving impacts of climate hazards on human systems. In particular, Dr. Sternberg explores how drought, dzud (extreme winter) and climate influence human opportunity and security in the Gobi region of northern China and southern Mongolia. His interests center on desert processes - natural hazards, water, drought, climate, degradation, pastoralism, livelihoods, development, and expanding drylands. He has contributed to several peer-reviewed journals, including the International Journal of Climatology and Forced Migration Review. Dr. Sternberg holds a Doctorate in Philosophy (D.Phil) from Oxford University.

Keynote Sessions

SESSION 1: BUILDING MOUNTAIN RESILIENCE THROUGH TRANSBOUNDARY MANAGEMENT OF ECOSYSTEM SERVICES

KEY SPEAKER: WU NING (ICIMOD)

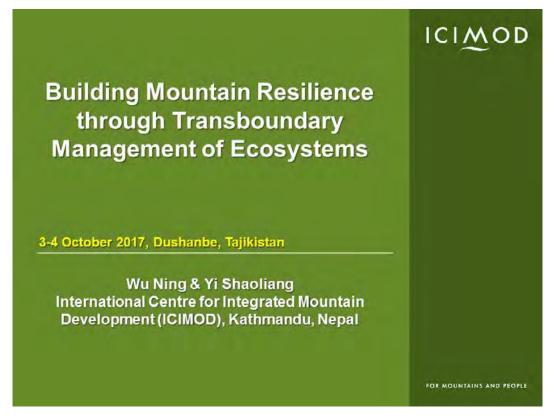
Ecological and community resilience concept considers building or reverting back after shocks and moving forward to adapt in the changing conditions. This approach combines economic, social, and environmental dimensions of sustainable development with climate change adaptation, sustainable management of ecosystems, and preparedness for future risks towards an integrated development in the Hindu Kush Himalaya (HKH). Using the resilience concept and transboundary approach International Centre for Integrated Mountain Development (ICIMOD) is working on management and conservation of a few transboundary landscapes in order to achieving adaptation goals and Resilient Mountain Solutions. This paper presents drivers of change faced by the people and ecosystems in the Hindu Kush Himalaya. The theoretical concepts of transboundary approach, context and practical experiences in ecosystem management, ecosystem based adaptation are used for identifying resilient outcomes and developing solution packages. Examples of ICIMOD's experiences in responding to resilient outcomes and solutions for transboundary management are shared.

Key insights

- There are three main pillars of sustainable development: environmental, sociocultural, and economic sustainability each with its own set of drivers of change in mountain systems.
- The main drivers of environment sustainability in mountains are: land use and land cover change; over exploitation; pollution; invasive alien species; geo-hazards; climate change.
- The main drivers of social sustainability in mountain are: demographic oscillation; sociocultural adaptations; governance and institutions; technological implementation.
- The main drivers of economic sustainability in mountains are: urban expansion; market integration; transportation and infrastructure development.
- Due to increasing natural hazards and disasters, mountain communities need to do more than just coping with changes and bouncing back, they should aim to 'bounce forward' with a comprehensive resilience mechanism.
- Changes in the mountain regions offer opportunities to innovate and build resilience including both community and ecosystem resilience.
- Interventions should be viewed as 'solution packages' targeting a combination of contextual factors related to ecosystem, people, institutions, infrastructure, and external influences.
- Changes in mountain regions also bring and foster opportunities, including learning about common mountain issues, a need for transboundary conservation and development, new cross border scientific cooperation possibilities (cf. OBOR), and a recognized need for strategies in climate change adaptation, disaster risk reduction, and clean energy.
- There is a need for regional approaches, and the rationale behind this is the critical data deficit for many environmental parameters in mountain areas. The region is home to many globally significant wildlife species and habitats that need protecting even beyond existing 'protected areas' systems, which offers a unique opportunity to trial integrated approaches to research, monitoring, and management of ecosystems and enhancing their resilience.
- In developing the Hindu Kush Karakoram Pamir Landscape conservation programme, it is

important to focus on three main priorities: To improve our understanding on biodiversity and ecosystem interfaces; to promote trans-boundary cooperation for conserving and sustaining ecosystem services and their cross-border flows; and to enhance resilience, adaptive capacity, and livelihoods of mountain communities through actively engaging in regional or global initiatives such as OBOR.

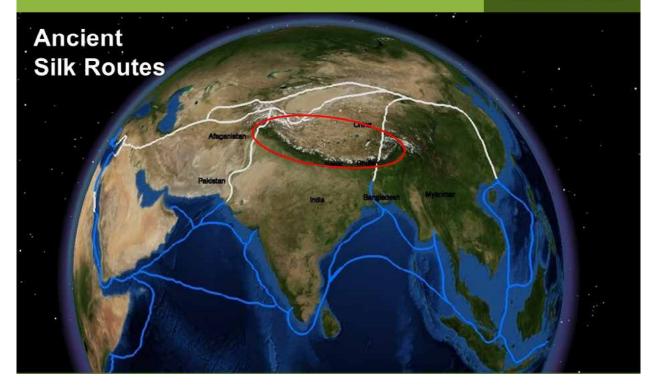
Session 1. Building Mountain Resilience





Mountains – important region of connection in Asia and beyond

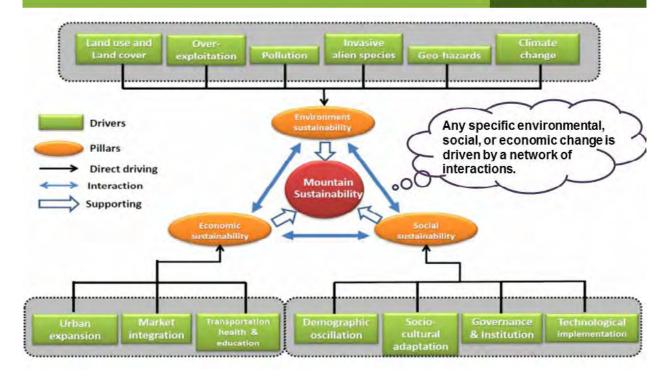
FOR MOUNTAINS AND PEOPLE



Drivers of Mountain Changes

ICIMOD

FOR MOUNTAINS AND PEOPLE



Working Across Boundaries

Amu Doryo Tarim

ICIMOD

FOR MOUNTAINS AND PEOPLE

- Kailash Sacred (Sacred landscape with unique biodiversity and culture
- Kangchenjunga (Corridors and Connectivity)
- Karakoram Pamir Wahan Landscape (KPWL) (Transboundary PAs with unique alpine biodiversity)
- Initiative for Far Eastern Himalayas (HI-LIFE) (biodiversity hotspotsendemism)

ICIMOD

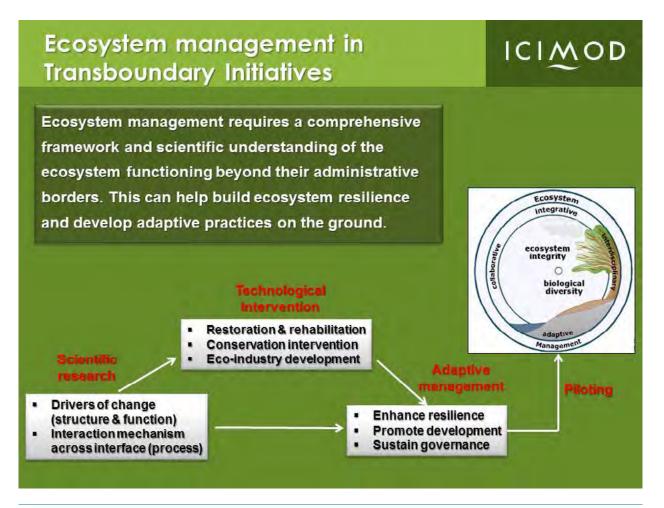
Change Brings Opportunities

- South/South learning on common regional mountain issues
- Transboundary conservation and development
- Cross border scientific cooperation
- Regional & global investments (i.e. one belt one road)
- Climate change adaptation, disaster risk reduction, clean energy, and green technology

Need for Regional Approach – The rationale

ICIMOD

- Critical data deficit on environmental parameters in the HKH hindering scientific understanding and viable policy and practice responses;
- The region is home to many globally significant species and wide range of habitats beyond the existing PAs and the political boundaries (More than 20% of the PAs are transboundary in nature);
- Conservation effectiveness questioned as most of the PAs are scattered as 'conservation islands', and lack connectivity in between;
- Offer unique opportunity for an integrated approach to research, monitoring and managing interfaced ecosystems and enhance their resilience.

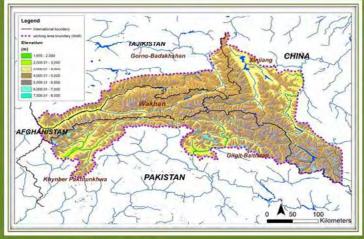


Karakoram-Pamir-Wahkan landscape (KPWL)

ICIMOD

FOR MOUNTAINS AND PEOPLE

- To improve the understanding on biodiversity and climate change
- To promote transboundary cooperation in conserving and sustaining ES
- To enhance resilience, adaptive capacity and livelihoods of local communities.





Adaptation to Changes – Livelihood Diversification

ICIMOD

FOR MOUNTAINS AND PEOPLE

Internal diversification

- Livestock production (migration and mix grazing)
- > Fodder production
- > Mixed cropping

External diversification

- Waging and trading
- > Out-migration
- Collection of NTFPs
- Securing food



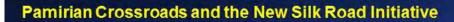
KEY SPEAKER: HERMANN KREUTZMANN

The Pamirian Crossroads have been a thoroughfare for pilgrims, refugees, traders and nomads over long periods of time. The harsh environment has provided home for mountain farmers and pastoralists. Nevertheless, the Pamirian Crossroads were a contested arena during the Great Game and functioned as a buffer during the Cold War. In recent years the new Silk Road initiative, the Shanghai Cooperation Organisation and the Chinese 'One belt, one road' policy for Eurasian exchange has drawn a renewed attention towards a strategically located mountain region. The presentation will draw attention to the transformation of external interests and their effects on the Pamirian Crossroads.

Key insights

- For centuries mountains have generally been perceived as barriers to communication, however they also facilitate communication, especially when they serve as crossroads.
- The name 'Pamir' has been mentioned already in Xuan Zang's famous Journey to the West in 644 CE. He used the term to describe some of the mountain areas he traversed. These areas were seen as obstacles, but at the same time as mountain bridges connecting Central and South Asia, the Chinese, Indian and Persian realms.
- The Pamirian crossroads were situated between four major historical khanates or local kingdoms, Bokhara and Kashgaria, Badakhshan and Kashmir. This rugged mountain area is now bordering the historic and modern states of China, India, Pakistan, Afghanistan, and Tajikistan.
- Until the late 19th century, the Pamirs (including Karakoram range) were perceived by outsiders as 'blank spot' on the maps, an area not allocated to any empire due to remoteness and difficult accessibility. Thus, the mountain communities in the Pamirian Crossroads could maintain a certain degree of autonomy and independence.
- From geological and natural perspectives, a 'Pamir' is an ecologically distinct habitat or area, situated at high altitude, with extensive green pastures in the vicinity of glacial meltwaters. Marco Polo was one of the early observers who communicated that the Pamirs are fertile places where animals can become fat easily and their meat is very tasty.
- There is not just one Pamir, but several. Twelve Pamirs are identified, the majority in Tajikistan, followed by Afghanistan and China; and one in Pakistan.
- Announcement of the first road for motor traffic going through the high mountains was made in 'Pravda' in 1934, famously recognizing the Pamir Highway as "the road 5 kilometers high." This was the first major road system in these mountains – and the British competitors were envious. The Karakoram Highway was built by the Chinese as the Pak-China Friendship Highaway and opened in 1978.
- However, this area is not only an area of connections and communication it also is an area of separation. Over the decades, the Great Game between the British and Russian empires had its effect, and boundaries drawn around a century ago remain to this day.
- High fences were built during the Cold War, leading to the separation and independent developments in four neighbouring countries Pakistan, Afghanistan, Tajikistan, China.
- People of a same culture and speaking the same language were separated between the countries. Wakhi and Kyrgyz languages can be found in all four countries. Some migration does occur, but divisions and unique trajectories remain. The Pamirian mountains are a natural laboratory for the comparative study of sociocultural development.

Session 2. Pamirian Crossroads

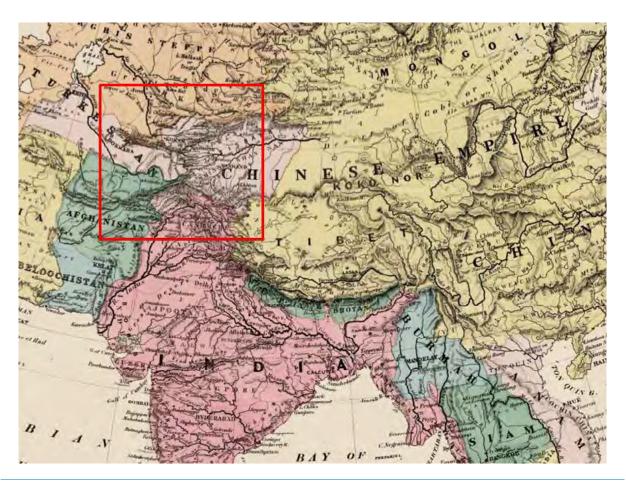


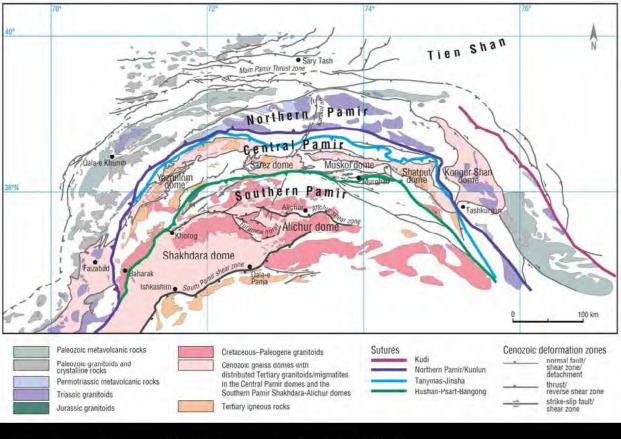
Памирский перекрёсток и новая инициатива <u>Шёлкового</u> путя

Freie Universität

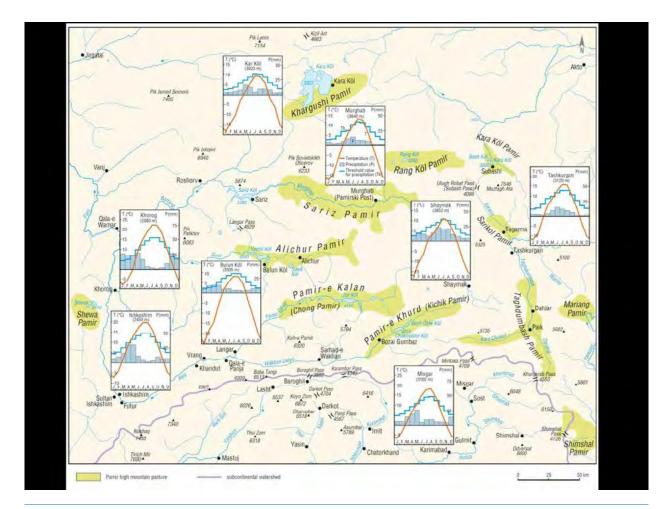


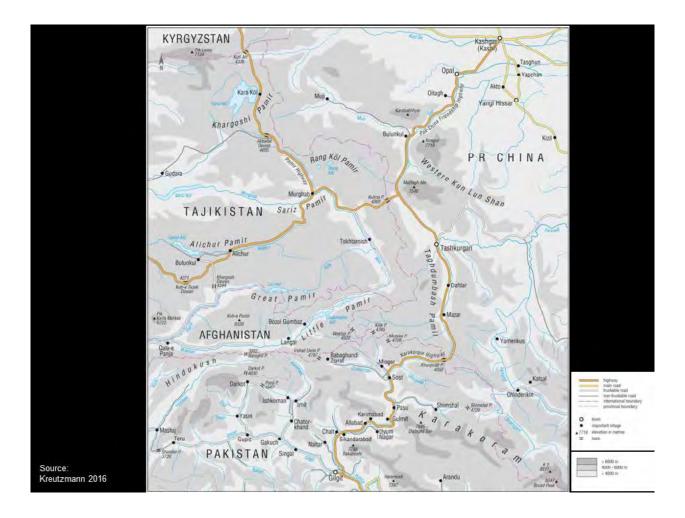


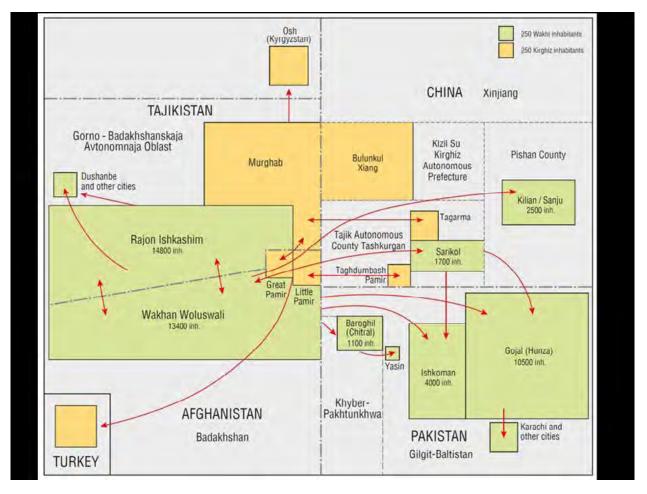




Source: Hermann Kreutzmann (2015: 155); based on James Mechie et al. (2012: 388)

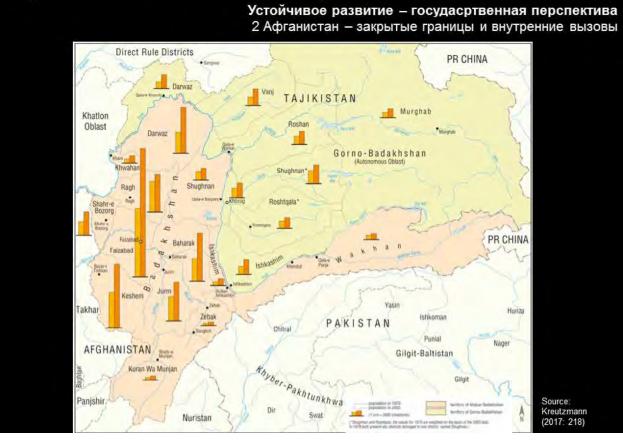








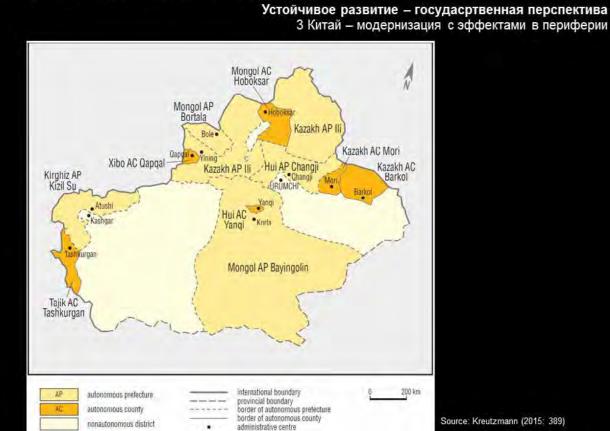
Sustainable development – country perspectives 2 Afghanistan – closed frontiers and internal challenges



