Cadenome
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Orchestration Router with ICM Governance and Reasoning Engine for: Healthcare and Life Science Education, and Combination Intelligence Workbench

Leveraging the Patent Pending IP:
METHOD AND SYSTEM FOR UTILIZING ARTIFICIAL INTELLIGENCE TO IDENTIFY COMPOUNDS FOR USE IN COMBINATION THERAPY

September 2026

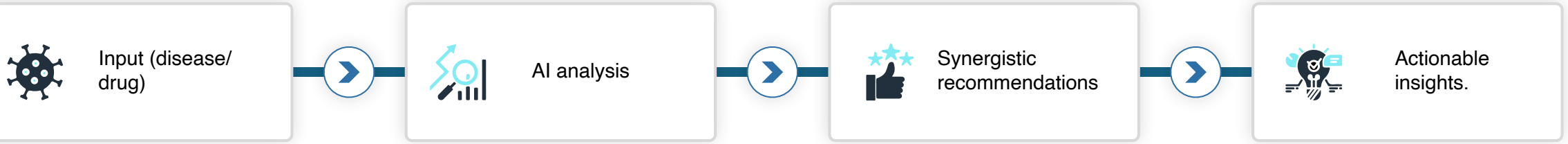
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Cadenome Workflow: Governed Intelligence from Evidence to Innovation

The Cadenome Workflow is a governed system for healthcare and life sciences research, education and combination-intelligence development. It integrates pharmaceutical science, natural compounds, clinical nutrition and biomedical evidence to help identify and evaluate potentially synergistic therapies addressing efficacy, toxicity, drug resistance and unmet medical needs.

The NPM Integrator is the Workflow's central orchestration and governance layer. It uses intelligent routing, Interpretable Context Models, evidence controls and human review to connect approved data, models, scientific tools, algorithms and compatible medical devices.

EvidenceReady Academy is the education, training, assessment and competency pathway. Third party systems like MediClinIQ remain a separate pathway for qualified professionals, institutional pilots and governed medical evaluation. Third-party healthcare and life-sciences companies can connect authorized applications, data and tools to the NPM Integrator through permission-scoped API keys and formal collaboration, licensing and data-governance agreements.



DEVELOPMENT THROUGH AI



01

The Challenge

- The pharmaceutical industry faces inefficiencies in developing drug combinations, marked by high costs, extended timelines, and poor success rates.
- Traditional methods often fail to integrate modern insights with natural medicine.
- Hospital Consults take valuable time to determine patient illness.



02

The Solution
NPM Pharma Integrator

- A patented AI-powered platform that identifies optimal synergistic natural and synthetic molecular combinations.
- Bridges traditional and modern medicine disciplines to overcome drug resistance, toxicity, and low efficacy challenges.
- Enter Symptoms in NPM and generate short list of diagnosis.



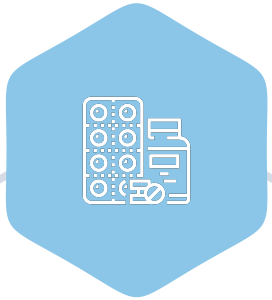
03

The Opportunity

- Address a **$96 billion** AI healthcare market **(projected by 2028).**
- Deliver significant cost and time savings in consults and diagnostic testing leads to saving lives.
- Example 1: https://youtu.be/SB9Z1cX1zDk?si=VIIUik2qZEzrR0PJ
- Example 2: https://youtu.be/UEk61Unx9f0?si=FCTWxrvrkz2VgwIb

Transforming Global Healthcare with a Workflow Platform

Cadenome sits at the convergence of artificial intelligence, unlocking new frontiers in education, precision medicine, clinical decision support and drug discovery.



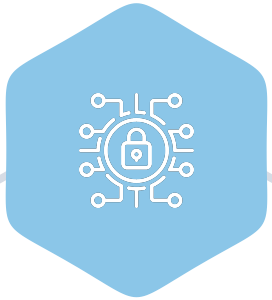
Pharmaceutical & Naturopathic Therapies

Optimizing drug synergy and reducing toxicity risks.



AI-Powered Diagnostics

Predicting diseases, personalizing treatment plans, and reducing medical errors.



Soveregn Data Cyber Security

Protecting patient data and enabling cross-border medical research



Regenerative Medicine & Synthetic Biology

Advancing AI-driven bioprinting, synthetic tissue engineering, and genetic therapies.



Cadenome is not just another healthtech startup

it's a fundamental shift in how AI and blockchain shape the future of medicine.

Growth in AI-Enabled Healthcare & Life Sciences Education

Market Growth

- Online Medical Education is forecast to grow from **$37.9B** in 2024 to **$130.9B** by 2030, representing **23.0%** CAGR.
- AI in Education is estimated at **$6.90B** in 2025 and is forecast to reach **$41.01B** by 2030, representing **42.83%** CAGR.
- Healthcare e-Learning Services were valued at **$11.1B** in 2024 and are forecast to reach **$24.5B** by 2030, with **14.6%** CAGR.

