WASHINGTON STATE JUSTICE DATA WAREHOUSE (JDW)

Integrating Justice Data • Informing Policy • Supporting Public Safety

SOURCE DATA PROVIDERS

Washington State Patrol (WSP) Computerized Criminal History (CCH)
Fingerprint-based criminal history & arrest information.

Washington Association of Sheriffs and Police Chiefs (WASPC) Jail Booking Reporting System (JBRS)
Booking and release records from jails.

Washington State Administrative Office of the Courts (AOC)
Case filings and dispositions, and court records.

Caseload Forecast Council (CFC) Judgment and Sentencing (J&S)
Judgement and sentencing information.

Washington State Department of Corrections (WA DOC)
Incarceration, community supervision, release dates, and movement history.

SECURE DATA LOADING (ETL)

- Encrypted transfer
- Automated ingestion
- Audit logging and profiling
- Source system meta data

DATA QUALITY & PROFILING

- Record counts
- Missing values
- Business rules
- Validity & consistency checks
- Data quality flags

STANDARDIZATION & INTEGRATION

- Standardized variables
- Code mapping
- Clean identifiers
- Business rules
- Staging tables

IDENTITY RESOLUTION (MASTER DATA MANAGEMENT)

- Deterministic matching
- Probabilistic matching
- Match confidence
- Duplicate resolution
- PersonID assigned

PII MANAGEMENT & PRIVACY PROTECTION

- Remove direct identifiers
- Mask quasi-identifiers
- Store PII in a separate secure environment
- Access restricted by policy

JUSTICE DATA WAREHOUSE (JDW) OPERATIONAL DATA STORE (ODS)

Integrated • Longitudinal
Deidentified • Research Ready

Linked justice events across the system using a unique PersonID to support comprehensive analysis over time.

7. DATA USE & IMPACT

Research Data Sets
Curated files for approved research projects and statistical analyses

Public Dashboards
Interactive dashboards and visualizations for transparency and insight

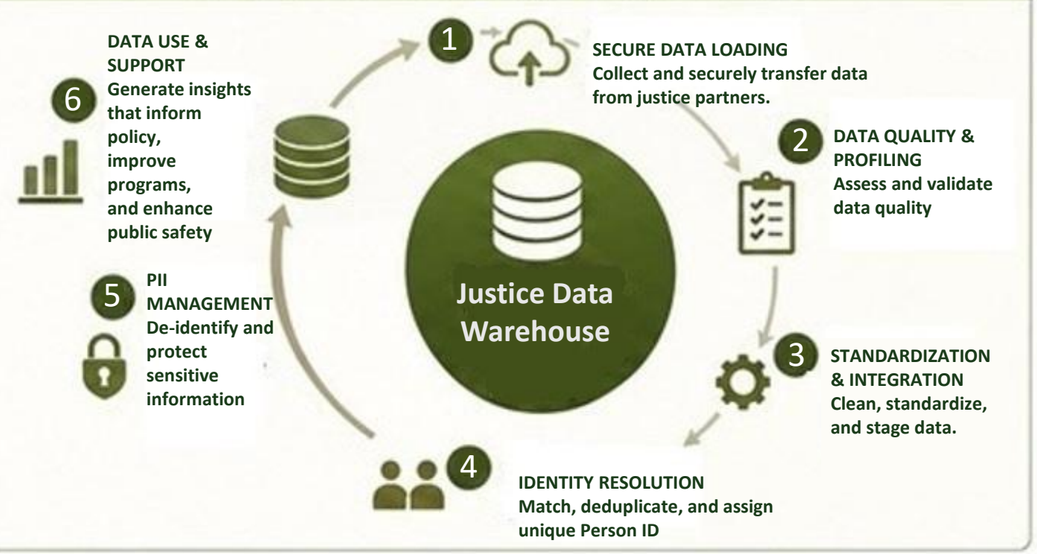
Policy Evaluation
Evaluate programs, policies, and practices to improve outcomes and efficiency

Statistical Analytics
Advanced analytics, modeling, and trend analysis.

Evidence-Based Decision Making
Inform legislators, agencies, and communities to enhance public safety.

Governance & Security
- Data governance & oversight
- Policies & data agreements
- Role-based access controls
- System monitoring & auditing
- Privacy, security, & compliance

JDW PROCESS FLOW – FROM DATA TO DECISIONS



JDW ARCHITECTURE – AN INTEGRATED DATA ECOSYSTEM

INPUTS

- Law Enforcement
- Court
- Sentencing
- Jails
- Department of Corrections

JDW CORE INFRASTRUCTURE

INGEST	Secure transfers, automated ingestion, validation, and data quality checks.
PROFILE	Data profiling, quality assessment, and rule validation.
STANDARDIZE & STAGE	Standardized variables, code mapping, clean identifiers, staging tables.
IDENTITY RESOLUTION	Deterministic & probabilistic matching, duplication resolution, Person ID assignment.
PROTECT	Remove/mask identifiers, store PII separately, and access controlled by policy.
STORE (JDW)	Integrated, longitudinal, de-identified, and research-ready data.
USE	Research datasets, dashboards, evaluation, Analytics, and policy insights.

GOVERNANCE & SECURITY
Data Governance & Oversight
Policies & Data Agreements
Monitoring & Auditing
Privacy, Security, & Compliance

OUTCOMES

- Storage Research & Analysis
- Informed Policy & Practices
- Operational Improvement
- Greater Public Safety

WASHINGTON STATE STATISTICAL ANALYSIS CENTER
Criminal Justice Research & Statistics Center
Informing a data-driven justice system

Washington State Office of Financial Management
PSPRC
Public Safety Policy & Research Center

JDW links available records from participating justice data sources to support longitudinal research and analysis. Coverage varies by source, geography, and time.