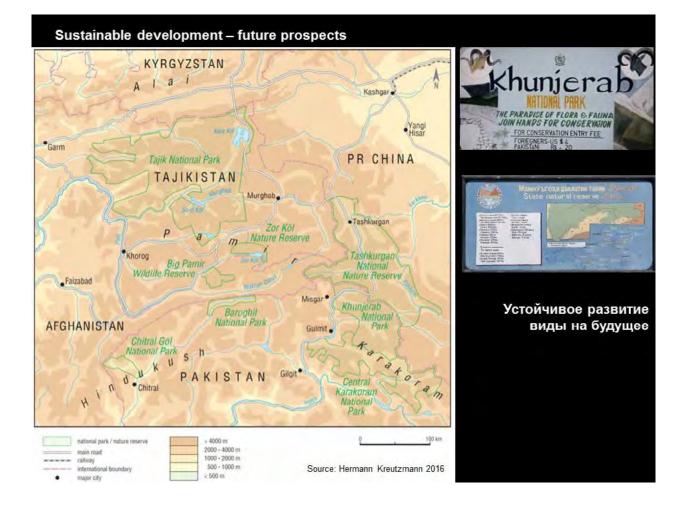
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Sustainable development – country perspectives

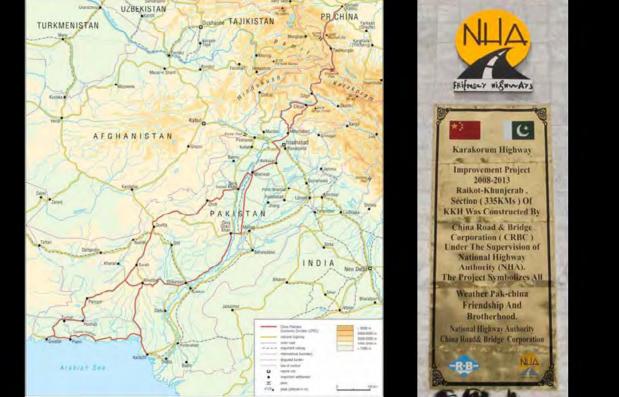
3 China - modernisation with effects in the periphery

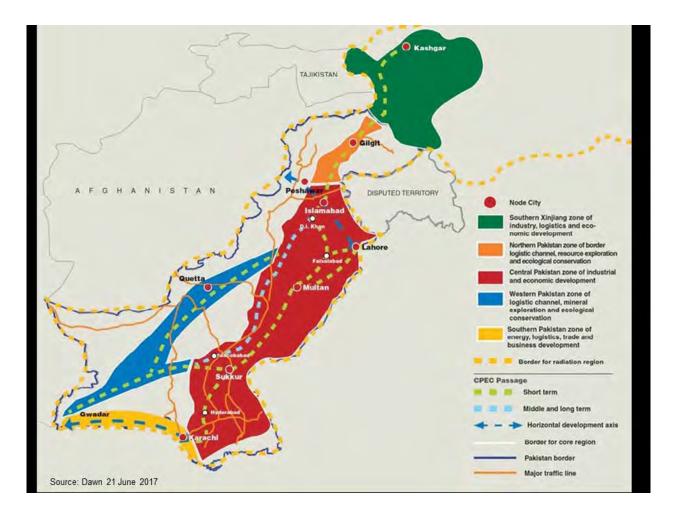






Sustainable development – future prospects The China Pakistan Economic Corridor – chances and constraints Устойчивое развитие – виды на будущее Экономический коридор Китай Пакистан – шансы и препяятствия







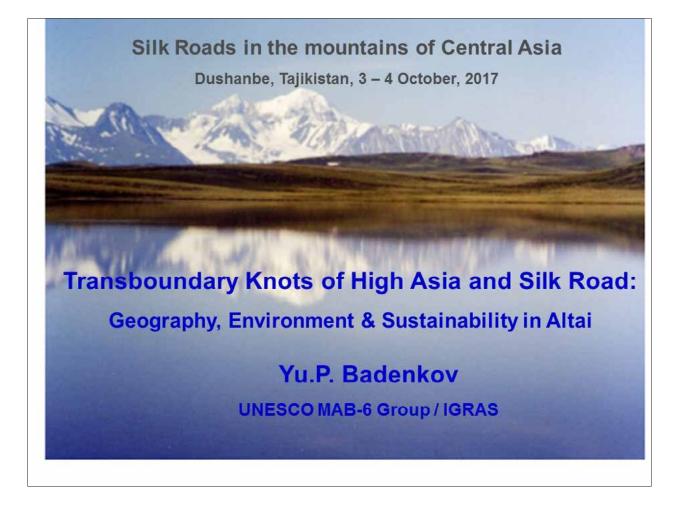
SESSION 3: THE SILK ROAD IN HIGH ASIA: GEOGRAPHY, ENVIRONMENT & SUSTAINABILITY IN ALTAI

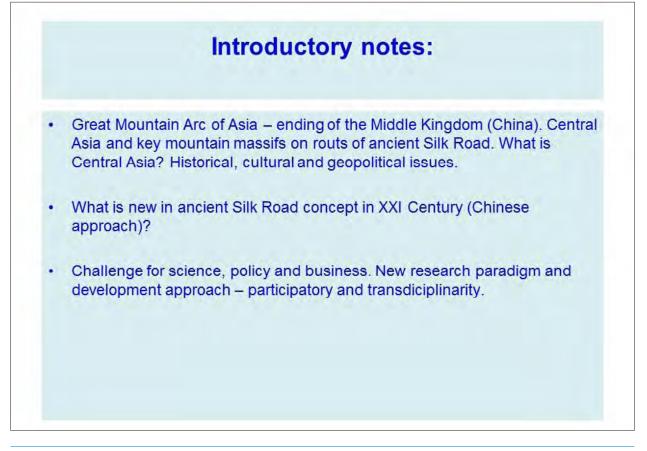
KEY SPEAKER: YURI BADENKOV

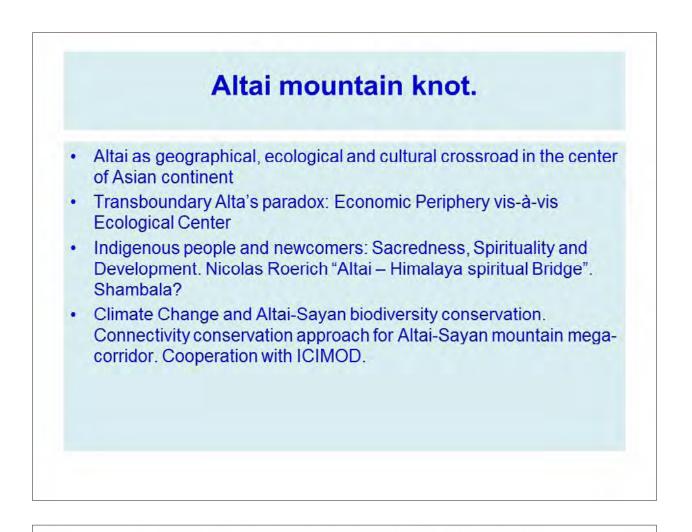
Key insights

- The 'Great Mountain Arc of Asia' connects all of Central Asia. Key mountain massifs are traversed by the ancient Silk Road linking histories, cultures, and geopolitical realities.
- Altai Mountains are a crossroads in the heart of the Asian continent, a 'knot' where many geographies, ecological zones and cultures meet.
- Transboundary Altai paradox: Altai as economic periphery, also as an ecological center. Indigenous people vs. newcomers: Sacredness, Spirituality, and Development.
- Climate change affects Altai-Sayan biodiversity conservation. Connectivity conservation approaches adopted for the Altai-Sayan Mountain ecoregion and mega-corridor.
- Situated in the heart of the huge "Eastern China Central Asia Economic Region" and "Continental Bridge Initiative" across Kazakhstan, Xinjiang, Mongolia, and Siberia.
- Russian response to the Chinese "Continental Bridge" through sacred Altai Mountains:
 - 1. Altai Convention proposed as a transboundary interstate legal mechanism for regional cooperation and development
 - 2. Altai Transboundary Biosphere Reserve created as territory for cooperation in nature protection and development issues
 - 3. International Coordinating Council established in 2003 under the name "Our Common Home, Altai" to serve as platform for regional cooperation of scientists, policymakers and NGOs. The Urumqi Conference for Strategic Development of Central Asia took place in 1998.
- The concept of an Altai 'continental bridge' for transportation and as economic corridor was later proposed to be transformed into a gas pipeline (construction not yet realized)
- The UNESCO Transboundary Biosphere Reserve "Great Altai" (bilateral, Russia and Kazakhstan) was established at 2017.
- Transboundary tourism is also under negotiation.

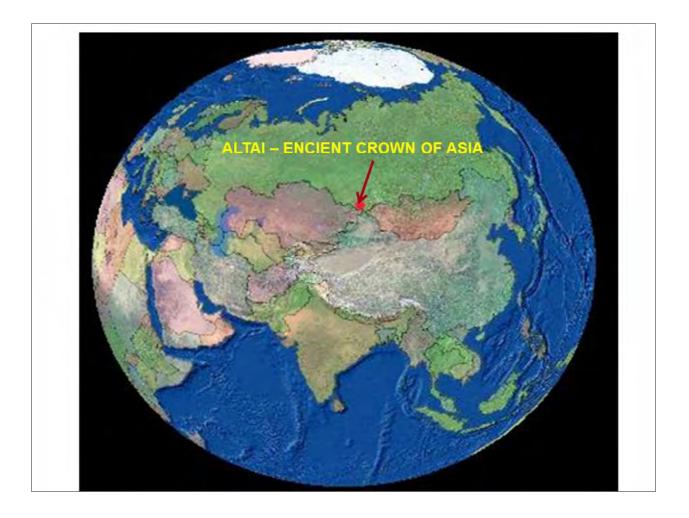
Session 3. The Altai Region





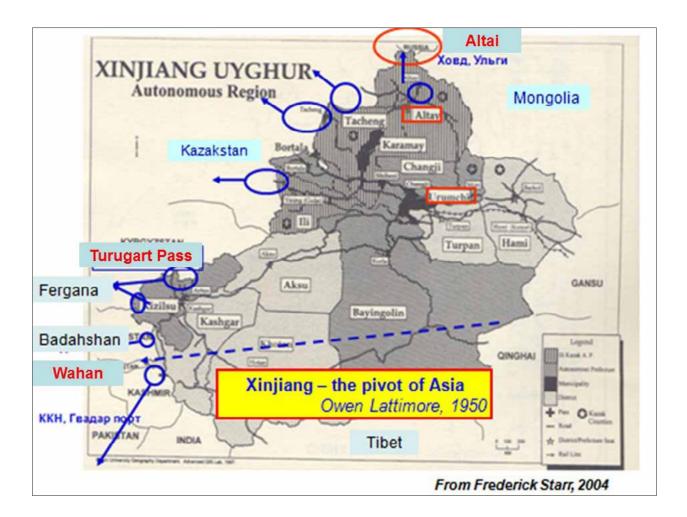


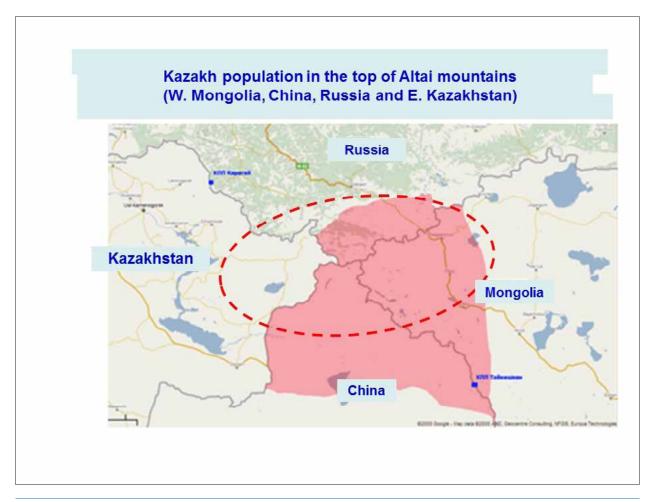




ASIA GREAT MOUNTAIN ARCH Regional continental context



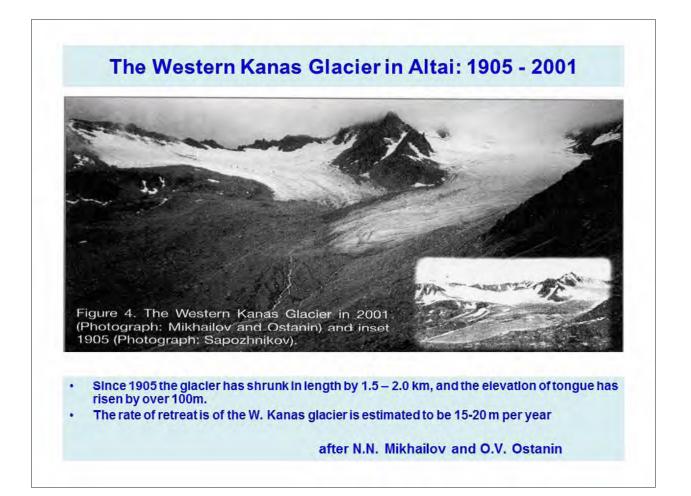


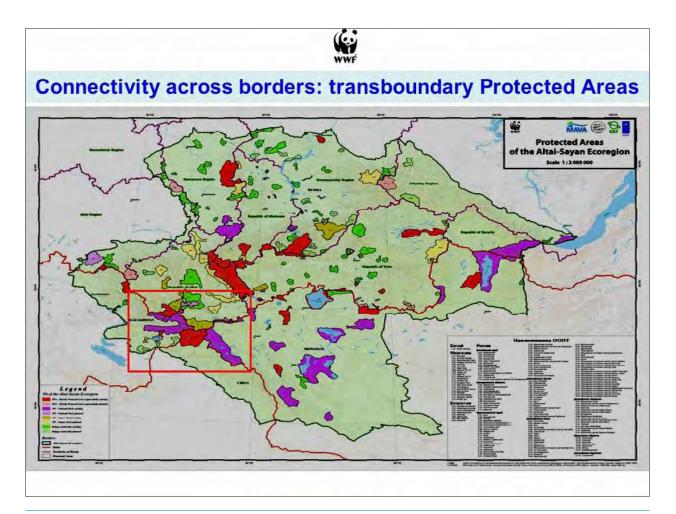


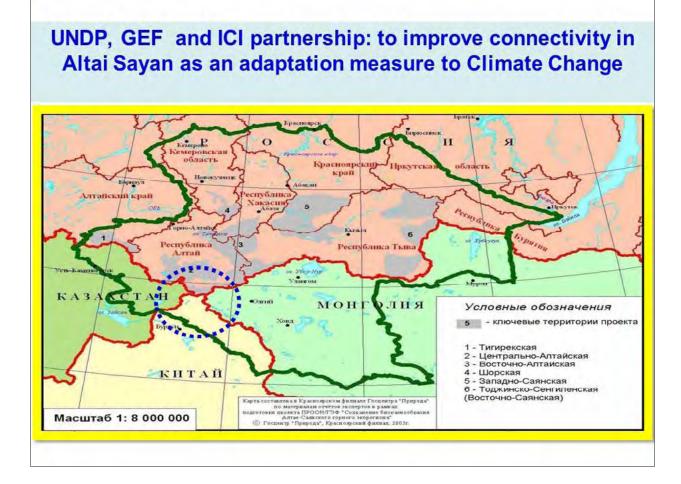


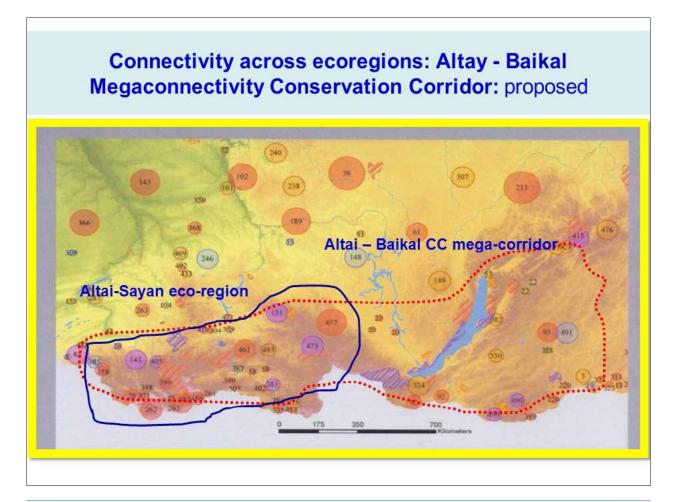
Climate change, connectivity conservation and UNESCO Biosphere reserves as in situ observatories



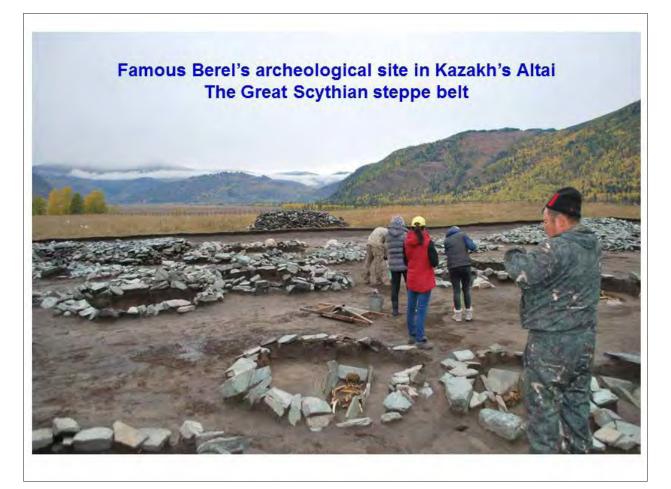




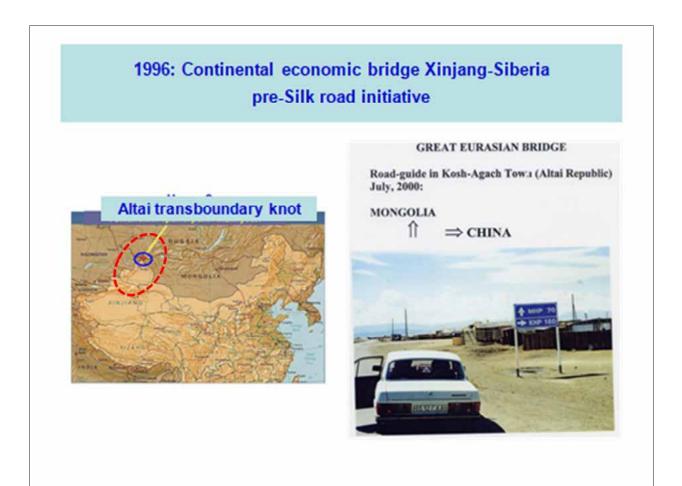


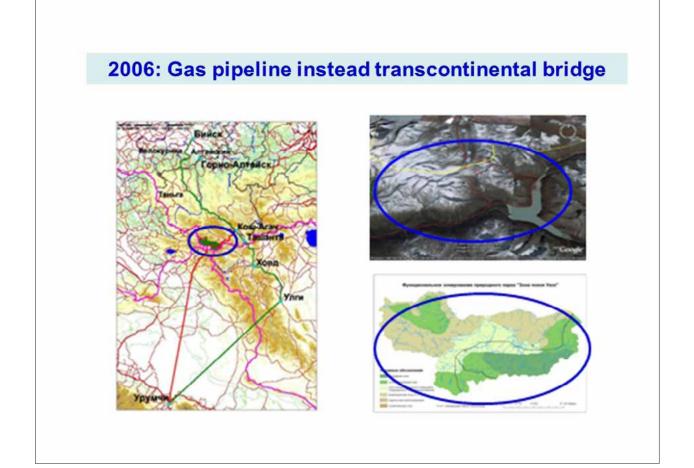




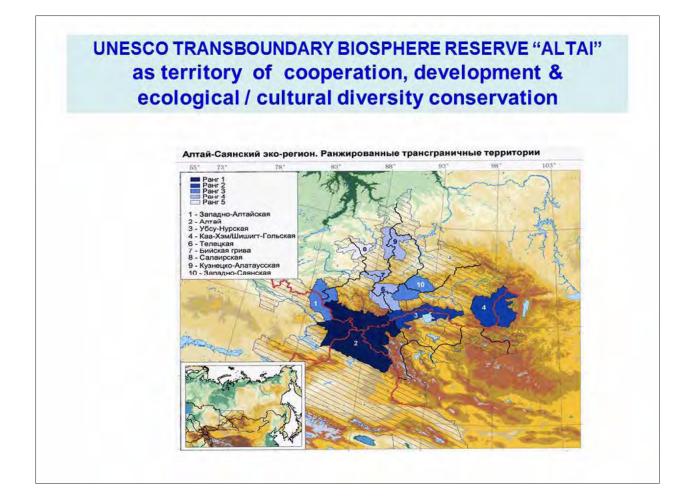








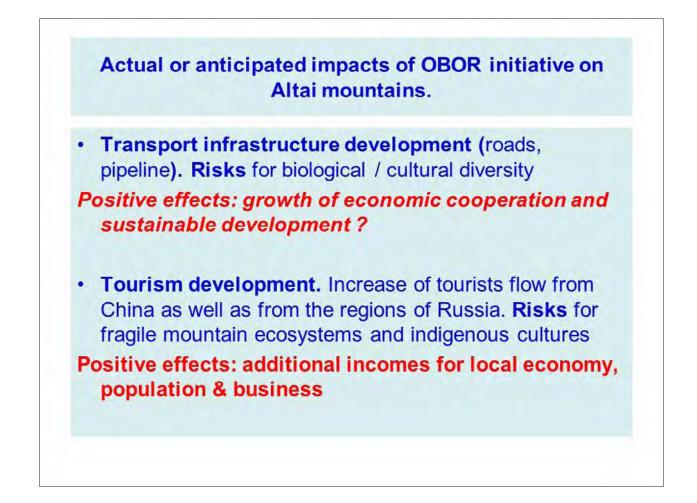












IV. Perspectives & Proposals for sudcussions

Expected outcomes of Workshop:

