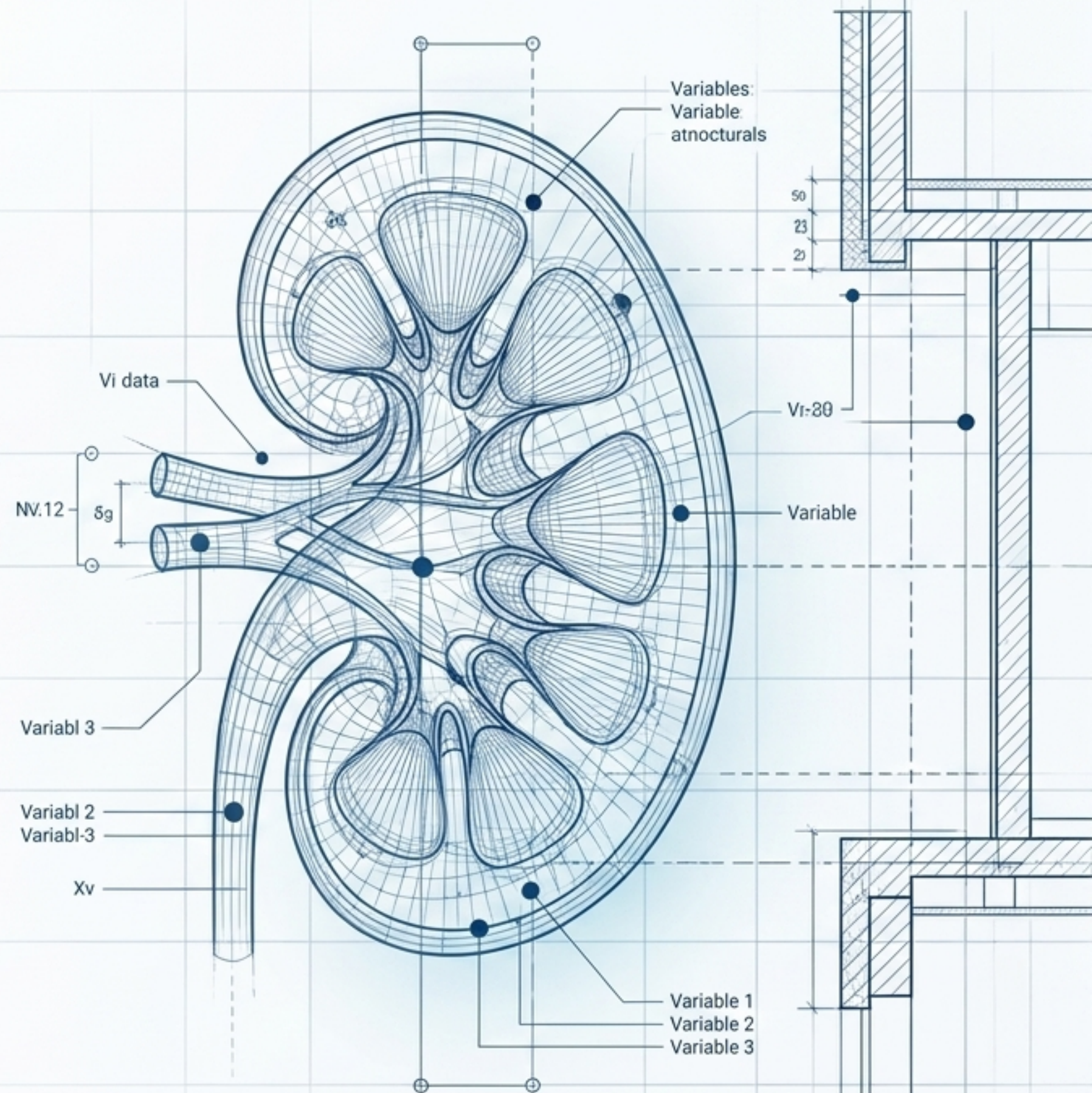


Towards Predictive Renal Healthcare: A Collaborative Research Proposal

NeuNexus Health Intelligence |
Co-Creating the Future of
Predictive Renal Care





Bridging Real-World Care Challenges with Responsible AI

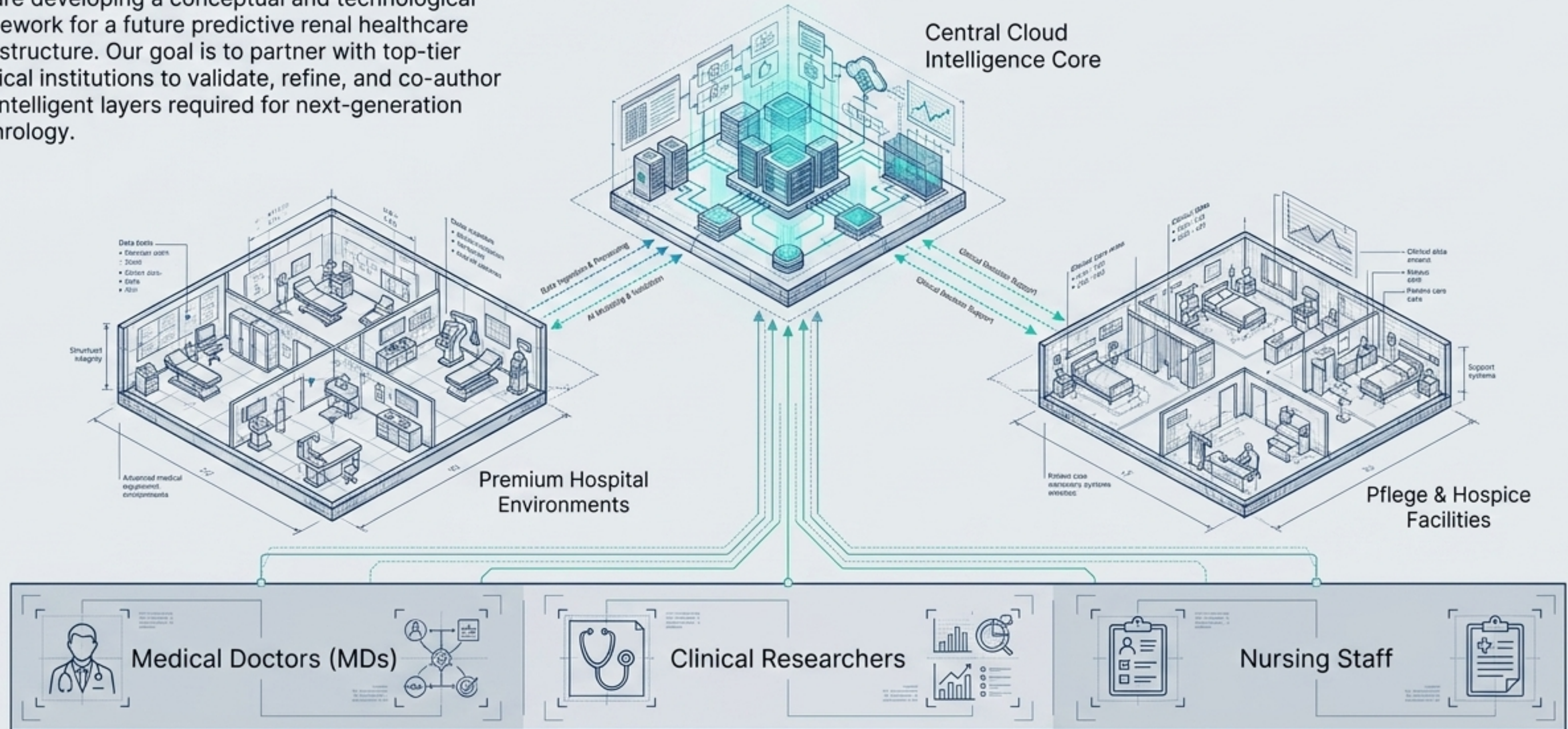


NeuNexus Health Intelligence was initiated from the intersection between practical healthcare experience and technological innovation. The objective is to bridge real-world care challenges with scientific research and responsible AI development.