Why Now? - The Drivers

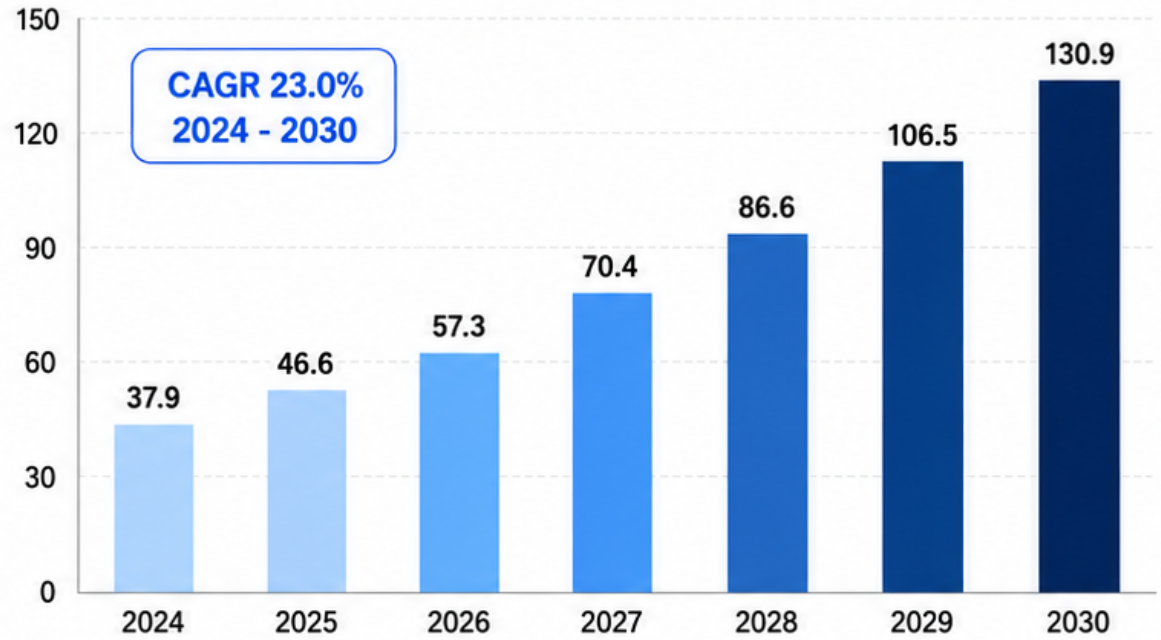
- **AI-Personalized Learning:** adaptive tutoring, content generation and assessment support are moving into mainstream education workflows.
- **Rapid Scientific Change:** healthcare, biotechnology and life sciences require continuous learning rather than static periodic training.
- **Evidence & AI Literacy:** institutions increasingly need education that teaches evidence appraisal, provenance, uncertainty and responsible AI use.
- **Institutional Digital Transformation:** online, self-paced and hybrid learning models continue to expand across hospitals, academia and professional education.

Cadenome Technologies' Position

- Positioned at the intersection of online medical education, AI-enabled learning and governed life-sciences intelligence.
- Differentiated by **Agentic Router + ICM** governance rather than generic AI tutoring alone.
- Built for **evidence, safety, source-grounding, human review** and **auditability** in healthcare and life-sciences education.

Online Medical Education Market Forecast

(USD Billions)



Online Medical Education	AI in Education	Healthcare e-Learning
$130.9B by 2030	**$41.01B** by 2030	**$24.5B** by 2030

Sources: Research and Markets, Online Medical Education Market - Global Strategic Business Report (Sept. 2026); Mordor Intelligence, AI in Education Market Size & Industry Trends Report 2030 (updated Nov. 21, 2025); Grand View Research, Healthcare e-Learning Services Market Report, 2025-2030 (updated July 2026).

Growth in AI-Powered Healthcare Intelligence and Life Sciences

Market Growth

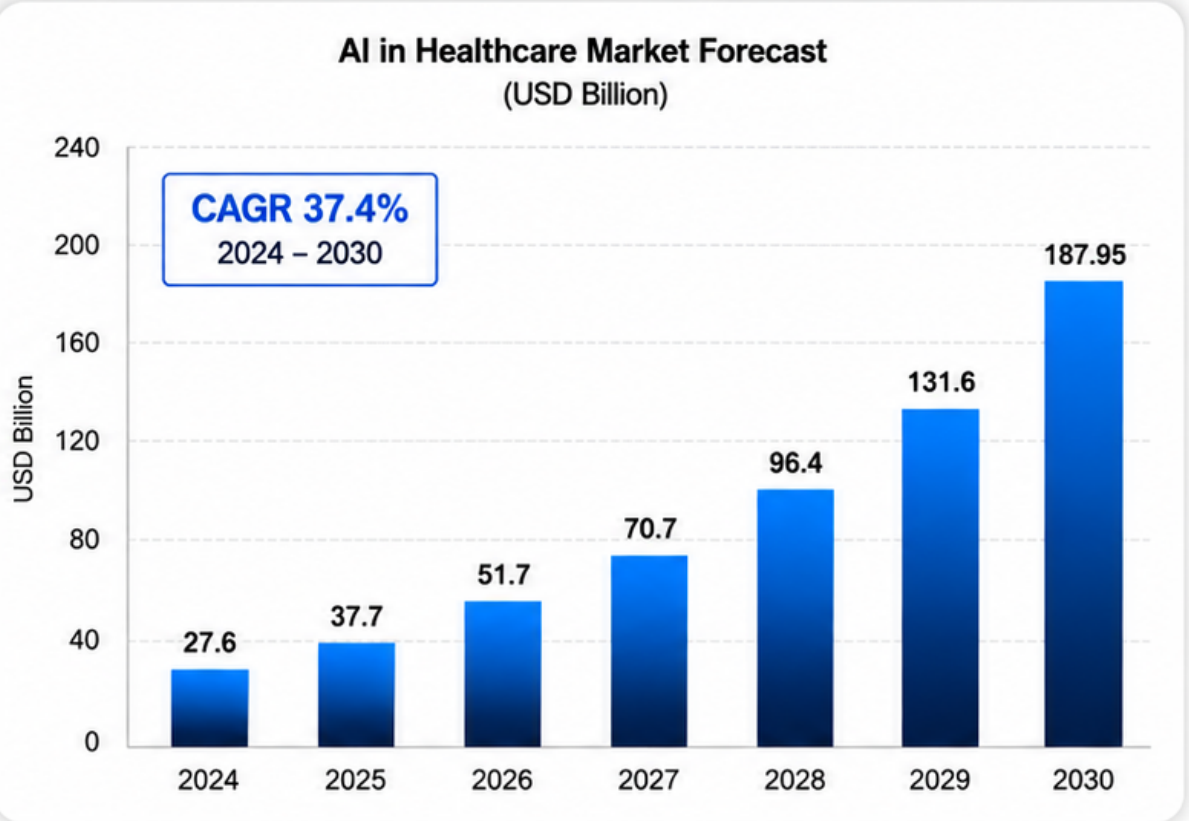
- The global AI in healthcare market is projected to reach **$187.95 billion** by 2030, growing at a CAGR of **37.4%** from 2024 to 2030.
- **AI in drug discovery** is projected to reach **$6.30 billion** by 2032, growing at a CAGR of **28.6%** from 2024.
- **Precision medicine market** is projected to reach **$305.9 billion** by 2030, growing at a CAGR of **11.5%** from 2024.

