Coalition for Health AI

July 2024

CHAI is setting a new standard for AI safety and reliability in Health

CHAI, the Coalition for Health AI, is committed to setting the standard for the trustworthy and responsible implementation of AI in health.

By uniting a powerful alliance of government bodies, leading global technology firms, and major healthcare organizations, we will develop and endorse standards/tools of unmatched quality, establishing leadership in the field.

Our coalition's expertise and collaborative efforts are dedicated to positioning CHAI as the foremost authority in the nation, guaranteeing the safety and reliability of AI tools in health for patient welfare that serves us all.

CHAI

CHAI is bringing together a diverse community of creators, users and beneficiaries to develop consensus-driven products

2300+ members of CHAI

Creators of AI

Health Systems
Medical Device manufacturers
Pharmaceutical Companies
Software Creators for health
Hardware Creators for health
& more

+

Users of AI

Health Systems
Life Science Companies
Physicians
Payors
CMS

+

Patient Consumers of AI

Patient Advocacy Groups

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We are using consensus to develop the gold-standard for trustworthy and Responsible Health AI that serves all

Need	CHAI's Proposed Solution
1 Adherence to **FAVES principles**	The development of **Technical Standards**, including Bias, Safety and Surveillance frameworks, and **Implementation Guides**, including Testing and Evaluation and Best Practices frameworks 1
2 Current regulation **does not apply** to all Health AI	A **nationwide network of CHAI-certified Quality Assurance Labs**, responsible for assuring all AI for use in health, with supportive Assurance Standards 2
3 Lack of **transparency**	A **National Registry Platform**, featuring model report cards, for algorithms that have been through Assurance Labs 3
4 **Workforce upskilling and engagement**	Registry publications, **educational materials** and Assurance certification processes 4

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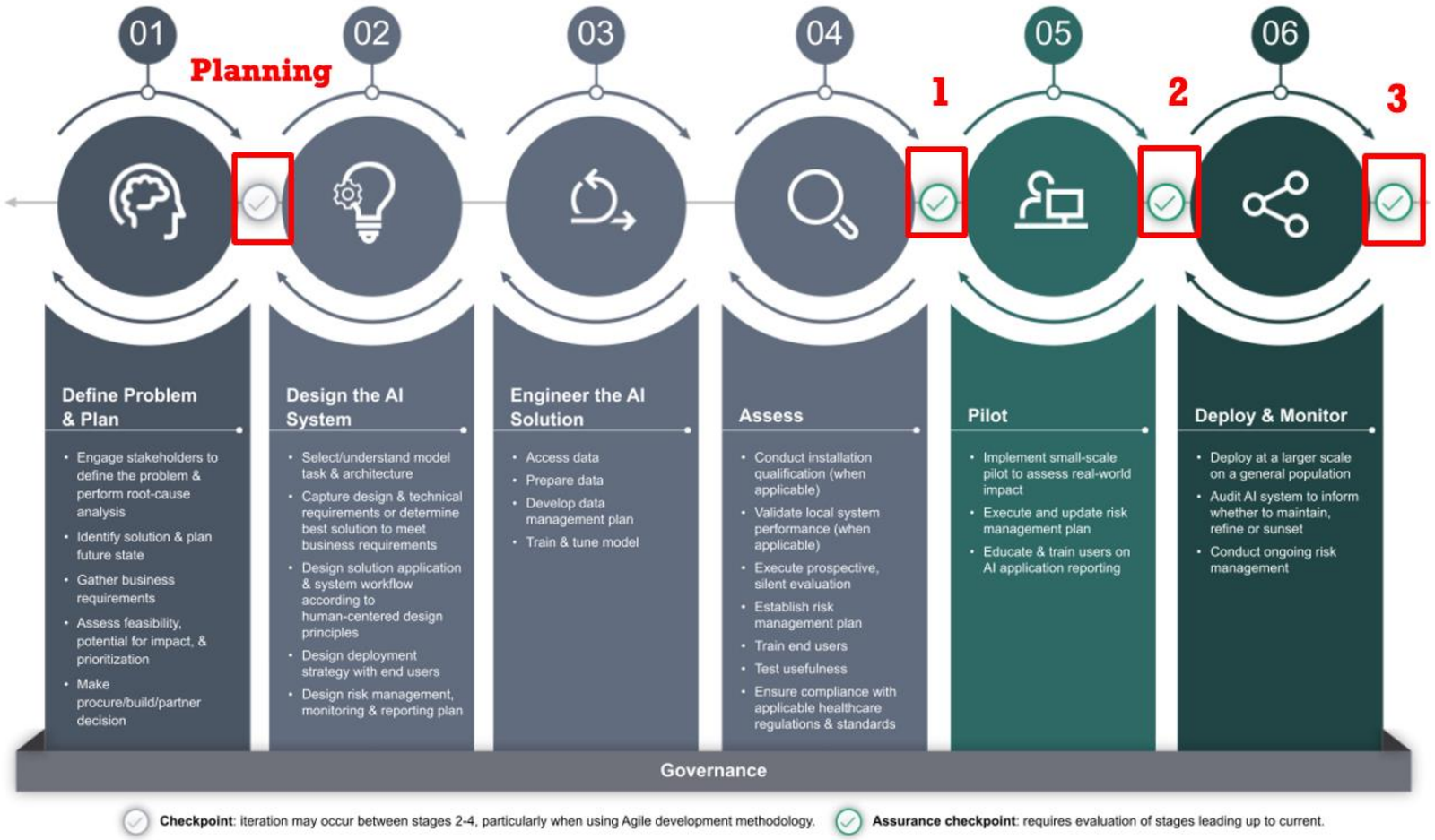
CHAI is supporting the development of a nationwide network of Assurance Labs with its certificiation framework

