

SCAN FOR WALKTHROUGH, FIGURES, AND OPEN MATERIALS

Semantic Drift in OMOP: Why It Happens, Why It Matters, and How to Detect It

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Semantic Drift Taxonomy



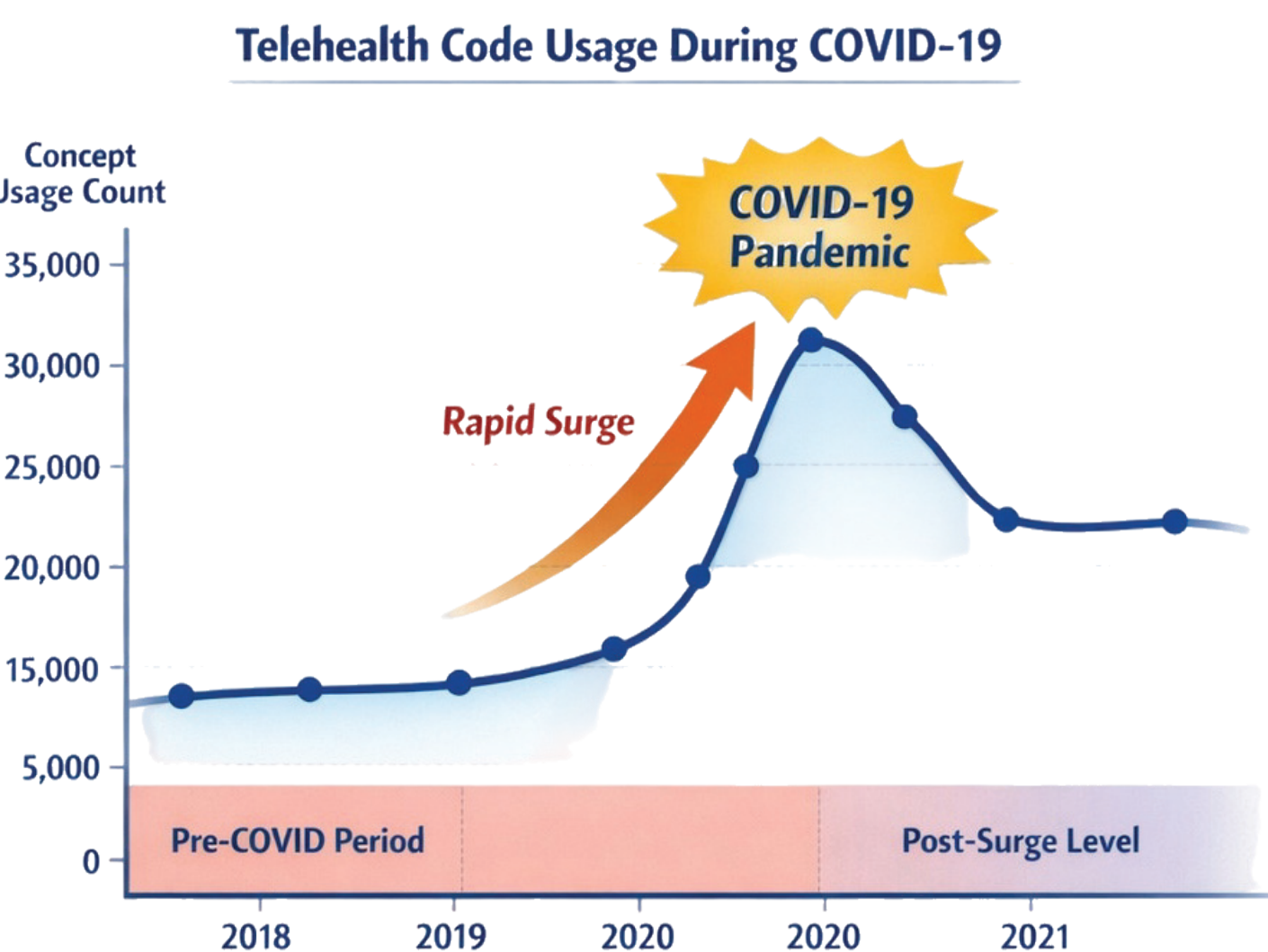
Drift Detection Pipeline



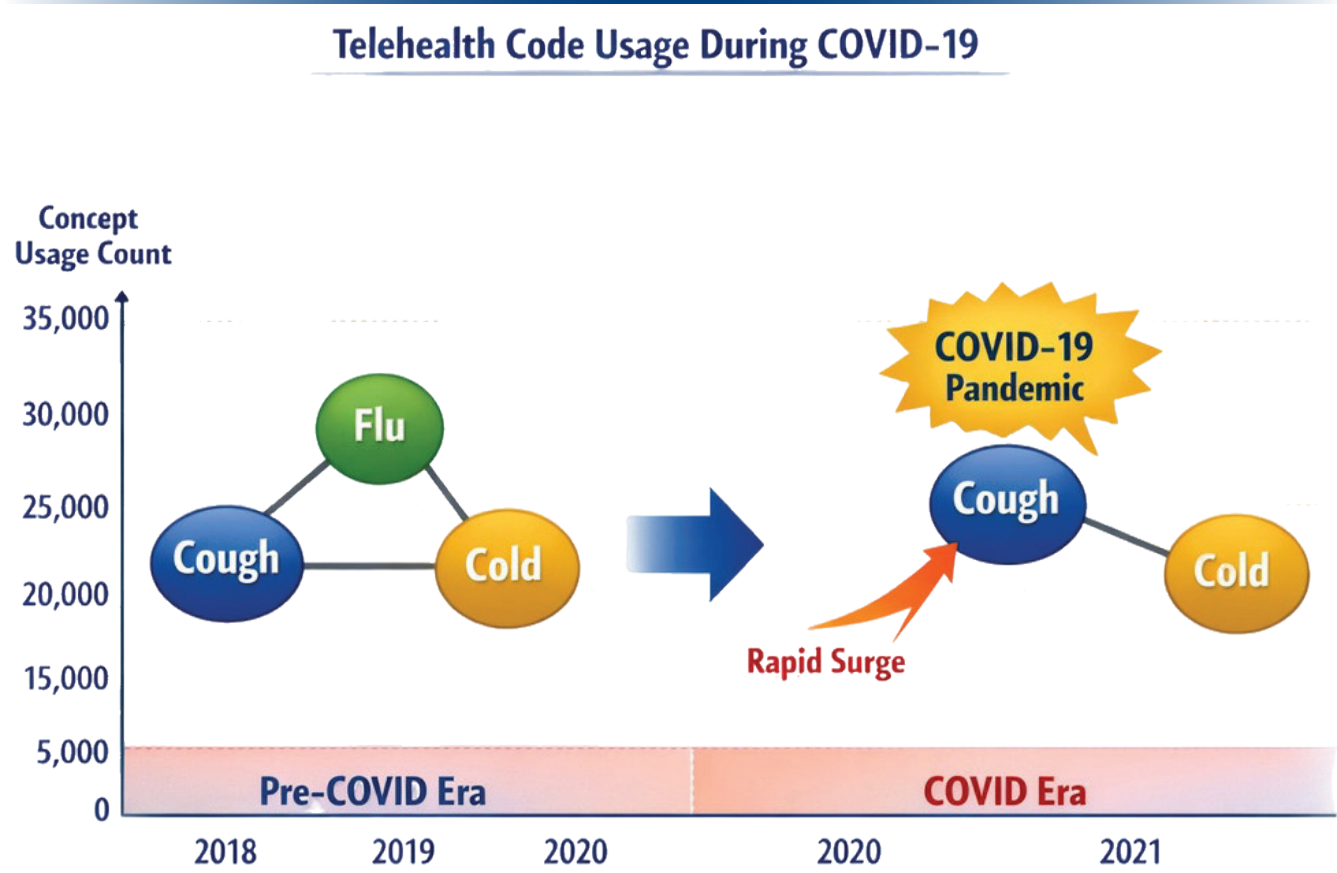
Drift Detection Pipeline

	CONDITION OCCURRENCE	VISIT OCCURRENCE	MEASUREMENT	OBSERVATION	PERSON
Frequency Drift	✓	✓	✓	✓	
Context Drift		✓		✓	
Co-Occurrence Drift		✓	✓		✓
Compute Co-Occurrence Networks		✓	✓		
Vocabulary Drift				✓	
Threshold Drift				✓	
Population Drift		✓			✓
Measurement Drift			✓		
Workflow Drift				✓	

