

REGULATING THE TYRELL CORPORATION: COMPANY LAW AND THE EMERGENCE OF NOVEL BEINGS



INVESTIGATORS

Sarah:

- Company Law
- Corporate Governance

David:

- Moral Philosophy/ Ethics of biotechnology and consciousness/ Neuroscience
- Artificial Intelligence
- Ownership of novel consciousnesses
- What makes beings significant to the law?

THE QUESTION

- To determine:
 - Whether company law can, or should, be the primary means of regulating novel beings, and by extension their potential wide-ranging societal impacts.
- Challenges for law posed by emerging technologies liable to give rise to morally significant beings
- Untapped area of legal and philosophical scholarship
- Three key areas:
 - Defining Status
 - Development
 - Operation and Disposal



TECHNOLOGIES FOR NOVEL BEINGS

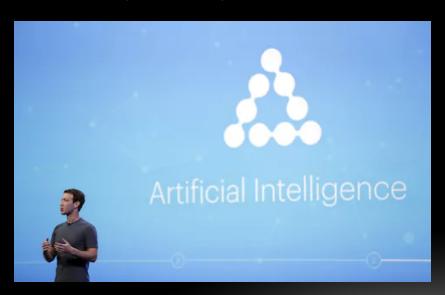
HERITABLE GENOME EDITING ARTIFICIAL INTELLIGENCE

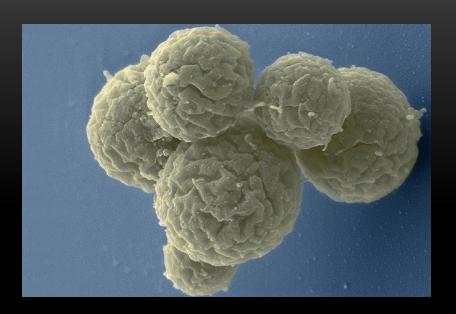




COMPANIES

- Synthetic Genomics Inc- JCVI-Syn3.0
 - Partnerships with:
 - Novartis (vaccines)
 - United Therapeutics (organs)
 - Monsanto (crops
 - Synpromics- Pharma, biotech
 - Spinout companies from Universities





- CYC (Cycorp)- Al with humanlike reasoning, inference engine
- Google Brain (Alphabet subsidiary)- deep learning
- FAIR (Facebook)- language and memory
- Microsoft- logic, verbal reasoning- analogies and synonyms. High human IQ.

LEGALLY HUMAN?*

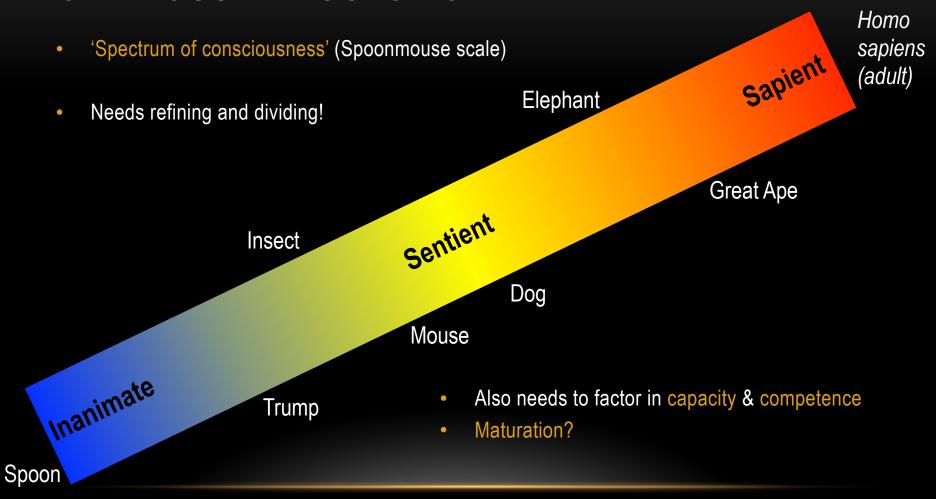
- We need some useable definitions and boundaries for beings with moral value
 - 14 Day Rule in embryology
- A key existing determinant:
 - Trespass to person / Homicide legislation
 - Murder actus reus-