Why Now? – The Drivers

- **Data Explosion:** Healthcare data is growing ~36% annually, creating demand for AI that can extract real-world insights and connect evidence.
- **Scientific Complexity:** More therapies, mechanisms and patient variability require AI-driven reasoning and combination evaluation.
- **Cost & Time Pressure:** AI reduces R&D timelines by 30–50% and lowers discovery costs, accelerating safe and effective therapies.

Cadenome's Position

- **Patent protected** platform at the intersection of AI, governance, and life-science workflows.
- Unique orchestration with **Agentic Router + ICM** governance.
- Built for **evidence, safety, interoperability and audit**—enabling trusted scientific intelligence and decision support.



$187.95B
AI in Healthcare by 2030
CAGR 37.4% (2024–2030)

$6.30B
AI in Drug Discovery by 2032
CAGR 28.6% (2024–2032)

$305.9B
Precision Medicine by 2030
CAGR 11.5% (2024–2030)

Sources: Grand View Research (2024), Fortune Business Insights (2024), MarketsandMarkets (2024), Mordor Intelligence (2024), Precedence Research (2024)

How Cadenome Fits the AI-Enabled Healthcare & Life Sciences Education Market

Three Overlapping Market Layers

- Online Medical Education: **$37.9B** in 2024 to **$130.9B** by 2030, **23.0%** CAGR.
- AI in Education: **$6.90B** in 2025 to **$41.01B** by 2030, **42.83%** CAGR.
- Healthcare e-Learning Services: **$11.1B** in 2024 to **$24.5B** by 2030, **14.6%** CAGR.

These market layers overlap and should not be added together.

Who Buys This Capability?

- Universities and medical schools
- Hospitals and health systems
- Continuing professional education providers
- Pharmaceutical, biotech and life-sciences organizations
- Faculty, learners, practitioner-review users and institutional reviewers

Why Cadenome Is Different

- NPMEDU.ai / EvidenceReady Academy™ is **education-first**, not a clinical decision engine.
- **Agentic Router** + **ICM** governance enables role-aware, policy-bound educational workflows.
- Built for evidence appraisal, **source provenance, safety boundaries, human review** and **auditability**.
- Supports courses, certificates, case-based learning, faculty tools and institutional deployment.

Market Layers Relevant to NPMEDU.ai

Cited market layers — overlapping, not additive

ONLINE MEDICAL EDUCATION

Directly relevant to digital medical training, certifications, and professional education delivery.

$130.9B
by 2030 | **23.0%** CAGR

AI IN EDUCATION

Validates the acceleration of adaptive learning, AI tutors, content generation, and intelligent assessment.

$41.01B
by 2030 | **42.83%** CAGR

TBRC corroboration: **$42.48B** by 2030 | **41.5%** CAGR

HEALTHCARE e-LEARNING SERVICES

Healthcare-specific training market including hospitals, academia and pharma learning workflows.

$24.5B
by 2030 | **14.6%** CAGR

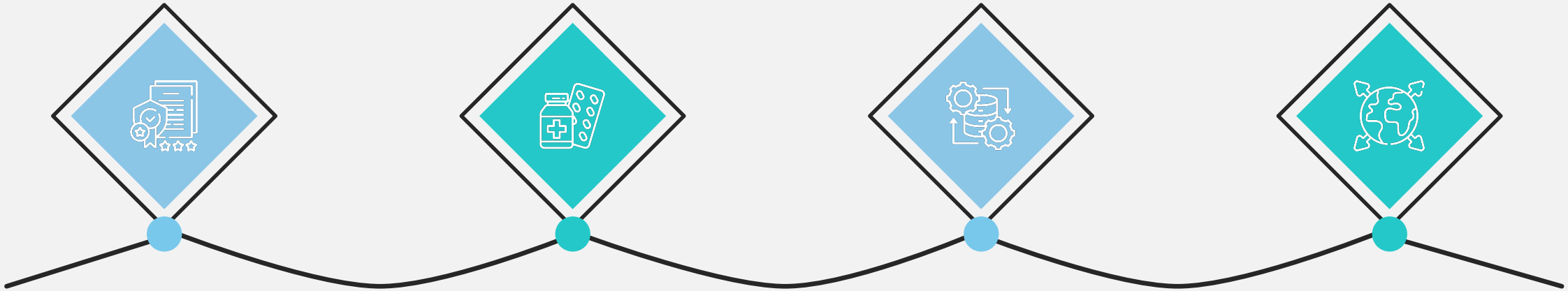
Cadenome's Addressable Position

NPMEDU.ai sits at the intersection of healthcare education, digital learning and governed AI—creating a differentiated application layer on top of Cadenome's NPM Integrator, Agentic Router and ICM governance stack.

Sources: Research and Markets, Online Medical Education Market - Global Strategic Business Report (Sept. 2026); Mordor Intelligence, AI in Education Market Size & Industry Trends Report 2030 (updated Nov. 21, 2025); The Business Research Company, AI In Education Market Report 2026-2030; Grand View Research, Healthcare e-Learning Services Market Report, 2025-2030 (updated July 2026).