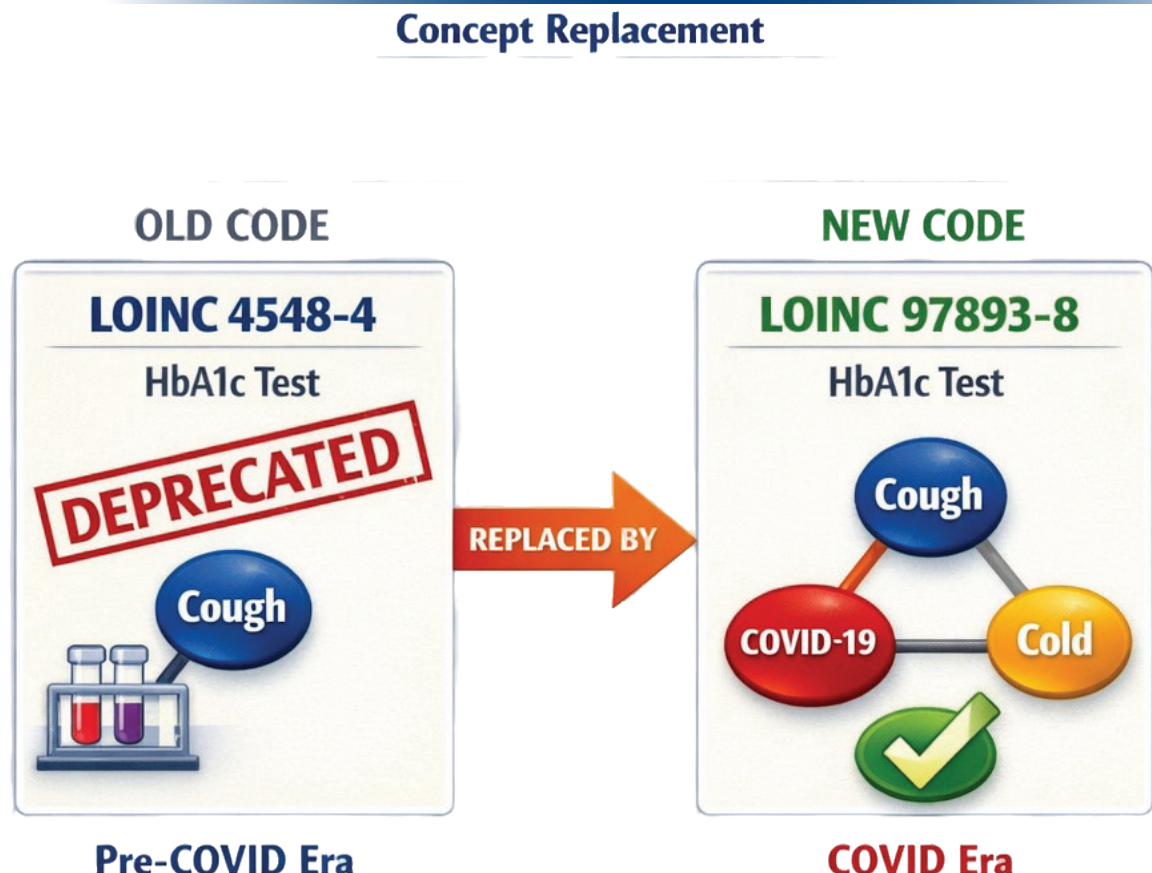
Frequency Drift Example



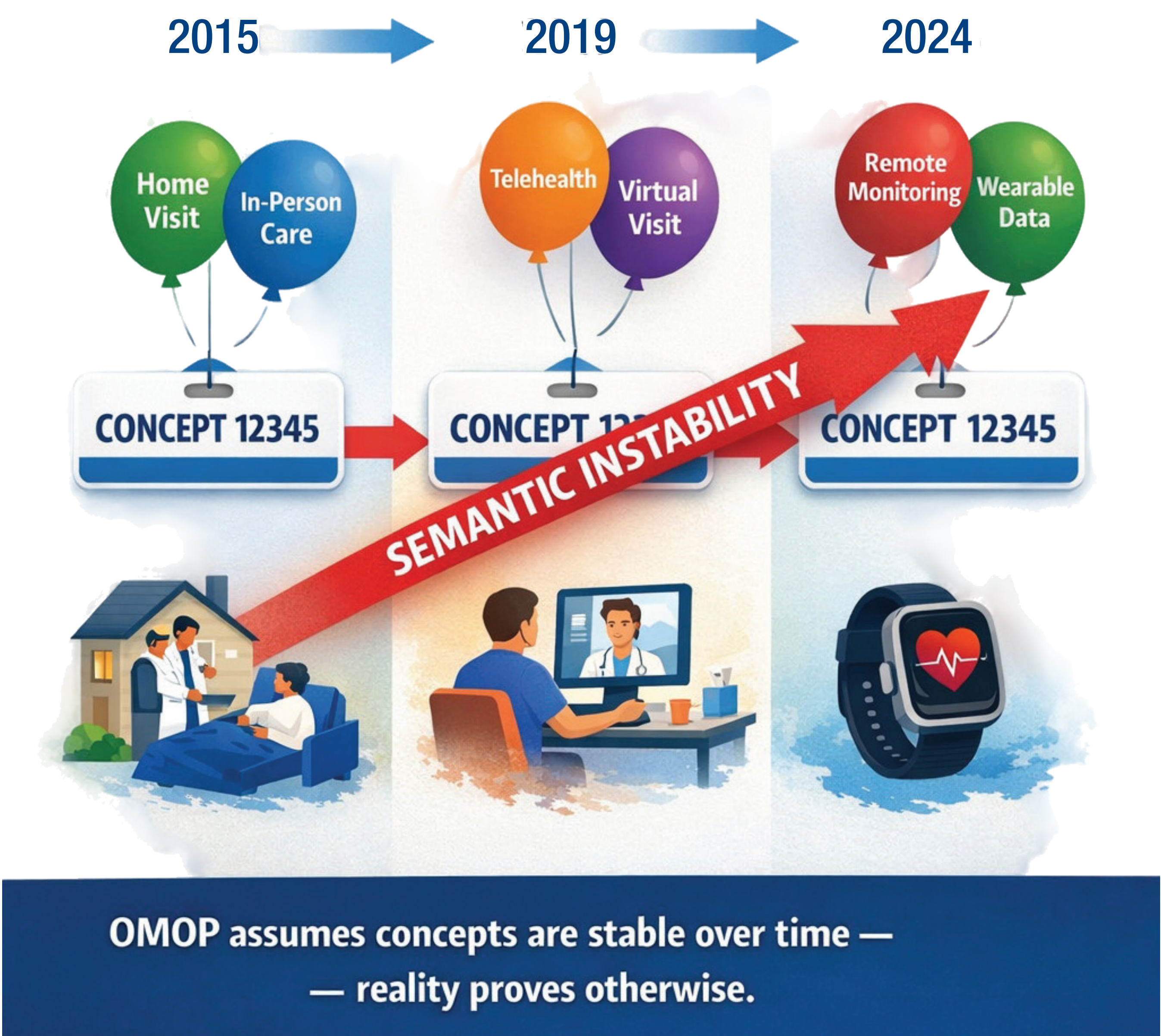
Co-Occurrence Drift Example



