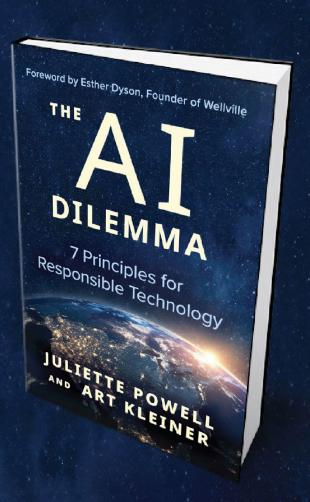
The A.I. Dilemma

Juliette Powell Fall, 2023



Robotaxis in San Francisco

How long will it be before they are in your local community?

- □ 0-1 years
- □ 1-5 years
- □ 5-10 years
- □ More than 10 years
- □ Never



What is AI?

We use the term "artificial intelligence" because that is the term generally used by the public.

Engineers refer to this technology as machine learning.

We also use the term Triple-A systems, because they are:

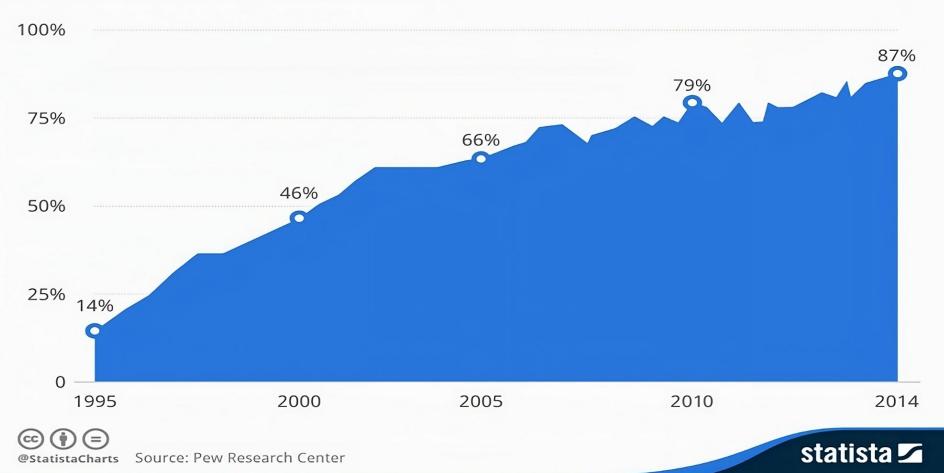
Autonomous: They can perform tasks in complex environments without constant guidance by a person.

Adaptive: They can improve performance by learning from experience.

Algorithmic: Their activities are managed through software code.