- · Proposals for research education, practice cooperation.
- The book "Silk Roads 21 in the Mountains of Central Asia (Altai, Pamir, Tien-Shan)" writing (2018-2019?)
- Regional mountain UNESCO BR Network development
 as research / education in situ institutions for OBOR
- Mountain Silk Road 21 OBOR website / portal creation (based in IMSR UCA?)

SESSION 4: THE ROLE OF LANDSCAPE AND POLITICS OF INFRASTRUCTURE FOR CHINA'S NEW SILK ROAD PROGRAMME IN CENTRAL ASIA

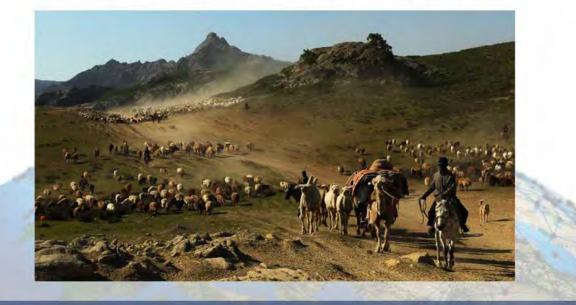
KEY SPEAKER: TROY STERNBERG

China's \$1 trillion One Belt, One Road (OBOR) infrastructure project has significant landscape, socioeconomic and political implications in recipient countries. To date investigation has focused on Chinese motivation and plans rather than OBOR impact in host nations. This paper examines the programme from the perspective of two Central Asian states - Kazakhstan and Kyrgyzstan – that are at the heart of OBOR. We identify geographical factors that constrain infrastructure, recognise geopolitical contestation between Russia and China, address historical and cultural factors and consider issues of institutional capacity and marginality that may be impediments to China's initiative. The discussion then focuses on how OBOR may play out in Central Asian landscapes and suggests how to conceive and address the unprecedented transformation in the region's built environment. Critical issues are that OBOR has not been grounded in the physical geography, practical understanding of OBOR's impacts is missing and the state-citizen-China nexus remains unexplored. As pivot nations OBOR implementation in Kazakhstan and Kyrgyzstan will showcase the Chinese programme's strengths and highlight its weaknesses.

Key insights

- Infrastructure is threatened by climate change, posing national crises.
- Important to know what is being built, and what citizens and communities want. Overall, citizens of all countries within OBOR want railways, water, education, health, electricity.
- In terms of development, both rural and urban communities must be considered. How development is achieved will strengthen and empower, or damage, local communities.
- Great significance should be placed on culture, religion and customs in OBOR countries.
- Regarding governance, the fundamental question is whether OBOR will help or hinder efficient and equitable decision-making in regions and countries. There are three main indicators: government forms or structures; their capacity to deliver services; and the strength (or weakness) of the state apparatus.
- What types of institutions are involved in OBOR-related decisions, and what direct or indirect benefits are anticipated from OBOR infrastructure development projects?
- Five main aspects of national development must be considered to answer the question above: state and civic society; post-soviet state security; economic development; social development and services such as education and health; and border custom processes.
- Do Chinese and Central Asian socioeconomic interests align? The Chinese government has the following vision: the investment of 50 billion USD in Central Asian trade. It needs resources; it has excess industrial capacity. Investment in tourism also is anticipated.

Central Asia on the New Silk Road: infrastructure, geography and society



SCHOOL OF GEOGRAPHY AND THE ENVIRONMENT

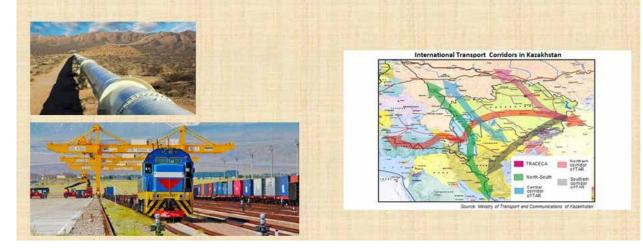
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OXFORD

Troy Sternberg School of Geography University of Oxford

Host nation context

- •Geography
- •Society people, livelihoods, communities
 - institutions, governance
- •Infrastructure and geopolitics
- •Outcomes CPEC in Pakistan



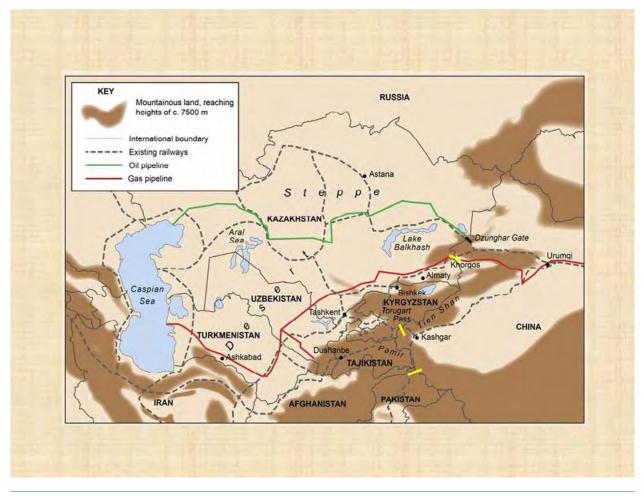
Context 'New Silk Road'

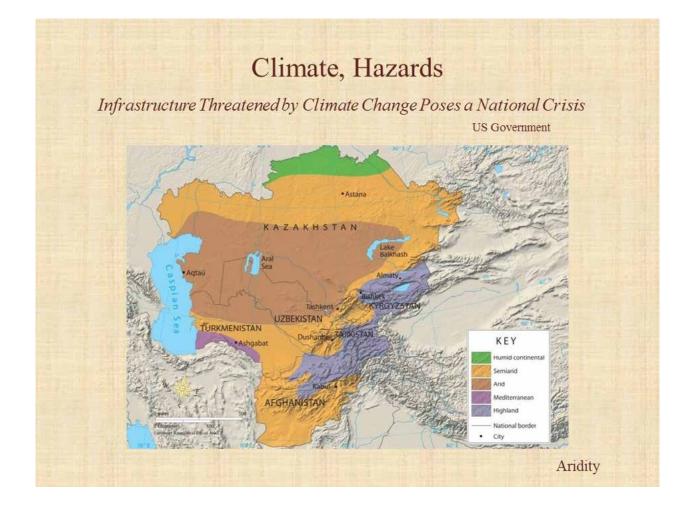
• \$1 trillion infrastructure supernova

• Many motivations, different perspectives

Reason	Citation	
Internationalisation of the Yuan	Chatham House (2016)	
Infrastructure development in Asia	Lim 2016	
Consume overproduction, overcapacity, excess products	Lim 2016	
Reduce unskilled unemployment in China	Tang 2015	
Improve regional transport links	Lain and Pantucci 2015	
Gain access to natural resources, oil, gas	Tang 2015	
Increase Chinese soft power and good will	Sidaway and Woon 2017	
Foreign policy initiative	Lim 2016	
Sino-centric unipolar Asia	Sulekha 2017	
Road to empire	Financial Times 2017	
Benefits of development and prosperity	Sidaway & Woon 2017	
Enhance Chinese social stability and security	Rolland 2017	
Central Asia as "key areas" for China's national energy security	Rolland 2017	
Integrate Eurasian continent by 2050	Rolland 2017	

Strong message, poor explanation

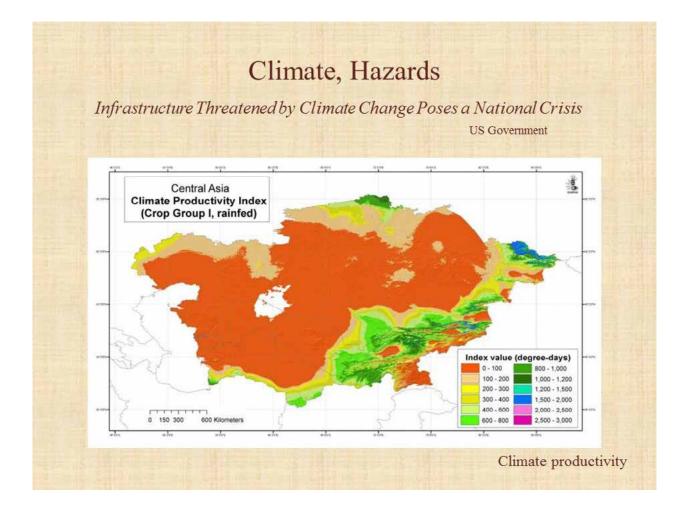


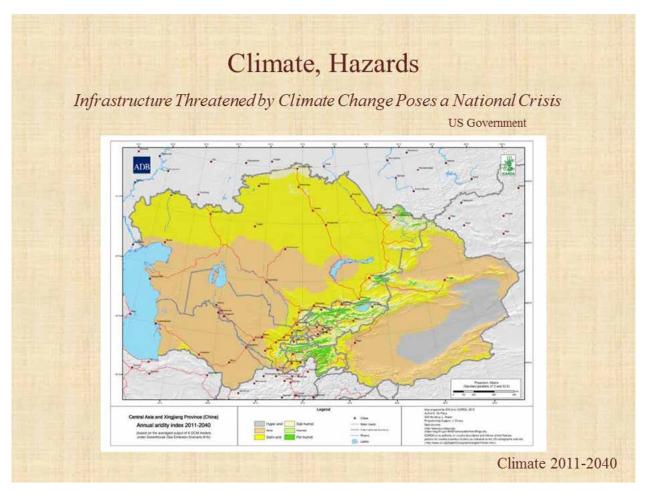


Climate, Hazards

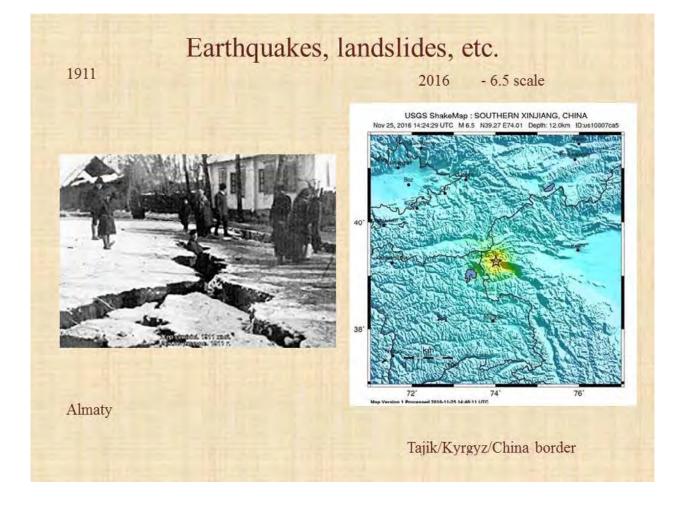
Infrastructure Threatened by Climate Change Poses a National Crisis US Government

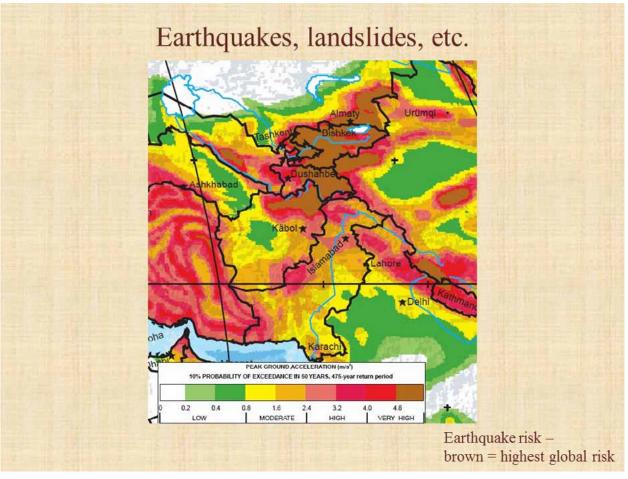
	Kyrgyzstan	Kazakhstan
Border with China - km	1063	1,765
Elevation, metres - mean	2,988	387
Temperature, annual mean	5	2.2
Precipitation, annual mean	375	275
Deserts - %	10	>80
Arable land - %	6.7	8.9
Agriculture - % of water	93	66
Population density, km ²	27	6

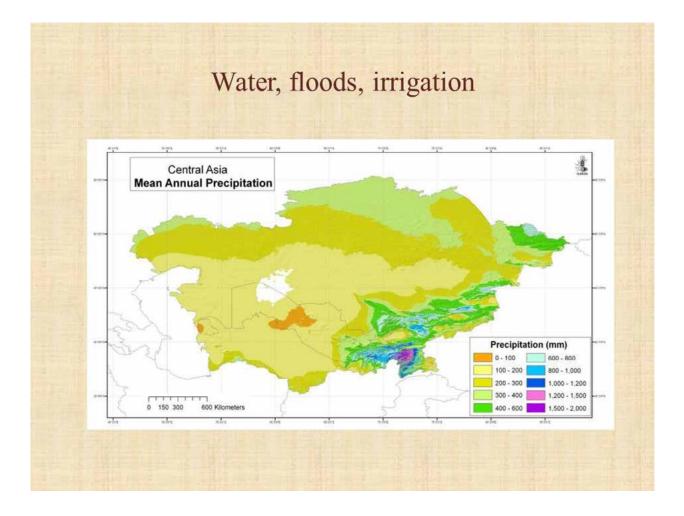


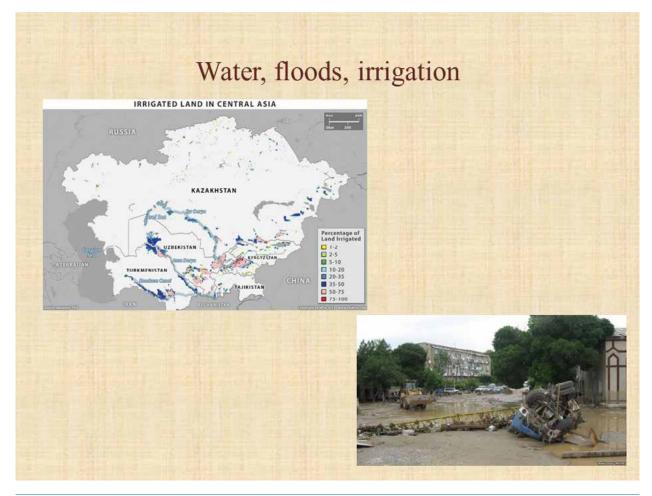


Proceedings of the SILK ROADS IN THE MOUNTAINS OF CENTRAL ASIA Workshop (Dushanbe, Tajikistan; October 2017) 52

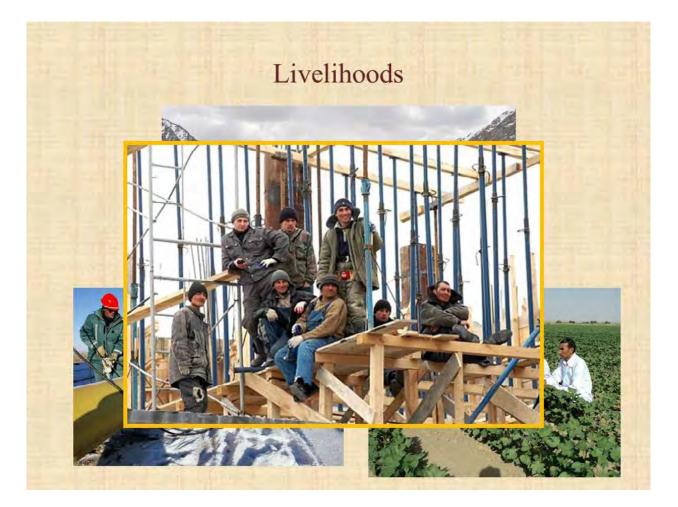








Proceedings of the SILK ROADS IN THE MOUNTAINS OF CENTRAL ASIA Workshop (Dushanbe, Tajikistan; October 2017) 54



Community

• What is being built?



• What do citizens want? Railways, water, education, health care, sanitation, electricity....

Community

- Rural vs urban enhance or damage local development
- Farming, livestock, service low industrialisation





• Culture, heritage, religion, custom

Governance

- Government form and structure
- · Capacity to deliver service
- Strong or weak state apparatus



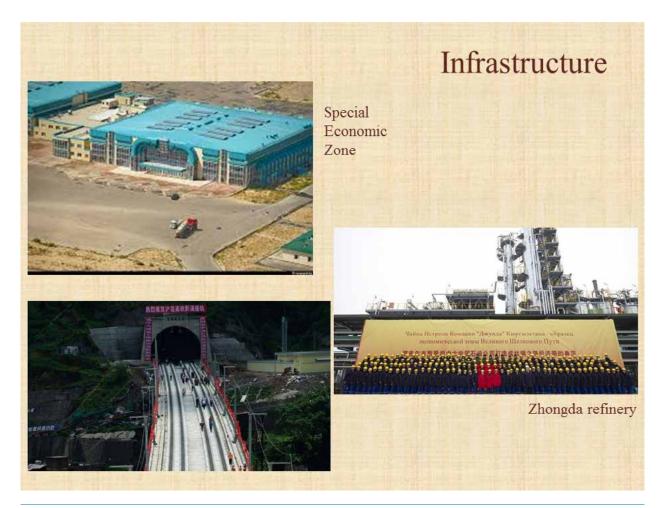
Does OBOR help or hinder governance?

