Interoperability

Workflows	Organizational / Process Interoperability	Care coordination
Meaning	Semantic Interoperability	SNOMED, LOINC
Data Exchange	Technical Interoperability	HL7 FHIR, APIs

Foundation Layer
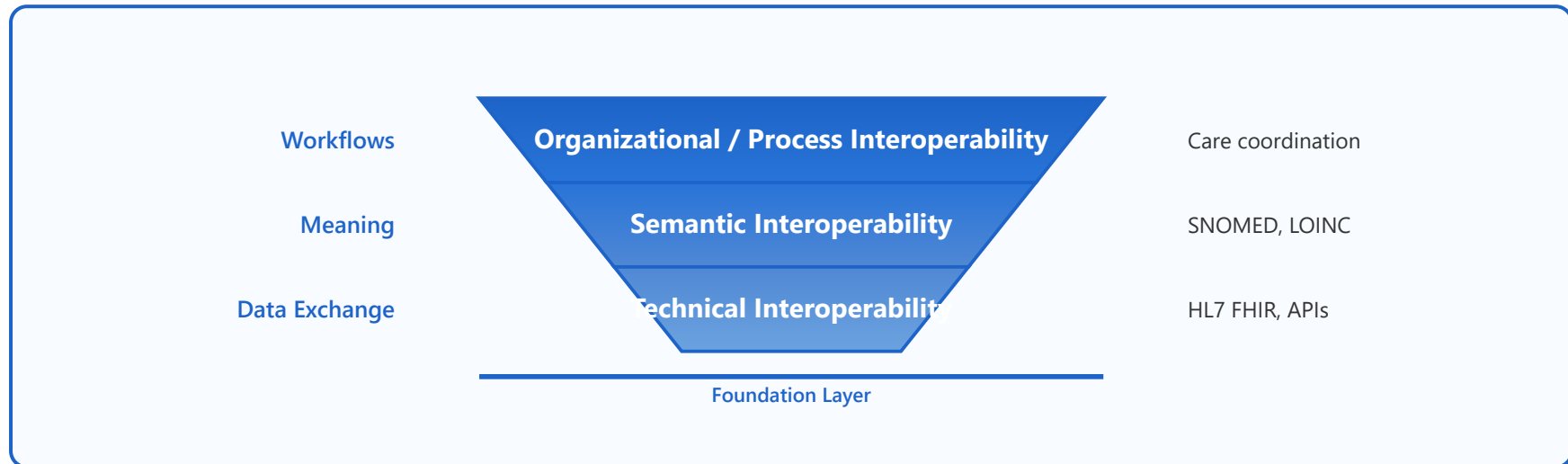
🔧 Technical Standards

- HL7 FHIR
- Direct messaging
- APIs and web services
- Transport protocols (HTTPS, SFTP)

💬 Semantic Standards

- Common terminologies (SNOMED, LOINC)
- Value set harmonization
- Concept mapping
- Unified Code Management

⚙️ Process Interoperability

- Clinical workflows

🌐 Health Information Exchange (HIE)

- Regional/national networks

- Care coordination protocols
- Consent management
- Data governance policies

- Query-based vs push
- Patient matching algorithms
- Blockchain potential for trust