The Rapid Rise Of The Internet

% of American adults who use the internet

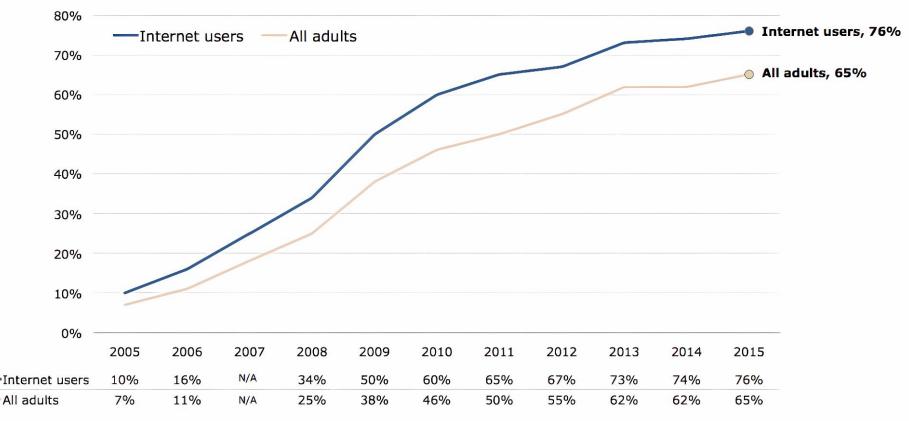




Social Media Adoption Trends

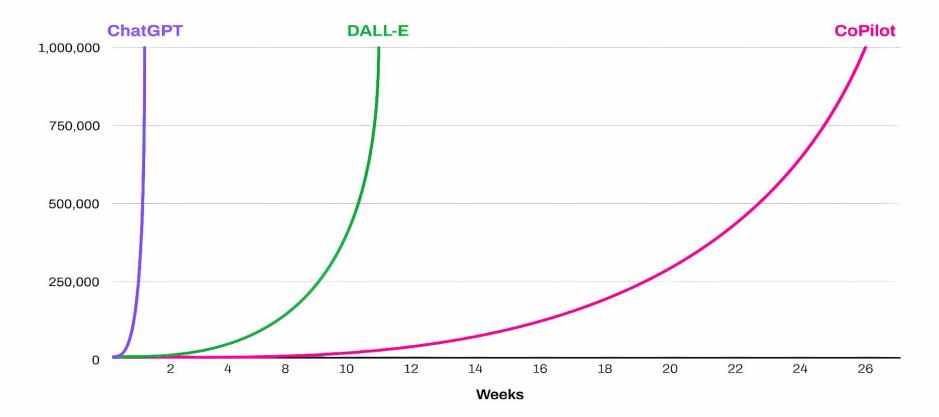
percentage of all American adults - and internet-using adults - who use at least one social networking site