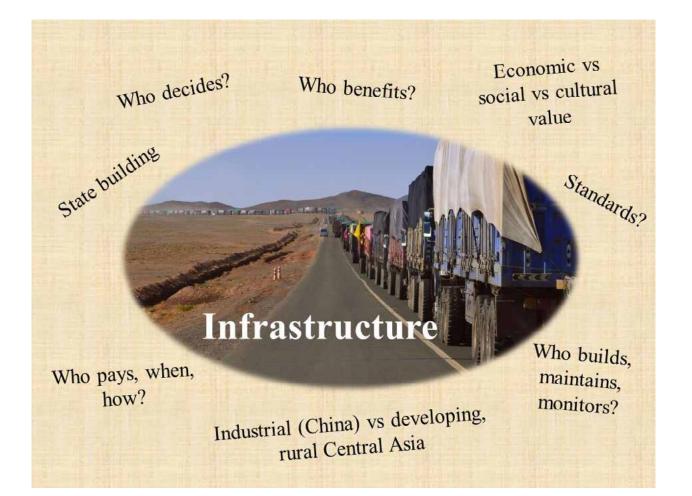
Institutions

- State and civic society
- Post-Soviet, state security
- Economic development
- Social benefits education, health
- Challenges example Customs 28 days



• Direct infrastructure for what benefit?





Past and future projects

Country	Project	Cost - US \$	Year signed/ implemented	
Kazakhsta	Zhongfu Investment Group into oilseed processing	\$1.2 billion	2016	
Kazakhsta	1 MangistauMunaiGas (50%)	\$2.6 billion	2009	
Kazakhsta	Kazakh portion - Central A sia-China gas pipeline	\$6.7 billion	2009	
Kazakhsta	Ekibastuz GRES-2 Power Plant	\$400 billion	2016	
Kazakhsta	1 Kazakhstan-China Oil Pipeline	\$3 billion	2006	
Kyrgyzsta	1 Zhongda Oil Refinery	\$430 million	2013	
Kyrgyzsta	Kyrgyz portion - Turkmenistan-China gas pipeline	\$1.4 billion	2016	
Kyrgyzsta	North-South Highway	\$400 million	2013	
Kyrgyzsta	1 Thermal power plant	\$386 million	2014	

Tang/FMSO 2015; see additional references

Caspian to China link

Cooley 2016

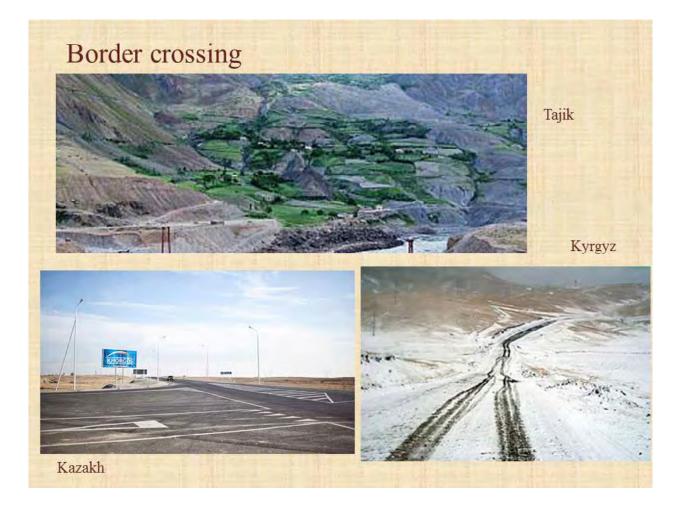
High-speed rail

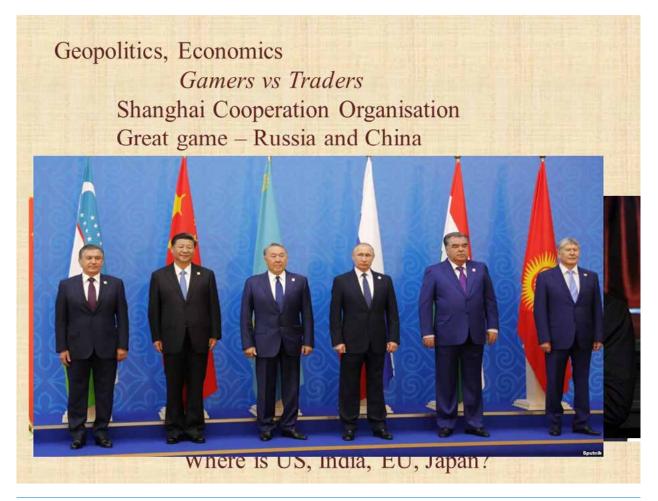


Kazakhstan China Central Asia West Asia corridor China to Iran rail link

Kazakhstan Khorgos-Aktau railway

Kyrgyzstan China-Kyrgyzstan-Uzbekistan railway



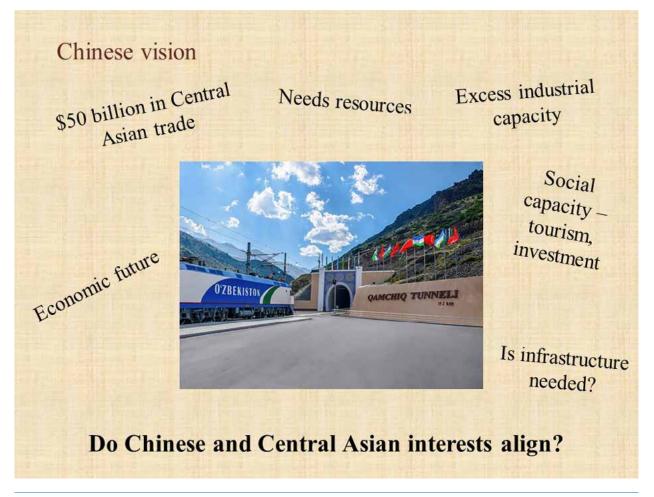


Russia

- Political, military, economic, culture
 - * language* media citizens, migrants
- Eurasian Economic Union EEU binding obligations
 - 'sphere of influence'



• Historical legacy



OBOR also means...

- Hambantota, Sri Lanka
 - world's emptiest airport, debt 90% budget
 - more elephants than people
- CPEC Pakistan
 - 30,000 soldiers guarding Chinese infrastructure
 - Insurgents kill Chinese workers
- Zhongda Refinery
 Kyrgyzstan



Outcomes: +/-

- 0.1-0.7 increase GDP
- Efficient fast build
- New infrastructure
- May integrate states/ neutralise differences (Afghanistan)
- bridge between the world's largest markets

- · Land, food grab
- Narco-trafficking
- 50% build is 'unproductive assets'
- Customs 28 day
- Environment
- Corruption

 30% Central Asia, 80% Pak.
- National debt

China conundrum

- Soft power vs hard power
- · Presentation, 'hearts and minds'
- One way or two way flow of goods, resources, people
- Short term vs long term
- Infrastructure amongst equals or vassals
- Sinophobia 'why don't locals like us'
- Pakistan violence integration or disintegration?

	ndhel Kongdon tupped a 30-county soft power index released by Parkand Communications. China rame last Phil nd Communitions
Harts	+ Kogitught 1 Community
R.	p(2), 2779 that
	espite huge investment, China ranks dead st in soft power
	Mel geoppe like the <u>Son III</u> to see what your Standar like.
Whe	n American púlitical scientist Joseph Nye says China's soft power is limited, he isn't kidding
	a ranked dead last on a 30-country index of soft power released last week by Portland munications.



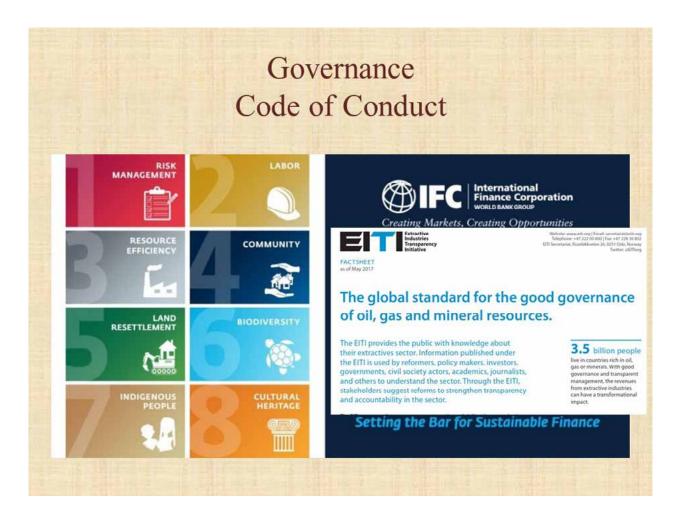
Challenges

- · Country and community buy-in
- Relevant and altruistic vs pass-through and exploitive
- Perceived environmental degradation
- Cultural insensitivity
- Corporate Social Responsibility
- Standards

World Economic Forum, 2015

- Discussion and complaint mechanism

Xi - 'win-win'



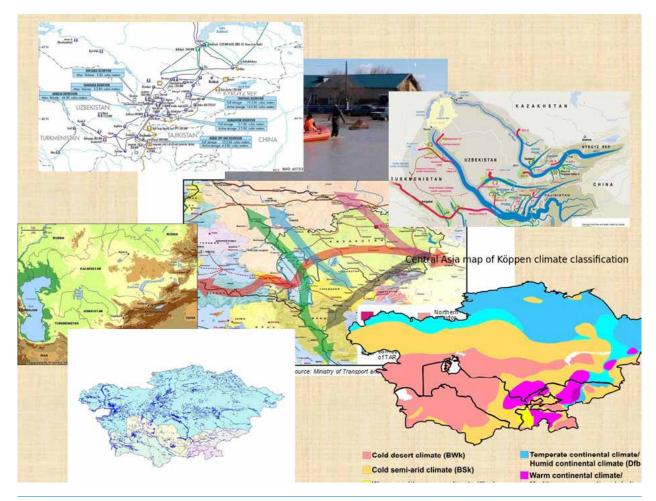
OBOR Quotes

- Xi: "a great undertaking that will benefit peoples around the world"
- "It's an ambitious project, the UK is the world's financial centre, so London should play an important role," UK government
- Central Asia was a "richpiece of cake given to today's Chinese people by heaven"

"Central Asia should thus be regarded "as territory to be recovered in our advance, not as a border region" PLA General Liu Yazhou

- Xi: "What we hope to create is a big family of harmonious co-existence,"
- 'The "One Belt, One Road" initiative can be seen as a reversal of the course of history with a Chinese power that is not only interested in its own development, but which asks what it can do for the rest of the world.'
 J. Di Meglio, Asia Center, Paris
- Discourse Analysis improves with distance





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Other Presentations

Presentation 1.

Scientific cooperation linking Gansu, China, with Tajikistan and Central Asia

Speaker: Ruijun Long

Key insights

- The 'One Belt One Road' (OBOR) Initiative includes two component parts, the 'Silk Road Economic Belt' (on land) and the 'Maritime Silk Road.' It is a major development initiative of the 21st century and is recognized by the UN and over 100 countries and international organizations.
- The 'Belt and Road' stands for peace and cooperation, openness and inclusiveness, mutual learning, and mutual benefits.
- There are five main elements in the OBOR Initiative: (1) Policy, (2) Transport, (3) Trade, (4) Currency, and (5) People.
 - The Policy element includes strategies and policies on economic development, plans and measures for cooperation, and regional economic integration.
 - The Transport (or Roads) element includes primarily necessary improvements in crossborder transportation infrastructures, aiming to create a road network that links between Asia's sub-regions and connects Asia with Europe and Africa.
 - The Trade element addresses issues of trade and investment, including facilitation of trade by removing barriers to trade and investment and by promoting economic circulation and unleashing trade and investment potential.
 - The Currency element includes the promotion of greater trade settlements in local currencies and encouragement for development of currencies exchange schemes.
 - The People element will promote international dialogue and exchanges in support of education, cultural awareness, scientific development, and other study tours.
- Gansu is situated in the heart of China and has a long history of Chinese civilization. In many ways, the population, climate, and landscape of Gansu are similar to countries in Central Asia, especially Tajikistan.
- A collaboration between Gansu, China and Tajikistan was approved in 2017, specifically between Gansu Institute of Business Technology (GIBT) and Academy of Sciences of Tajikistan (AST), with focus on Food Quality, Safety Inspection, and Testing Technology, with construction of a Platform for Building the Silk Road Economic Belt. Initial projects agreed include an artichoke processing project, supported by Gansu Province, China.
- The two parties also aim to collaborate on the development of water-saving farming and livestock industries, agriculture, seeds, food processing and value-add; small farming machinery, family-based biogas units, and cold water fisheries.



B&R scientific cooperation: linking Gansu Province of China and Central Asia-Tajikistan

Prof. Ruijun Long 龙瑞军

International Centre for Integrated Mountain Development, Kathmandu, Nepal Arid Agriculture and Ecological Rehabilitation Engineering Research Center, Ministry of Education, China Email: <u>Ruijun.long@icimod.org;</u> Longrj@lzu.edu.cn

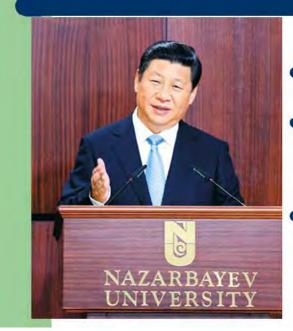
3 Oct. 2017 Dushanbe



11th century world trade The Silk Routes (Song Dynasty)



The One Belt one Road Initiative



- By President Xi Jinping
- Sept. 2013, Silk Road in

Kazakhstan

Oct. 2013, Maritime Silk
 Road in Indonesia





Five Links



- Policy
- Road
- Trade
- Currency
- People







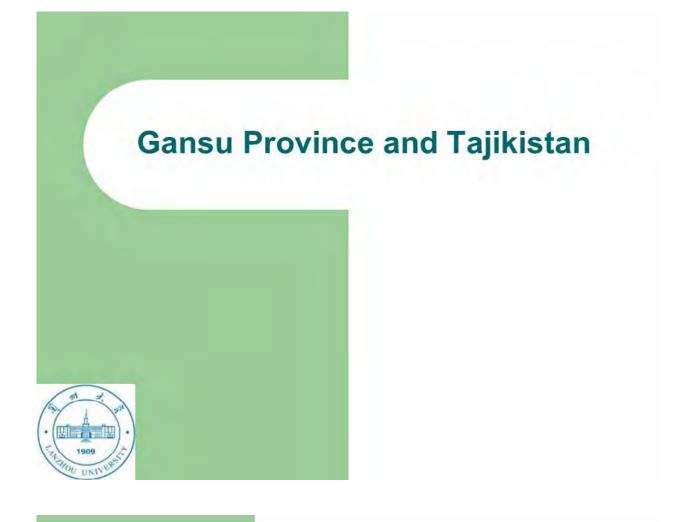


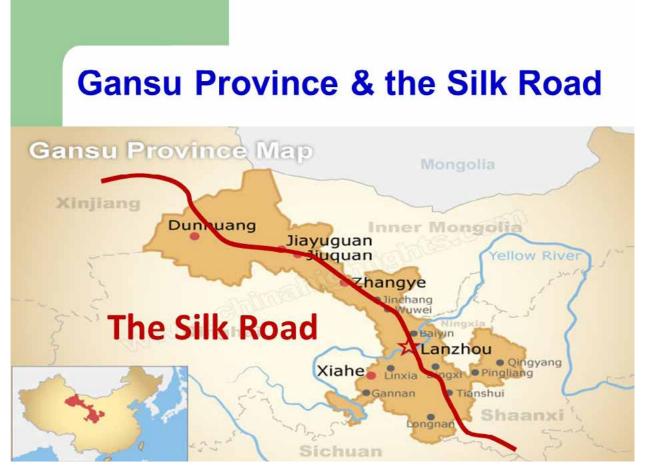
Build the Belt and Road into:

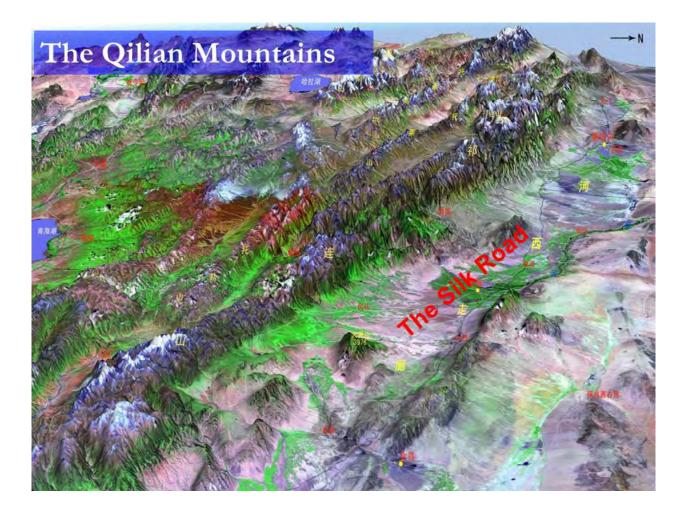
- A road for peace
- A road of prosperity
- A road of open up
- A road of innovation
- A road connecting different civilization

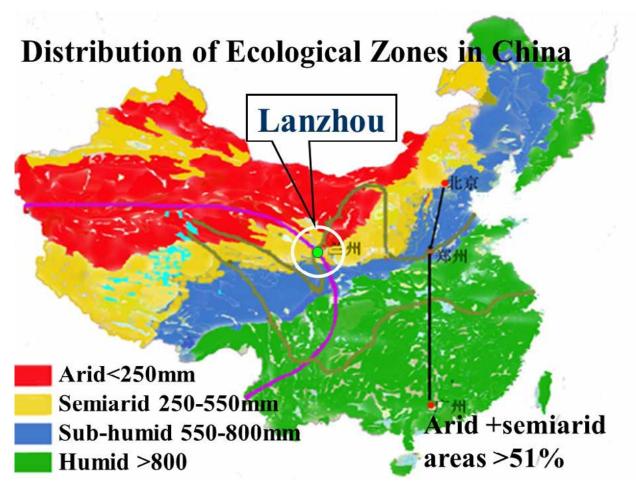
Over 10,000 scholarships every year

- Every year the Chinese government provides 10,000 government scholarships the relevant countries.
- China's local governments have also set up special Silk Road scholarships to encourage international cultural and educational exchanges.









Geographical Aspect of Lanzhou Area



The nature of Gansu Province

- Gansu is the earliest birthplaces of the Chinese nation and ancient Chinese civilization. The Fuxi and Shennong, who lived in Tianshui region, Gansu about 8000 years ago.
- Gansu is situated as geographical center of China, at a junction of the Loess Plateau, Inner Mongolia Plateau and the Qinghai Tibetan Plateau. Altitude: 500 to 5,800 m asl and annual precipitation: 36.6 to 734.9 mm and the annual average temperature: 0°C-14°C.
- Gansu spreads 425,800 km², with a population of 26 million (54 ethnics/56 ethnics in China). Hui nationality (Muslim) in Gansu is the largest one with a population of about 2 million.
- The climate and landscape in Gansu are similar to Central Asian countries (Tajikistan).

