Scientific Discovery/Innovation

Ecology

Michael Dietze

- · Significantly improved understanding over the uncertainty of ecological models
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 Significantly improved means of getting data into other models towards more easily using and interconnecting models
 Decision support for backtracking ecological events (e.g. if X happens, Y will happen in the soil, ...)

Hydrology

Praveen Kumar

 Seamlessly extract patterns from spatial/remote sensing/lidar data that are relevant for analysis, modeling and prediction of complex hydrologic processes and directly integrate them with spatially explicit Critical Zone models

Green Infrastructure

Barbara Minsker, William Sullivan, Arthur Schmidt

• Understand how patterns of GI implementation vary across all US cities, what other factors (social, economic, hydro-climatic, etc.) are correlated with the patterns observed, and what the results say about how healthy and resilient U.S. cities are