Driven by practical healthcare gaps requiring deep academic and technological partnerships to solve.

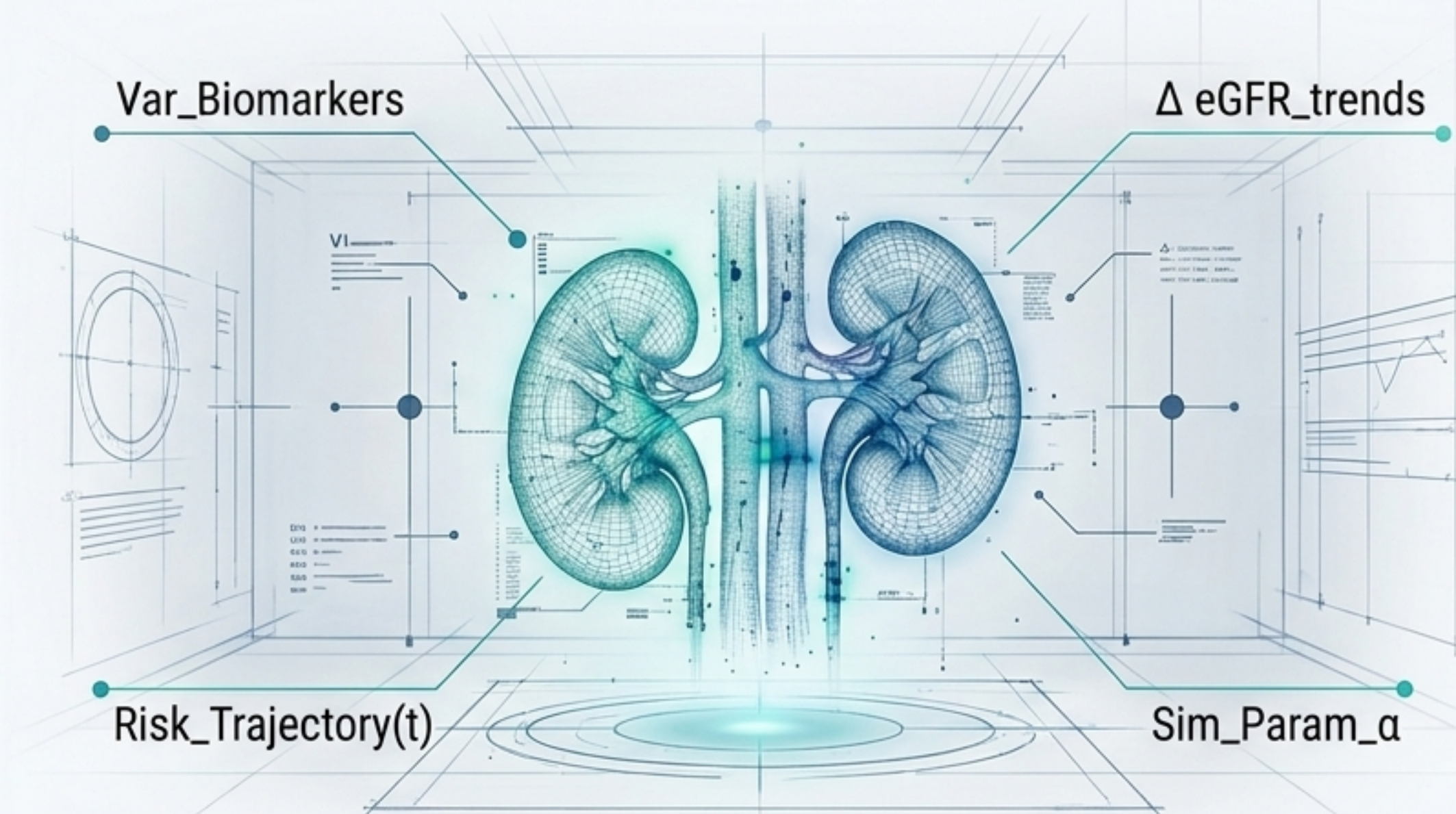
Developing a Conceptual Framework for Predictive Renal Healthcare

We are developing a conceptual and technological framework for a future predictive renal healthcare infrastructure. Our goal is to partner with top-tier medical institutions to validate, refine, and co-author the intelligent layers required for next-generation nephrology.



Core Scientific Inquiry: The Digital Kidney Twin

The core of our research aims to explore the feasibility of a dynamic simulation model representing renal function and patient-specific risk trajectories.