Assurance Labs will align to the algorithmic lifecycle, with checkpoints at Pre-deployment, Implementation and Post-deployment



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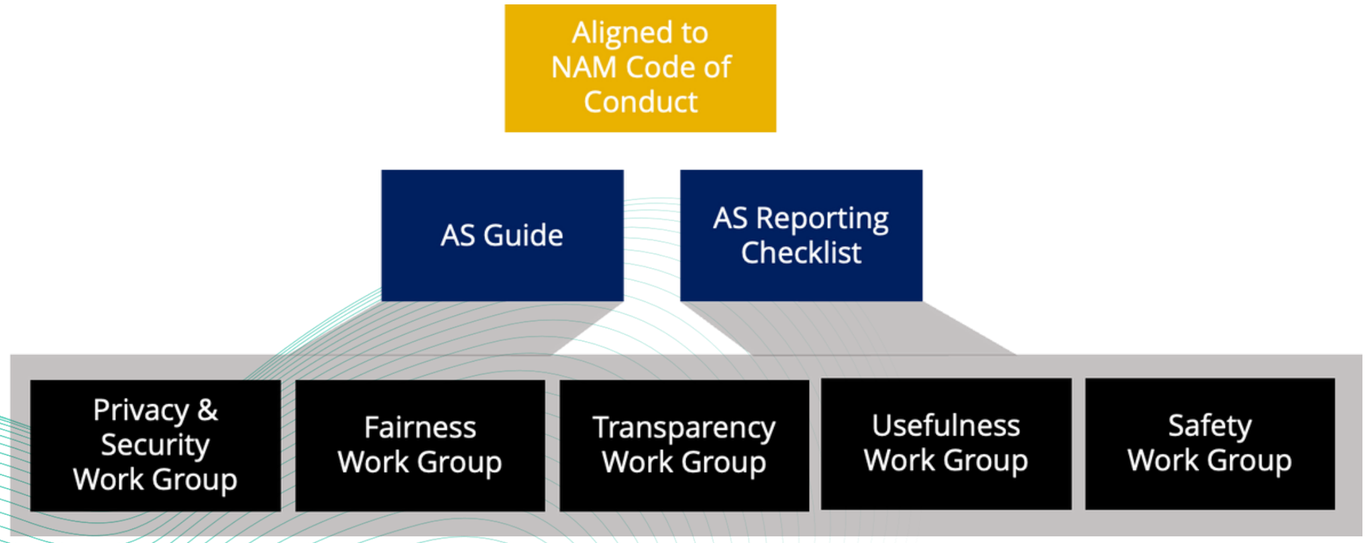
Our Assurance Standards Guide and Reporting Checklist are being released in June 2024



Focusing on 6 paradigm use cases to demonstrate the application of Assurance Standards across the AI lifecycle:

