

# Mission:

"to ensure that the creation of smarter-than-human intelligence has a positive impact"

## Narrow Al

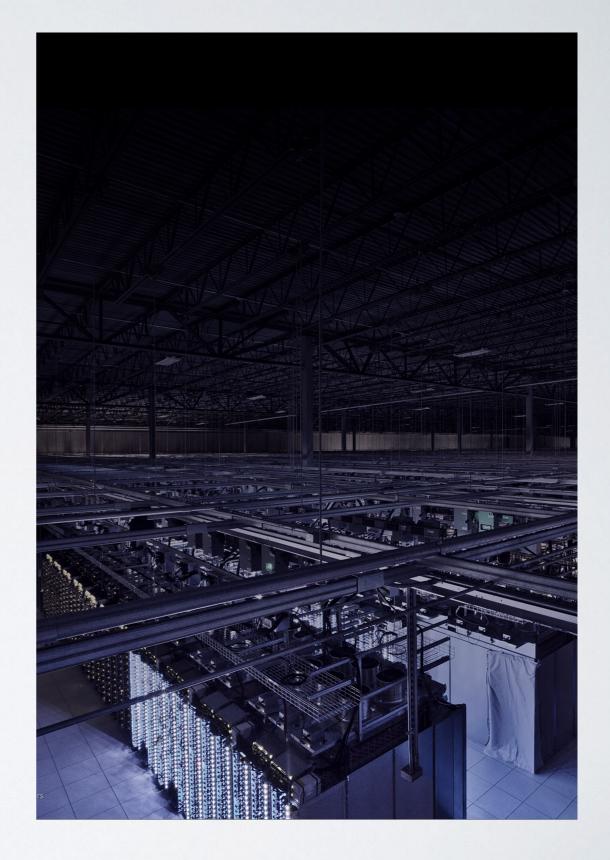
# Narrov



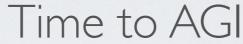




## **AGI**



Michie (1973), n=63:





"Assume that human scientific activity continues without major negative disruption. By what year would you see a (10% / 50% / 90%) probability for [AGI] to exist?"

## Müller & Bostrom (2014), n=29:

	10%	50%	90%
median response	2024	2050	2070

#### Luke's estimate:

	10%	50%	90%
Luke	2030	2070	2140

See Muehlhauser, "When Will Al Be Created?" (2013)

"Assume... that [AGI] will at some point exist. How likely do you then think it is that within (2 years / 30 years) thereafter there will be machine [superintelligence]?"

## Müller & Bostrom (2014), n=29:

	2 years	30 years
median response	5%	50%

#### Luke's estimate:

	2 years	30 years	
Luke	15%	85%	

See Bostrom (2014) ch. 4 and Yudkowsky, "Intelligence Explosion Microeconomics"

"Assume... that [AGI] will at some point exist. How positive or negative would be overall impact on humanity, in the long run?"

## Müller & Bostrom (2014), n=29:

	Extremely good	On balance good	Neutral-ish	On balance bad	Extremely bad
mean	20%	40%	19%	13%	8%

## Luke's estimate (on Tuesday and Thursdays, still volatile):

	Extremely good	On balance good	Neutral-ish	On balance bad	Extremely bad
Luke	19%	1%	~0%	5%	75%

See Bostrom (2014) and stuff that hasn't been published yet

- **I. Astronomical stakes:** Most QALYs are in the long-term future, so what matters most is that we shape the trajectory of the long-term future in a robustly positive direction. See Beckstead's PhD thesis, and Yudkowsky's talk at 10:40am tomorrow.
- 2. Al is the key lever on the long-term future: See Bostrom's Superintelligence (2014).
- 3. Friendly Al work is urgent, tractable, and uncrowded: Most AGIs do not stably optimize for desirable values, Friendly AI is strictly (much) harder than AGI, and today AGI progress is vastly outpacing Friendly AI progress. FAI work is also, it turns out, tractable and uncrowded. See my talk at 4pm tomorrow.

### I. Astronomical stakes

## QALYs we can produce in the long-term future

Eliezer: "If you occupy the incredibly rare and leverage-privileged position of being born into pre-AGI Earth, then the best thing you can do is to help make sure the reachable universe is converted into quality-adjusted life years."

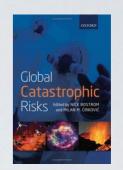
QALYs we can produce in the next century
(Warning: dot may be too small to see on screens smaller than Saturn.)

