Abundance
Decision Systems

AI Systems for Health Economics & Outcomes Research

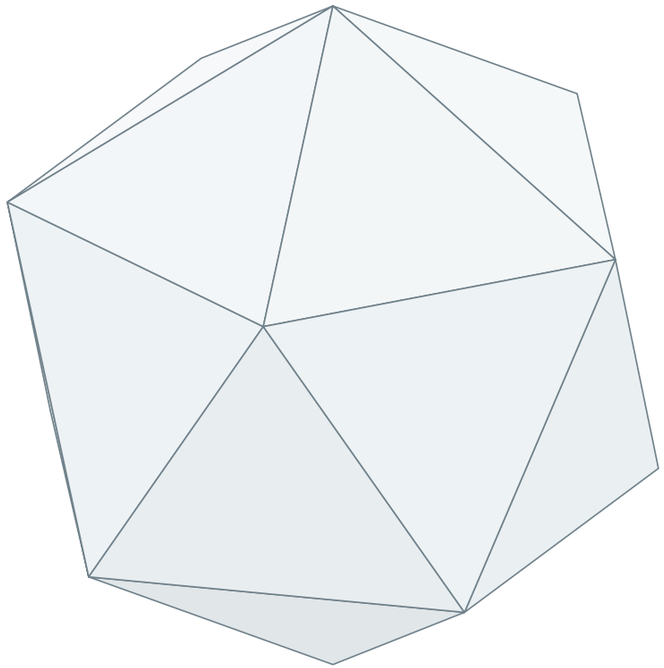
We advance AI capabilities in HEOR by developing new tools, workflows and evaluation methods.

abundanceds.com contact@abundanceds.com

HEOR is about to undergo a fundamental transformation.

Organising AI systems for extreme reliability and performance used to be prohibitively difficult. Advances in the implementations and in the models are eliminating those barriers.

We welcome this change and want to shape it responsibly, with human agency at its centre.



Offerings

We work with HEOR teams on AI adoption, custom tools and end-to-end research workflows.

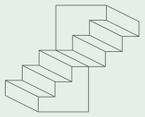
AI audit

Engagements often start with an audit. We assess capabilities and map common workflows. We then develop recommendations and identify quick wins alongside longer-term opportunities and risks.



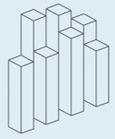
Workshops and training

We advise teams at different stages in their AI journey, from initial exploration through to full restructuring of workflows and adoption of AI-native systems.



Custom tooling

We develop AI tools for tasks ranging from data extraction and visualisation to multi-step workflows and model QC. Tools include rigorous evaluations, provenance and full observability, and can be deployed within your infrastructure.



AI workflows

Our core offering is developing rigorous end-to-end workflows for complex tasks, such as SLRs, NMAs, CE-model review or model country-adaptations.

Workflows are built on evals and test sets to validate performance, and are designed to augment human judgment, not replace it.



Client stories

AI Integration

A UK HEOR consultancy sought help getting started using AI and agentic systems.

We conducted interviews and mapped core workflows. We then ran workshops and developed a plan for reorganising processes around AI capabilities.

AI use increased threefold and the team reported clear productivity gains, particularly in modelling.

Advisory & Tooling

A German consultancy, specialised in RWE, wanted support with scientific writing and building AI workflows.

We ran a half-day introductory session and co-developed initial prototypes for reviewing and drafting study reports, supported by weekly check-ins.

The team is now reshaping core workflows and actively developing their own AI solutions.

Task Automation

An NGO that delivers thousands of direct cash transfers spent 2-3 days each month on mandatory reporting tasks.