- Predictive EHR Risk Model (asthma exacerbation risk)
- Imaging Diagnostic Model (mammography)
- Generative AI / LLM Model (EHR query and summarization)
- Claims-based, outpatient model (care management)
- Clinical Ops & Administration (prior authorization with medical coding)
- Genomics (precision oncology using genomic markers)

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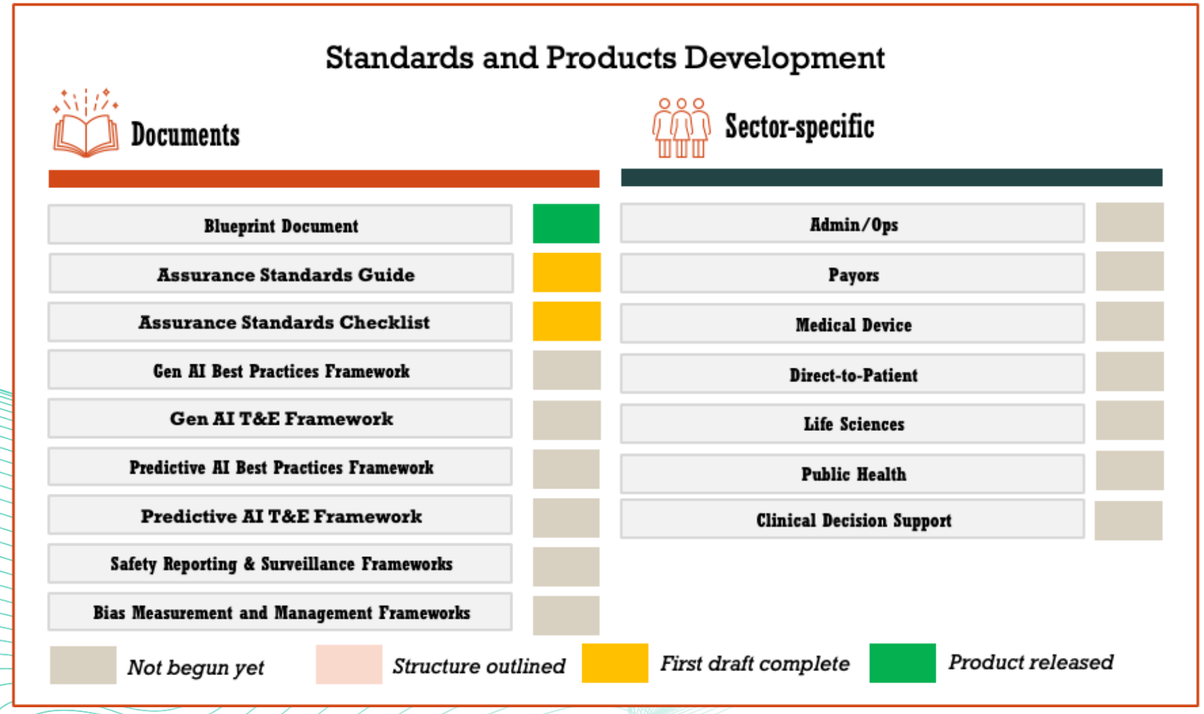
And we are planning to get first drafts of the more detailed technical documents completed by the end of 2024