Regulatory Compliance & Market Scalability

Cadenome is fully aligned with global regulatory frameworks, ensuring seamless market adoption and rapid scalability:



HIPAA & GDPR Compliant

Secure AI-driven patient data & clinical trials.

FDA & EMA Alignment

AI-powered drug discovery & personalized medicine solutions built for regulatory approval.

DeSci & Web3 Integration

Ensuring decentralized, sovereign data and scientific collaboration.

Global Expansion Potential

The platform is designed for rapid deployment across North America, Europe, and Asia.

With a compliant, AI-driven healthcare workflow model, Cadenome is poised for widespread adoption and long-term profitability.

Interface to AI Models

- The agent is an easy to use front end interface and an **AI** Driven System that enables users to build their prompts which use trained modes and integrate with adjustable algorithms.
- Prompts can be saved in a library and edited.
- Connects with **AI Algorithms** from other technologies **via API Keys.**
- It can also connect to selected Large Language Models **“LLM’s** and **MLLM’s”.**
- Connects to internal data formats such as a database, word, PDF files and external Applications and databases.
- Reads and analyzes data from images: **X-ray, MRI,** Ultrasound and Angiograms.
- Personalized **Treatment Strategies** for Complex Diseases.
- Has features for formatting reports and output preferences of the results.
- Results can range from identified molecules, compounds, diseases, formulations for synergistic applications in Combination Therapy in indications of unmet medical need to analysis of patient data including imaging from MRI, X-Rays and Ultrasounds.



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Search prompts, compounds, botanicals, evidence...

Evidence | Notifications | Help

- Workspace
- New Analysis
- Saved Prompts
- Patient Cases
- Botanicals & Compounds
- Evidence Library
- Reports
- Knowledge
- Settings

Workspace / Saved Prompts / Alternatives for Wound Care

Configure Clinical Intelligence Prompt

Build, route, analyze, and save an NPM practitioner decision-support workflow

Save Draft | Save Prompt | Run Analysis

Clinical Question

Define the practitioner question, research objective, or patient-specific analysis.

List the compounds in C. frondosa extracts that are candidates for wound healing and skin regeneration. Identify the proposed mechanism of action for each.

Wound Healing × | Skin Regeneration × | C. frondosa × | Mechanism of Action ×

Improve Prompt | Use Template | Clear

Analysis Scope

Mechanism of Action | Pharmacodynamics | Pharmacokinetics | Clinical Evidence | Interactions

Safety / Toxicology | Synergies | Similar Compounds | Regulatory

Compare or Include

Add additional entities to the analysis when clinically relevant.

+ Compound | + Botanical | + Medication

Evaluate Synergy | Compare MOA | Find Similar Compounds | Screen Interactions

Evidence & Knowledge Sources

Nature Publication — Wound Treatments.pdf
PDF • Scientific Literature • Included

+ Upload Evidence | + Add Knowledge Source

NPM Knowledge | Uploaded Literature | Verified External Sources | Evidence verification enabled

Analysis Results

Ready for Analysis

Configure the clinical question, intelligence modes, evidence sources, and analysis scope, then run the NPM workflow.

Run Analysis

Summary | Compounds | Mechanisms | Interactions | Safety | Evidence | References

NPM Intelligence Router

Configure manually or allow NPM to select the appropriate intelligence bundle.

Auto Route | Manual

Recommended Mode Bundle

Integrative / NPM | MOA | Botanical Safety | Evidence Grading

+ Add Specialty or Function Mode

Specialty Intelligence + Task Intelligence + Safety Companions → NPM Mode Bundle

Why these modes?

AI Intelligence Engine

NPM Auto Select
Routes analysis based on task, evidence, and workflow requirements.

Advanced Model Settings

Output & Evidence Standard

Clinical Summary | Evidence Table | MOA Matrix | Interaction Matrix | References

Evidence Framework: GRADE | PICO/PICOS | PRISMA

Export: PDF | DOCX | TXT

Practitioner Notes

Add notes, clinical context, research considerations, or follow-up questions...

Save Note

Suggested Questions

- Summarize the evidence for wound-healing compounds
- Compare mechanisms of candidate compounds
- Which compounds have the strongest human evidence?
- Screen selected compounds for medication interactions
- How did NPM select this mode bundle?

