Ontology Mapping

Source Systems

- ICD-10
- Local Lab Codes
- RxNorm
- Custom Codes

UMLS Metathesaurus

CUI CUI CUI CUI

UMLS Metathesaurus
00+ terminologi

Target Standards

- SNOMED CT
- LOINC
- NDC
- Standard Codes

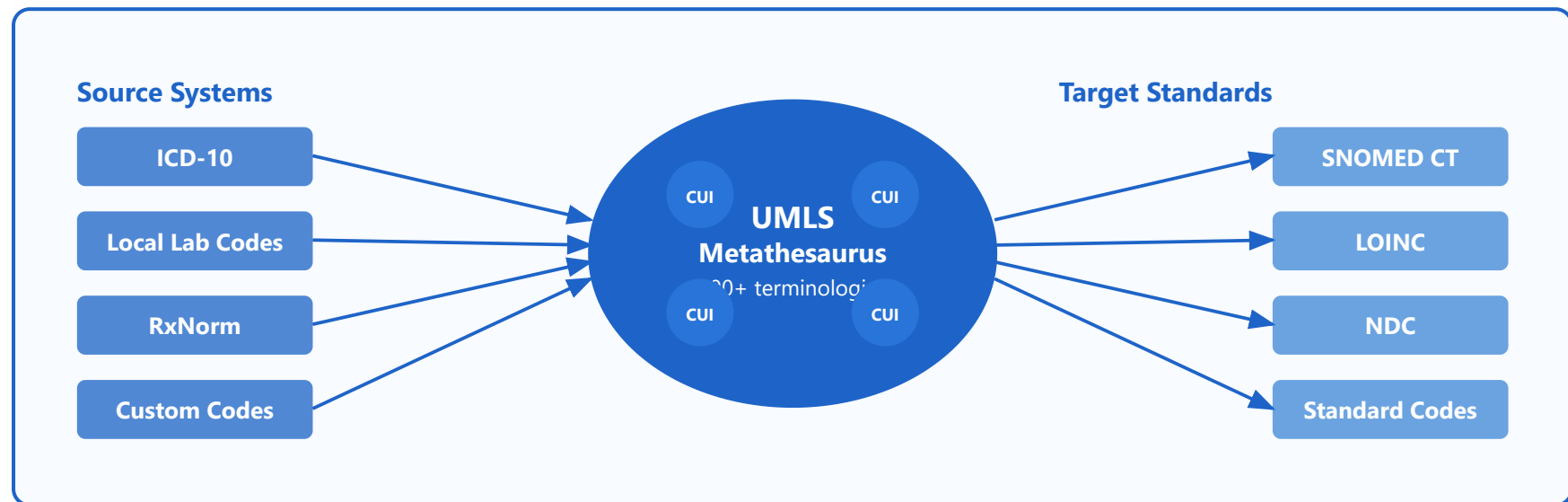## 🔗 Crosswalk Creation

- ICD-10 to SNOMED CT
- LOINC to local lab codes
- RxNorm to NDC
- Manual and automated approaches

🤖 Automated Mapping

- String similarity algorithms
- Lexical matching
- Machine learning classifiers
- Natural language processing

✓ Validation Methods

🌐 UMLS Metathesaurus

- Expert review

- Dual coding

- Inter-rater reliability

- Continuous quality improvement

- Unified Medical Language System

- Integrates 200+ terminologies

- Concept Unique Identifiers (CUI)

- Relationship mappings across systems