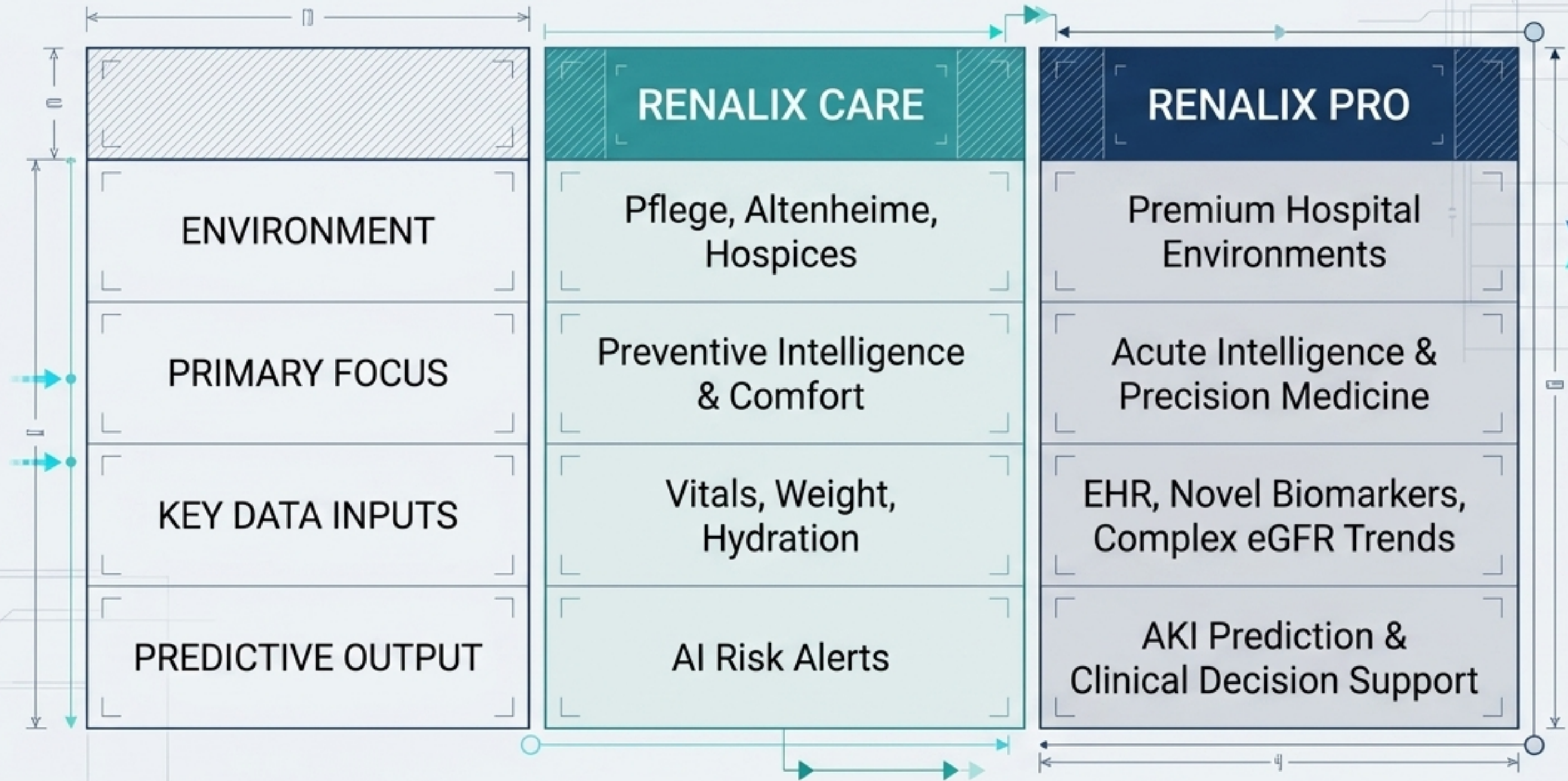


Dynamic Simulation feasibility.

Continuous Learning parameters with real-world clinical data.

Integration mechanics for EHR and device data.

One Intelligence Layer Powering Two Collaborative Environments



Note: Both platforms are conceptual spaces designed to assist—not replace—multi-disciplinary healthcare teams.

Investigating Preventive Intelligence in Human-Centric Settings

Renalix Care is designed to assist nursing professionals (Pflege) and hospices.

