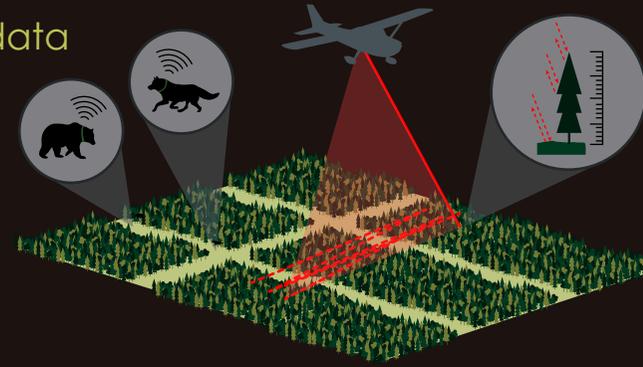


The Question:

Seismic lines facilitate predator movement, but will vegetation regrowth be enough to alter predator response?

GPS collar data



LiDAR

Spring

Wolves moved towards seismic lines with higher vegetation



Summer & Fall

Wolves moved towards, and faster near, seismic lines with lower vegetation



Winter

Wolves moved towards all seismic lines



Spring & Summer

Bears moved towards seismic lines with lower vegetation



Wolves moved towards seismic lines regardless of vegetation height; during summer and fall, they moved faster near those with vegetation $< 0.7\text{ m}$.

Bears did not respond to seismic lines with higher vegetation

Implications:

Natural regeneration may not be enough to alter wolf response to seismic lines – active restoration/alternate prey management could be evaluated.

Finnegan L, Pigeon KE, Cranston J, Hebblewhite M, Musiani M, Neufeld L, Schmiegelow F, Duval J, Stenhouse GB (2018) Natural regeneration on seismic lines influences movement behaviour of wolves and grizzly bears. PLOS ONE <https://doi.org/10.1371/journal.pone.0195480>

@lfinnegal

Illustrated by: Jennifer Hird