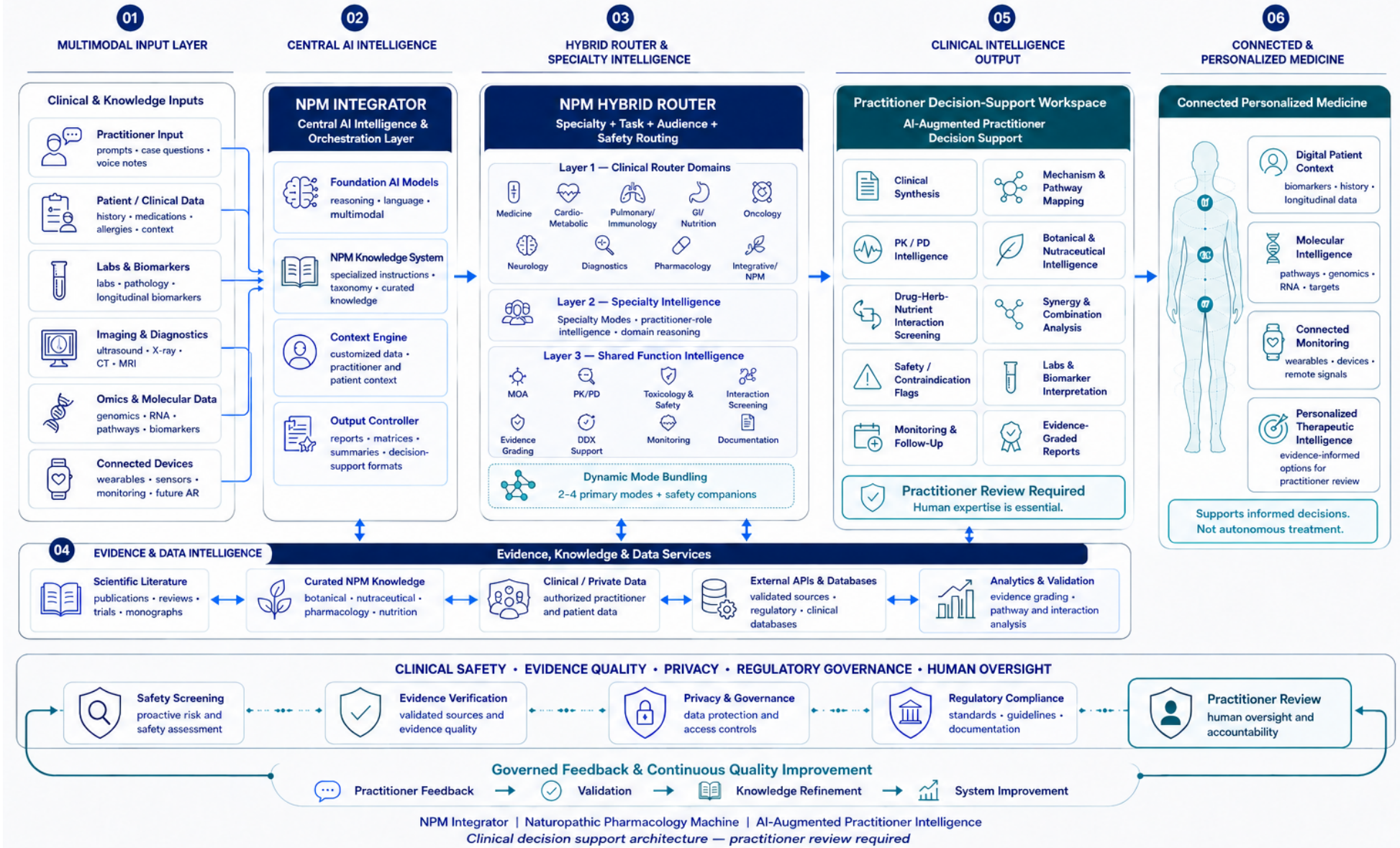
Practitioner Decision Support | Evidence verification, interaction screening, uncertainty disclosure, and clinical safety review enabled | Practitioner Review Required

NPM Integrator • AI-Augmented Naturopathic Pharmacology Intelligence
For practitioner decision support and review

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NATUROPATHIC PHARMACOLOGY MEDICINE

AI Clinical Intelligence, Specialty Routing & Connected Practitioner Decision Support



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NATUROPATHIC PHARMACOLOGY MEDICINE

Workflow for Generating Practitioner Decision Support from Patient & Clinical Information

01 PRACTITIONER & PATIENT INPUT

- **Practitioner Inquiry** — questions • objectives • case analysis
- **Patient Clinical Context** — history • conditions • medications • allergies
- **Labs & Biomarkers** — laboratory data • biomarkers • trends
- **Molecular Data** — genomics • RNA • pathways • enzymes • cytokines
- **Imaging & Diagnostics** — ultrasound • X-ray • CT • MRI
- **Connected Health Data** — wearables • sensors • monitoring

INPUT

02 NPM INTEGRATOR

Clinical Intelligence & Orchestration

- **Context Assembly** — practitioner objectives + patient context
- **Knowledge Retrieval** — NPM knowledge + authorized evidence
- **Clinical Intelligence** — mechanistic • pharmacologic • botanical • nutritional
- **Output Orchestration** — structured practitioner decision support

INTELLIGENCE

03 NPM SPECIALTY & FUNCTION ROUTER

NPM Hybrid Intelligence Router

Dynamic Specialty + Function Mode Orchestration

LAYER 1 — Clinical & Scientific Domains

Medicine · Pharmacology · Integrative/NPM · Diagnostics · Nutrition · Specialty Care

LAYER 2 — Specialty Intelligence Modes

Clinical specialties · Naturopathic pharmacology · Botanical science · Clinical nutrition · Integrative medicine

LAYER 3 — Shared Function Modes

MOA · PK/PD · Toxicology & Safety · Interaction Screening · Evidence Grading · Biomarkers · Monitoring

Dynamic Mode Bundle

Specialty Intelligence + Task Intelligence + Safety Companions

INTELLIGENCE

04 COMPOUND & COMBINATION INTELLIGENCE

Naturopathic Pharmacology Intelligence

Compound • Mechanism • Interaction • Synergy Analysis

- **Natural Compounds** — botanicals • nutraceuticals • nutrients • bioactives
- **Molecular Targets** — receptors • enzymes • pathways • signaling
- **Safety Intelligence** — contraindications • toxicity • cumulative risk
- **Mechanism of Action** — biochemical pathway mapping
- **Clinical Synergy** — complementarity • redundancy • antagonism
- **Drug-Herb-Nutrient Interactions** — screening • PK/PD

Evidence-informed analysis of potential complementary therapeutic strategies for practitioner review

ANALYSIS

05 PRACTITIONER DECISION SUPPORT

- Patient-Specific Clinical Synthesis
- Compound & MOA Mapping
- Drug + Natural Compound Interaction Review
- Combination-Therapy Intelligence
- Safety & Contraindication Flags
- Evidence Strength
- Monitoring Considerations
- Practitioner-Review Report