Targeted Intercept Points

Hydration Monitoring

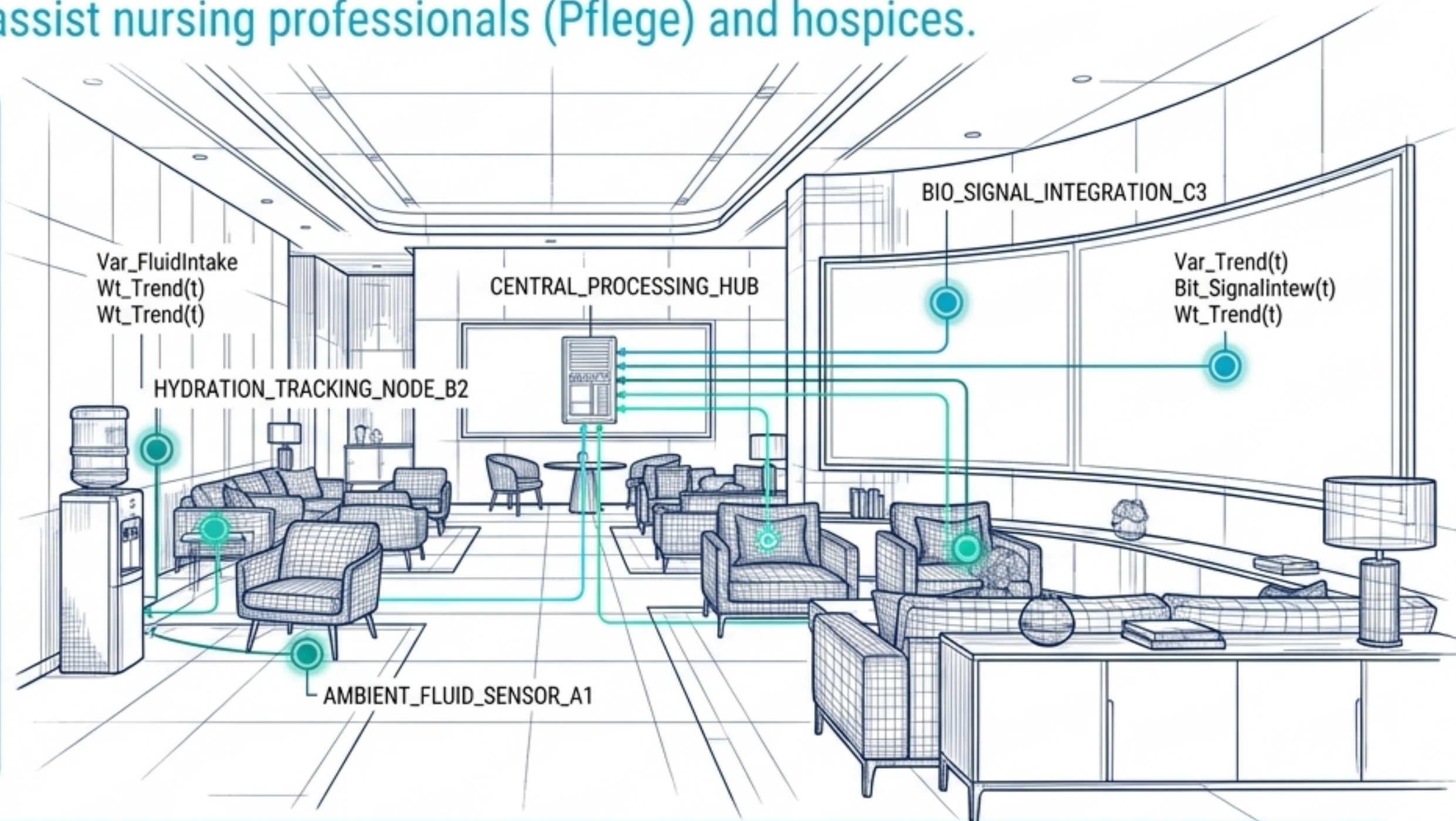
Weight Tracking

Edema Detection

Comfort Intelligence

Symptom Monitoring

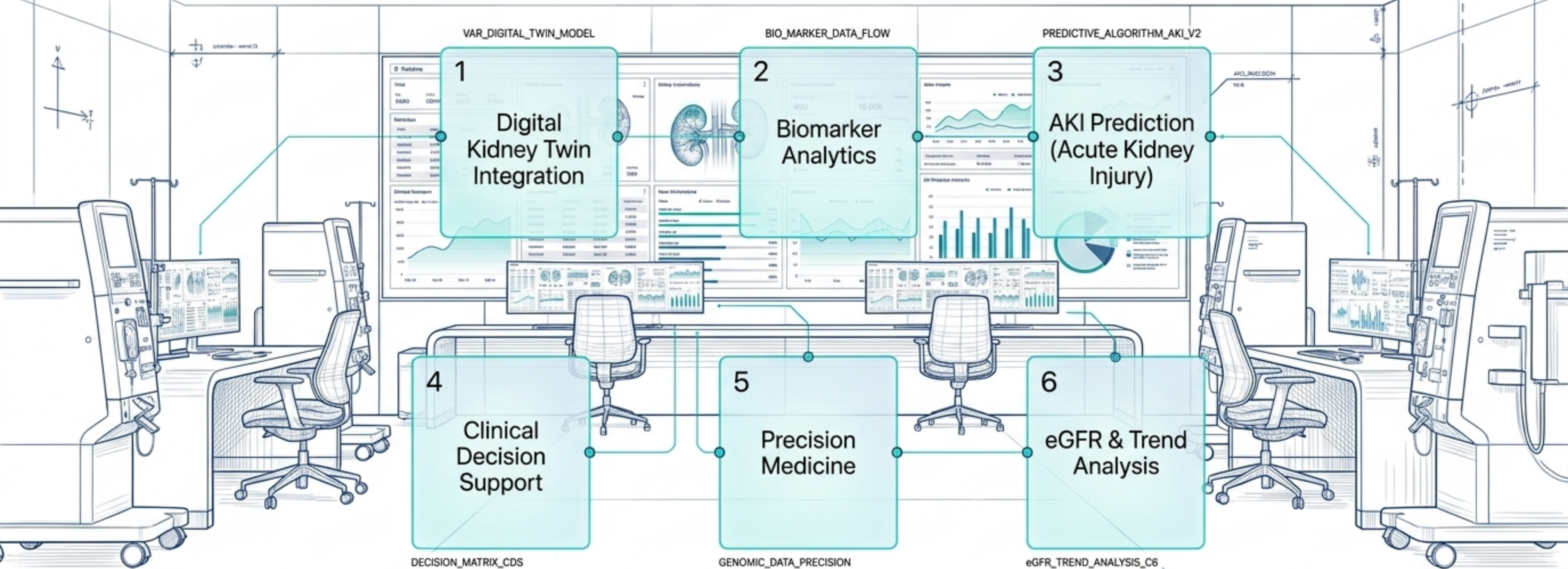
Preliminary AI Risk Alerts



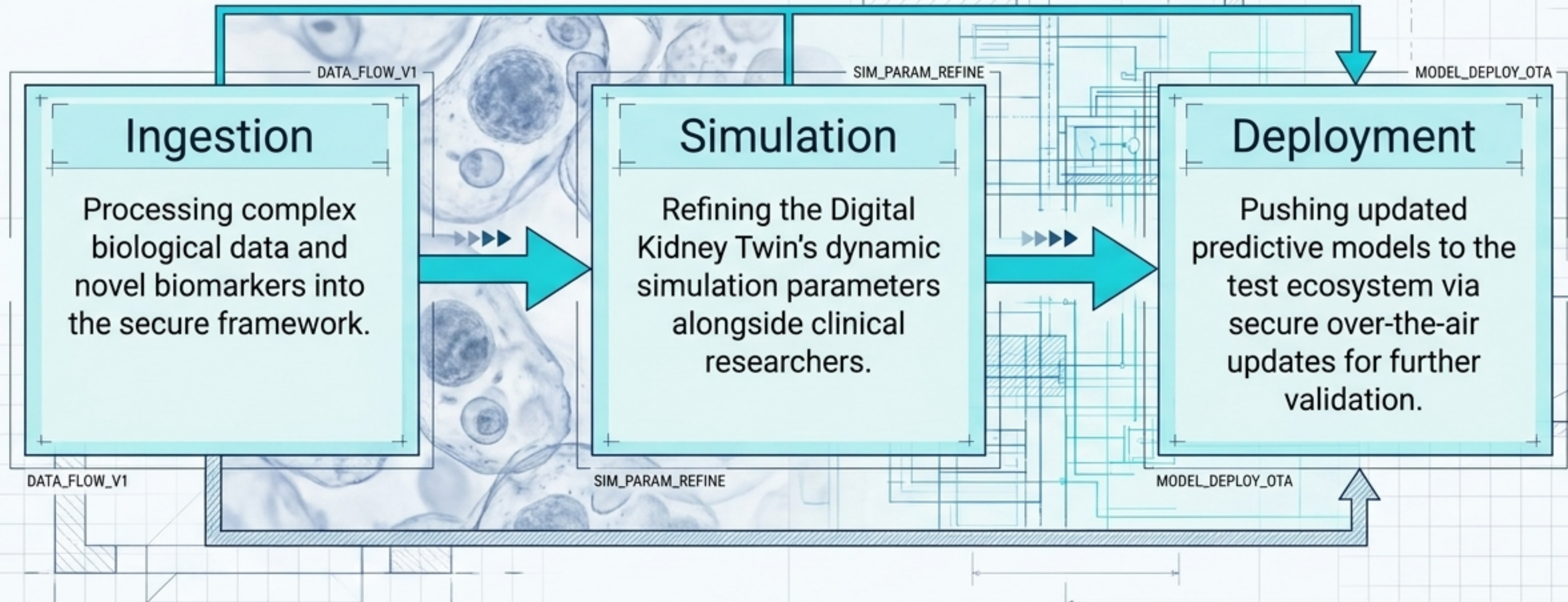
Core Question: How effectively can early, ambient monitoring intercept renal risks before acute escalation?

