



WCS Efforts in Addressing the Impact of Linear Infrastructure on Migratory Mammals in Mongolia



Central Asia



Source: <http://www.orexca.com/centralasia.php>

- Many large migratory mammals
- Large intact habitats
- Rapid growth of industries
- Rapid infrastructure development

Vast Spatial Scale



Eastern Steppe



250,000 km²



Range of
individual gazelle



25,000 km²+

**Greater Yellowstone
Ecosystem**



108,000 km²



US National Grassland Reserves

Serengeti-Mara Ecosystem



25,000 km²



15,378 km²



WCS Priority Areas



Mongolian– Gobi Steppe



Mongolian– Grassland Steppe



MIGRATORY MAMMALS IN MONGOLIA



Snow leopard (*Uncia uncia*)
CMS Appendix 1



Argali (*Ovis ammon*)
CMS Appendix 2



Goitered gazelle (*Gazella subgutturosa*)
CMS Appendix 2



Bactrian camel (*Camelus (bactrianus)*)
CMS Appendix 1



Khulan (*Equus hemionus*)
CMS Appendix 2



Mongolian gazelle (*Procapra gutturosa*)
CMS Appendix 2



Saiga antelope (*Saiga borealis*)
CMS Appendix 2

General impacts on wildlife from linear infrastructure

- Habitat fragmentation
 - Habitat dissection
 - Habitat loss
 - Compression
 - Sedentarization
- Partial barriers
- Indirect effects
- Cumulative impacts





WCS Commitments at the Vilm Workshop in 2013



Federal Ministry for the
Environment, Nature Conservation
and Nuclear Safety



Workshop on Minimizing Conflicts between Migrating Wildlife and Mining in Central Asia

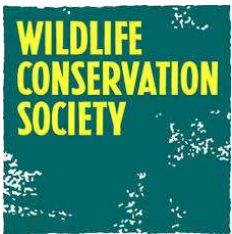
International Academy for Nature Conservation Isle of Vilm /Germany, 20th – 24th June 2013

Representatives of the Governments of Mongolia, Kazakhstan, Kyrgyzstan and Germany, the CMS, scientific institutions and NGO's discussed the issue of "Minimizing Conflicts between Migrating Wildlife and Mining in Central Asia"



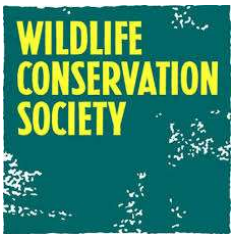
Following commitments accomplished or in process

Solution/Action	Lead	Activity	Time
1. Remove fences along railways	Ministry for the Environment and Green Development Mongolia (MEGD) in coll. with group members	1.1 1 st meeting of joint ministerial working group to agree on fence removal and modifications	Early July
	MEGD	1.2 Fence subgroup to plan the fence removal and related activities incl. soft slopes	July 2013
	MEGD	1.3 Remove the fence in 2 priority sites	September 2013
	MEGD	1.4 Set up monitoring of effectiveness of fence removal and present results to decision-makers	Parallel to fence removal activities; Report to be presented in July 2014
3. Improve green economic leverage for funding wildlife-friendly infrastructure	MEGD; Wildlife Conservation Society Mongolia (WCS)	3.1 Study international experiences of green economic leverage for funding wildlife-friendly infrastructure	By end of 2013
		3.2 Organize workshop on result of above study	2014
		3.3 Frame draft legislation for suitable funding strategies for wildlife-friendly infrastructure	2014



Following commitments accomplished or in process

3. Improve green economic leverage for funding wildlife-friendly infrastructure	MEGD; Wildlife Conservation Society Mongolia (WCS)	3.1 Study international experiences of green economic leverage for funding wildlife-friendly infrastructure	By end of 2013
		3.2 Organize workshop on result of above study	2014
		3.3 Frame draft legislation for suitable funding strategies for wildlife-friendly infrastructure	2014
4. Road curfews	WCS, MEGD	4.1 Approach OT and ER again to discuss curfews as a mitigation option and ask them to test it and monitor wildlife movements	Start 2013, monitor longer
		4.2 Monitor existing curfews to understand effectiveness	Start 2013
		4.3 Consider upscaling if it works (identifying further roads, species)	