Vocabulary Drift Example



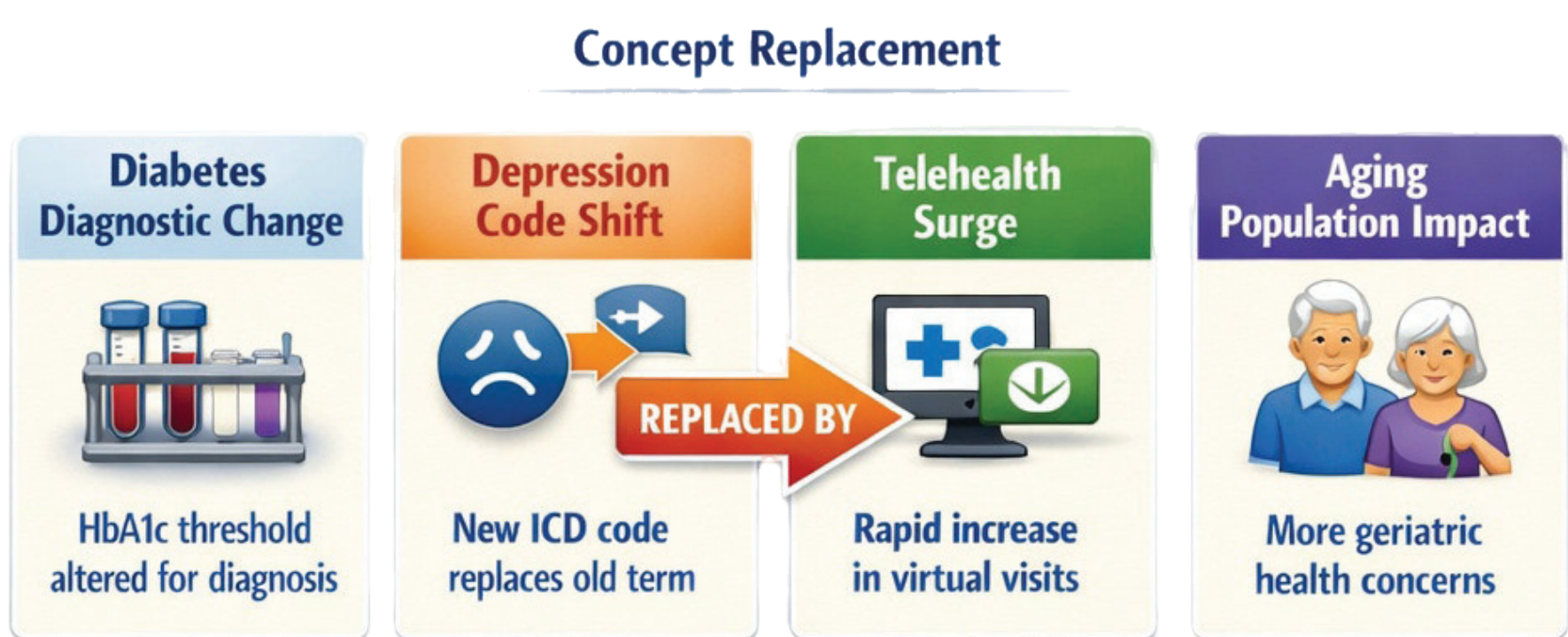
Semantic Drift: Same Code, Changing Meaning