Designing Clinical Intelligence to Assist Nephrology Teams

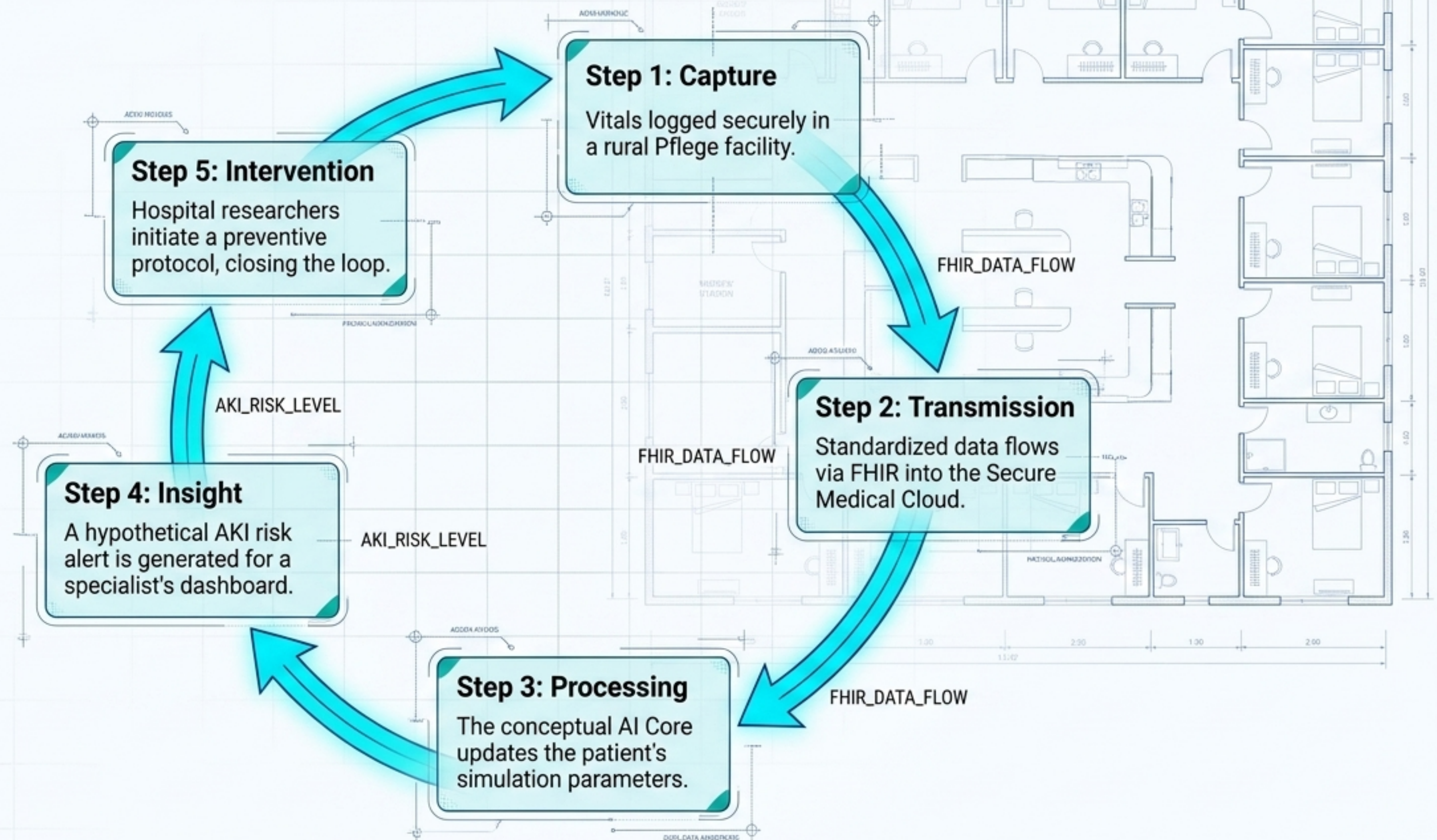
Renalix Pro is a proposed clinical intelligence platform designed to investigate how AI-supported analytics could assist specialists.



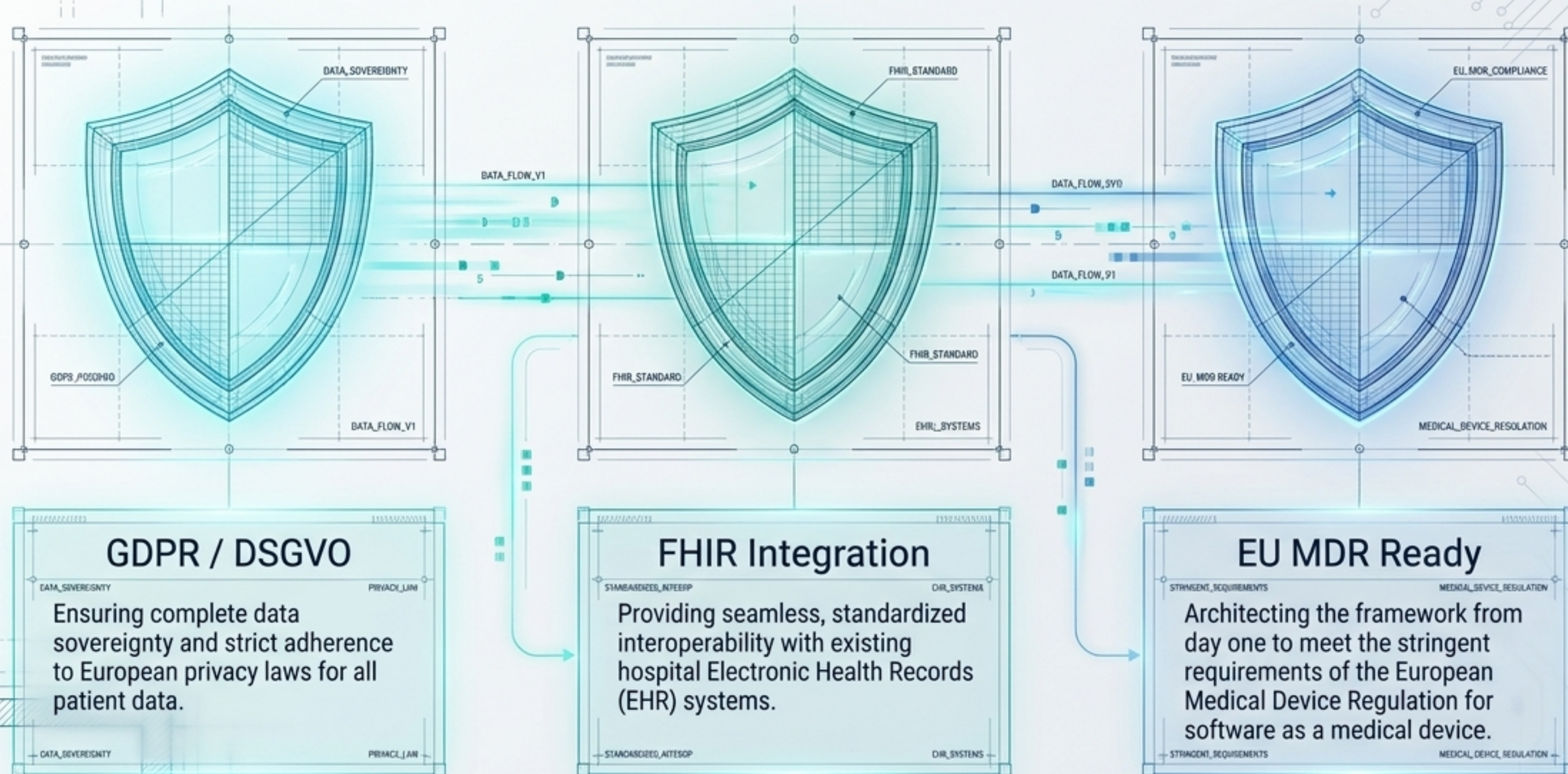
A Systematic Workflow for Complex Biological Data