Research and education capacity in Gansu

- Over 582 research institutes and development organizations
- More than 34 Universities
- Overall Lanzhou University (LZU) is leading one. Also LZU is one key state universities and the best one in Northwest region of China

The priority fields developed in Gansu

- Dryland and highland agriculture: water-saving and oasis farming, livestock and poultry, mobile pastoralism, potato, fodder production (alfalfa and oat), off-season vegetables etc.
- Facility agriculture: vegetables, flower, edible fungi, fruits etc.
- Breeding and seed production: potato, corn, vegetables, fruits, fodders etc. and their processing,

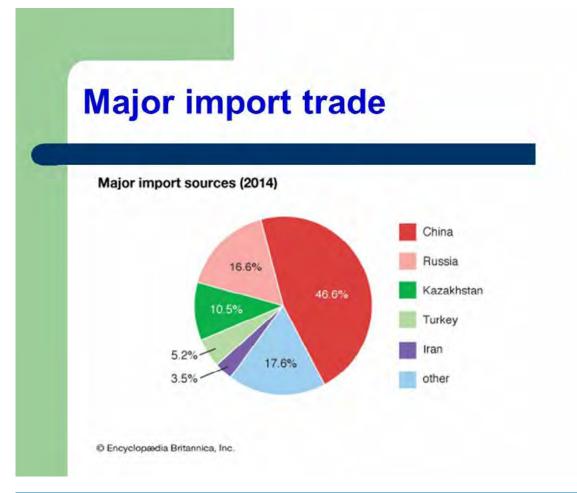
The priority fields developed in Gansu

- Mediational plants production and processing
- Cold water fishery breeding and production
- Food and Halal food processing and detection
- e-marketing, poverty alleviation
- Environment and hazard: desertification control, ecological restoration, nature hazard monitoring and control etc.
- Cleaning energy: hydro, solar, wind powers and biogas etc.
- Small farming machinery



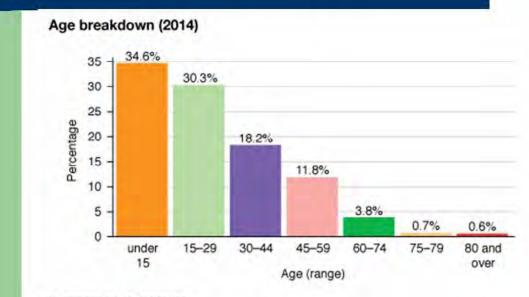
The nature of Tajikistan

- More than 90% of Tajikistan's territory is mountainous; about half lies 3,000 m or more asl.
- The climate of Tajikistan is sharply continental and changes with altitude. The temperature changes from July 27° C to -20° C In cold winters. Annual precipitation:150-250 mm.
- Population: 7.1 million, Area: 143,100 sq km Major languages: Tajik, Uzbek, Russian, Major religion: Islam



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Population stricture



C Encyclopædia Britannica, Inc.

Agriculture and light industry

Agriculture (Irrigation)

Farming activates: cotton, livestock, Gissar sheep, and goats, fruits, vegetables, wheat and barley apricots, pears, apples, plums, quinces, cherries, pomegranates, figs, and nuts

Light industry

 Cotton-cleaning mills, silk factories, knitted goods and footwear, tanning and sewing ect.

Food industry

 Processing fruits, various vegetable oils, tobacco, and geranium oil for perfume etc.

Metalworking industry

produces looms, power equipment, cables, and agricultural and household implements.



Scoping study in the HKPL region



A collaboration project has been approved in 2017

Between Gansu Institute of Business Technology (GIBT) and Academy of Sciences of Tajikistan (AST) on:

Food Quality & Safety Inspection and Testing Technology Innovation Cooperation Research and Platform Construction of the Silk Road Economic Belt

Including Artichoke processing project

Supported by Gansu Provincial Department of Science and Technology

Dry land agriculture and light industry

- Water-saving farming and livestock industry
- Facility agriculture
- Seed Industry
- Food processing/products-add-value
- Small Farming Machinery
- Family based biogas unit
- Cold water fishery



Integrated arid farming system supported by water-saving techniques





Potato breeding-production and processing in Gansu



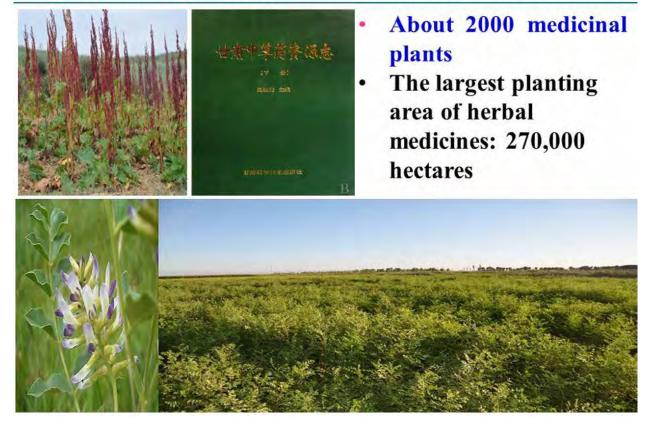
Products in the energy saving greenhouse: vegetables, flowers, fruits etc.

Facility agriculture





Medicinal Plant Resources in Gansu



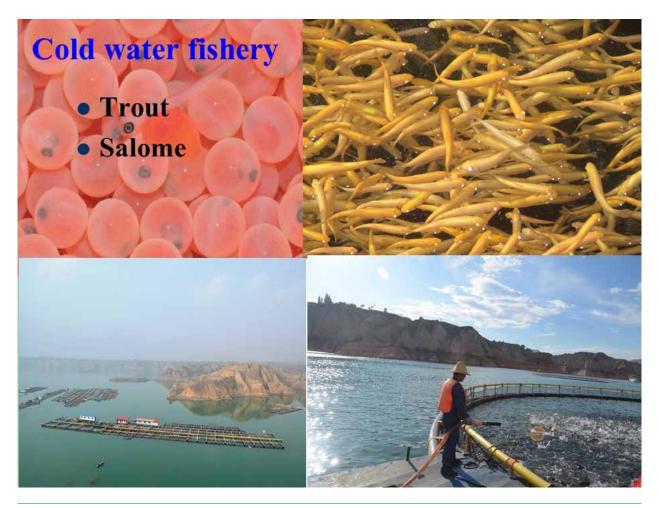
Medicinal Plant Collection

More than 30,000 specimens of medicinal plants









Presentation 2.

Beyond the Karakoram Range: Looking at six decades of road development in Ladakh and their impacts on mountain environment and societies

Speaker: Jonathan Demenge

Situated North of the Himalayas and South of the Karakoram, Ladakh was one linked to Kashgar, Yarkand and to the rest of the Silk Road and played a part in the Great Game. It was then considered a "crossroad of High Asia" and the gateway between Central and South Asia for some, or an impassable barrier for others. Today, clustered behind closed and contested "borders" with Pakistan and China, Ladakh is more regarded as a remote and isolated corner of India. From 1947 – when the first stretch of road up to Ladakh was built – until the present times, the development of the *roadscape* has had deep, complex, sometimes unpredictable and often contradictory impacts on the people, their livelihoods and their environment.

Located within the interdisciplinary field of political ecology, dwelling on an itinerant ethnography and a wide array of methods, the presentation will highlight some of the key findings of my research undertaken between 2003 and 2011. Grounded in the realities of Ladakh it will try to expose the complex and inherently political dimension of infrastructure development in a contested region. The presentation will identify some of the patterns of change linked to infrastructure development, and show how the road often works in association with other factors to spur socio-economic and environmental transformations that are sometimes resisted, often non-linear and always unequally distributed. Based on the geographically and historically situated case of Ladakh, it is hoped the presentation will provide some useful hints and a basis of comparison to questions raised during the workshop on the anticipated impacts of OBOR, in Central Asia and beyond...

Key insights

- A case study of road construction in Ladakh, India is presented.
- Ladakh is situated between the Karakoram and Himalayan mountain ranges. It is mostly dry cold desert, and its population, half Buddhist half Muslim, has been influenced by exchanges with Tibet, Central Asia, Kashmir, Persia, India and beyond.
- The first road to traverse Ladakh was opened in 1962, just prior to the Sino-Indian war.
- In Ladakh, it is said that the land and passes are so high, that its visitors are either its best friends or its worst enemies. This perception could sum up the political nature of road construction or the absence of roads in a contested place like Ladakh.
- Roads in Ladakh have influenced mountain communities in many ways: economically, culturally, socially, and ecologically. However, their effects are not equally distributed and not always self-evident, especially in terms of isolation and mobility.
- Non-irrigated land tends to have no value until the roads are built.

Beyond the Karakoram Range

Looking at six decades of road development in Ladakh and their impacts on mountain environment and societies

Jonathan Demenge

- 1. Situating Ladakh
- 2. Development of the Roadscape in Ladakh
- 3. The process of construction
- 4. Consequences of the road
- 5. Conclusions

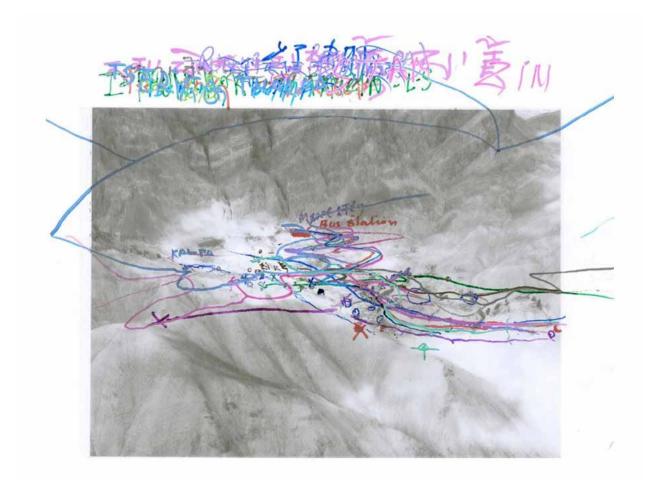




Roads and Nation-building:

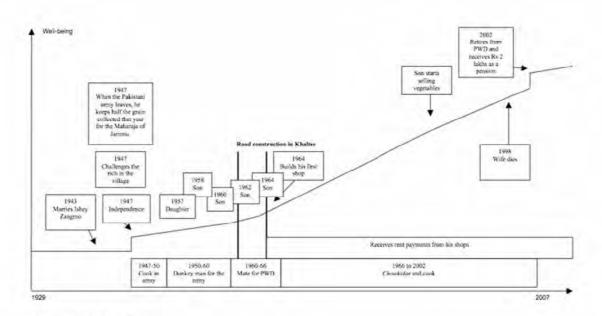
Roads as the "thread that binds the nation together" (Central Road Research Institute 1963; India Profile).





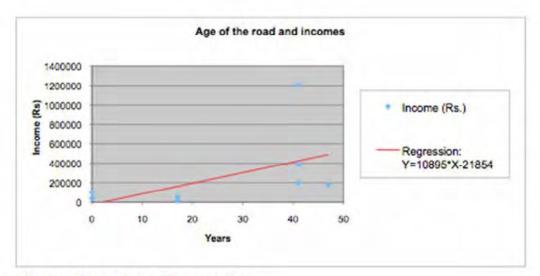




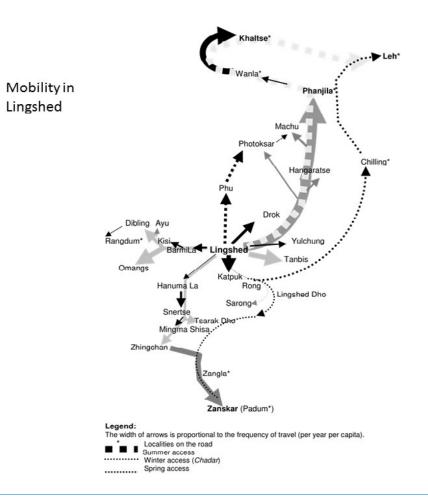


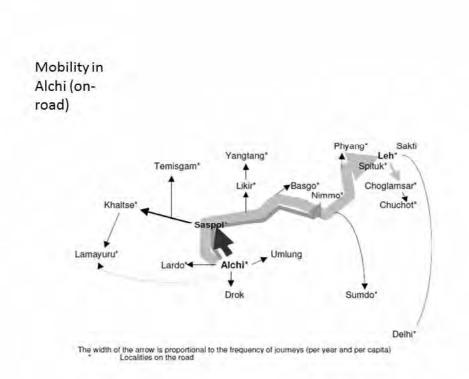
5.3. Memo Tashi's life history

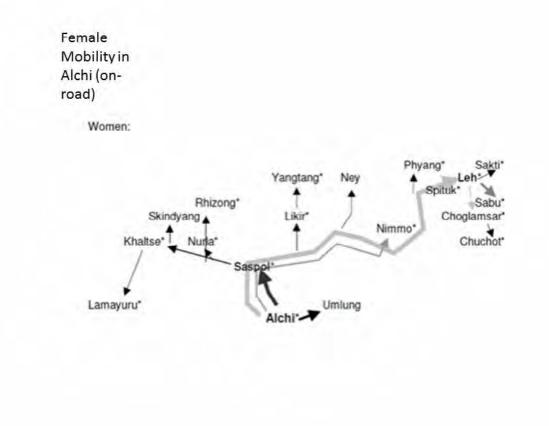




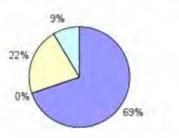
7.12. Age of the road and villagers' incomes





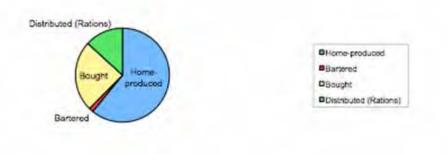


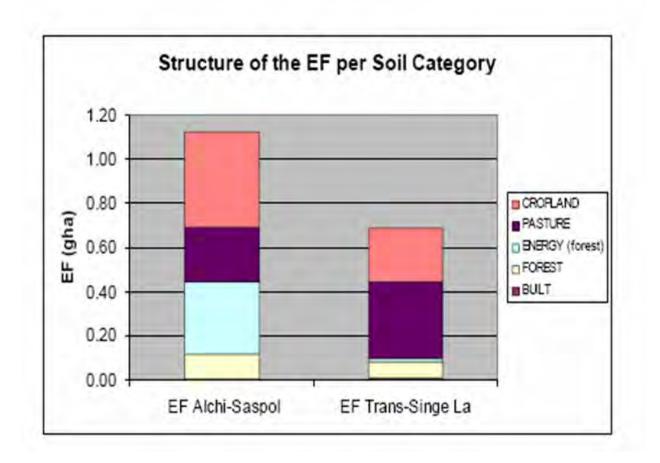




Home-produced
Bartered
Bought
Distributed (Rations)

Food consumption and mode of acquisition in Alchi





Presentation 3. Report on the China Pakistan Economic Corridor (CPEC) by AKRSP Pakistan

Speaker: Aziz Ali Dad

Key insights

- In the summer of 1931, the first motor vehilce crossed the Himalaya and entered Gilgit from Kashmir as part of the 'Trans Asiatic Harrdt Cintrogen Expedition.' The highest of the passes was over 14,000 feet above sea level, the Burzil Pass separating Kashmir and Gilgit (National Geographic Magazine, October 1931)
- The China Pakistan Economic Corridor (CPEC) is part of the large 'One Belt, One Road' Initiative and aims to enhance the connectivity, trade, communication and cooperation between the countries of Eurasia. CPEC was launched in April 2015 with the signing of 51 agreements and Memorandums of Understanding valued at \$46 billion USD.
- CPEC has much potential to improve the lives of the people and communities in Gilgit Baltistan. In order to increase the chances of success, the following recommendations are made:
 - Communicate governmental policies, programs, and projects regularly among stakeholders at all levels;
 - Make arrangements for encouraging and promoting small to large investments, publicprivate partnerships, and forums to facilitate investors, natural resources management and planning, and mergers to compete with Chinese market;
 - Build capacities at the grassroots level, including promotion of an entrepreneurial culture, strengthening the institutions (school and colleges), skills development, technical trainings, and introduction of new courses to help meet challenges of contemporary world;
 - Undertake public awareness campaigns on benefits and opportunities of CPEC;
 - Promote policy changes to attract investments, improve the business environment, protect local interests, improve infrastructures, reduce unemployment, educate the labor force, and improve access to credit;
 - The Government of Gilgit-Baltistan (GB) should formulate adequate legislation and regulations for potential or emerging sectors such as power-generation, tourism, manufacturing, mining, and trade;
 - Additionally, the federal Government must ensure proper decisions about issues of identity and basic rights for the people of GB, including proper representation of GB in the National Assembly and Senate;
 - Collaboration between regional universities is also to be encouraged.
- Ultimately, development projects in GB must meet growing demands for energy, water, and resources. Together with processes of urbanization, such developments will have an impact on environment and culture. Carefully developed management plans are needed for sustainable development.

Presentation 3. China Pakistan Economic Corridor

'If "One Belt, One Road" is like a symphony involving and benefiting every country, then construction of the China Pakistan Economic Corridor (CPEC) is the sweet melody of the symphony's first movement." China's Foreign Minister, Wang Yi

Horizons of CPEC in Gilgit-Baltistan



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Silk Road Historical Perspective

- Gilgit-Baltistan conduit for Central and South Asia
- Russian and Chinese Revolution
- Construction of KKH
- Informal trade Kilick Mintika, Chipurson
- China Pakistan Economic Corridor (CPEC)





Rock carvings in Chilas, Gilgit-Baltistan

Part of the Baltit-to-Gulmit trail hangs in mid-air. This picture must be from August/September 1931 taken between Baltit and Gulmit.