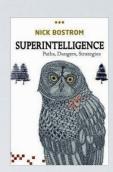
Yes, Friendly AI work is more speculative than, say, Deworm the World.

But if you take astronomical stakes seriously, then...

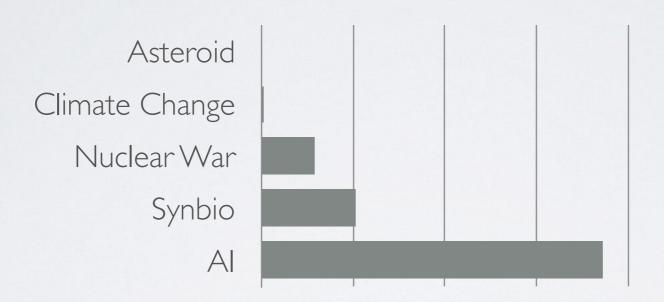
- FHI?
- MIRI?
- Another organization aimed at astronomical value?
- A new organization aimed at astronomical value?
- Some other thing that was never purposely aimed at astronomical value but happens to be optimal by accident?

## 2. Al as the key lever on the long-term future





Chance of being an x-risk in next century (my opinion)



#### Asymmetry #1:

FAI helps us mitigate other risks, but solving climate change, asteroids, etc. doesn't help us much with other risks.

#### Asymmetry #2:

FAI is the only technology that lets us convert the reachable universe into quality-adjusted life years.

3. Friendly Al work is urgent, tractable, and uncrowded

Uhhhhhhh... see my other talk.:)

# So what does MIRI actually do?



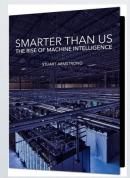
Workshops

#### **Exploratory Engineering in Artificial Intelligence**

Robust Cooperation in the Prisoner's Dilemma Program Equilibrium via Provability Logic

#### MIRI

## Papers & reports



#### Scott Aaronson on Philosophical Progress















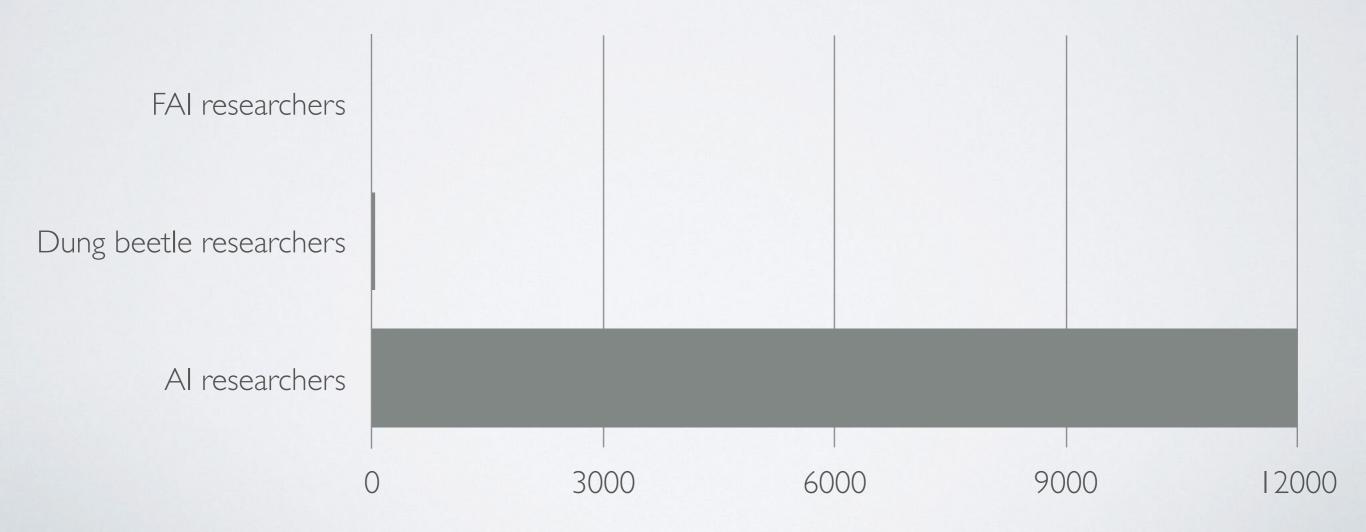




Some other stuff

# Marginal dollars are mostly spent on: finding/creating new FAI researchers.

## Because:





For more information, visit intelligence.org or come talk to me.