LICENSED PRACTITIONER REVIEW

EVIDENCE, KNOWLEDGE & DATA SERVICES

- **Scientific Publications** — literature • reviews • clinical trials
- **NPM Knowledge Base** — specialized instructions • botanical • pharmacology • nutrition
- **Authorized Clinical Data** — questionnaires • records • practitioner-provided
- **External Data & APIs** — regulatory • scientific • clinical databases
- **Validation & Analytics** — evidence grading • cross-checking • structured analysis

GOVERNED FEEDBACK & CONTINUOUS QUALITY IMPROVEMENT

Practitioner Feedback → Outcome / Quality Review → Validation → Controlled Knowledge Refinement → NPM Integrator

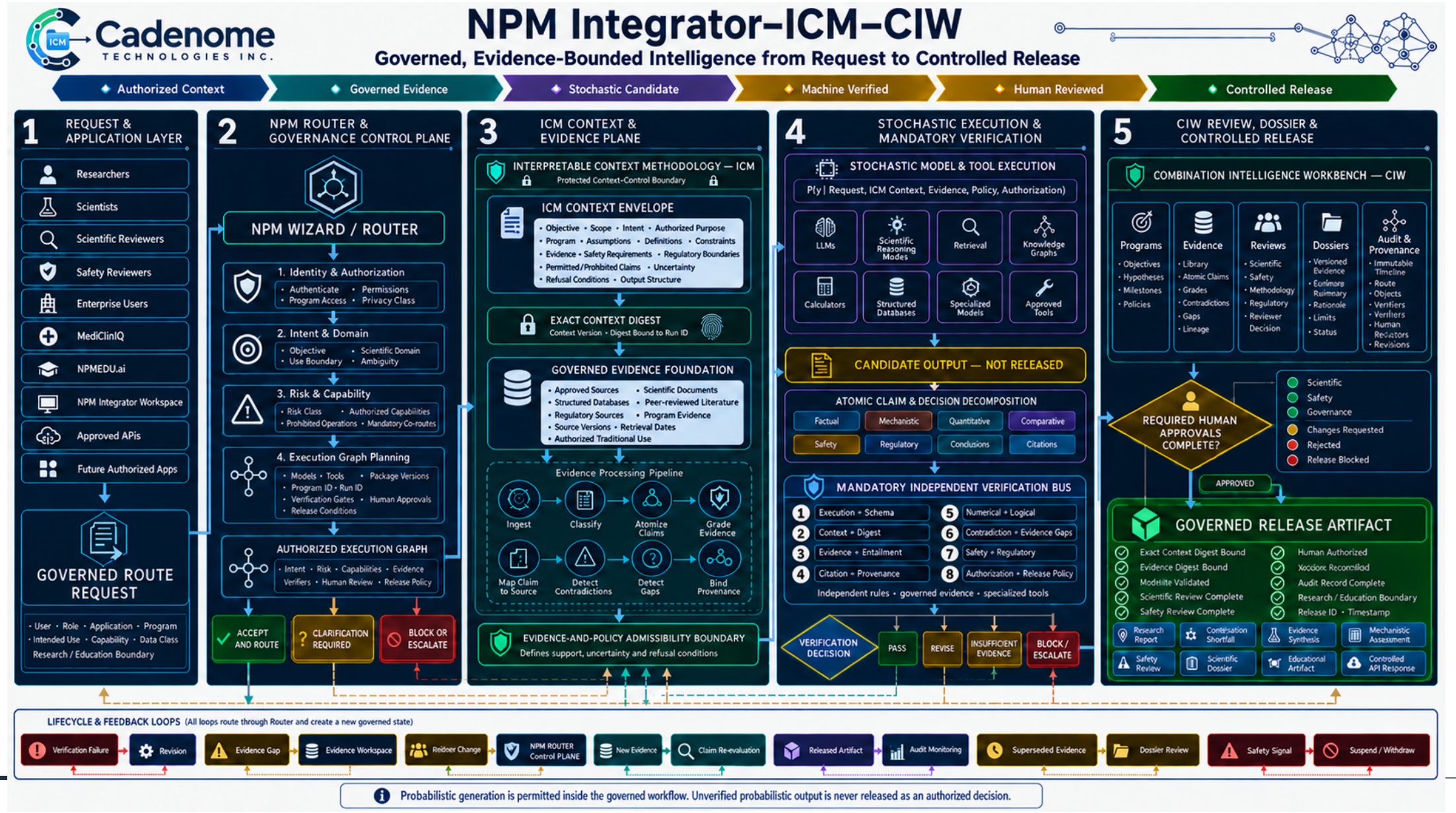
CLINICAL SAFETY • EVIDENCE QUALITY • PRIVACY • REGULATORY GOVERNANCE • HUMAN OVERSIGHT

Evidence Verification · Interaction & Safety Screening · Privacy / Data Governance · Regulatory & Quality Review · *Practitioner Review*

Leveraging AI to Identify Active Compounds, Map Mechanisms, Evaluate Interactions, and Support Evidence-Informed Combination Therapy

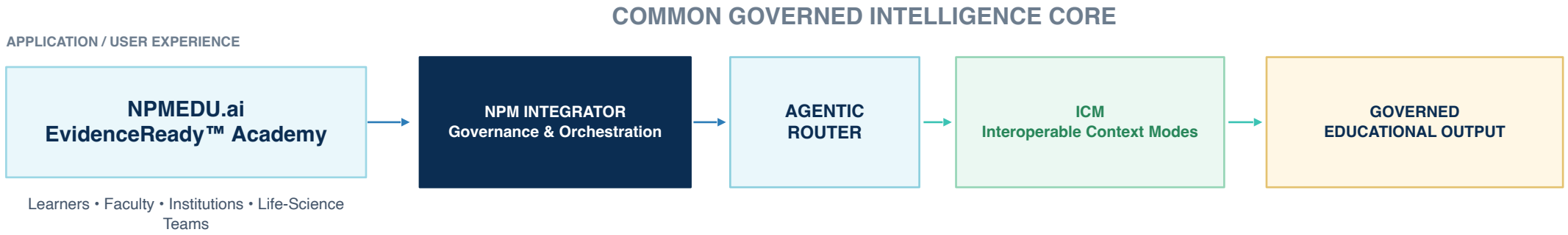
AI-Augmented Clinical Intelligence for Licensed Practitioner Review