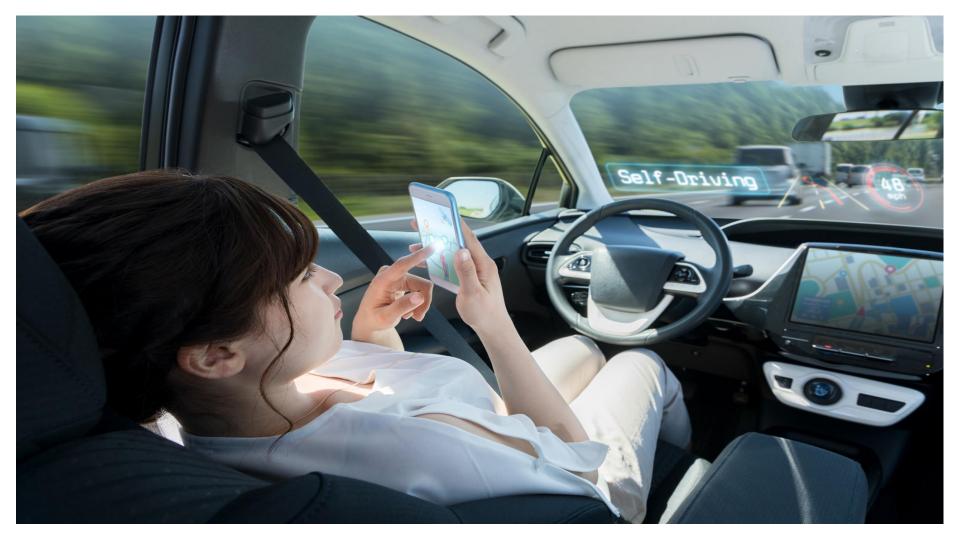
2005-2015

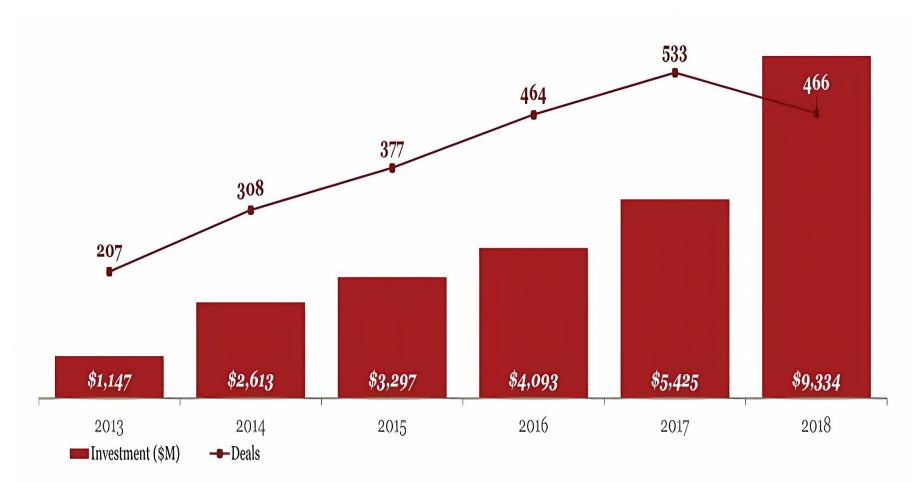


MarketingCharts.com | Data Source: Pew Internet & American Life Project

Weeks to Reach 1 Million Users



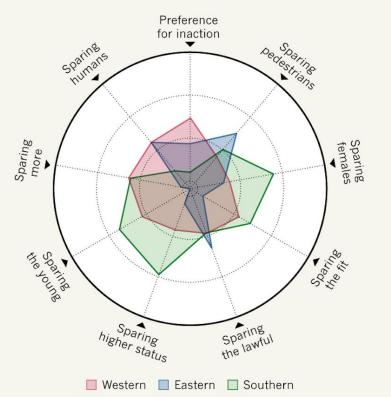


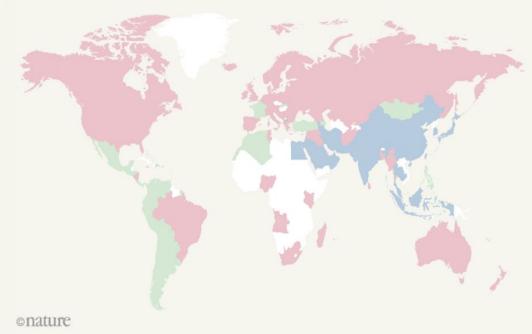


PwC | CB Insights MoneyTree™ Report Q4 2018

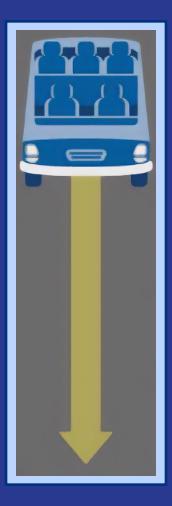
MORAL COMPASS

A survey of 2.3 million people worldwide reveals variations in the moral principles that guide drivers' decisions. Respondents were presented with 13 scenarios, in which a collision that killed some combination of passengers and pedestrians was unavoidable, and asked to decide who they would spare. Scientists used these data to group countries and territories into three groups based on their moral attitudes.

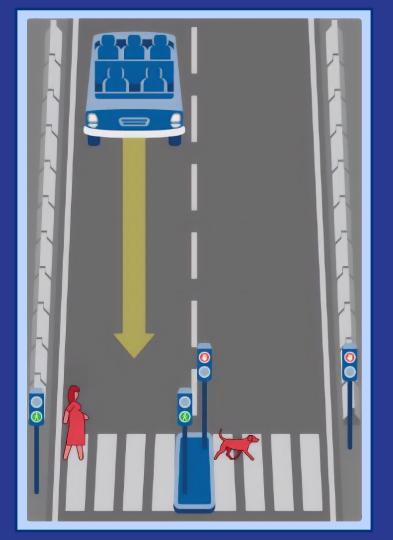




Suppose you made a self-driving car....



Pregnant woman...

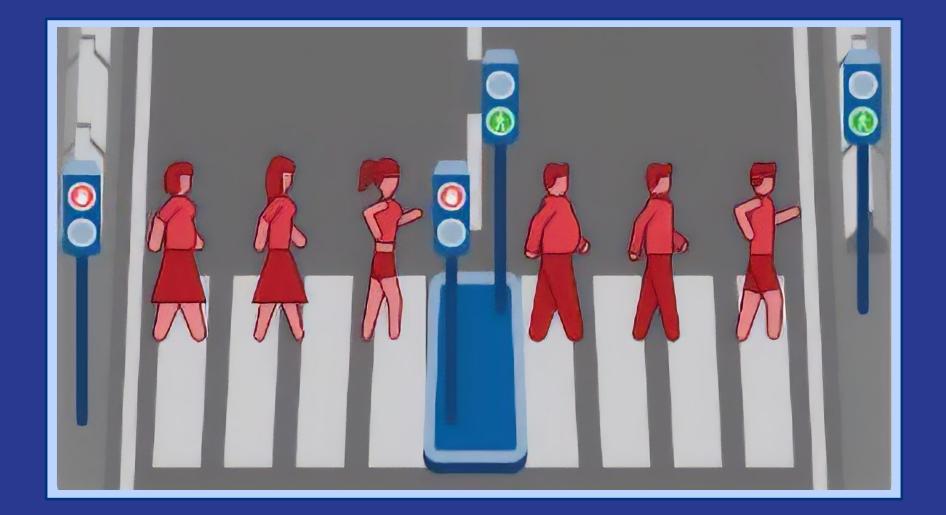
















The Moral Machine Experiment platform gathered 39.61 million decisions in ten languages from millions of people in 233 countries

Global consensus on just three points:

People want to save lives.
 They prefer to kill fewer people.

• Most people favor saving humans over pets.

• Most people favor saving children over adults.

 Do you believe that your decisions on Moral Machine will be used to program actual self-driving cars?

 To what extent do you feel you can trust machines in the future?