In the summer of 1931 the earliest motor transport crossed Himalaya and entered Gilgit Agency from Kashmir. It was brought by Trans Asiatic Harrdt Cintrogen Expedition' over the 14,000 feet high Burzil Pass between Kashmir and Gilgit. (Published in October 1931's National Geographic Magazine)



THE FIRST CAR NEARS THE SUMMIT OF BURZIL PASS



Arrival of jeep in Gilgit. 1950

Locals welcoming Chinese working arrival for constructi on of Karakuram Highway (KKH)



Contemporary Gilgit-Baltistan

- Liminal status of Gilgit-Baltistan
- Crumbling tradition and unstable modernity
- Generation gap
- Uprooting of trained workforce
- Consumerist culture
- Lack of entrepreneur class



- Announced in 2013, CPEC is part of the larger One Belt One Road (OBOR) Initiative; to improve connectivity, trade, communication, and cooperation between the countries of Eurasia
- CPEC was formally launched in April 2015, with signing of 51 agreements and Memorandums of Understanding valued at \$46 billion
- The corridor constitute an array of different energy projects, transportation/infrastructure networks, and economic free zones within Pakistan
- Components of CPEC
 - \$ 33.8 billion (or 72%) investment towards energy-resource development, including renewable, gas and coal electricity generation
 - \$11 billion (or 24%) is directed toward enhancing Pakistan's transportation infrastructure, including highways and railway networks
 - Special Economic Zones (SEZs) and communication infrastructure



Horizons of CPEC

- Broadening of horizons
- Understanding of Chinese mindset
- Communication and knowledge corridor
- Fears of openness and change
- Resilience of community
- Integration of academia, policy/decision makers and communities
- Interface between infrastructure and soft initiatives
- Knowledge society
- Local horizon of continental project
- CPEC and Civil Society



Social/Environmental Dimensions

- Social and political liberties
- Inclusion of the local community
- Giving voice to population of Gilgit-Baltistan
- Safeguarding the local interests
- Awareness and advocacy
- Peace and security
- Protection of culture and heritage
- Health and education
- Protection of natural resources
- Climate change mitigation
- Environmental impact of the CPEC projects



Economic Aspiration and Concerns

- Opportunities for Businesses and Investments
- National and international partnerships
 - Improved administrative and legislative framework
 - Strategies for the Government
 - Legal process for business and international trade
 - Skills Development
 - Financial resources for trade and commerce
 - E-commerce and information technology
 - Transportation infrastructure
 - Inclusion of local community mining and power generation sector



Recommendations

- Communicate governmental policies, programs, and projects regularly among stakeholders at all levels
- Make arrangements for encouraging and promoting small to huge investments, public-private partnerships, and forums to facilitate investors, natural resources management and planning, and mergers to compete with Chinese market
- Building the capacity at grass root level that include promoting entrepreneurial culture, strengthen the institutions (school and colleges), skills development, technical trainings and introduction of new courses that must meet the challenges of contemporary world
- Awareness campaigns regarding benefits and opportunities of CPEC among the public
- Policy level changes to attract investment, improve business environment, protect local interests, improve infrastructure, reduce unemployment, educate labor force and easy access to credit
- Government of Gilgit-Baltistan needs to formulate adequate legislation and regulations for the potential sectors of power-generation, tourism, manufacturing, mining and trade
- The Federal Government must ensure proper decisions about the issue of identity and basic rights for the people of GB. Proper representation of GB in the National Assembly and Senate must be ensured
- Projects to meet the growing demands for energy, water, resources and urbanization will have an impact on environment and culture, management plans are needed for sustainable development
- Collaboration between regional universities



Presentation 4. Locational Advantage of Gilgit-Baltistan: Special Economic Zones

Speaker: Babar Aman

Key insights

- Gilgit-Baltistan (GB) is a geographically and strategically important place that borders China, Afghanistan, and Indian administrative territory of Kashmir. It is a land of great beauty and has the largest glaciers. The area of Baltistan is more than 72,000 km².
- Gilgit-Baltistan has much natural potential for hydropower development. According to the governmental information, the approximate potential can increase by 20,000 MW.
- The CPEC road (Karakoram Highway) was built in 1978, passing through the middle of GB; a route that in fact is part of the ancient Silk Road connecting GB to other parts of Afghanistan. Because of such connectivity, many scripts and cultures are in common.
- GB can be considered as a gateway for Central Asian countries including Afghanistan. Working together, the economic situation of all countries can be substantially improved.
- Joint initiatives for mitigating the environmental impacts can also promoted, such as the creation of nature reserves. In GB, efforts are underway to develop facilities protect the flora and fauna.
- Much work also is needed to mitigate natural hazards and in disaster risk reduction, for example early warning systems. Melting glaciers threaten to cause floods and destroy local infrastructure. Landslides are other hazards that effect the local communities.
- Finally, although GB uses clean energy, it also suffers from the pollution produced by other countries.

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Presentation 5.

The ViSTA model: Predicting the impact of land use change in high-altitude deserts

Speaker: Jerome Mayaud

Desert regions are characterised by patchy vegetation and wind erosion. Such extreme dynamics are common throughout the mountainous regions of Central Asia. China's 'One Belt, One Road' (OBOR) initiative has the potential to alter the natural physical dynamics of these high-altitude deserts. It is therefore crucial to understand how changes in land use (especially those linked to infrastructure construction) could shape desert landscape evolution, and how potential negative impacts may be mitigated.

In this paper, I present the new, coupled cellular automaton Vegetation and Sediment TrAnsport model (ViSTA). ViSTA is designed to simulate the development of desert landscapes in a simple, grid-based format. It can account for changes in farming practices (e.g. grazing, fire), as well as road or railway construction. Here, the technical aspects of ViSTA are described, and its performance is compared to data collected in the Skeleton Coast Desert of Namibia. Then, I explore the potential to apply ViSTA to the Central Asian mountain deserts, particularly in the context of the OBOR initiative.

The versatility of the ViSTA model means it could be used to predict threshold-related transitions across the diverse range of desert environments that occur along the proposed OBOR routes.

Key insights

- The Vegetation and Sediment TrAnsport model (ViSTA) is designed to simulate the evolution of dryland landscapes in a simple, grid-based format.
- The desert landscape is modelled as a series of feedbacks. Vegetation grows and dies off as a function of water and nutrients moving through sediment. The sediment itself is redistributed across the landscape by wind. In turn, vegetation affects local wind patterns.
- Parts of the Pamirs and other Central Asian mountain ranges display some form of dryland vegetation patterning, as well as distinctive aeolian erosion features. The ViSTA model is therefore considered applicable to this region.
- Examples are provided of how different intervention strategies, such as wind breaks, can halt dune encroachment and wind erosion. ViSTA could be a useful tool for predicting the impacts of infrastructure construction on the landscape, and vice versa.

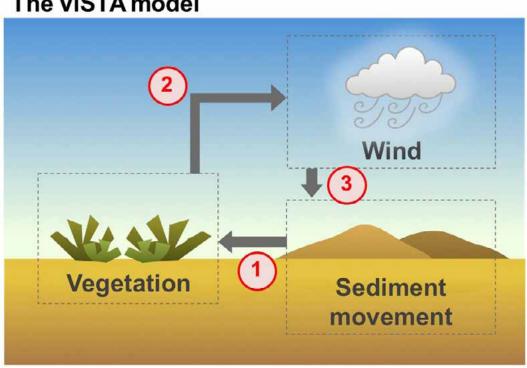
Presentation 5. Environmental Impacts



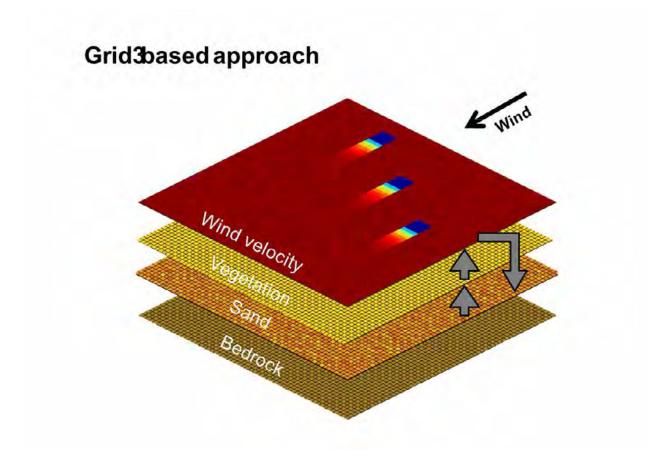


BBC News, Stanford, ContainerNews

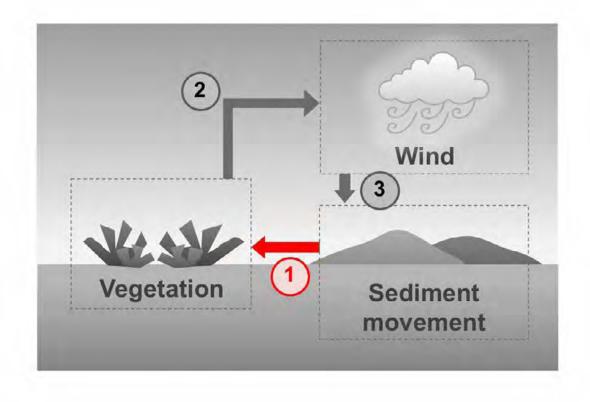




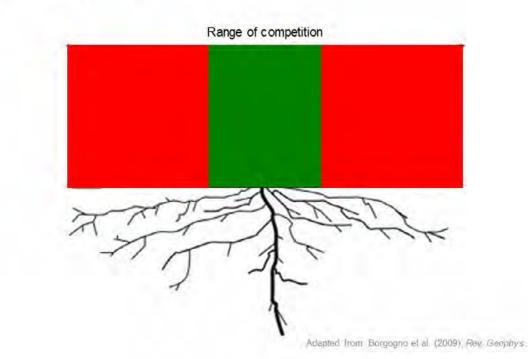
The ViSTA model

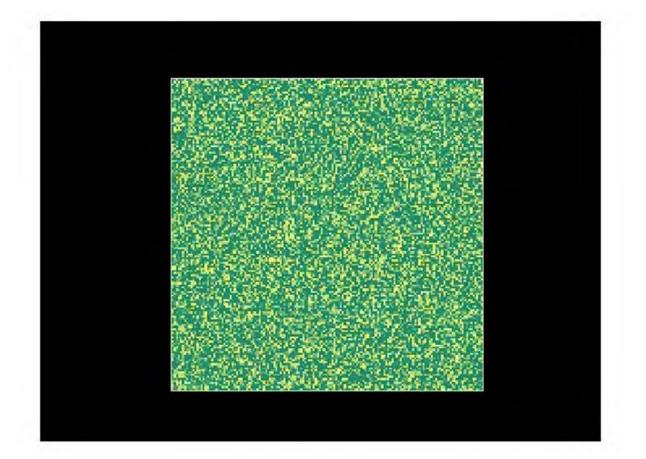


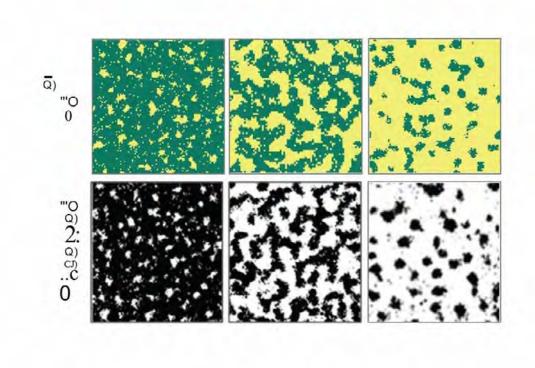




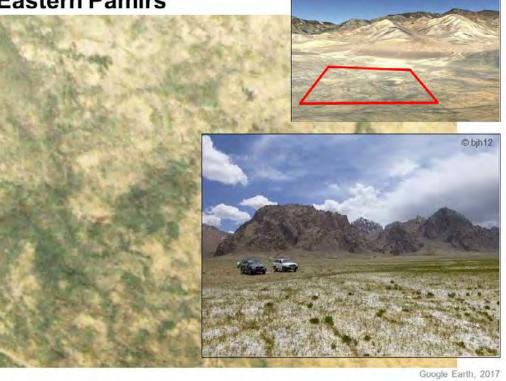
Simple rules

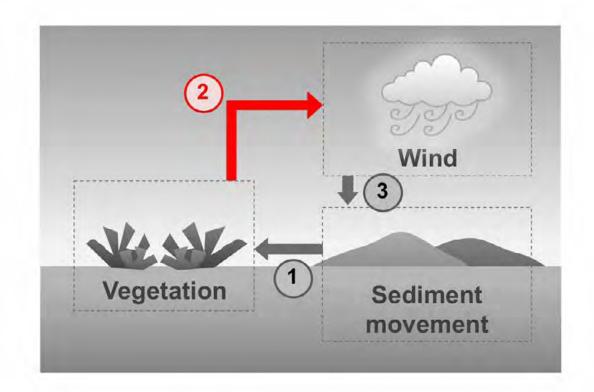




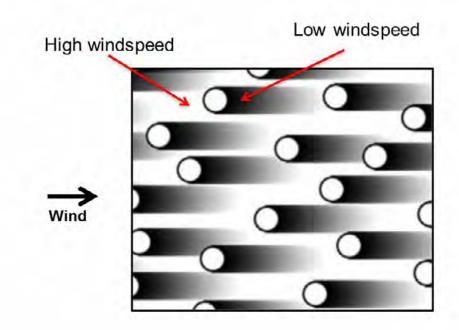


Eastern Pamirs

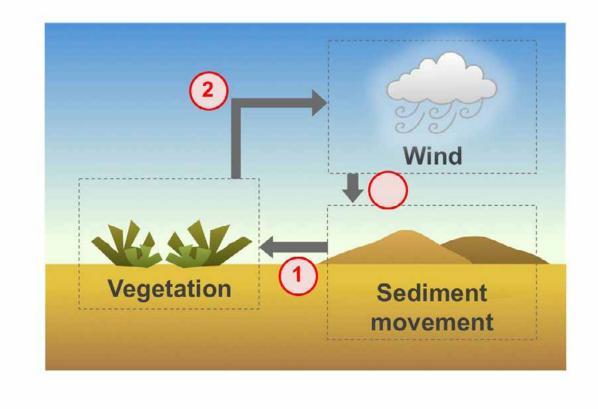


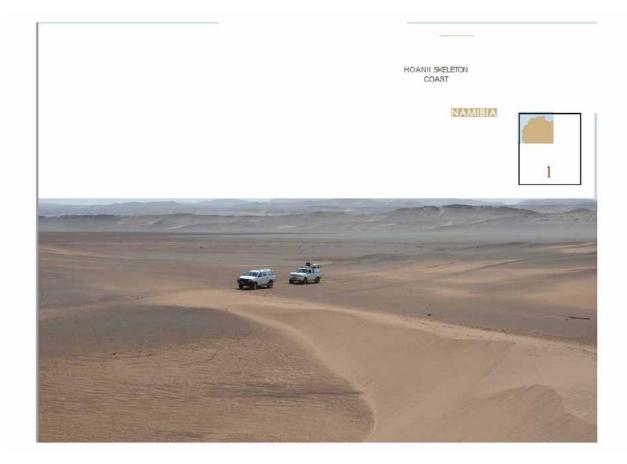


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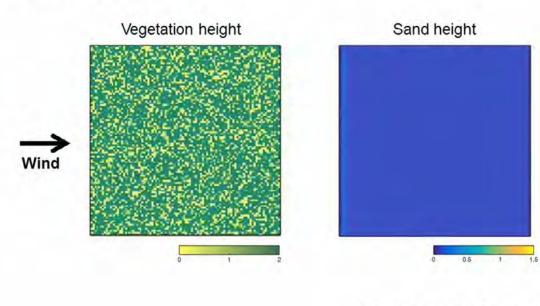


Okin (2008), JGR



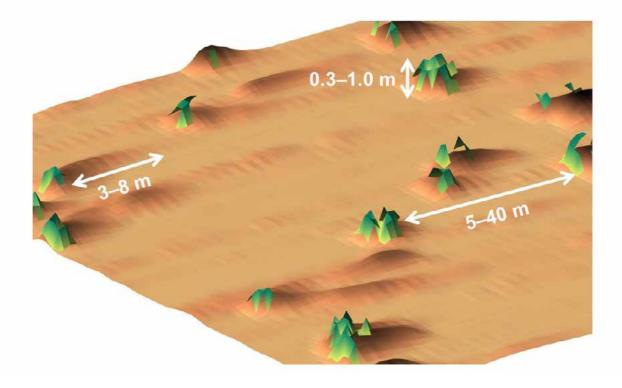


Realistic dunes?

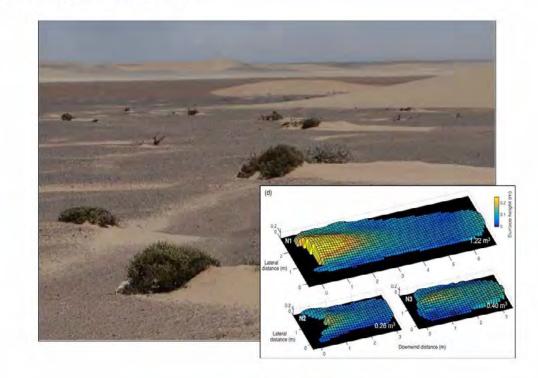


Simulation period:25 years Rainfall regime:80 mm yr⁴¹ (harsh)

Realistic dunes?



Realistic dunes?

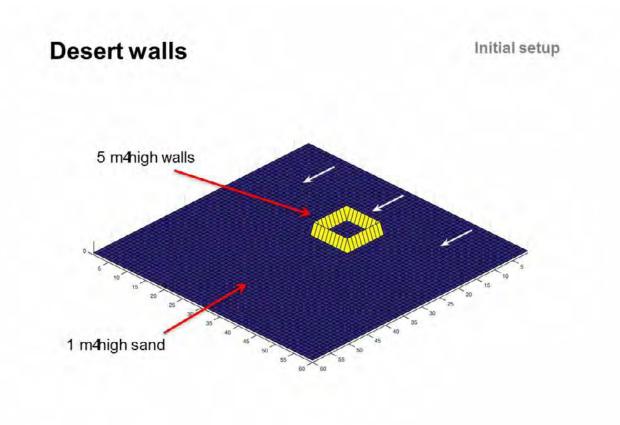


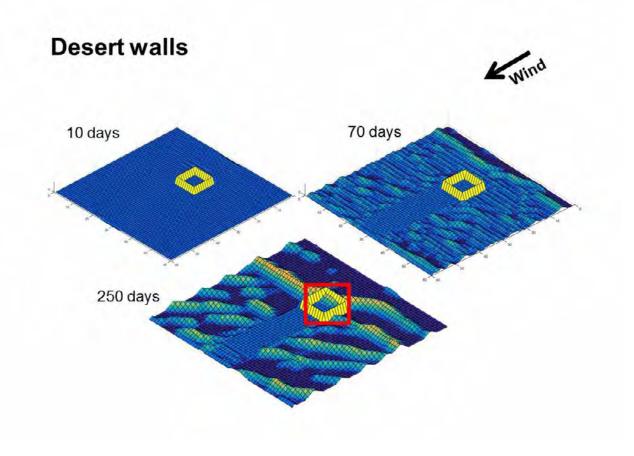
Desert walls: Khorezm fortresses, Kyzylkum

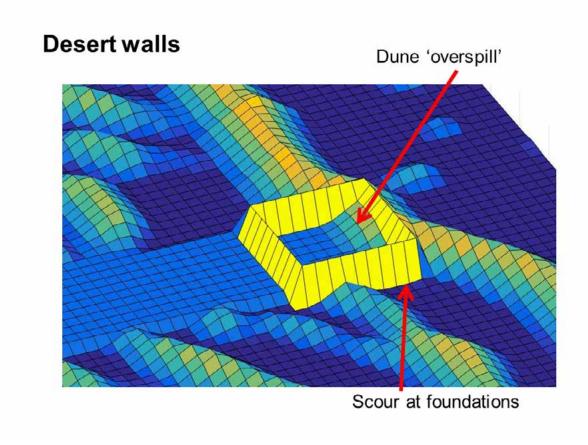




Anton Ivanov



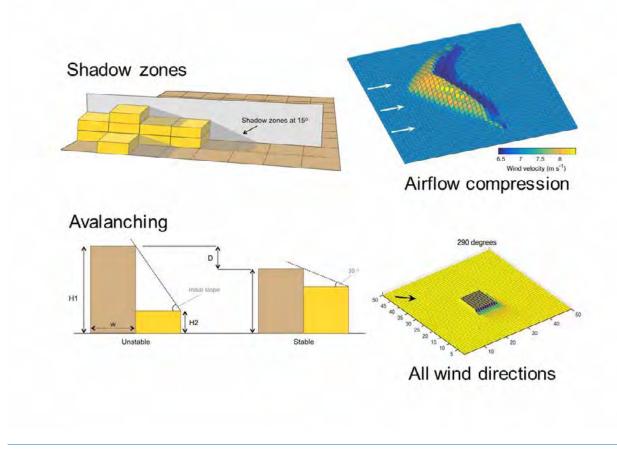




- ViSTA: versatile tool to predict land use change
- Feedbacks important
- Can be applied to drylands along OBOR route
- Impact of rail, roads, buildings

Model available free: github.com/jeromemayaud/ViSTA

C Unusual Traveller



Presentation 6:

Great Altai: First Transboundary Biosphere Reserve in Asia - a Model of Transboundary Socio-Ecological System

Speaker: Tatyana Yashina

Firstly the idea of transboundary cooperation cooperation in the field of conservation and sustainable development in the Altai Mountains shared by Russia, Kazakhstan, Mongolia and China, was announced in 1998. After 6 years it resulted in bilateral field-level cooperation of Katunskiy Biosphere Reserve in Russian and Katon-Karagaiskity National Park in Kazakhstan. In 2017 this area was officially designated as the UNESCO's Transboundary Biosphere Reserve (TBR) "Great Altai".