Current



Planned

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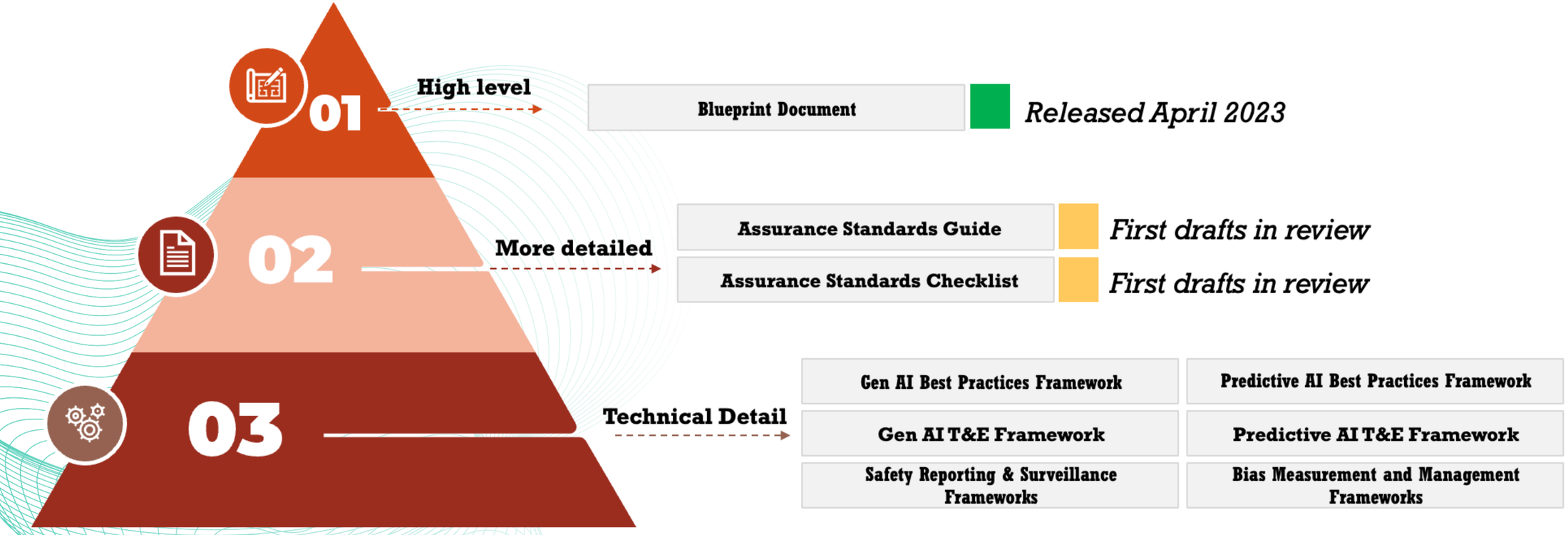
Alongside Assurance Lab certification and development of the registry, we are also focusing on developing frameworks



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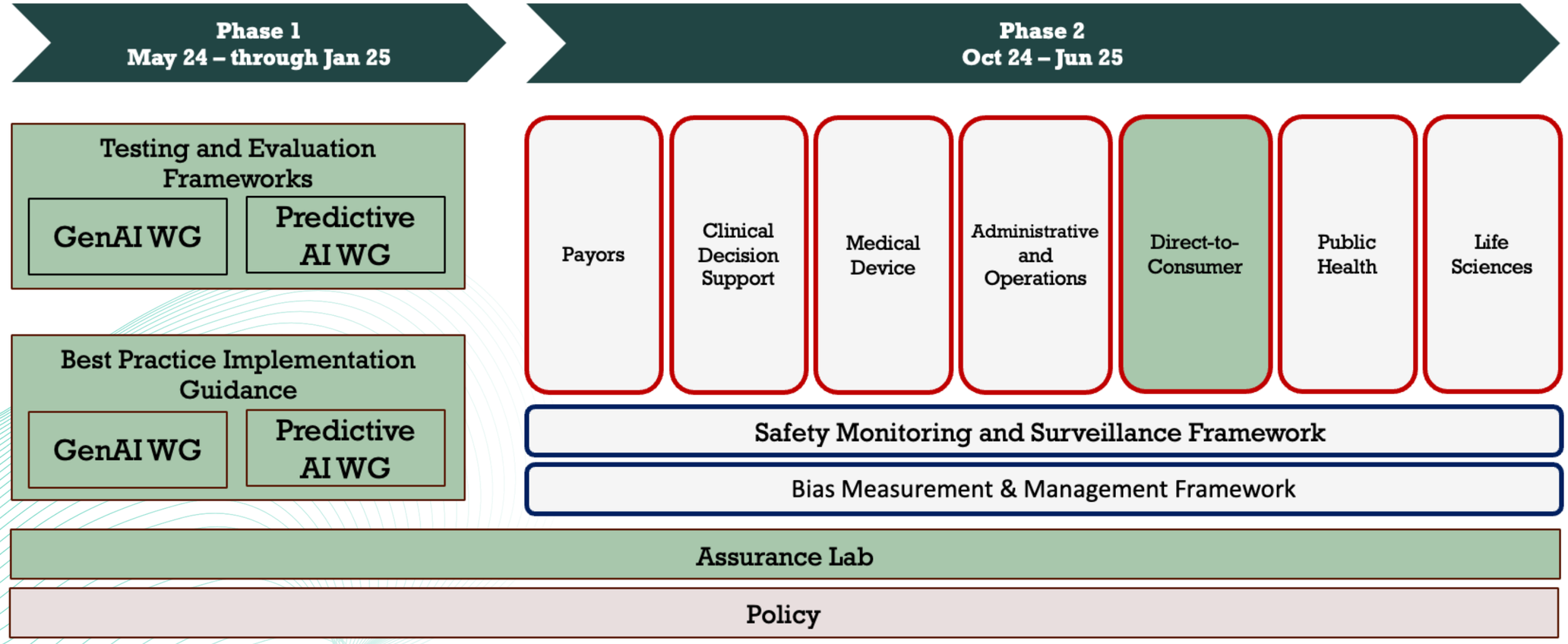
In order to deliver this work, we have hand-selected members for Working Groups, the first of which we launched in May