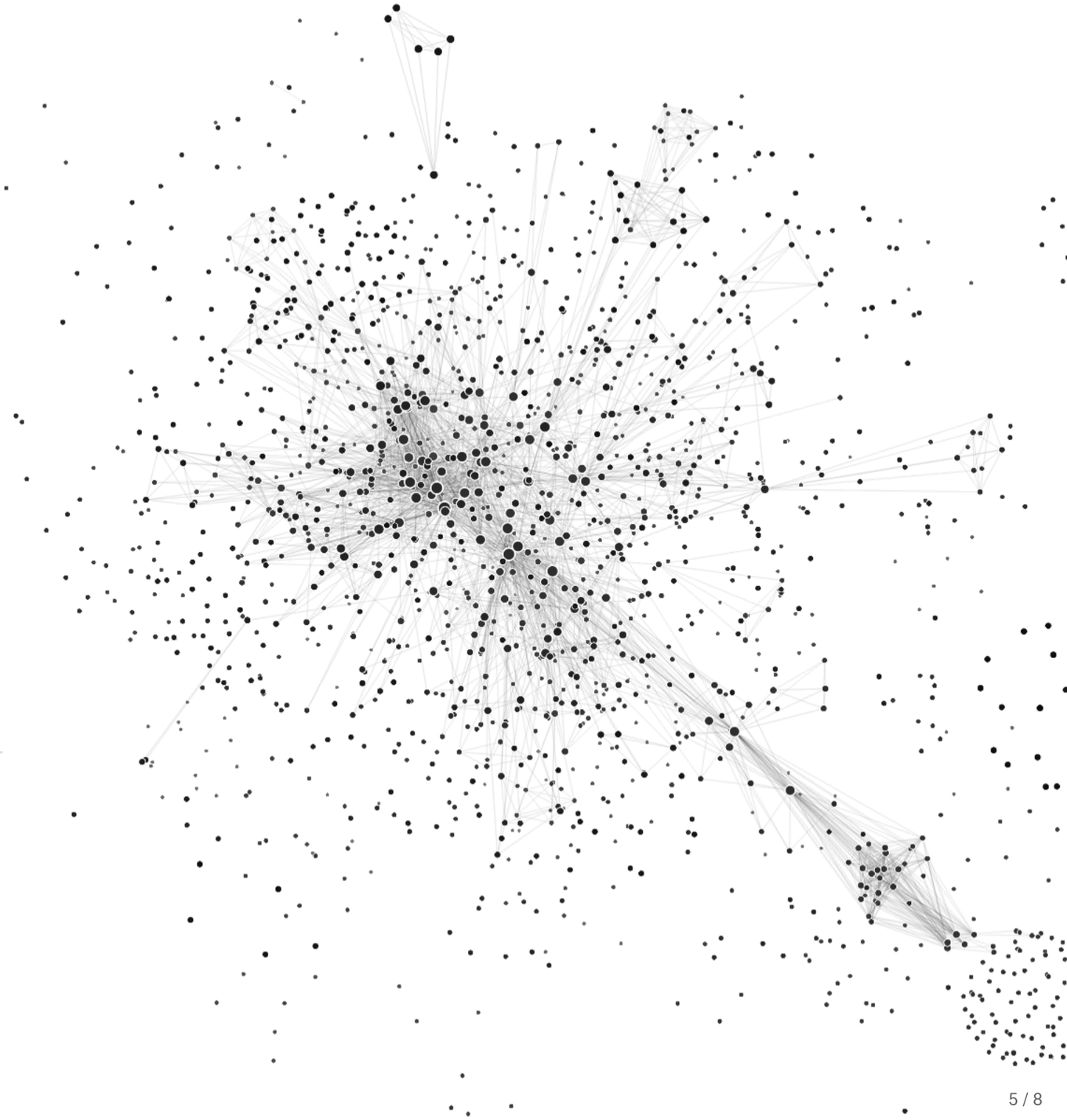
Over the course of three one-week sprints, we identified bottlenecks and implemented a pragmatic AI solution within existing tools.

Many reporting tasks are now effectively automated, freeing up staff time for higher-value work.

AI-native infrastructure

Current systems have been designed for humans. AI-native workflows require rethinking information infrastructure.

A knowledge graph of EuroQol-funded research: We built an automated pipeline to identify, retrieve and ingest data from 1,024 EuroQol projects and 797 publications into a knowledge graph. It connects researchers, methods and outcomes in one queryable resource, enabling entirely new ways of AI-driven meta-research.
View project ↗



Further resources

NICE Graph ↗
Covering 826 appraisals

AMNOG Graph ↗
Linking IQWiG and GBA cases

repliclaude ↗
Automated study replication

mim-review ↗
MCP server for AI peer review

Evaluation-driven workflows

We believe evaluations will be central to effective and rigorous AI-native research workflows.

Developing evaluation frameworks for HEOR

We worked with a global market access firm on AI tools for HTA dossier summarisation. Even for these relatively straightforward tasks, developing robust evaluations (e.g. extraction accuracy, reliability, costs) is essential to guide development and validate performance.

On Evals ↗

Pilot programme

We are seeking partnerships to develop AI systems for complete HEOR workflows.

- Select a recurring workflow
- Share inputs/outputs from completed projects
- We co-create evals and validation criteria
- We develop the automated workflow

System performance can then be assessed together against the agreed evals and held-out test cases.

Pilot data is strictly isolated and never used to train models. End-to-end encrypted inference (confidential computing) is available on request.