 To what extent do you feel that machines will become out of control?



11



Examples

Capabilities

4

"Explain quantum computing in simple terms"

Remembers what user said earlier in the conversation

May occasionally generate incorrect information

/!

Limitations

"Got any creative ideas for a 10 year old's birthday?" Allows user to provide followup corrections May occasionally produce harmful instructions or biased content

"How do I make an HTTP request in Javascript?" Trained to decline inappropriate requests

Limited knowledge of world and events after 2021



Steve Wozniak Elon Musk Yuval Noah Harari Andrew Yang Valerie Pisano Connor Leahy Kate Jerome Jaan Tallinn Tristan Harris Danielle Allen Marc Rotenberg Gary Marcus



Sam Altman 🤣 @sama

DALL·E 2 is here! It can generate images from text, like "teddy bears working on new AI research on the moon in the 1980s".

...

It's so fun, and sometimes beautiful.

openai.com/dall-e-2/



10:39 AM · Apr 6, 2022



Smoke inpainted in an image of the White House. Credit: OpenAl

BCG study, Sept 15, 2023

BCG consultants who used AI were 12% more productive and completed work 25% faster.

They also produced 40% higher quality results.

BCG study, Sept 15, 2023

Below average workers saw performance increase by 43%.

Above average workers saw 14% gains.

Foreword by Esther Dyson, Founder of Wellville

THE A J DILEMMA

7 Principles for Responsible Technology

JULIETTE POWELL AND ART KLEINER The technology in the wrong hands is dangerous.

In the right hands, AI can be beneficial to all.

Foreword by Esther Dyson, Founder of Wellville

THE

DILEMMA

7 Principles for Responsible Technology

JULIETTE POWELL

EU (AIA)

Classification-based: 4 categories of risk

Geography: Worldwide (if EU data is used)

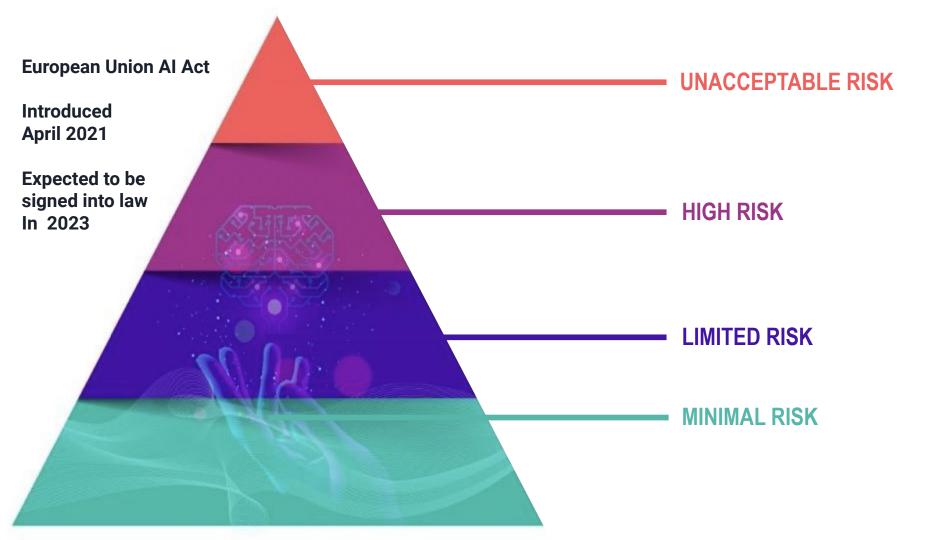
Prohibited

Harmful manipulation of individuals Social scoring that targets groups Real-time biometric identification

Oversight: EU AI board and member states Expected to demand independent audits

Key uncertainties: Whether this will influence worldwide behavior as GDPR did.

Fines: Up to 6% of global income.



UNACCEPTABLE RISK

Predictive analytics that punish people Toys that lead children to dangerous behavior Chatbots that pretend to be human

HIGH RISK

Predictive analytics that detect child abuse Self-driving cars Automated credit check systems