"a person of sound mind and discretion unlawfully kills any reasonable creature in being under the [Sovereign]'s peace with intent to kill or cause grievous bodily harm." (Coke E. The First Part Of The Institutes Of The Lawes Of England. London: Printed for the Societie of Stationers; 1628. Pt III, Ch 7: 47)

Modern research into animal intelligence puts the lie to much of this



ONE POSSIBLE SOLUTION



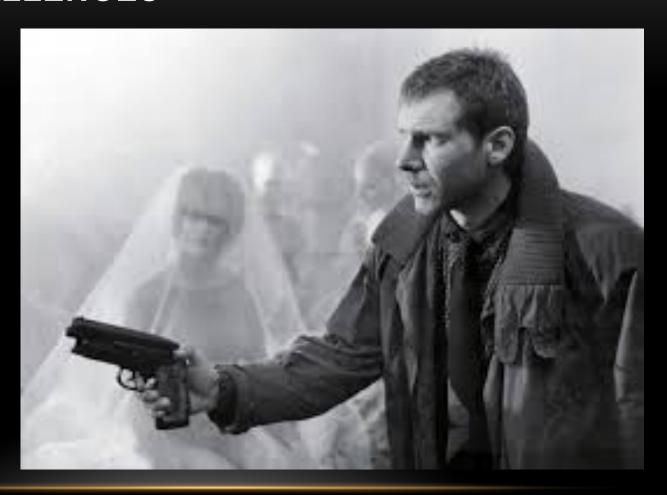
BROAD CHALLENGES

Personhood

- philosophical
- legal
- corporate

Legal responsibility

 Lords Select Committee on AI (2018) [HL 100]



AIMS

- Defining status
 - Analysis of legal status for novel beings for the purposes of regulation.
- Development:
 - Whether the drivers of public companies (i.e. shareholder primacy) are appropriate drivers of morally significant technological development.
- Operation and Disposal:
 - Who or what entity is responsible for the lifespan of the potential being, its deployment, and ultimate fate.

EVENTS

- Jan 18: Roundtable (London) for invited stakeholders, advisory board
 - Establish primary concerns
- April 27: Symposium 1 (NCL) for roundtable participants and other invitees identified at roundtable
 - Defining consciousness for legal status
- June 12: Symposium 2 (NCL)
 - Development
 - Operation and Disposal
 - Lack of direct legislation
- Oct 25/26: Conference (London) for invited speakers, open attendees
 - Addressing core questions, future work

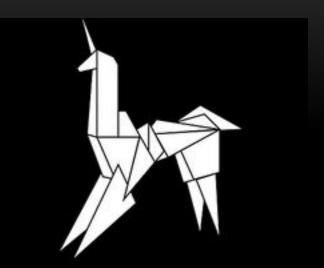
OUTPUTS

- Peer reviewed research articles (3-6) including solo and co-authored
- Possible edited collection/ special issue
- Establishment of new and unique network
- Future funding application



FUTURE

- Broad project
- Only the first steps
- Implementation is a major hurdle beyond our scope



- Future significant funding project to expand the concepts set out this year
 - Fully conscious Al- capacity
 - Legal ramifications

MATERIALS

- Parliament, House of Lords (2018) Al in the UK: ready, willing and able? (HL 2017-2019 (100)). London: The Stationery Office.
- Companies Act 2006
- European Parliament Committee on Legal Affairs. Draft Report With Recommendations To The Commission On Civil Law Rules On Robotics (2015/2103(INL)). Brussels; 2016
- Gillick v. West Norfolk and Wisbech AHA [1986] A.C. 112
 House of Commons Science and Technology Committee. Report on Robotics and Artificial Intelligence. London, 2016, HC145
- National Science and Technology Council Committee on Technology. Preparing For The Future Of Artificial Intelligence. Washington D.C.: Executive Office of the President; 2016.
- Lawrence DR, Brazier M. 'Legally Human? The Status and Challenge of Novel Consciousness in Law' Medical Law Review 2018. 26(2),
- Lawrence DR, Palacios-González C, Harris J. Artificial Intelligence: The Shylock Syndrome. Cambridge Quarterly of Healthcare Ethics 2016, 25(2), 250-261.