The presentation describes the ecological and socio-economic context as well as managerial approach to TBR "Great Altai" It is based on the outcomes of the interdisciplinary study resulted in the management strategy of this transboundary area. Special attention will be given to the basic goals of the TBR: conservation of natural and cultural values, fostering sustainable development of local communities and monitoring of threats, targeted to provide relevant managerial responses.

This bilateral cooperation of Russia and Kazakhstan could be considered as a first practical step towards the International Altai Convention involving all four countries of the region and appealing to sustainable future of this transboundary area with its unique natural and cultural values.

Key insights

- The Altai Mountains are shared by Russia, Kazakhstan, Mongolia and China.
- In 2004 the bilateral field-level cooperation of Katunskiy Biosphere Reserve in Russian and Katon-Karagaiskity National Park in Kazakhstan have started.
- In 2017 this area was officially designated as the UNESCO's Transboundary Biosphere Reserve (TBR) "Great Altai".
- The TBR 'Great Altai' pays attention to the conservation of natural and cultural values, fostering sustainable development of local communities and monitoring of threats, targeted to provide relevant managerial responses.

[no presentation available]

Presentation 7:

Development of tourism in the transboundary Altai: influence of the project «One belt, one road»

Speaker: Alexander Dunets

Modern trends in tourism in the Altai region. Principle types of tourism. The experience of cooperation of Chinese and Russian scientists for researchof tourism resources and tourism in the Altai region. The project "One belt, one way" and the main changes which will have taken place in tourism in the Altai region.

Key insights

- At different times in history Altai region has been a melting pot for interaction between different ethnic groups and cultures. Yet despite present-day global conditions which act to determine the social development and organization of a modern region, areas of traditional landscape and landscape have been preserved in the Region up to present times almost untouched by human influence. The life of nomadic peoples in the area is a considerable pull for tourists visiting these enormous steppes, and their almost-inaccessible mountain hamlets in the taiga peak areas.
- For a considerable distance, the borders of this gigantic landlocked region form a natural buffer zone. The weak cross-border interactivity is influenced by the natural features such as the high mountain ranges, where the state borders run.
- There is also the level of socio-economic development, the poorly developed transport and logistics network, and a broad range of ethnic and religious differences. Even so, there is a noticeable weakening taking place in the function of the border as a barrier largely due to the processes of globalisation and the project "One Belt, One Road".
- The activities of State authorities in the areas close to the border permit the formation of a cross-border economic zone in the Altai region. There is a gradual perception within the region by local communities that these bordering territories share a common ethnic, cultural, natural and historic space.
- The tourism and leisure economy is dependent in many respects on the social sphere and the economics of the region. From the moment of market reforms in Russia in the tourism industry, there have been far-reaching changes in the region.

Presentation 7: Tourism Development

[Extended Abstract]

The Altai region is located directly at the centre of the Eurasian landmass, where the borders of four countries meet – Russia, Mongolia, Kazakhstan, and the People's Republic of China. At different times in history it's been a melting pot for interaction between different ethnic groups and cultures. Yet despite present-day global conditions which act to determine the social development and organisation of a modern region, areas of traditional landscape and landscape have been preserved in the Region up to present times – almost untouched by human influence. The life of nomadic peoples in the area is a considerable pull for tourists visiting these enormous steppes, and their almost-inaccessible mountain hamlets in the taiga peak areas.

For a considerable distance, the borders of this gigantic landlocked region form a natural buffer zone. The weak cross-border interactivity is influenced by the natural features - such as the high mountain ranges, where the state borders run. There is also the level of socio-economic development, the poorly-developed transport and logistics network, and a broad range of ethnic and religious differences. Even so, there is a noticeable weakening taking place in the function of the border as a barrier – largely due to the processes of globalisation and the project "One Belt, One Road". The activities of State authorities in the areas close to the border permit the formation of a cross-border economic zone in the Altai region. There is a gradual perception within the region by local communities that these bordering territories share a common ethnic, cultural, natural and historic space. For example, the traditional way of life of the Tuvans is strongly connected with their location at the junction of the borders of Russia, Mongolia and China. While Kazakhs are to be found living in all four political states of the Altai region.

The tourism and leisure economy is dependent in many respects on the social sphere and the economics of the region. From the moment of market reforms in Russia in the tourism industry, there have been far-reaching changes in the region.

Modern trends in tourism in the Altai region

Leisure facilities. The last decade has seen a great increase in the value of leisure facilities. Tourist areas capable of generating high revenue have become the objects of investment development. The significance of cultural and historic recreational facilities has increased. Scientific and practically-based conferences have discussed papers which try to value these leisure resources.

The organisers of tourism services. The number of organisations in the tourism market is growing. Rural tourism and ecotourism are expanding extensively. There is an increase in the range of different tourism services, both in terms of quality and provision. Tourist companies are beginning to exploit innovative technologies when providing tourist services, and in the promotion of their services – even the most remotely-located tourism centres and guest-houses now have their own websites. There's an observable number of positive indicators which characterise the tourism industry currently. There's considerable improvement in the equipment offered for tourists to use during their trips, particularly in the sphere of improving service and safety. Even so, many of the organisations offering tourism services are small outfits who lack the financial capacity to follow this through.

Infrastructure. Particular areas where there is a high concentration of tourism infrastructure services can now be identified. These contribute to the emergence of special economic zones for tourism and leisure, and of tourism clusters whose infrastructure funding is provided by the State. These areas

are booming as a result of private-public partnership projects. In addition to the simple growth in the numbers of tourist centres and hotels, there is substantive growth in such areas as entertainment, winter tourism, and roadside services for tourists in their own vehicles.

The local population. Local populations are playing an increasingly large role in tourism. At the population centres which are most frequently visited by tourists, local people have a clear perception of the concept of 'guests'. The chance to earn some quick money by providing services to tourists alters the perceptions of indigenous peoples towards tourists. Many try to make as much as they can from the tourists - in an attempt to put money by and avoid having to work at all until the next tourist season.

Some conflicts occur between tourists and local peoples, almost always based on perceptions of standard of living. A community of local peoples is growing, who view tourists very negatively. Many of these problems are directed towards incoming tourists. There are particularly negative feelings generated when tourist routes run through sacred sites

Tourists. The seasonality of tourism visits to the region is strongly delineated. For example, tourists visit the Altai primarily in summer. There are the beginnings of tourism associated with specific events, such as holidays and festivals. Tourists are now more acclimatised towards leisure visits to the mountains, and there is a large number of tourist routes for those arriving with their own vehicles. There are some areas where the volume of tourists is having a negative effect on the ecology of the area. The overall structure of tourism tends towards passive pursuits (taking a rest at tourism centres, stays at health centres). Despite this, there is growth in the sphere of excursions and active tourism too.

Staff in the tourism industry. There are a number of universities and colleges in the region which offer courses for those wishing to work in the tourist industry. Those taking these courses usually have Work Experience programs included in their studies, which might take place in any location within Russia, and also possibly abroad. However, many of the graduates of these courses are unwilling to work in tourism after graduation, due to the very low prevalent wages. A great percentage of tourism industry staff are placed on unpaid leave in the winter, or are laid off entirely.

Generally the level of service standards offered at tourist centres and in travel companies is rising slowly. However, the overall level of service to be found in the region is still poor.

State Authorities. There are State programs aimed at the development of the tourism and leisure sphere, which get a growing amount of attention. There are initiatives to promote tourism services, to bolster investment, to create new jobs in tourism, and there is budgetary support for scientific research into tourism in the area.

If we consider the primary major data about the characteristics of the growth in tourism in the Altai Region, we can see there are positive investment trends in tourism concerns, a rise in the number of travel agencies and hotels, and growing revenues in the travel sector.

There is a very positive trend throughout the region in the number of travel companies. These are primarily located in larger cities. Quite a number of tour operators in nearby areas are putting together travel programs in the Altai Region.

ICIMOD Presentation: Hindu Kush Karakorum Pamir Landscape (HKPL) Initiative



HKPL Team

International Centre for Integrated Mountain Development Kathmandu, Nepal

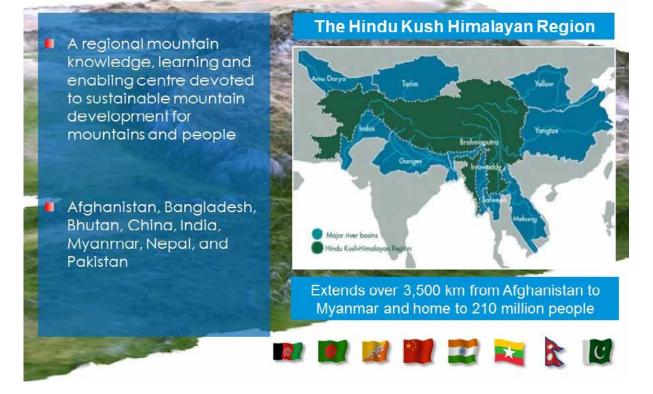
Dushanbe, 3 October 2017

FOR MOUNTAINS AND PEOPLE

ICIMOD

The Inter-Governmental Institution

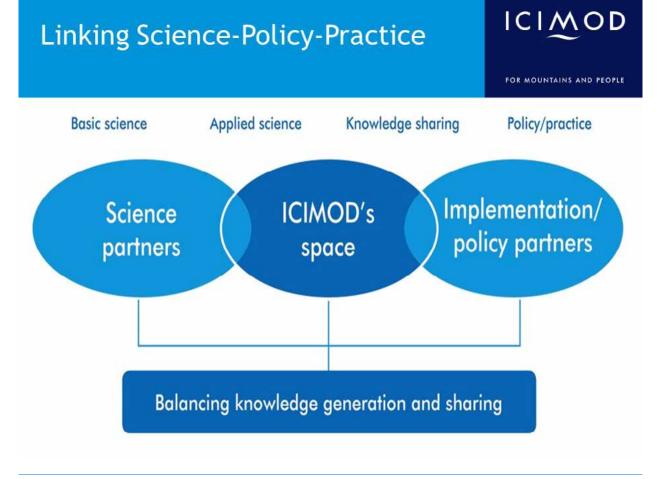
ICIMOD



Mission

ICIMOD

To enable sustainable and resilient mountain development for improved and equitable livelihoods through knowledge and regional cooperation



Strategic Goals and Impacts Areas of Focus

- Adoption of innovations
- Data generation and its use for policy and practice
- Human and institutional capacities
- Influencing Policies
- Regional Cooperation
- Mountains on the Global Agenda

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Strategic Impacts

Reduced poverty

Reduced physical and social vulnerability

Improved ecosystem services

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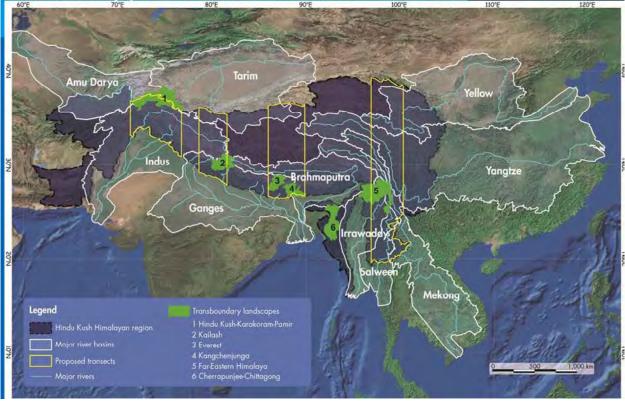
Regional Programmes

- 1) Adaptation to Change
- 2) Transboundary Landscapes
- 3) River Basins
- 4) Cryosphere and Atmosphere
- 5) Mountain Environment Regional Information System
- 6) Himalayan University Consortium

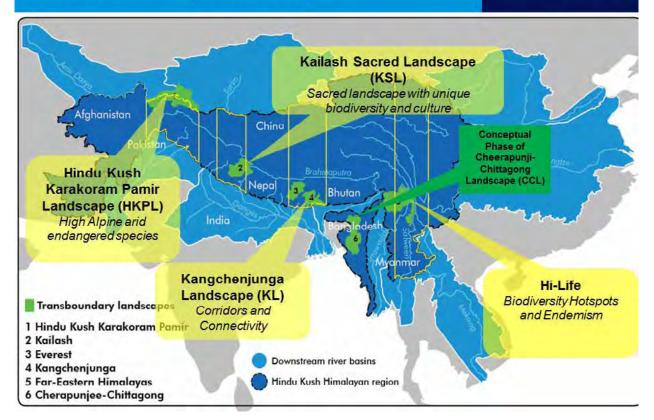


Theme: Livelihoods, Ecosystem Services, Water & Air, Geospatial Solutions

Transboundary Landscapes & River Basin Approaches



Transboundary landscapes

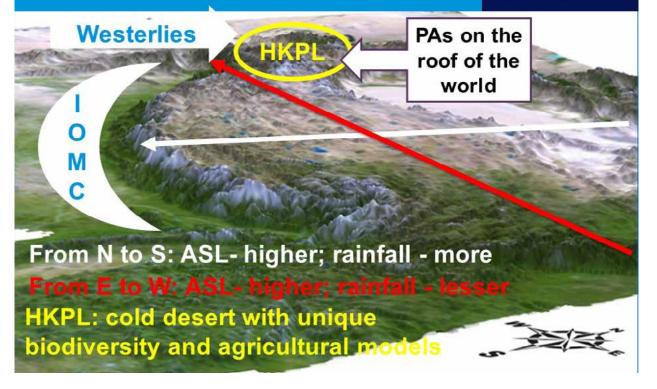


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Hindu Kush Himalayas

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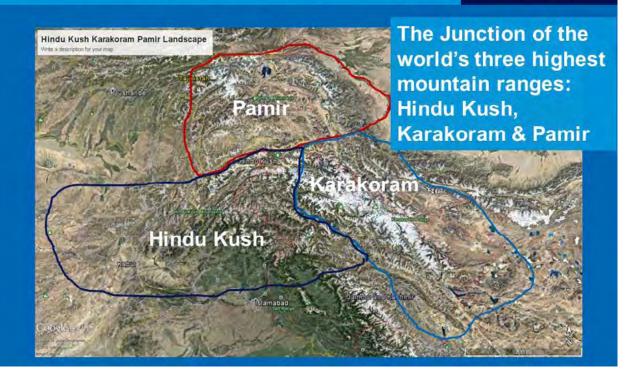
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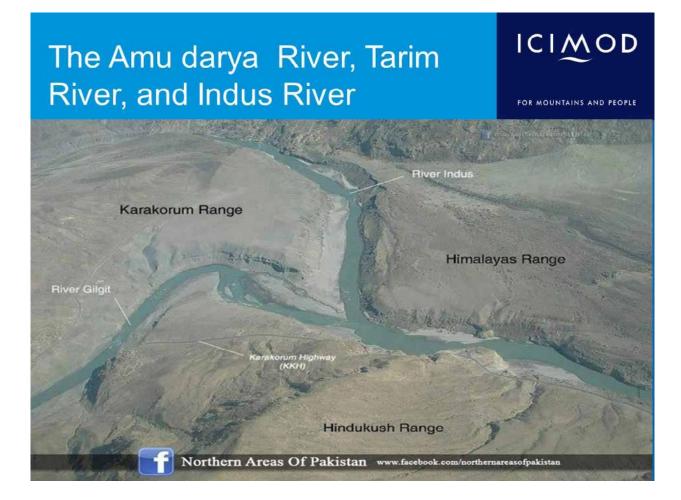


Hindu Kush Karakoram Pamir Landscape (2011-)

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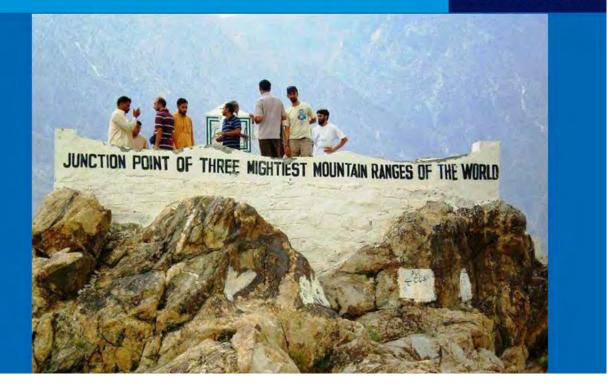




Unique point



FOR MOUNTAINS AND PEOPLE



Key area of the ancient Silk Road



Important corridor for trades and cultural exchange and part of ancient Silk Road

Map of the HKPL landscape

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Six interconnected Protected Areas

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SEEING THE LANDSCAPE AS A WHOLE

Total area: 67,506 Sq km Six Protected area: 33,000 Sq km



Information about Protected Areas

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Name of PA	Country	Area Sq Km	Flagship species	Pop- ulation	Geographic importance	Culture (ethnic groups)
Taxkorgan Nature Reserve (TNR)	China	15,000	Marco-polo sheep, Snow leopard, Ibex, Golden eagle, Tibetan vulture	30,000	Trade route between Pakistan and China	Wakhi, Tajik, Sarakoli, Kyrgyz, Khow,
Wakhan National Park (WNP)	Afghanistan	10,878	Marco-polo sheep, Snow leopard, Ibex, Golden eagle, Tibetan vulture	14,000	Trade route between Pakistan and Afghanistan	Wakhi, Tajik, Sarakoli, Kyrgyz, Khow
Broghil National Park (BNP)	Pakistan	1,342	Marco-polo sheep, Snow leopard, Ibex, Golden eagle, Tibetan vulture	1,600	Trade route between Pakistan and Afghanistan	Wakhi, Tajik, Sarakoli, Kyrgyz, Khow
Qurumbar National Park (QNP)	Pakistan	740	Marco-polo sheep, Snow leopard, Ibex, Golden eagle, Tibetan vulture	500	Trade route between Pakistan and Afghanistan	Wakhi, Tajik, Sarakoli Kyrgyz, Khow
Khunjerab National Park (KNP)	Pakistan	4,455	Marco-polo sheep, Snow leopard, Ibex, Golden eagle, Tibetan vulture	7,000	Trade route between Pakistan and China	Wakhi, Tajik, Sarakoli, Kyrgyz, Khow
Zorkul Nature Reserve (ZNR)	Tajikistan	1,610	Marco-polo sheep, Snow leopard, Ibex, Golden eagle, Tibetan vulture	1,000	Trade route between Tajikistan and Afghanistan	Wakhi, Tajik, Sarakoli, Kyrgyz, Khow

Ecosystem types: cold desert ecosystem & alpine meadow



FOR MOUNTAINS AND PEOPLE

The cold desert ecosystem and alpine meadow with unique biodiversity and harbours globally threatened species, such as Marco Polo sheep and snow leopard



Challenges



FOR MOUNTAINS AND PEOPLE

Regional level

- Lack of sufficient transboundary cooperation mechanism and policys
- Lack of landscape level information on the environmental conditions, biodiversity, ecosystem
- services and uses, climate change impact, and socio-economics of region
- Improper management of wildlife corridors and ecosystems

National level

· Lack of infrastructure and capacity for utilizing existing potential for further development

Local level

- · Local communities vulnerable to climate change, natural disasters and geopolitics
- Increasing pressure on rangelands, severe energy shortage and lack of alternative energy technology
- · Lack of alternative sustainable livelihood options and poor development of local niche products