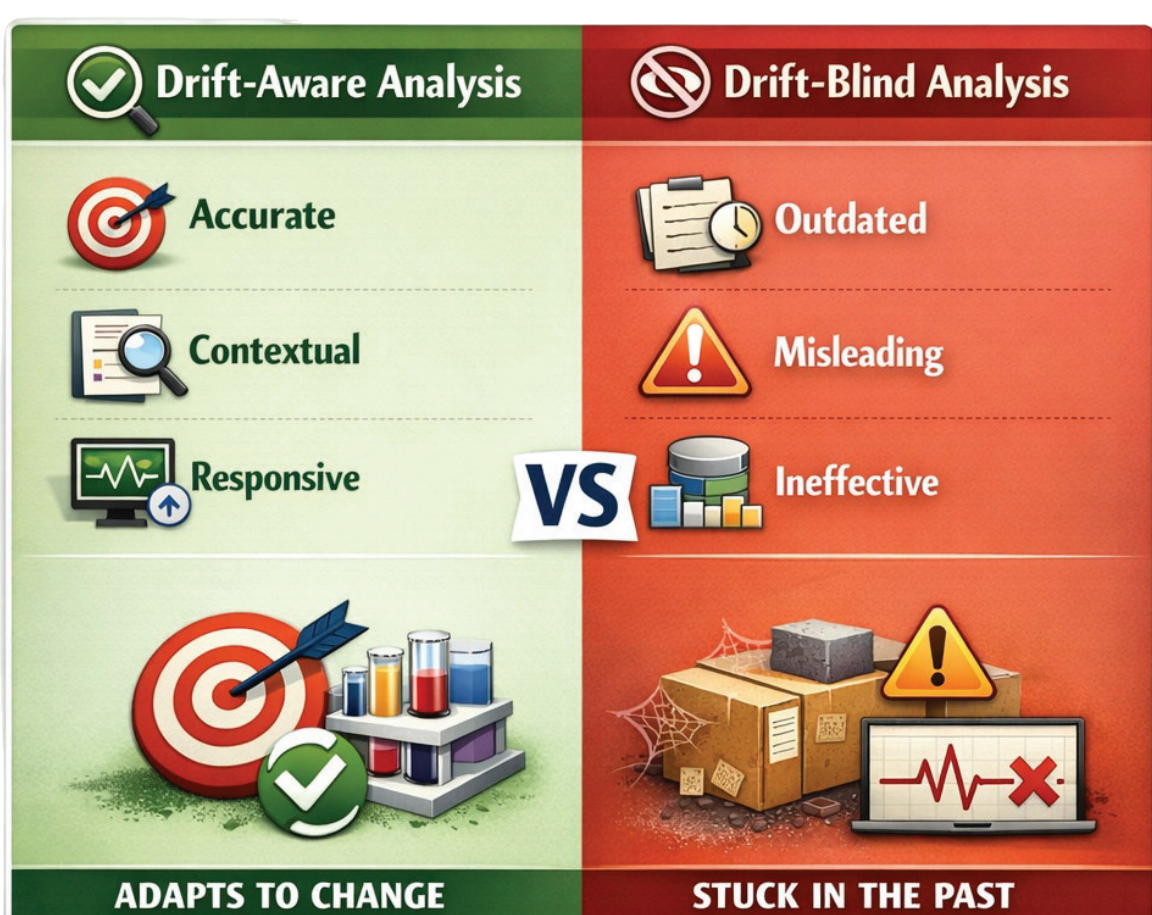
Semantic Drift Taxonomy



Drift Detection Pipeline