SCALABLE AND FOCUSED - In Development



NPMEDU.ai Health and Life Sciences Educational Platform

Governed AI education as an input application connected to NPM Integrator



What NPMEDU.ai does

Evidence literacy
Evidence appraisal, source discipline, AI-output critique

Faculty tools
Course builder, assessments, case-based learning, certificates

Health sciences education
MOA, PK/PD, botanical safety, regulatory-claims awareness

Institutional readiness
Role-based permissions, auditability, release controls

How governance works

1 I Understand request
role • learner level • objective • domain • intended output

2 I Route intelligently
authorized modes • evidence • models • tools • safety checks

3 I Govern context
ICM supplies only approved evidence, policy and source context

4 I Verify & release
education boundary • provenance • claims • source-grounding

ONE GOVERNED INTELLIGENCE CORE — MULTIPLE APPLICATIONS

NPMEDU.ai is not a separate AI engine. It is an input application connected to reusable routing, context governance, verification and audit infrastructure.

EDUCATION-ONLY | ROLE-AWARE | SOURCE-GROUNDED

Combination Intelligence Workbench — CIW

Governed scientific intelligence from bounded research question to controlled dossier

RESEARCH OPERATING SURFACE POWERED BY THE SAME NPM CORE



CIW modules

Programs
objectives • hypotheses • milestones • program policies

Evidence
library • atomic claims • grades • contradictions • gaps

Reviews
scientific • safety • methodology • regulatory / claims

Dossiers
rationale • synthesis • experiment plans • limitations

Audit
provenance • versions • router decisions • release history

From AI candidate to governed release

Candidate output
model-generated, provisional, not released

Claim decomposition
factual • mechanistic • quantitative • safety • regulatory

Independent verification
context • evidence • citations • logic • contradictions

Human approval gate
scientific • safety • governance review

Dossier release
version controlled • audit complete • research-use boundary

AI generates candidates. Cadenome governs the decision process.

Probabilistic generation is permitted inside the workflow; unverified probabilistic output is not released as an authorized scientific decision.

COMBINATION SHORTLISTS | EVIDENCE SYNTHESIS | EXPERIMENT PLANS | SCIENTIFIC DOSSIERS | AUDIT TRAILS

SCALABLE AND FOCUSED GO-TO-MARKET APPROACH

01



Primary Target Markets

- **Hospitals and Clinics:** For practitioners to analyze treatment solutions for unmet patient needs and continuing education.
- **Pharmaceutical Companies:** For drug discovery and synergistic MOA's
- **Researchers and VA:** Looking to identify drug interactions, published reports and combination therapy research.

02



Revenue Model

- **Licensing:** Paid usage access to NPM Integrator Platform.
- **Partnerships:** Collaborations with Specialized Healthcare API/Algorithms, Drug developers to accelerate discovery.
- **Personalized Reports:** Specialized health analysis for patients. ICARE Reports.