Discuss a pilot

Further resources

Workflow Mapper ↗ AI Model Builder Demo ↗

Team

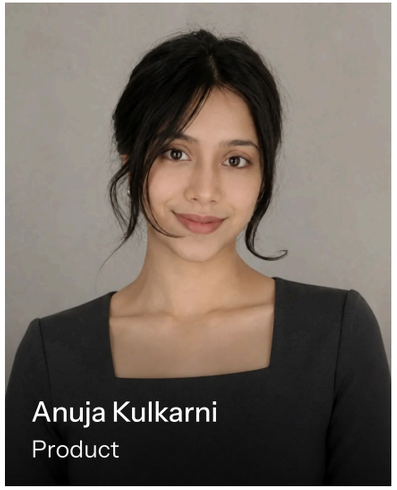


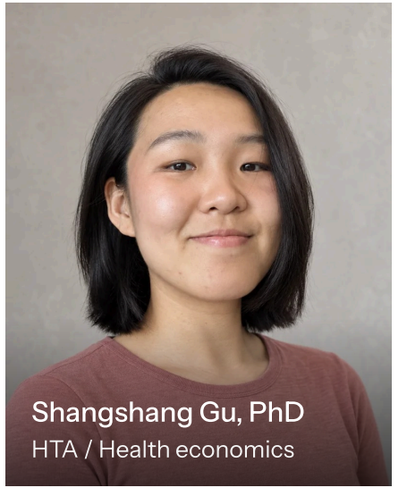
Paul Schneider MD, PhD

Founder and CEO

Paul combines expertise in medicine, health economics and research software engineering. He worked on AI for Science at the Foresight Institute's Berlin AI Node and previously co-founded Dark Peak Analytics Ltd., where he led projects with top-10 pharma companies, NGOs, and the WHO. In his academic work, he developed novel health valuation methods, created tools routinely used in NICE technology appraisals, and published 50+ peer-reviewed papers.

We bring together a team of exceptional researchers, engineers and product managers with deep expertise in health economics, market access, statistical methods and advanced AI systems.











Contact

We welcome enquiries about AI in HEOR, project opportunities and research collaboration.

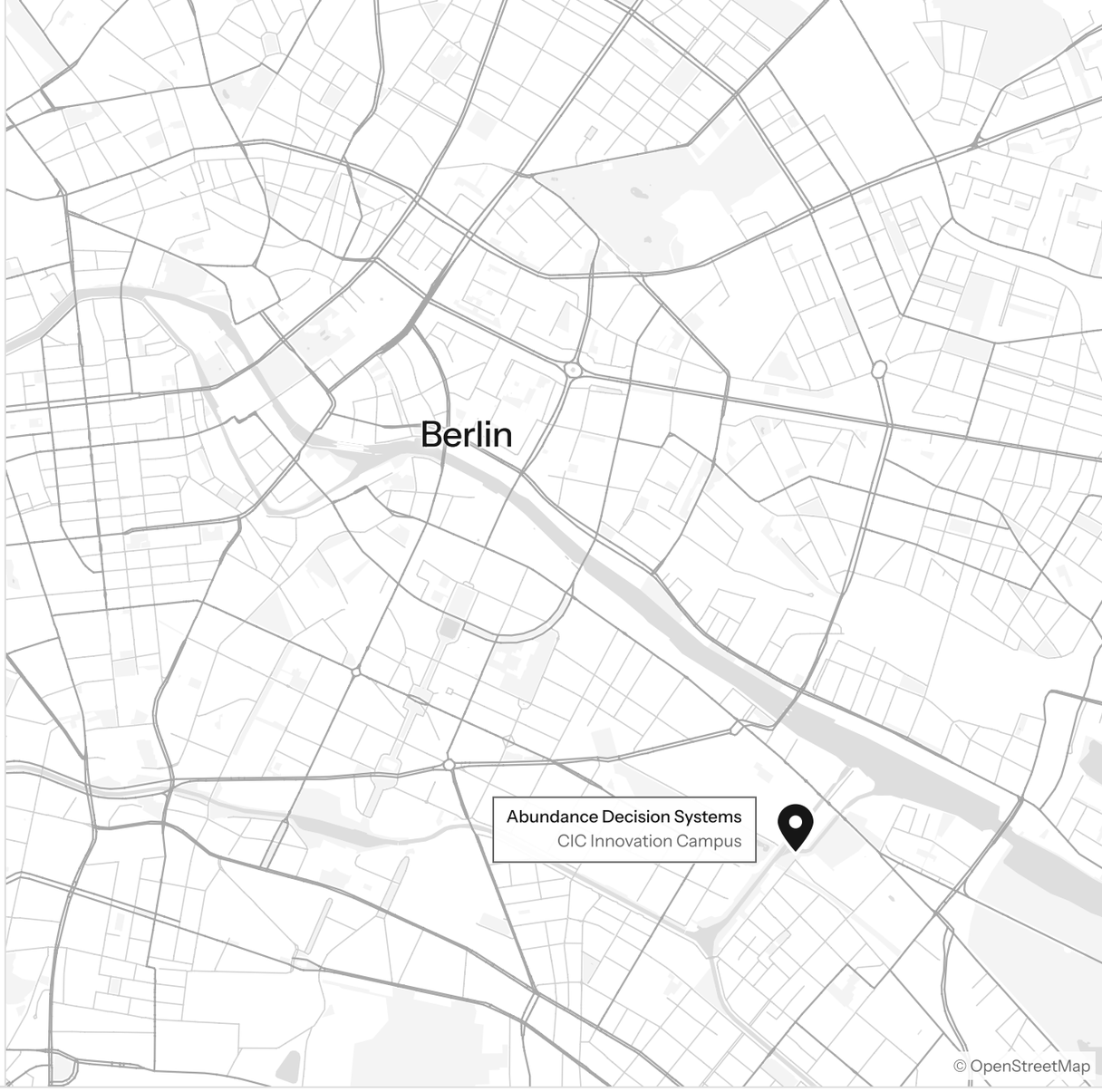
Book an intro call

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