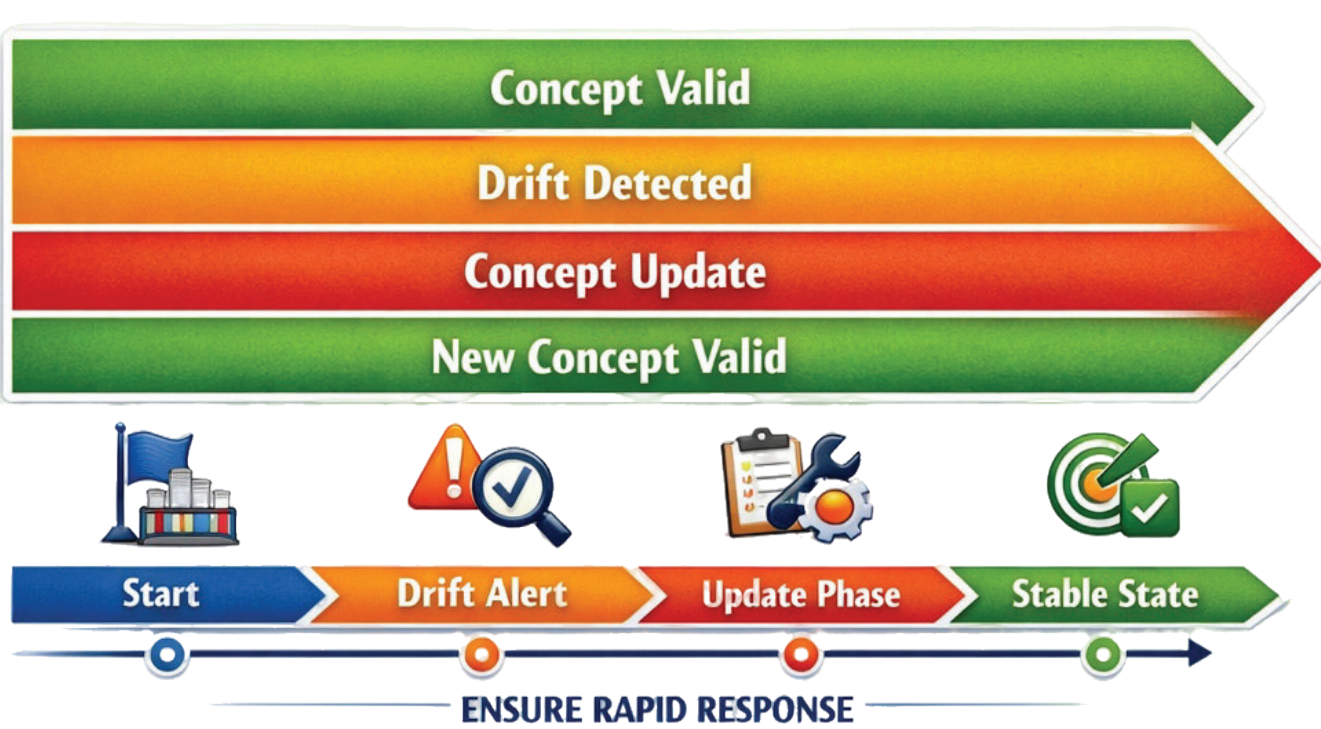
Drift-Aware vs Drift-Blind Analysis Immediate Implementation Path