The Proposed Predictive Research Loop

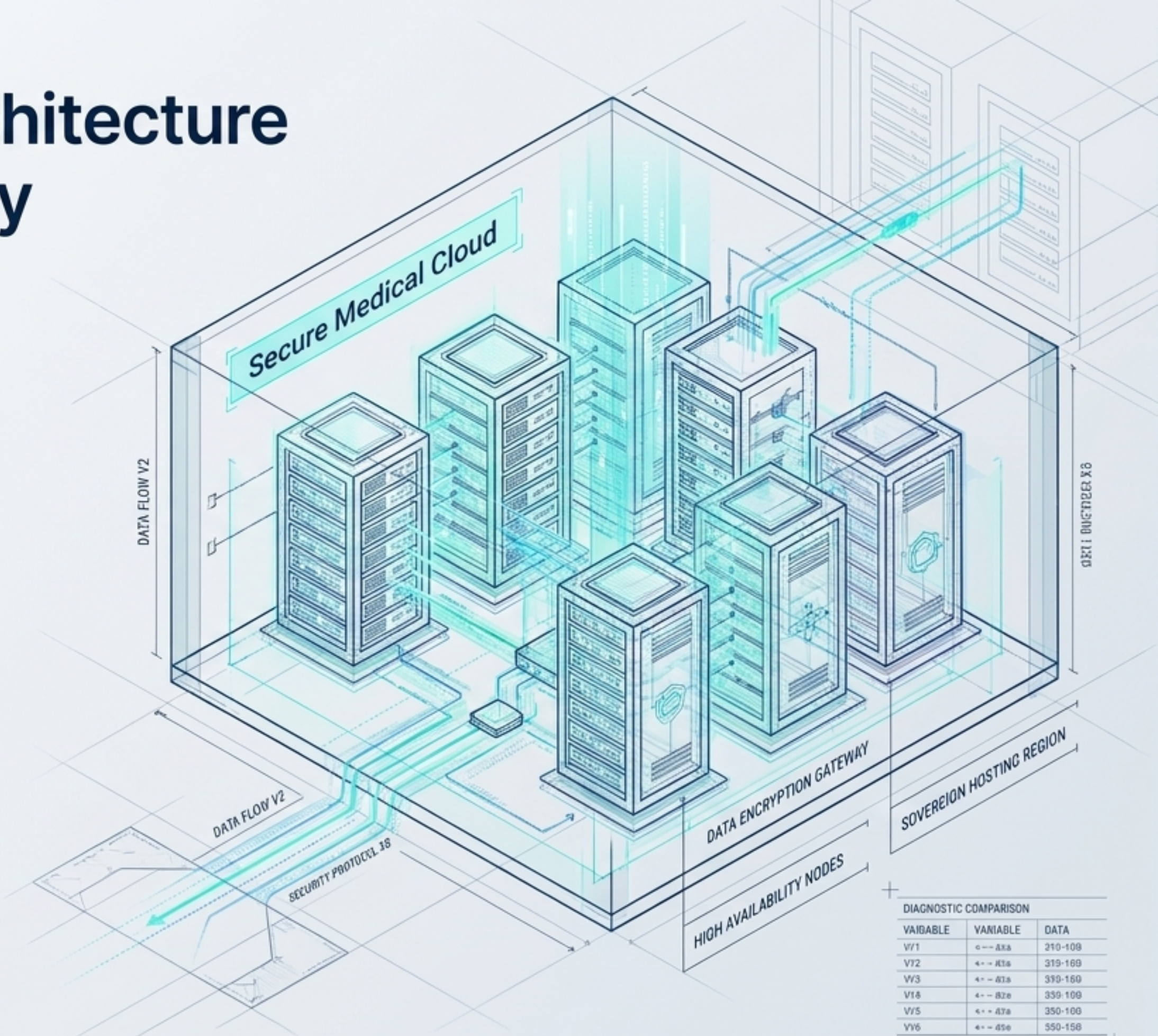


Uncompromising Regulatory and Interoperability Foundations



A Sovereign Data Architecture for Academic Security

STRUCTURAL LAYOUT



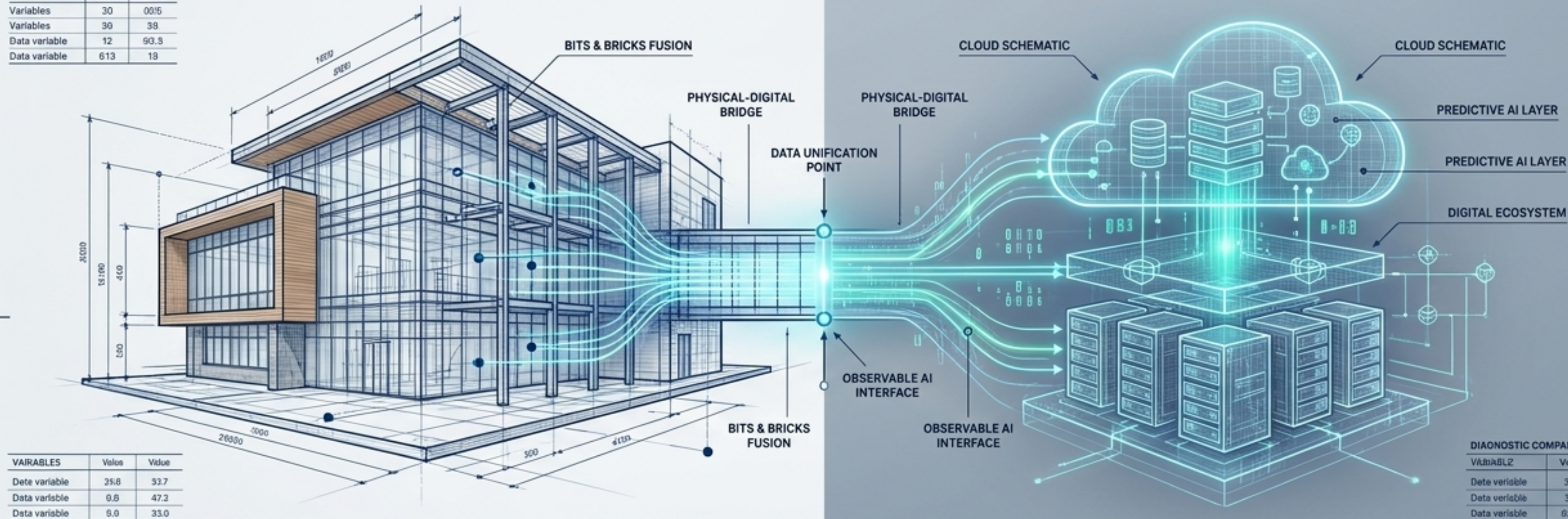
DIAGNOSTIC COMPARISON

VARIABLE	VARIABLE	DATA
V11	0 -- 83a	210-108
V12	4 -- 83a	319-168
V13	4 -- 83a	319-168
V14	4 -- 82e	359-108
V15	4 -- 87a	350-100
V16	4 -- 85e	550-158

'Phygital' Architecture: Making Predictive AI Observable

DIAGNOSTIC COMPARISON

	Min	Max
Variables	30	0015
Variables	30	38
Data variable	12	93.8
Data variable	613	18



VAIRABLES	Velos	Value
Dete variable	35.8	33.7
Data variable	9.6	47.3
Data variable	9.0	33.0

DIAONOSTIC COMPARISON

Vltm&BL2	Vots	Veloe
Dete variable	3.3	350
Dete variable	3.5	33.9
Data variable	6.39	43.6

Physical Blueprint

The Uetze Campus is deliberately designed to mirror our digital ecosystem.

