

# Creating Profiles of Army Bases

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## Goals:

- How can we use data sources external to the DoD to study issues important to the military (e.g. soldier attrition)?
- Identify local sources of publicly available data to create profiles of Army bases and their surrounding areas.

## Other Information

## Towards an Integrated Data Framework for Understanding the Context of Army Environments

## Administrative Data

### Data and Information Map\*

#### Variables We Have

- Policy changes (e.g., peacetime vs. war)
- Non-personal shock events (e.g., 9/11)
- Job alternatives (e.g., ACS employment)
- Local community (e.g., ACS data)

#### Constructs to be Modeled

- National Army prestige/support
- Cohesion
- Job satisfaction
- Job investment
- Commitment norms

#### Sociocultural Environment

#### Location (Base) x Time

#### Occupation x Location x Time

#### Individual

#### Demographics

- Race
- Ethnicity
- Sex
- Birthdate/Age
- Faith group
- Education level and discipline
- Marital status
- Spouse in military indicator
- Number and type of dependents
- ASVAB score
- State/country of residence before entry

#### Service Dates and Locations

- Length of time in service
- Length of service agreement
- Location (base) over time
- Obligation begin and end dates
- Term of service
- Date of initial entry
- Date of end of initial training

#### Military-Specific Characteristics/Incentives

- Security clearance
- Education incentive indicator
- Career status bonus program indicator
- Object of mission (e.g., advanced cruise missile)
- Occupation group (primary and secondary)
- Re-enlistment eligibility
- Aeronautical rating code (e.g., astronaut)
- Flying status indicator
- Pay grade (e.g., E-3) and length of time in grade
- Character of service (e.g., honorable)

To understand the individual, it is necessary to understand the social contexts in which the individual is embedded. Social contexts represent an ecological system composed of different levels, ranging from the immediate environment to higher social and cultural forces.

\*Unit level not available to us.

# Project Plan: What will we do?

- Data discovery. What are useful local data sources for describing the environment of an army base over time?
- Profiling, preparation, linking data sources.
- Exploring the data thorough visualization, descriptive statistics, analyzing patterns.
- Other output:
  - Data products that can be brought into the PDE and used for modeling.
  - Visual profiles to give highlights of data for each Army base by research question.