Opportunities

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FOR MOUNTAINS AND PEOPLE

Regional cooperation to create an enabling policy environment for strategic planning: The basis for regional cooperation:

- six climatically homogeneous protected area are physically connected
- the landscape have commonality of language, Muslim culture and religion
- key historical trade and cultural link between China and Europe through the ancient Silk Road, unique cultural heritage and geographic features to attract many tourists

Livelihood diversification:

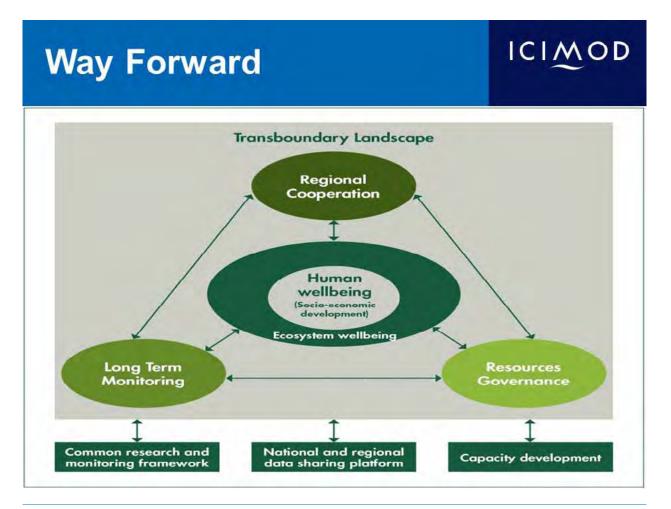
- developing a common market for cross-border trade and adding value for local products offers significant scope to increase income generation
- tremendous potentials for trans-border tourist which should be leveraged to create alternative livelihood and income options for local communities

Strengthening capacities of the protected area authorities and local communities:

- participatory management approach for biodiversity use and management
- promote the long-term sustainability of tourism in protected areas

Enhance resilience and sustainability of the rangeland ecosystem:

- restore degraded rangeland ecosystem
- diversify rural energy options
- enhance climate change adaptation



HKPL concrete activities for next five years

FOR MOUNTAINS AND PEOPLE

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- Rangeland resource assessment for livelihood development
- Investigation of yak germplasm resources in the Hindu Kush Himalaya Region and identification genetic basis of yak domestication and diversity (NSFC-ICIMOD fund)
- Climate change effect on habitat suitability and transboundary migration corridor identification of Marco Polo sheep (NSFC-ICIMOD fund)
- Ground Deformation Monitoring and Geohazards Risk Assessment Based on InSAR Technologies for the China-Pakistan Economic Corridor (NSFC-ICIMOD fund)

HKPL potential activities for next five years

ICIMOD

FOR MOUNTAINS AND PEOPLE

 Cultural heritage conservation and preservation; and linked tourism activities for livelihood development

Technology transfer

- Integrated Farming system and demonstration
- Facility agriculture
- Dry land agriculture
- Niche products value chain
- Cold water fish
- Marketing and policies

HKPL looking for partners

ICIMOD

FOR MOUNTAINS AND PEOPLE

- Food storage construction experience and building in highlands;
- Sea buckthorn planting and processing
- Handicraft trade;
- Tourism services (eco/cultural truisms);
- · Warm housing and effective stoves.
- Improved Mountain farming;
- Natural Resource Management-forestry, agri and livestock;
- Climate change; Migration, Wild life management.
- · Livelihood diversification, Fish (trout) farming;
- Mountain hazards;
- · Cultural heritage conservation,
- Water conservation and power

Long term opportunities

ICIMOD

FOR MOUNTAINS AND PEOPLE

- One Belt One Road Initiative
- NSFC-ICIMOD fund (30 million per year)
- China Pakistan Economic Corridor
- Pakistan, Afghanistan, Tajikistan integrated program
- Himalayan University Consortium
- Central Asia Institute

Annexes

- 1. Workshop Schedule & Agenda
- 2. Book Launch: Yuri Badenkov
- 3. Book Launch: Hermann Kreutzmann
- 4. Maps of Central Asia
- 5. Workshop Participants
- 6. Selected References

1. Workshop Schedule and Agenda

Monday, 2 October 2017 (Day 0)

Arrival of participants at Serena Hotel (all day)

Book Launch: Yuri Badenkov's new book will be presented at the Ismaili Centre Dushanbe, as part of *UCA Public Lecture Series* organized by AKHP. Details in separate announcement. For participants who wish to attend, a minibus will depart Serena Hotel at 3:30pm.

Tuesday, 3 October 2017 (Day 1)

Time	Activity	Participant		
9.00am	Opening and introduction to the workshop	Marc Foggin		
9.05am	Welcome Address (with introduction of AKDN and UCA)	Yodgor Faizov		
9.15 am	Keynote 1. Building Mountain Resilience through Transboundary Management of Ecosystem Services	Wu Ning		
10.00am	Introductions of the participants	Group		
10.30am	Coffee break & networking			
11.00am	Keynote 2. Pamirian Crossroads and the New Silk Road Initiative	Hermann Kreutzmann		
11:45am	Discussion 1. Stocktaking of current and planned OBOR-related	Chaired by Troy		
	investments/projects in Central Asia, by country and sub-regions	Sternberg		
12.30pm	Lunch			
	Recap of purpose and desired outcomes of workshop: Collaborative			
2.00pm	outlining of current state of knowledge, regional exchange of ideas and	Marc Foggin		
	suggestions to maximize benefits, leading to recommended next steps			
2.15pm	Presentation 1: OBOR scientific cooperation: from perspective of cooper- ation between Gansu, China, and Central Asian countries	Long Ruijin		
2.30pm	Presentation 2: Beyond the Karakoram Range: six decades of road devel-	Jonathan Demenge		
	opment in Ladakh, impacts on the environment and society			
2.45pm	Coffee break & networking			
3.15pm	Presentation 3: Report by AKRSP in Gilgit, Pakistan on CPEC	Aziz Ali Dad		
3.30pm	Presentation 4: Locational Advantage of Gilgit-Baltistan: Special Eco- nomic Zones	Babar Aman		
3.45pm	Presentation 5: Predicting environmental effects of infrastructure develop- ment and land use change in high altitude deserts & steppes	Jerome Mayaud		
4.00pm	Discussion 2. How can China's interests and plans in Central Asia, as presented through OBOR, be maximized for sustainable development? How can marginalization of mountain communities in Central Asia be averted, and anticipated benefits of OBOR's shared more widely?	Chaired by Yuri Badenkov and Hermann Kreutzmann		

5.00pm	ICIMOD mini-event (1 hour): Long Ruijun and Ismail Muhammad to intr Kush – Karakoram – Pamir Landscape (HKPL) conservation programme, w es six protected areas (PAs) and surrounding regions in four countries. Also of recently facilitated exchanges with Chinese scholars, related to the OBO together with a discussion about types of opportunities that could be promo- between countries, for OBOR related scientific cooperation.	which encompass- o an introduction R program,	
6.30pm	Supper		
8.00pm	Book launch: "Wakhan Quadrangle: Exploration and Espionage During and After the Great Game" – will be held at Serena Hotel	Hermann Kreutzmann	

Wednesday, 4 October 2017 (Day 2)

Time	Activity	Participant
9.00am	Keynote 3. The Silk Road in High Asia: Geography, Environment & Sustainability in Altai	Yuri Badenkov
9.45am	Presentation 6: History and prospects for UNESCO's transboundary Greater Altay Biosphere Reserve	Tatyana Yashina
10.00am	Presentation 7: Development of tourism in the transboundary Altai: influ- ence of the project «One belt, one road»	Alexander Dunets
10.15am	Coffee break & networking	
10.45am	Keynote 4. The role of landscape and politics of infrastructure for Chi- na's New Silk Road programme in Central Asia	Troy Sternberg
11.30am	Local/national perspectives: What does OBOR mean for 'us' – here in Central Asia? What are the possibilities, what are the challenges? What would we like to see OBOR develop? How to engage w/ China? Hearing from Tajik, Kyrgyz, Afghan, and other voices and perspectives.	'Open floor' for thoughts, inputs and suggestions – from a range of perspectives
12.20mm	Lunch	or peropeed too
12.30pm		I
2.00pm	Discussion 3. Stock-taking revisited – further additions? Additionally, what gaps identified? What research needs? (and introduction of GCRF)	Chaired by Troy Sternberg
2:30pm	 Discussion 4. Anticipated impacts of OBOR in mountains of Central Asia including policy matters, as well as discussion of governance issues, local and regional economic perspectives and implications, environmental and societal impacts, etc. Three breakout groups. (A) Transitioning from 'transport routes to 'development corridors' (B) Environmental considerations of infrastructure and land projects (C) Sociocultural impacts of OBOR related projects in mountain regions 	Chaired by Marc Foggin and Wu Ning
3.30pm	Feedback Session	Group
4.00pm	Coffee break & networking	

4.30pm	 Panel Session: What are some economic/sociocultural/environmental benefits and/or challenges arising from OBOR? What disparities (if any) in local vs regional vs Chinese benefits/challenges? Who wins, who loses? Tatjana Yashina (Alta, Russia) – integrating culture in development, including opportunities for community-beneficial tourism in OBOR Talantbek Aldashev (Kyrgyzstan) – changing markets and impacts on livestock husbandry sector (i.e. pastoralism and rangelands) Kishwar Abdulalishoev (Tajikistan) – agriculture & food security Aziz Ali Dad (GilgitBaltistan) – maximizing economic benefits for communities, moving beyond 'transport routes' to 'development' Wu Ning (China) – environmental challenges, safeguards needed 	Chaired by Hermann Kreutzmann		
5.30pm	Final discussion: Future directions / Where do we go from here?	Troy Sternberg et al.		
6.15pm	Closing remarks and thanks			
6.30pm	– end –			

Post-workshop tour (option)

5 October 2017	Dushanbe – Darvaz
6 October 2017	Darvaz – Khorog
7 October 2017	Khorog – Langar
8 October 2017	Langar – Khorog
9 October 2017	Khorog – Dushanbe

Silk Roads in Mountains of Central Asia International Workshop



Proposed Itinerary for the five day trip through the Pamirs

Start Day: October 5, 2017 End Day: October 9, 2017 Number of Travelers: 11 Vehicle provided: 4X4 (Tayota Land Cruiser)

Trip Description

Day 1: Drive from Dushanbe to Khorog (6-7hours) to Kalai Khumb. Karon Fortress sightseeing in the evening. Overnight in Darwaz guest-house in Kalai Khumb (20 USD per person for bed and breakfast)

Day 2: Drive to Khorog (6-7 hours). Check-in in the hotels, lunch in the Khorog Central Park Serena Restaurant. Short trip to the Botanical garden and University of Central Asia campus site, dinner in the dining hall of the university.

Day 3: Drive to Wakhan (5-6 hours). On the way we will stop in the Ishkashim Afghan Market if it works, otherwise we will drive until Kah-Kaha and Yamchun fortresses, pre-Islamic shrines, Bibi Fotima Hot-spring (Great view to the famous Wakhan Corridor and old Silk Road). Overnight in a home-stay (20 USD per person)

Day 4: Drive to Khorog through Khargush pass to the Ghund Valley (7-8 hours). Stops in the Jelondy Hotspring, Pamir I HPP, China-Khorog Terminal, and Barsem debris flow sites, Overnight in Khorog.

Day 5: Drive from Khorog to Dushanbe (12-13 hours). overnight in Dushanbe





2. Book Launch: Yuri Badenkov



AKHP\MSRI Public Lecture Series

02 October 2017, 16:00

The University of Central Asia is pleased to announce the next event in its public lecture series held in Dushanbe, Tajikistan, organized in partnership with the Russian Geographic Society of Academy of Science of Russian Federation and the Geographic Society of Tajikistan. This lecture will be conducted in the framework of developing inter-disciplinary discourse between intellectuals, academics and students in disciplines of humanities and the sciences.

Book Launch Life in the Mountains: Environmental and Cultural Diversity – Diversity of Development Models" by Dr Yuri Badenkov

with presentations by

Dr. Yuri Badenkov Senior Research Scientist Institute of Geography Russian Academy of Sciences **Dr. Kholnazar Mukhabatov** President Geographical Society of Tajikistan

Book Abstract

The book "Life in the Mountains" describes the diversity of life and of development models in mountain areas in the context of their historical heritage, and environmental and ethnocultural diversity. Referring to the cases of European Alps, Karakorum, Himalaya, Andes, mountains of Central Asia, East Africa, Northern Appalachians, Caucasus and Altai the author discusses the issues of political inequality in mountain regions, the effects of their peripheral locations and dependence of the urban and lowland centers having more advanced economies.

The book's intended audience includes politicians, researchers, students, organizations and practitioners of strategic planning in the area of sustainable mountain development. The book is co-published by the Russian Geographical Society (founded 1845) and University of Central Asia.

A reception will be held after the two presentations, during which time the author will be available to sign copies of the book.

Author's Biography

Dr. Yuri Badenkov is a leading scientist in the field of sustainable mountain development and adaptation strategies for global change, with experience working in North Eurasia, Central Asia, North and South Caucasus and the Sudet Mountains in Poland. Dr. Yuri Badenkov was a core member of the founding commission of University of Central Asia (UCA) and is member of the Advisory Committee for UCA's Mountain Societies Research Institute (MSRI). From 1983 to 2013, he led the Mountain Group MAB-6 at the Russian Academy of Science Institute of Geography. He also has contributed to UNESCO's work on sustainable mountain development, and the Man and the Biosphere Programme (MAB), working to preserve mountain biosphere reserves. Dr. Badenkov received a medal of honour from the Commission of the Russian Federation for UNESCO Affairs for his contribution in promoting Russian cooperation with UNESCO. Dr. Badenkov holds degree in Geology from the University of Moscow and in Geochemistry from the University of St. Petersburg.

Moderator

Pulat Shozimov, FDP Manager\Acting Director Aga Khan Humanities Project of the University of Central Asia

Language

The presentation will be conducted in Russian

Location

Ismaili Centre, Dushanbe 47 Ismail Somoni Street Dushanbe, Tajikistan

Registration

Please RSVP to <u>marifat.alifbekova@ucentralasia.org</u> _with your name and affiliation. Please indicate if you require English translation.

* Ideas presented in this lecture reflect the personal opinion of the speaker and do not necessarily represent the views of the University of Central Asia and/or its employees.

Central Administration Office

138 Toktogul Street, Bishkek, 720001, Kyrgyz Republic Tel.: +996 (312) 910 822 Fax: +996 (312) 910 835 info@ucentralasia.org

3. Book Launch: Hermann Kreutzmann



03 October 2017, 20:00

The University of Central Asia is pleased to announce the book launch lecture held in Dushanbe, Tajikistan, organized in partnership with the Centre for Development Studies - Geographic Sciences, Free University of Berlin. This lecture will be conducted in the framework of developing inter-disciplinary discourse between intellectuals, academics and students in disciplines of humanities and the sciences.

Book Launch "Wakhan Quadrangle: Exploration and Espionage During and After the Great Game" by Dr Hermann Kreutzmann

with presentation by

Dr. Hermann Kreutzmann Professor Centre for Development Studies - Geographic Sciences Free University of Berlin

Book Abstract

The Wakhan Quadrangle became an arena of colonial competition and international interest when four powers - Afghanistan, China, Great Britain and Russia - struggled for dominance in a remote mountain region where only scattered communities lived in a challenging environment. At the end of the 'Great Game' international boundaries were agreed upon and established on the ground. Prior to this, half a century of exploration and reconnaissance had augmented and enhanced the ethnographical, geographical and linguistic knowledge about the people living there by sending various international travellers commissioned to record routes, military details and strategic information for the respective parties in the contest. Among the diverse explorers were so-called indigenous intermediaries who were trained in measuring geodetic parameters and who noted down their observations about the customs, culture and economy of the people. They were expected to be knowledgeable in terms of linguistic skills and cultural practices; they were less likely than their colonial masters to arouse suspicion. Munshi Abdul Rahim was an explorer who was sent to Wakhan and Badakhshan in 1879-1880 by the first British Political Agent in Gilgit, John Biddulph. Hard to find and long-disregarded, his report is the centrepiece of this book and is reprinted in facsimile. This authentic and informative report was written during a crucial period for Wakhan that resulted in the imperial division of the formerly independent principality into two parts and the flight and migration of a large share of its inhabitants to neighbouring countries. His account is preceded by an introduction to the Great Game and its implications for the Central Asian interface and especially Badakhshan and the Pamirs, an elaboration of the context in which exploration and reconnaissance took place, and a presentation of the actors from the perspective of 'native explorers'. Munshi Abdul Rahim's narrative is a case in point to discuss the function of

providers of 'political' and 'non-political' information, i.e. the distinction between exploration and espionage from colonial times to the present day. The comments and interpretations are embedded in archival research and fieldwork in the region; within a span of 40 years, the author has retraced all the steps of Munshi Abdul Rahim.

Author's Biography

Hermann Kreutzmann has been Chair of Human Geography and Director of the Centre for Development Studies at the Freie Universität Berlin since 2005. Previously he held the Chair of Cultural Geography and Development Studies, and was the Director of the Institute of Geography at the Friedrich-Alexander-Universität Erlangen-Nuernberg since 1996. He studied physics, geography and anthropology at the universities of Hannover and Freiburg/Brsg., received his Dr. rer. nat. in 1989 from the Freie Universität Berlin, acted afterwards as the field director of the DFG-funded special research programme "Culture Area Karakorum", was awarded postdoctoral habilitation degree from Bonn University in 1994 and became a visiting professor at the Henry M. Jackson School of International Studies at the University of Washington in Seattle in 1995. He received a Heisenberg Fellowship in 1995 and was awarded the Tianshan Prize China in 2010. Empirical research was conducted in Afghanistan, Pakistan, Tajikistan, Kyrgyzstan, India, Nepal, Tibet and Xinjiang since 1977 and spanning a fieldwork period of nearly a decade resulting in more than 200 publications including more than twenty authored and edited books. Principle Investigator in the Berlin Graduate School "Muslim Culture and Societies" and board member of the BMBF programme "Crossroads Asia".

Moderator

Marc Foggin, Acting Director, Mountain Societies Research Institute, UCA

Language

The presentation will be conducted in English

Location Serena Hotel, Dushanbe Rudaki Avenue 14, Dushanbe, Tajikistan

Registration

Please RSVP to elnura.omurbekova@ucentralasia.org with your name and affiliation.

* Ideas presented in this lecture reflect the personal opinion of the speaker and do not necessarily represent the views of the University of Central Asia and/or its employees.

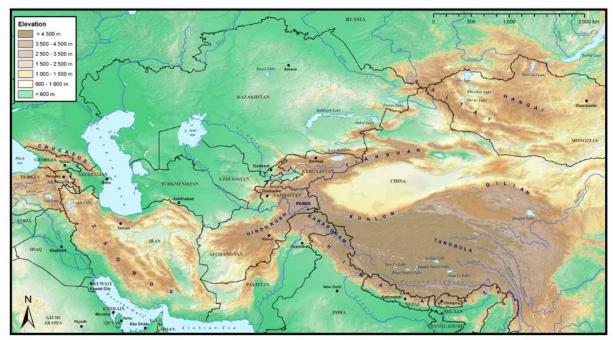
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4. Maps of Central Asia





Mountains of Central Asia



5. Workshop Participants

Silk Roads in the Mountains of Central Asia Ancient Routes & Modern Challenges in Times of Global Change

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