

Boston, June 2023



RESPONSIBLE USE OF GENERATIVE AI

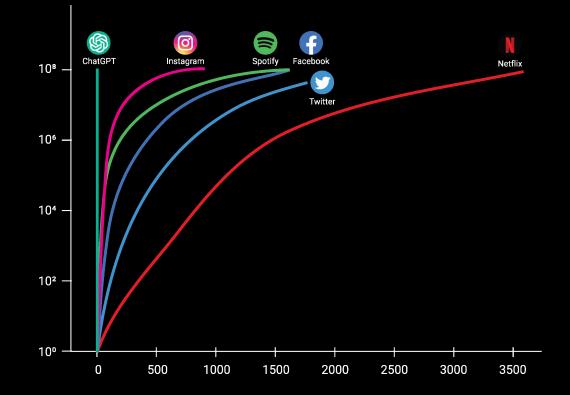
Navigating The Future Of Business And Digital Health

Stephen S. Hau CEO, Newfire Global Partners

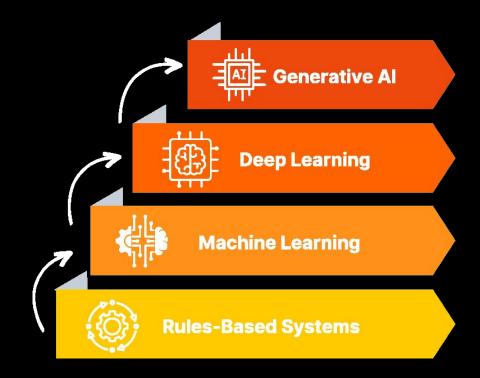
Presentation Topics

- 1. **Demystifying Generative AI:** A concise, non-technical introduction to generative artificial intelligence.
- 2. **Navigating the Minefield:** Identifying the ethical, legal, and security concerns associated with the widespread adoption of generative AI within the digital health landscape.
- 3. **Revolutionizing Digital Health:** Illustrating the groundbreaking opportunities generative AI presents for digital health businesses.
- 4. **Risk Mitigation Strategies:** Practical guidelines for businesses to adopt responsible AI practices, safeguarding sensitive data, and ensuring ethical implementation.

Who Has Not Heard of ChatGPT?



An "Overnight" Success (Decades in the Making)



Magic in the Latent Space / Data

Latent data are variables that are not observed but inferred from other variables.



Magic in the Latent Space / Data

Latent data are variables that are not observed but inferred from other variables.

"Twinkle Twinkle Little Star"

(in the style of William Shakespeare via ChatGPT 4)

"Glitter, glitter, diminutive orb, How I ponder what thou art. High above the world so vast, Like a jewel in heaven's cast..."

Magic in the Latent Space / Data

Latent data are variables that are not observed but inferred from other variables.

"Twinkle Twinkle Little Star" (in the style of William Shakespeare *via ChatGPT 4*)

"Glitter, glitter, diminutive orb, How I ponder what thor art. High above the world so vast, Like a jewel in heaven's cast..."



4-year old Chinese American girl in the style of English Tudor royalty *via MidJourney v5.1*

What Else is Hiding in the Latent Space?

- Drug therapies with higher efficacy and fewer negative side-effects?
- More fuel-efficient airplane designs?
- Environmentally-friendly, renewable energy sources?
- Higher quality / fewer defect software code?

(Near limitless possibilities)

What Could Possibly Go Wrong?

- Hallucinations
- Alignment Issues
- Misinformation
- Loss of Privacy
- Mass Unemployment

The New York Times

Here's What Happens When Your Lawyer Uses ChatGPT

A lawyer representing a man who sued an airline relied on artificial intelligence to help prepare a court filing. It did not go well.

Opportunity for Digital Health (General)

- Faster, cheaper, and better tech
 - Hybrid Al-powered teams
 - Maintaining internal knowledge / collective intelligence
 - More productive teams
 - Better testing, documentation, etc.
 - Synthetic data generation
- Hyper-cost-effective software development --> more tech businesses



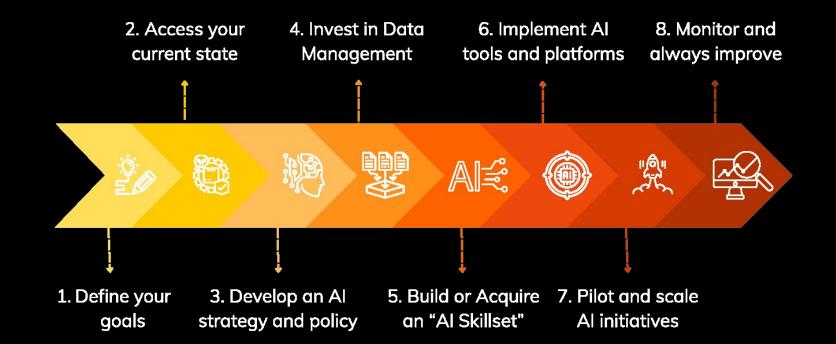
Specific Business Opportunities

- Drug discovery
- Medical imaging
- Personalized treatment plans
- Medical documentation

Pitfalls of Building on Al

- Reliability and accuracy
- Bias
- Data privacy and security
- Explainability and transparency
- Dependency on Al
- Regulatory

Getting Prepared as an Organization



Getting Prepared as an Individual

- 1. Embracing continuous learning
- 2. Think beyond coding
- 3. Adopt an experimental mindset
- 4. Emphasize collaboration

Q&A and Open Discussion

Let's talk! Stephen S. Hau CEO, Newfire Global Partners

stevehau@newfireglobal.com