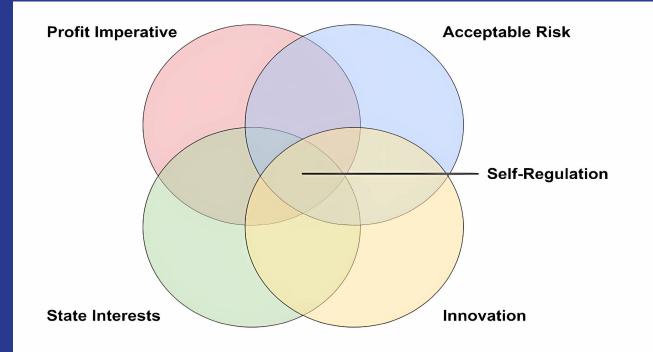


Chatbots that reveal they're machines

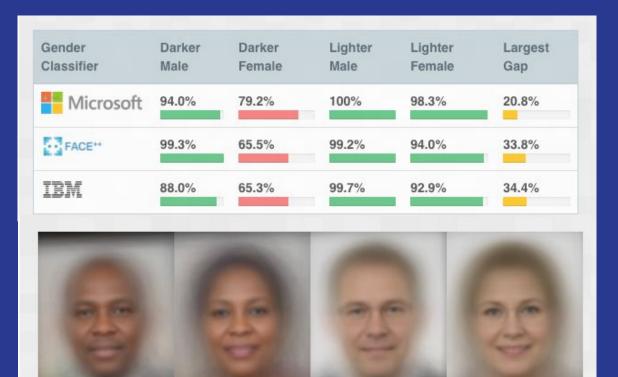
MINIMAL RISK

Al-enabled video enhancement systems Spam filters Inventory management systems

The Apex Benchmark: A Model of Self-Regulation



Confront and Question Bias: Al Mirrors Human Biases



Hold Stakeholders Accountable



The government of the Netherlands was not fully held accountable for their anti-fraud system's false positives.

Foreword by Esther Dyson, Founder of Wellville

THEAI

7 Principles for Responsible Technology

JULIETTE POWELL AND ART KLEINER

FULLY REVISED and EXPANDED with NEW MATERIAL

DR. SPOCK'S BABY AND CHILD CARE

Dr. Benjamin Spock, M.D.

UPDATED and REVISED by ROBERT NEEDLMAN, M.D.

Dr. David Stark's Research, Columbia University



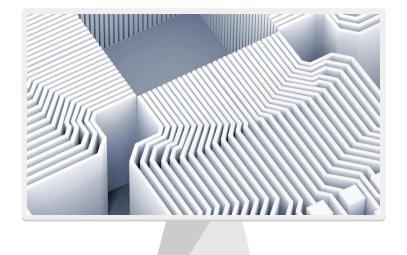
More Diverse Teams Deliver



Four Logics of Power	Private	Public
Individual	Engineering logic Technology	Social Justice logic Humanity
Institutional	Corporate logic Ownership, Markets, and Growth	Government logic Authority and Security

Corporate Logic is

the logic of markets and competitive advantage



Prioritizes profit, growth, expansion, new business, all on behalf of shareholder value

Engineering Logic is the logic technologists use.

Prioritizes efficiency, and seamlessness. This view values technology as a way to solve human and technological problems



Social Justice logic

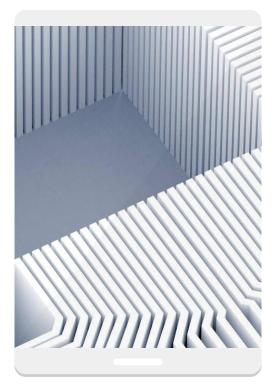
perspective prioritizes humanity.



In this view, people are more important than profit or efficiency. This view values people as a way to solve technological and human problems.

Government Logic is

the view of authority.



Prioritizes law and order. This view values technology as a way to track, serve, prevent, and protect people, as well as institutions.

What is the AI Dilemma?

The technology in the wrong hands is dangerous.

In the right hands, AI can be beneficial to all.

Foreword by Esther Dyson, Founder of Wellville

THE

DILEMMA

7 Principles for Responsible Technology

JULIETTE POWELL

Patterns of successful AI use at work (BCG study):

Delegate rote tasks to AI.

 Integrate AI in the entire task flow; humans are in constant interaction with the AI.

The Calculus of Intentional Risk

What is the risk/reward to using Al in your organization?

What is your reputational risk?
Will you run afoul of regulation?
Will insurance cover lawsuits?

The Calculus of Intentional Risk

How much will it cost you not to use AI in terms of securing a competitive advantage? The Calculus of Intentional Risk and Self-Regulation

> What are you NOT willing to do to make money?

Responsible Use of Data + Technology

"THE PRICE OF GREATNESS IS RESPONSIBILITY."

- Winston Churchill



Thank You! Any Questions?

Find more on our AI advisory work, our research, and *The AI Dilemma* book at JuliettePowell.com





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