BERKELEY LAB
Bringing Science Solutions to the World

U.S. DEPARTMENT OF ENERGY
Office of Science

What is Human Subjects Research (HSR)?

Activities conducted for **Research** purposes, with **Interactions** or **Interventions** with living people to collect data about them or specimens from them, **or** using their **Identifiable Private Information**

Human Subjects Committee (HSC) = **Institutional Review Board (IRB)**

Human Subjects Research Examples @ Berkeley Lab

Biomedical Research

- Using/creating radiotracers to visualize things in the brain that impact cognitive ability using PET Scans
- Developing a device to diagnose Alzheimer's Disease using blood samples
- Using de-identified samples from people for any device or drug development intended to diagnose, prevent, or treat diseases/conditions

Modification of the Human Environment

- Testing new technologies in homes and businesses to understand real world implementation barriers
- Monitoring indoor air quality to identify hazards & develop interventions
- Assessing the way that people interface with technologies in their everyday lives

Identifiable Data Use

- Using identifiable private information to develop tools and resources, such as:
  - Mining health data to create tools for better evaluation of treatment needs or risks
  - Using videos/images of people to understand behavior and innovate solutions to public concerns
  - Examining consumer activities to inform policy decisions and identify trends

Surveys/Interviews

- Collecting public opinion on energy or environmental technologies and policies
- Interviewing experts to understand the challenges and opportunities in a field
- Collecting feedback on ways to improve educational opportunities provided through the Lab & DOE