# ETI Thrust Area 1: Data Access and Collaboration

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### 0.1 Introduction

The purpose of this manual is to provide members, particularly those from university institutions, of the Consortium for Enabling Technologies and Innovation (ETI) details for collaboration with national labs. Data that has been gathered with potential interest to ETI collaborators is introduced, and instructions for accessing that data are provided. Hopefully this will serve as a catalyst for university members, like graduate students and their PIs, to partner with ventures at national labs that can benefit from academic research.

# 0.2 Multi-Informatics for Nuclear Operations Scenarios (MINOS)

This venture under NNSA Nonproliferation Research and Development (NA-22) is focused at Oak Ridge National Laboratory (ORNL). It is dedicated towards developing methods for identifying nuclear proliferation. To facilitate this study, MINOS acts as a compendium of datasets collected in various forms and at various locations. This section does not serve as an overview of the MINOS venture and its research efforts. Instead, this section will highlight examples of data that is collected as part of MINOS. For those interested in this data (perhaps for use in modelling and simulations), details will be presented on how to request access to this data and points of contact for collaboration with MINOS.

#### Examples of Available MINOS Data

An ETI Thrust Area 1 collaborators may be interested in MINOS data as a means for developing models and simulations that can be used in nonproliferation research. As it pertains to ETIs mission, MINOS provides real-world data, with ground-truth for some datasets, that can confirm or inform computational models. A brief, non-inclusive list of potential datasets are listed below:

- Seismo-acoustic
- Electro-magnetic

- Biota
- UHI Infrasound
- HFIR Measurements
- REDC Measurements

## 0.2.1 Requesting Data Access

Data is stored and managed by Lawrence Berkeley Laboratory (LBL). To begin the process, start by emailing Dr. Jared Johnson who is the ETI Point of Contact for MINOS. Please state that your affiliation (including your participation in ETI), your interest in collaboration with MINOS, and your intended use for the data. Upon approval, you will be asked to acknowledge and accept the MINOS Data Use Agreement. You will then be forwarded to register an account on the MINOS database and Dr. Brian Quiter of LBL will grant you access.