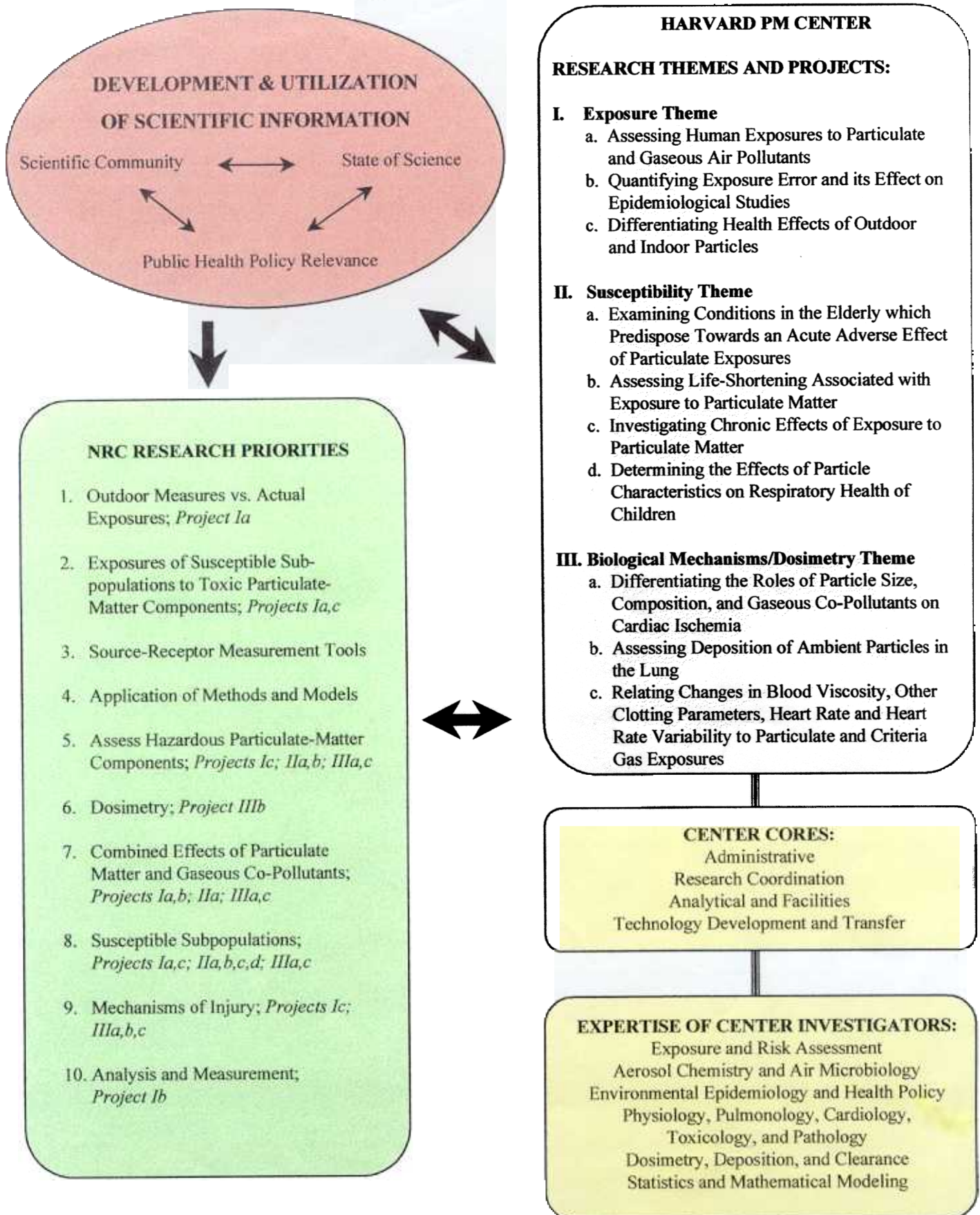


Figure 1: Center Overview



DEVELOPMENT & UTILIZATION OF SCIENTIFIC INFORMATION

Scientific Community ↔ State of Science
↕
Public Health Policy Relevance

NRC RESEARCH PRIORITIES

1. Outdoor Measures vs. Actual Exposures; *Project Ia*
2. Exposures of Susceptible Subpopulations to Toxic Particulate-Matter Components; *Projects Ia,c*
3. Source-Receptor Measurement Tools
4. Application of Methods and Models
5. Assess Hazardous Particulate-Matter Components; *Projects Ic; IIa,b; IIIa,c*
6. Dosimetry; *Project IIIb*
7. Combined Effects of Particulate Matter and Gaseous Co-Pollutants; *Projects Ia,b; IIa; IIIa,c*
8. Susceptible Subpopulations; *Projects Ia,c; IIa,b,c,d; IIIa,c*
9. Mechanisms of Injury; *Projects Ic; IIIa,b,c*
10. Analysis and Measurement; *Project Ib*

HARVARD PM CENTER

RESEARCH THEMES AND PROJECTS:

- I. Exposure Theme**
 - a. Assessing Human Exposures to Particulate and Gaseous Air Pollutants
 - b. Quantifying Exposure Error and its Effect on Epidemiological Studies
 - c. Differentiating Health Effects of Outdoor and Indoor Particles
- II. Susceptibility Theme**
 - a. Examining Conditions in the Elderly which Predispose Towards an Acute Adverse Effect of Particulate Exposures
 - b. Assessing Life-Shortening Associated with Exposure to Particulate Matter
 - c. Investigating Chronic Effects of Exposure to Particulate Matter
 - d. Determining the Effects of Particle Characteristics on Respiratory Health of Children
- III. Biological Mechanisms/Dosimetry Theme**
 - a. Differentiating the Roles of Particle Size, Composition, and Gaseous Co-Pollutants on Cardiac Ischemia
 - b. Assessing Deposition of Ambient Particles in the Lung
 - c. Relating Changes in Blood Viscosity, Other Clotting Parameters, Heart Rate and Heart Rate Variability to Particulate and Criteria Gas Exposures

CENTER CORES:

Administrative
Research Coordination
Analytical and Facilities
Technology Development and Transfer

EXPERTISE OF CENTER INVESTIGATORS:

Exposure and Risk Assessment
Aerosol Chemistry and Air Microbiology
Environmental Epidemiology and Health Policy
Physiology, Pulmonology, Cardiology, Toxicology, and Pathology
Dosimetry, Deposition, and Clearance
Statistics and Mathematical Modeling