Data Linkage: Update

Proposed Data linkage

- NHTSA's 6 Core Data Systems

- NHTSA Performance Measure 6 Pack

Data Linkage

CTDOT

CTDMV

CTDMV

CTDOT

JUDICIAL

DPH

Toxicology

UConn Data Security Standard

- NIST Special Publication 800-171
  - Recommended requirements for federal agencies for protection the confidentiality of controlled unclassified information.

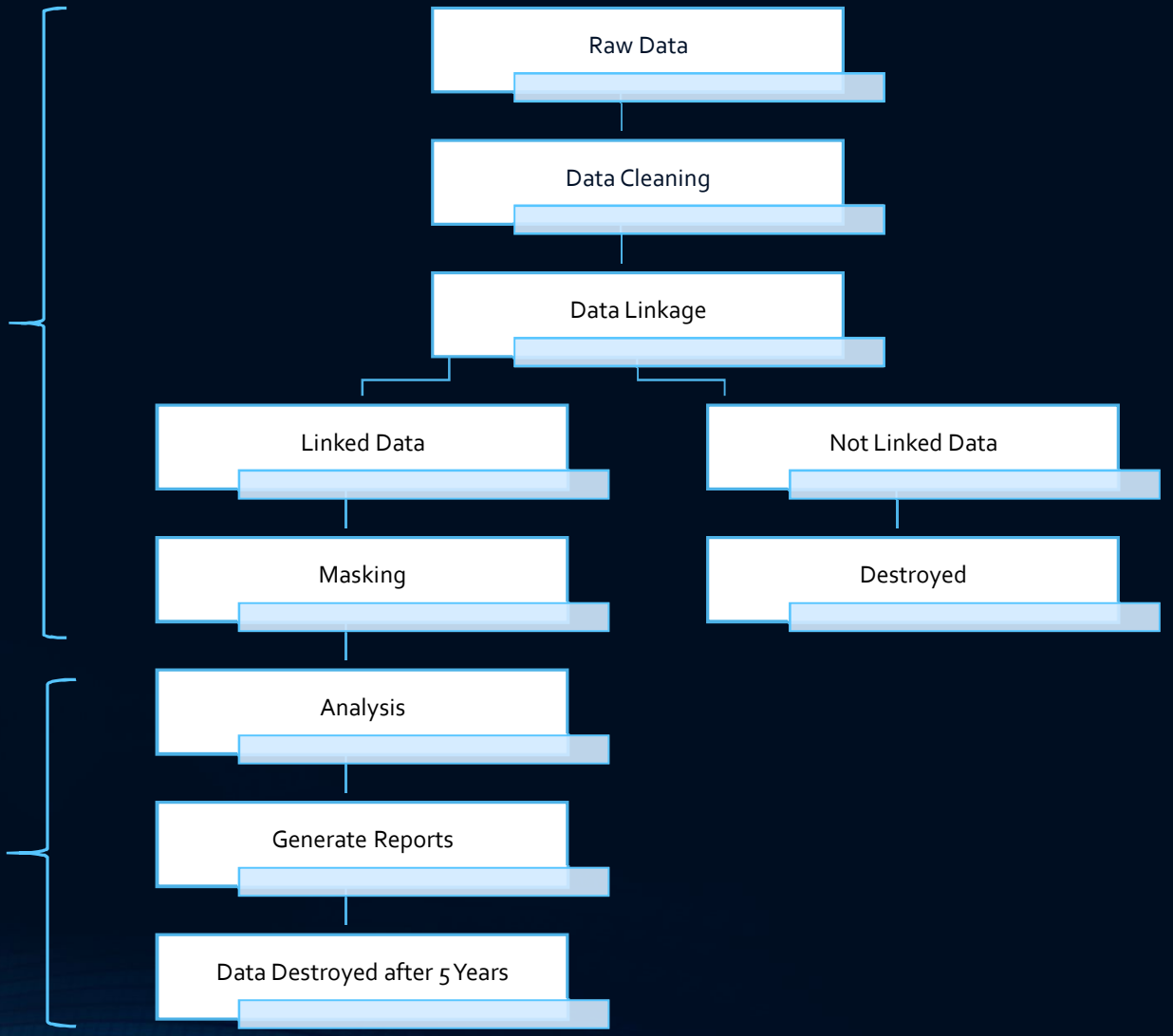
14 Families of Security Requirements

- Access Control
- Awareness and Training
- Audit and Accountability
- Configuration Management
- Identification and Authentication
- Incident Response
- Maintenance
- Media Protection
- Personnel Security
- Physical Protection
- Risk Assessment
- Security Assessment
- System and Communications Protection
- System and Information Integrity

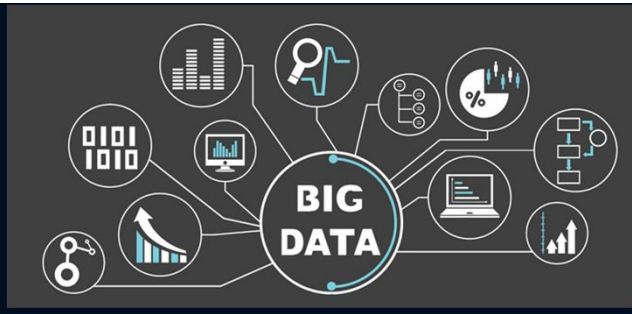
Protection of Privacy for Research Data and Participants

- CITI Social/Behavioral Research with Human Subjects Training
- HIPAA Training
- Certificate of Confidentiality (CoC)
- DPH HIC Confidentiality Pledge
- UConn IRB Approval

Data Cleaning and Linkage Process



Big Picture with Big Data



- In the proposed data integration project, valuable information will be generated to provide a framework for improved coordination and progress toward a common set of goals and objectives, such as:
  - Exploring the etiology of crashes, which in turn will help us develop more effective countermeasures and to construct better prediction equations for identifying crash-prone drivers.
  - Integration of the real-time Linear Referencing System (LRS) and all DOT assets loaded into the LRS
  - Establishing a repository for the state's toxicology lab results to track DUI and drug offenses with relation to crashes and transportation safety trends
  - The development of a citation and adjudication data repository to aid in the evaluation of state programs to deter and effectively prosecute risk taking behavior
  - Linkage to statewide injury and treatment outcome databases maintained by the state to aid in evaluation of crash outcomes and more precise injury classification and prevention
  - Linkage to state and town census data to allow for the display and analysis of socioeconomic data with crash data

Benefits to Other Agencies

CIB should be able to…

- Evaluate the complete offender history for each crash experience.
- Identify risky drivers and repeat DUI offenders as well as new programs to educate or intervene before a driver is involved in a serious or fatal crash.

DESPP should be able to…

- Research the prevalence of the state's drugged driving problem and polydrug use among motorists
- Better understand the association between acute cannabis intoxication and increased crash risk when considering legislation for medical and recreational use.

Benefits to Other Agencies

DMV should be able to….

- evaluate effectiveness of programs such as graduate driving licensing program and ignition interlock program
- identify negligent operators and to eliminate unsafe, incompetent, and physically or mentally unqualified drivers by refusing, restricting, or withdrawing the driving privilege.
- prescribe appropriate driving restrictions or conditions of probation for those cases where adverse physical or mental conditions exist but do not appear to preclude safe driving.
- allocate resources in an optimal manner for management and control of crash risk

DPH should be able to…

- Evaluate the effectiveness of injury prevention programs
- Accurately determine the financial impact of not having primary helmet law
- Evaluate the differences in protective effects of MC helmets by nature of TBI

What Do We Need?