Urban Sustainability Indicators

- Applying the ISO 37120 - Sustainable cities and communities’ indicators for city services and quality of life to 46 Arctic cities
- Partners: UVA, UNI, MIT, UAA, Moscow State, University of Helsinki and others
- Outputs include a new database on Arctic cities and numerous publications examining the data and city case studies
- Funding: NSF
Circumpolar Active-Layer Monitoring (CALM): Long-term Observations on the Climate Active-Layer Permafrost System

- Depth of annual thaw in permafrost-affected environments (*active-layer thickness*) is one of the main indicators of permafrost stability. This parameter is considered to be the essential climatic variable by the Global Climate Observing System (GCOS).

- CALM is the only coordinated program providing collection, standardization, and dissemination of active-layer observations world-wide.

- Key partners:
  - Northern Michigan University
  - Michigan State University
  - University of Montana

- In collaboration with research and educational institutions from 14 countries. Funding: NSF
Wildland Fires

• ACRoBEAR examines the connection between fires and human health in the Arctic (Belmont Forum)

• FIREWALL studies links between Arctic fires and the region’s energy network (NSF)

Cruise Ship Tourism

• This project examines the impact of cruise ship tourism on the natural, social and built environments of Arctic cities in North America and Europe. Partners include UAS and University of Colorado in Boulder. NSF

COVID-19 in Juneau

• RAPID grant examining governance, economic, Indigenous, healthcare impacts; Key partners – UAS and UAF. NSF