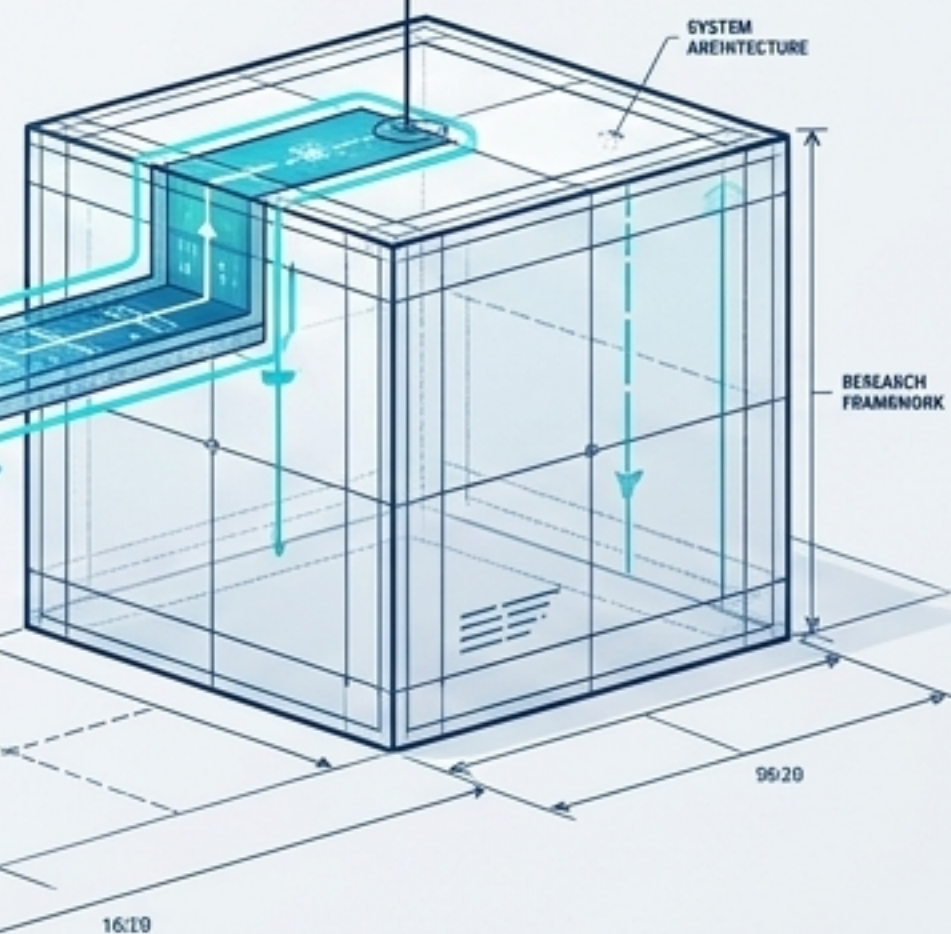
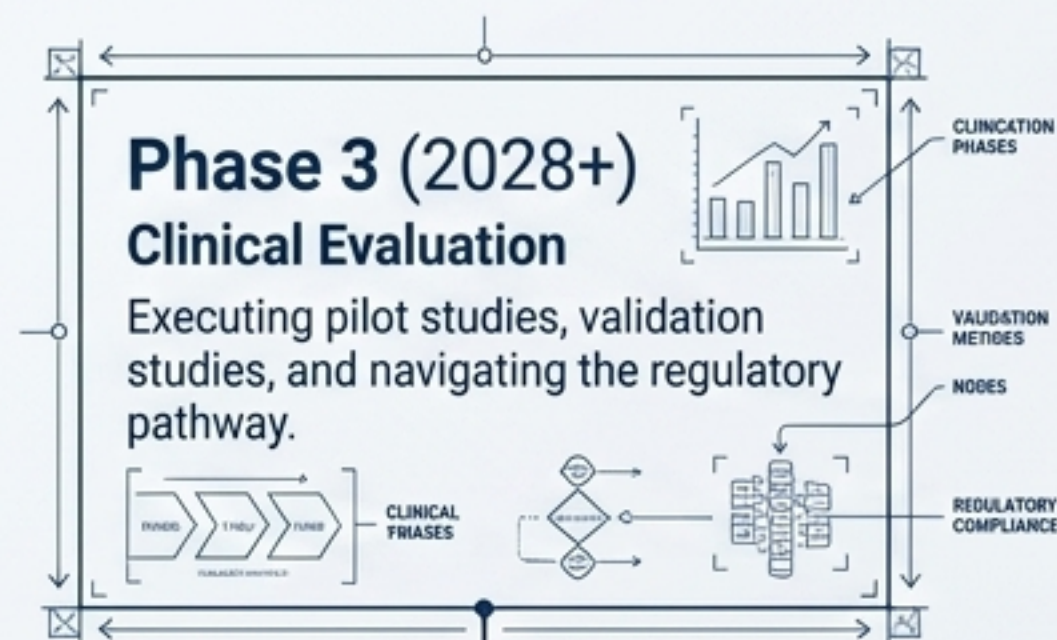
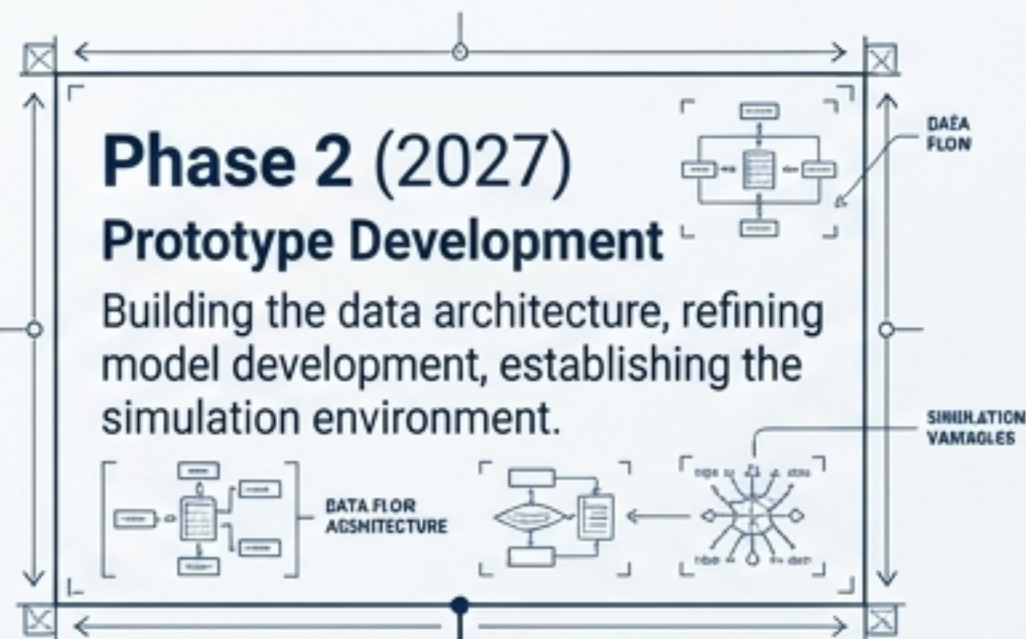
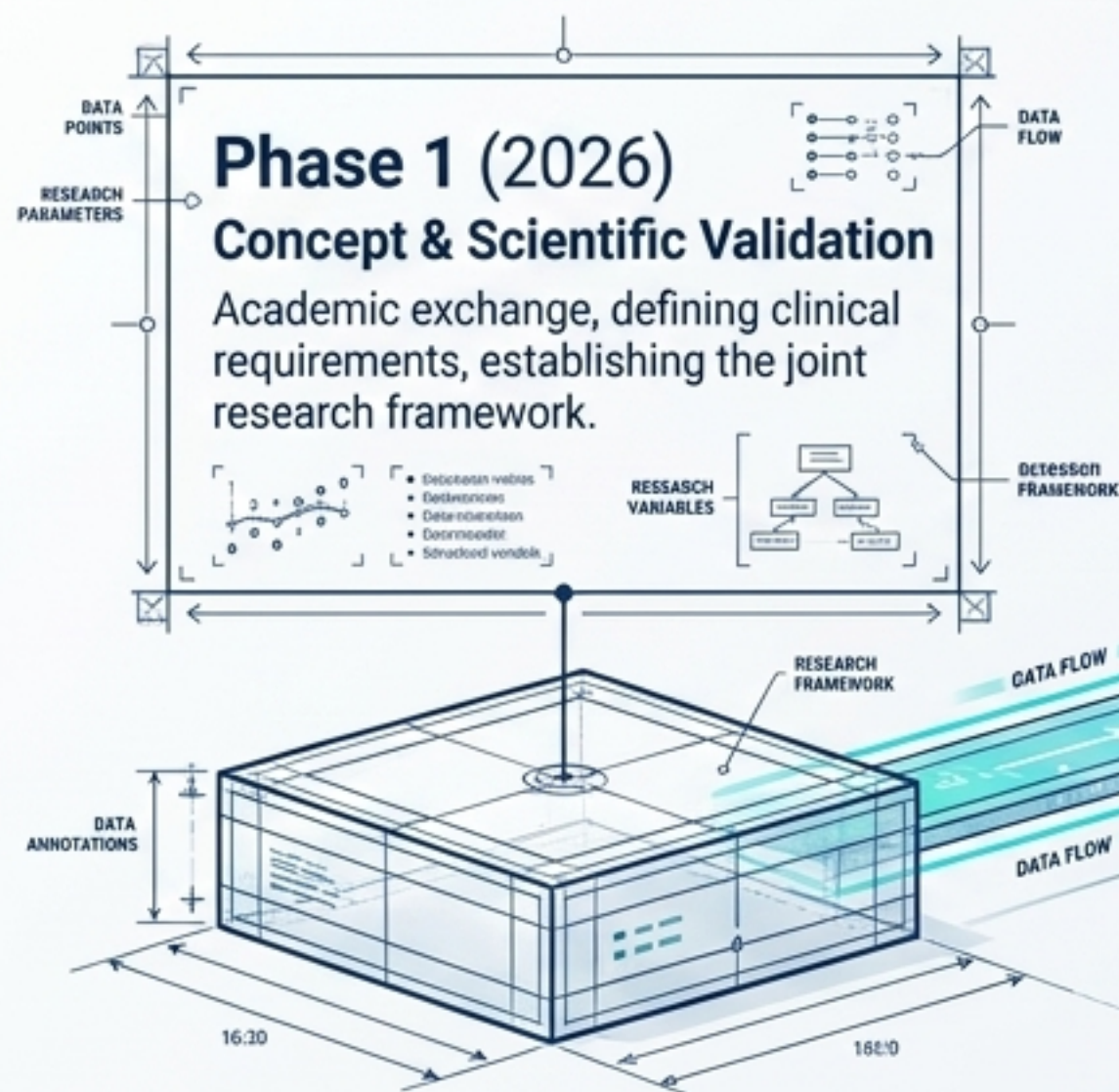
Digital Reality

