NDSSL with IPM Nepal Project

Statement of Work:

BI in cooperation with IPM project personnel and Tribhuvan University in Nepal will develop computational methods that combine ideas in GIS and Machine learning to assess the bio-diversity and its changes in Nepal. Nepal is a unique place in terms of bio-diversity. Our methods will combine detailed GIS data with satellite imagery to infer how bio-diversity is affected due to climate change and human settlements.

We will assume that IPM/Tribhuvan will provide access to GIS and Satellite data. We will help identify these data sets. The resolution (spatial, temporal and spectral) will be important to train machine learning tools and we expect that the quality of the outcomes will crucially depend on the quality of basic data sets.

Project Time: 20 months, starting approximately in May 2018 and ending around December 2019.

Approximate Budget: 140K (we will include two trips, one to Nepal and one to a conference or meeting with sponsors).

Outcomes/Deliverables: (i) ML and GIS methods for image understanding, (ii) reports and published papers, (iii) an assessment of biodiversity changes due to Climate change and human settlements.