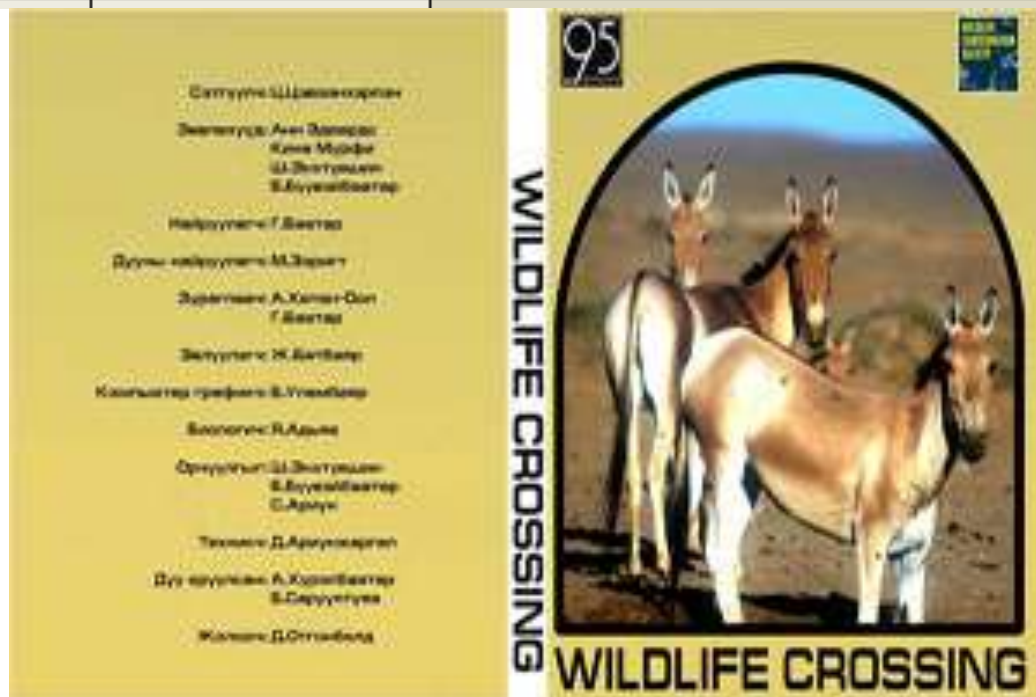
Following commitments accomplished or in process

5. Over- and underpasses (green bridges)	WCS	5.1 Develop project proposal on under- and overpasses, and monitor effectiveness, seeking permission from Mongolian authorities	
	MEGD, WCS	5.2 Convene meeting with scientists to determine how existing herder under- and overpasses of the railroad might suit the needs of some species; monitoring existing underpasses	2013
6. Anti-poaching actions	MEGD, ME KZ, ME Kyrgyzstan (KG)	6.1 Develop and implement public awareness programme (ME KZ)	2013
	MEGD	6.2 Strengthen technical capacity of border staff /customs (dogs, etc.) ; explore funding for that; explore possibility for Mongolian custom officer /rangers to take part in KZ trainings	2014
	WCS (and Oyu Tolgoi OT)	6.3 Continue and expand anti-poaching work in South Gobi (programme to be coordinated with MEGD and provincial govt)	Ongoing, main phase 2013/2014
	MEGD	6.4 Continue collaborative approach to anti-poaching	ongoing
	MEGD	6.5 Discuss with mining companies what they could do to reduce poaching of their staff in the frame of the MoU	2013



Following commitments accomplished or in process

17. Promotion: pride of nomadic heritage (“land without fences”) campaign	WCS	17.1. Highlight the motto (land without fences) in the documentary about the study tour to the US	Summer 2013
	MEGD	17.2. work with tourism association to promote the motto	Start 2013
	CMS	17.3. Fundraise for a short trailer	Start 2013



Thank you for your attention