By unifying physical zones with cloud layers, we create a tangible testbed.

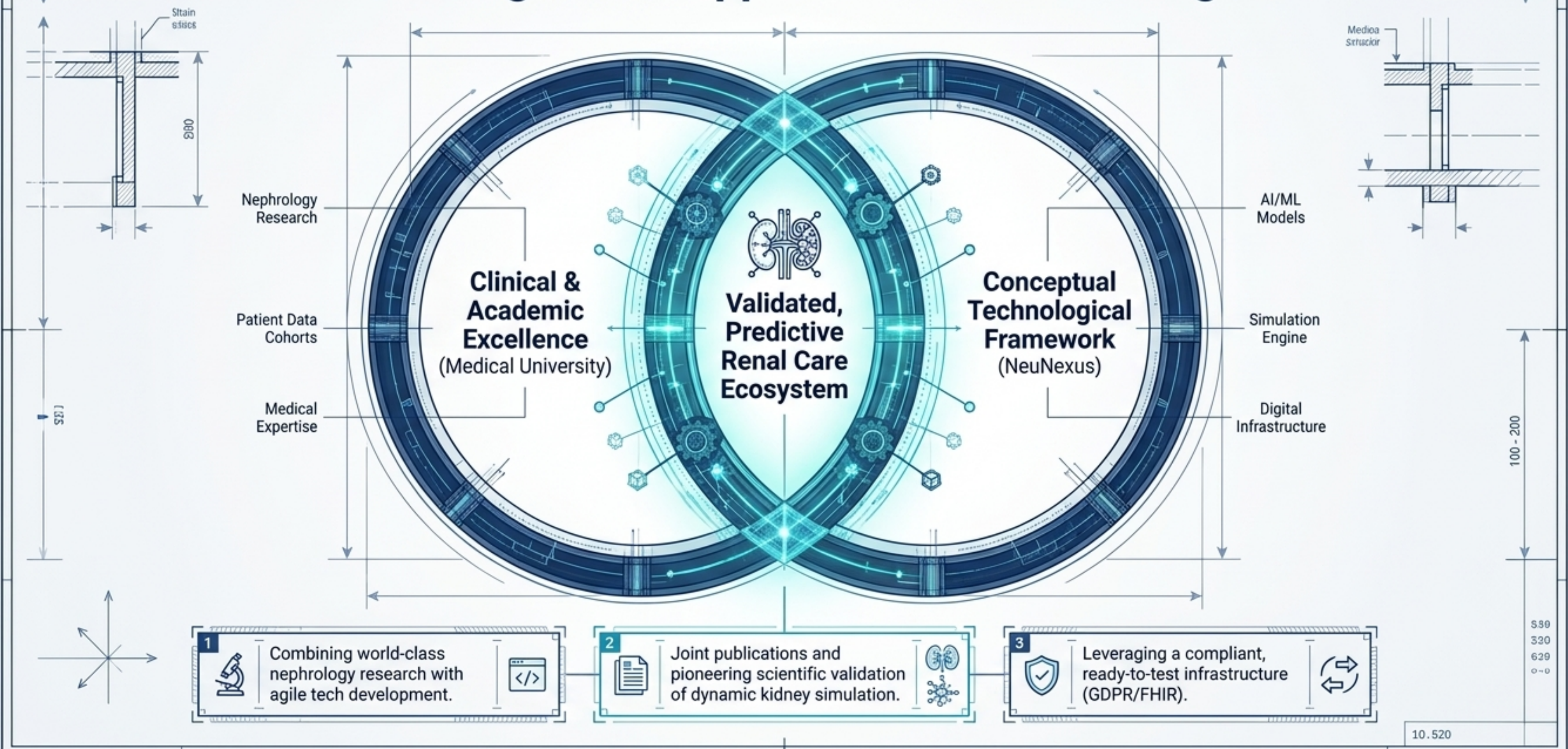
The Result

A unique physical/digital environment where academic partners can observe, test, and validate the interaction between software intelligence and human care protocols.

A Pragmatic Roadmap for Joint Scientific Validation



Co-Authoring a New Approach to Renal Intelligence





Let's Build the Blueprint Together

We are not presenting a finished technology.
We are proposing a research vision where doctors,
researchers, and nursing professionals can help
validate and build a new approach to predictive
renal intelligence.

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