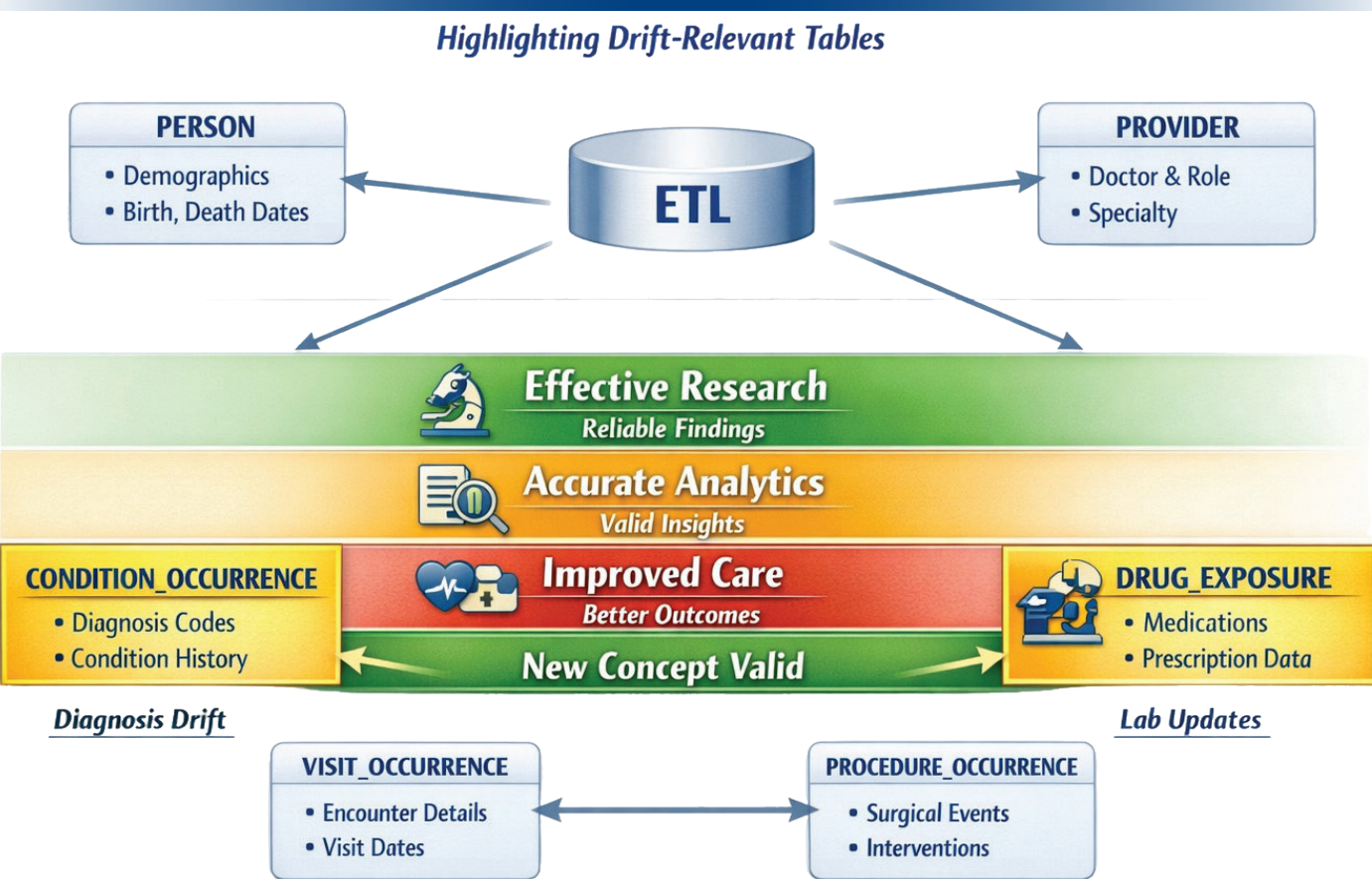
Future Work Roadmap



Temporal Validity Windows



Annotated OMOP-CDM Diagram



Scan for walkthrough, figures, and open materials
OSF Project: Semantic Drift in OMOP

Why this Matters for OMOP