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Workstreams will work very closely together

Predictive and Generative AI Workstreams will closely inform each other

Best Practice Frameworks (BPF)

Using Core Principles of:

- Usefulness/Efficacy
- Fairness/Bias
- Safety
- Transparency
- Security/Privacy

Testing and Evaluation (T&E)

Using Core Metrics and Methodologies:

- Usefulness/Efficacy
  - F1, AUC, Sensitivity, Specificity, etc.
- Fairness/Bias
  - Disparate impact ratio, confusion matrices, etc.
- Safety
  - Robustness testing, analyzing false positives/negatives, etc.
- Transparency
  - Model cards, evaluation results, feature importance analysis
- •Security
  - Threat modeling, penetration testing, stress testing, etc.
- Privacy
  - Data access controls, data minimization and anonymization

BPF and T&E applied to sector-specific use cases

Sector-Specific Use Cases

- **Payors**
- **Clinical Decision Support**
- **Med Device / MedTech**
- **Administrative & Ops**
- **Direct-to-Consumer**
- **Public Health**
- **Life Sciences**

Resulting in Assurance Lab outputs

- Assurance Lab Certification Criteria
- National Model Report Card Registry

CHAI

Become a Member of CHAI

Shape Nationwide Standards

Play a crucial role in defining the benchmarks for testing and evaluation of health AI, influencing nationwide practices.

Collaborate with Leaders

Partner with key government and health industry leaders to actively shape AI policy in the health sector.

Enhance Patient Safety

Ensure that AI standards in health are robust, prioritizing and safeguarding patient safety at every level.

Lead the Nationwide Registry

Contribute and benefit from the Nationwide Registry of Health AI Algorithms, setting new standards in health technology and innovation.

Empower with AI Education

Stay ahead in AI Safeguards, bridging the gap between rapid technological evolution to mitigate risks effectively.

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Membership Pricing, based on revenue

	Non-profit			For Profit			
	Small	Medium	Large	Small	Medium	Large	Enterprise
Benefits	< $100M total operating revenue OR <100 beds	$100M - $4.9B Total operating revenue OR 100 – 1,000 beds	> $5B total operating revenue OR >1,000 beds	< $10 million in revenue	$10 million - $250 million in revenue	$250 million – $1B in revenue	>$1B in revenue
Guaranteed participation in developing CHAI best practice frameworks and the ability to help set our strategic agenda. **Licenses to commercialize and creative derivatives of CHAI work products. **Note, all frameworks will be open source and available to the public under Creative Commons CC BY-NC-ND 4.0, but will not allow for commercial use or publicly-facing derivatives without a license from CHAI.**** **Priority consideration for speaking opportunities and participation in coalition-led events.** **Name recognition on website** **Networking opportunities with industry experts and like-minded professionals through online forums and in person events .**	$5,000	$25,000	$50,000	$5,000	$25,000	$50,000	$100,000
Priority registration rates for our CHAI Global Summit at HLTH and unique sponsorship opportunities with both CHAI and HLTH. CHAI members who attend HLTH will receive one free health ticket for every five tickets that are purchased. **Recognition and visibility opportunities for contributing to coalition initiatives and projects.** **Matchmaking partnership opportunities with other institutions for research and other collaborative activities**							

CHAI

Our Team

Brian Anderson

CEO & Founder

Brenton Hill

Head of Operations
and General Counsel

Lucy Orr-Ewing

Chief of Staff and
Head of Policy

Tom Kirby

Chief Financial
Officer

Nicoleta Economou

Scientific
Director

Contact Us

Address

Sudbury, Massachusetts

Email Adress

admin@chai.org