03



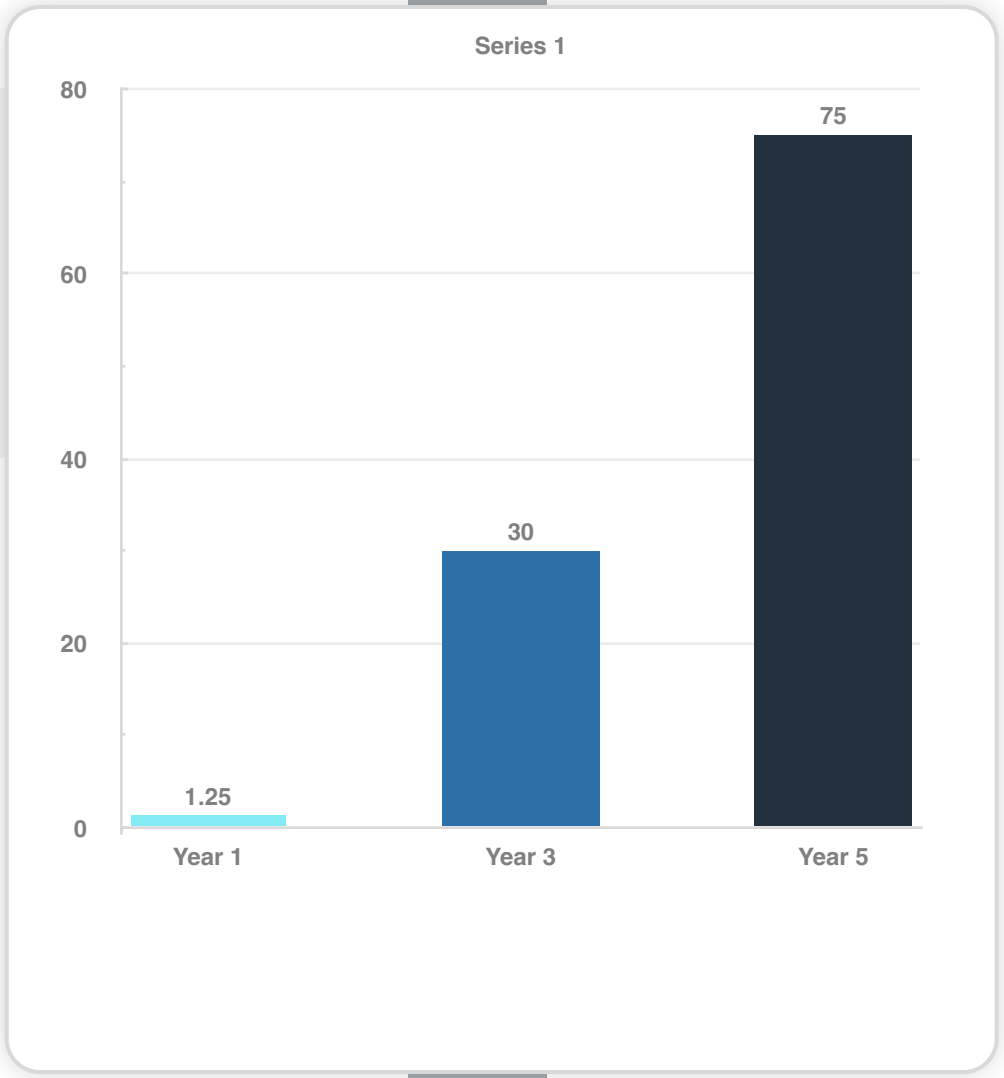
Scalability

- **Secure Patient Records:** Patients own their data and remain anonymous on decentralized Block Chain and Web 3.0 on cloud technology.
- **Improved AI Chips:** Enable lower cost computing and allows powerful AI processing directly on users devices.
- **Corporate Branded:** Easily customizable for therapeutic and regulatory needs.

SIGNIFICANT REVENUE POTENTIAL AND SCALABLE GROWTH

Revenue Projections (Year 1–5)

- **Year 1:** **$1.250M** (early licensed pilot contracts and partnerships).
- **Year 3:** **$30M** (expansion to mid-sized pharmaceutical companies).
- **Year 5:** **$75M** (widespread adoption by global pharma and nutraceutical leaders).



Cost Savings for Clients

- Reduces R&D costs by **30-50%** for pharmaceutical companies.
- Enables nutraceutical firms to bring new products to market twice as fast.

Operating Margins

- Pay by use model ensures high scalability with operating margins reaching **70%** by Year **3.**

Market Penetration Goals

- Capture **5%** of the **$96 B** AI healthcare market by **2028.**

WORLD-CLASS TEAM WITH PROVEN EXPERTISE

Leadership Group



01

CEO - Founder

Michael Withrow

Visionary leader, Author, IP Developer, Biotech, Public Company Experience

02

CTO

Outsourced Team

Twenty years working on neural nets. - Sr. Exec. with International Healthcare

03

CFO

TBA - PHD

PhD Biology
Post Docs in Molecular Medicines and Nutrition Sciences

04

Advisor

TBA

Thought leader with a background in Investment Banking

VP Bus Development

- **Edwin Gershon PhD** - Pathology and Laboratory Medicine, ten years of experience strategizing drug development, business development and medical affairs, for biotech, pharma, and CRO's. Proven Revenue Generator.



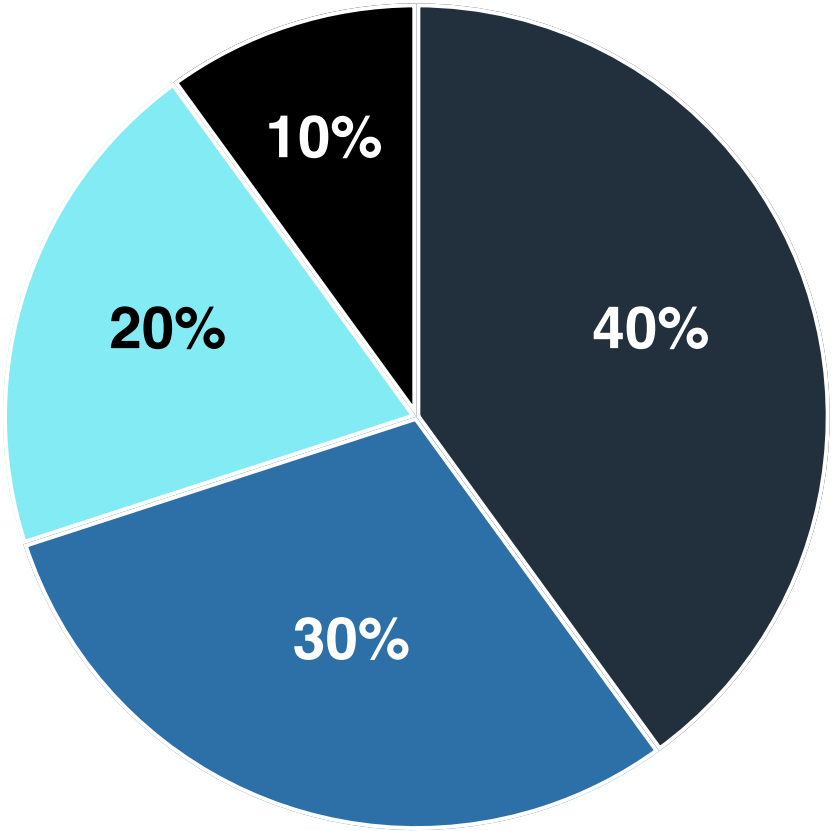
JOIN US IN ADVANCING HEALTHCARE

Funding Sought

$1.5M initial bridge
funding. $15 million listing

Use of Funds

- **40%** for R&D to enhance AI capabilities and expand the platform.
- **30%** for market entry and customer acquisition.
- **20%** for regulatory compliance and data integration.
- **10%** for operational scaling and team growth.



Projected ROI

Expected **3x** return in **5** years with high growth potential beyond.

Why Invest Now?

- First-mover advantage in AI-driven combination therapy.
- Scalable SaaS model ensures exponential growth.

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THANK YOU FOR YOUR INTEREST

Together, we can transform healthcare and improve countless lives.

Final reminder to reach out with questions or to book a meeting.

