

Role-based Access Modeling for Patient Portal

Matt Eby, Mike Eklund, Gabor Karsai, Philip Kuryloski, Dan Masys, Janos Mathe, John Mitchell, Bill Stead, Shankar Sastry, Janos Sztipanovits, Jan Werner, Steve Wicker, Yuan Xue

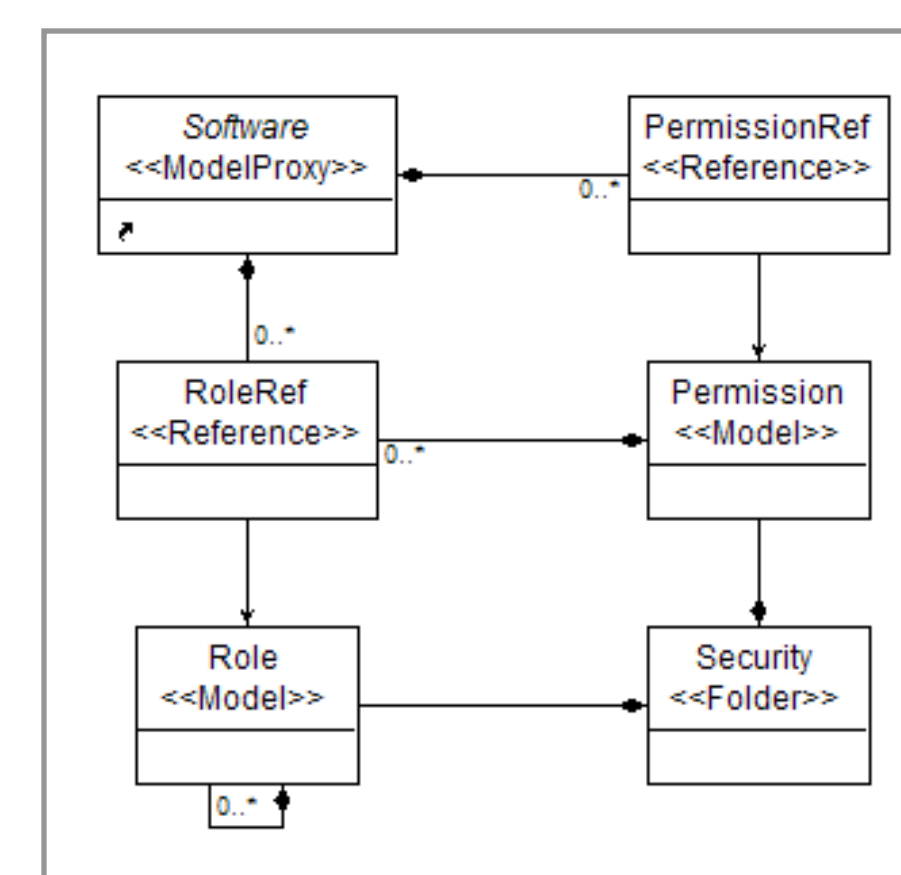
Patient Portal



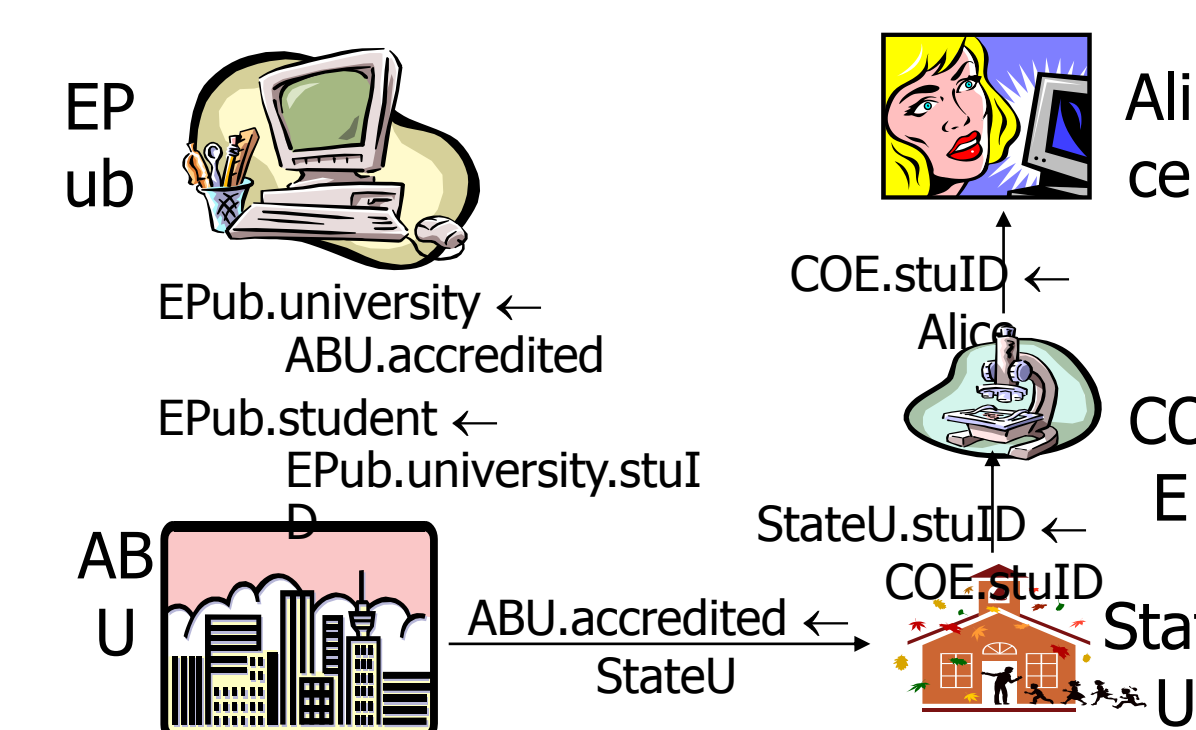
TRUST Resources

- Stanford University
 - Policy Language
- Vanderbilt University
 - Generic Modeling Environment
 - Tools for automatic code generation
- UC Berkley and Cornell University
 - Policy & Legal analysis

Model Role-based Access in AADL



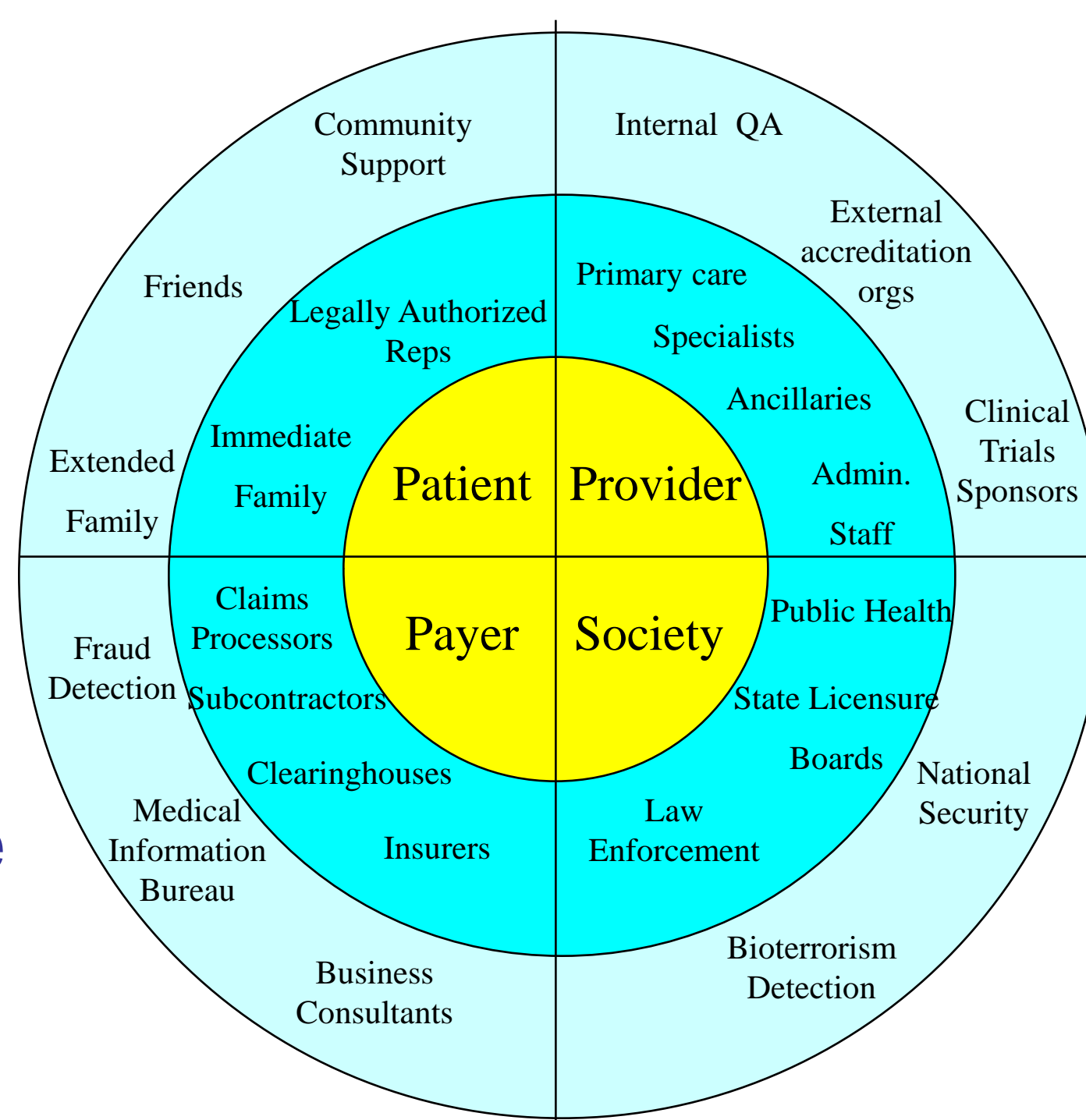
Distributed Policy



Health Care Information Access Role

Nature of Biomedical Data

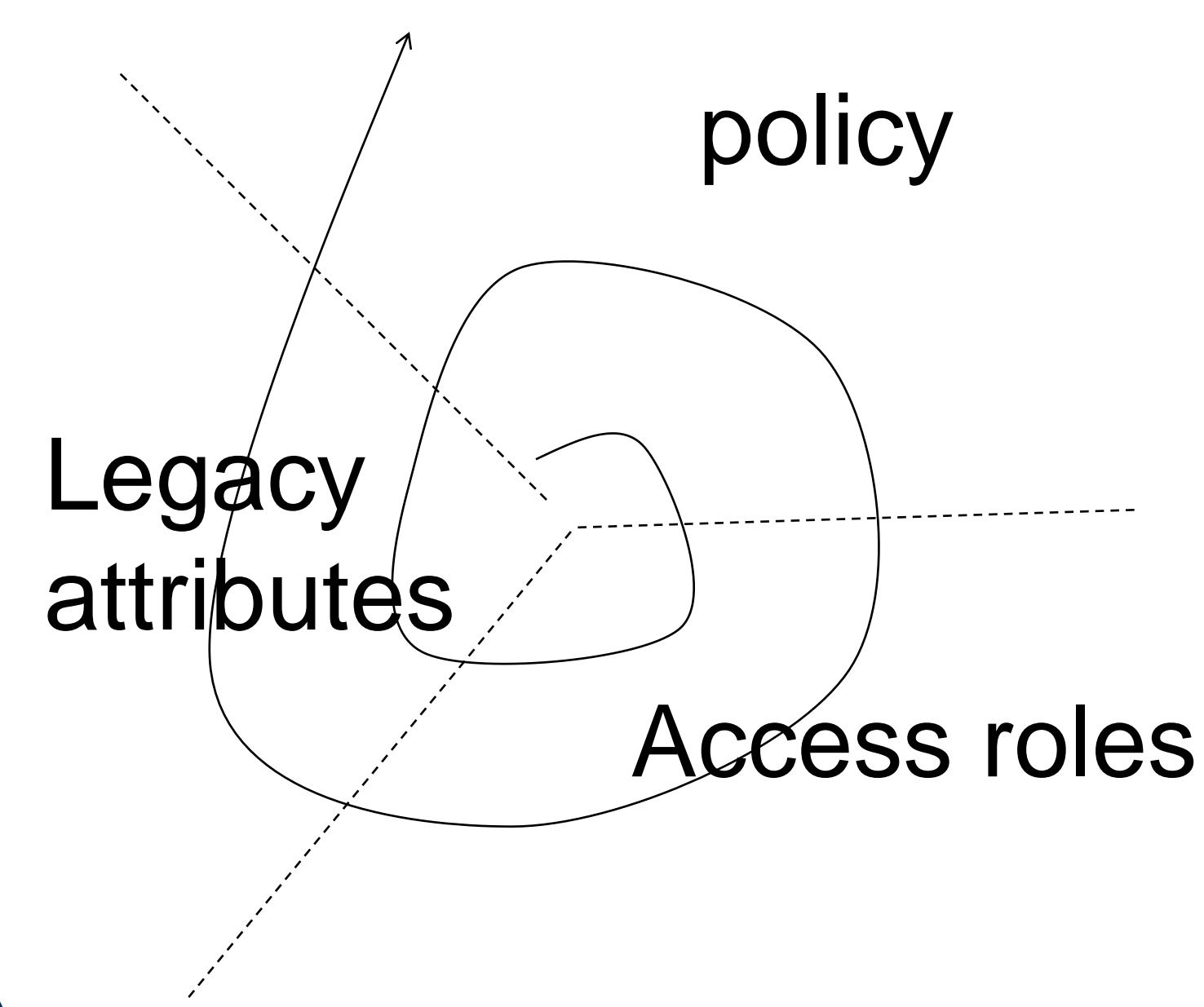
- Variable levels of sensitivity
- No bright line between "identifiable" and "anonymous" data
- Genome as diary: individual's medical data may have implications for other family members
- Complex Roles: Entities with justifiable and variable rights to medical data have multi-level definition



Project Outline

- Meta Model: domain-specific modeling language
- Component Models:
 - Policy: including federal, state and local policies
 - Access Roles: users and their rights
 - Data Classes
 - Legacy System Attributes
- Gap Analysis and Wrapper Model

Project Output



- Software tools
 - With agile ability to implement health care policies and rules
 - For code generation that automatically create patient portal
- Legacy system Integration
- Repository for health information models