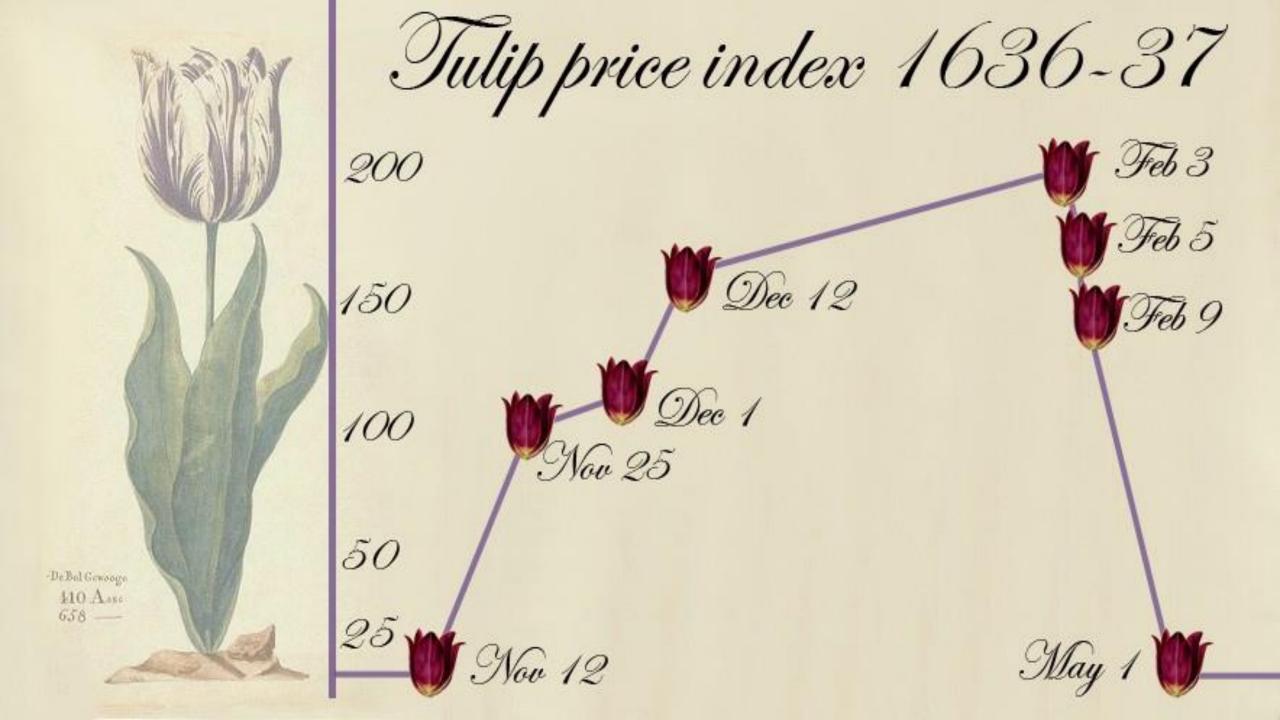
Cryptocurrency and Pollution

Charles McPhedran Earthjustice

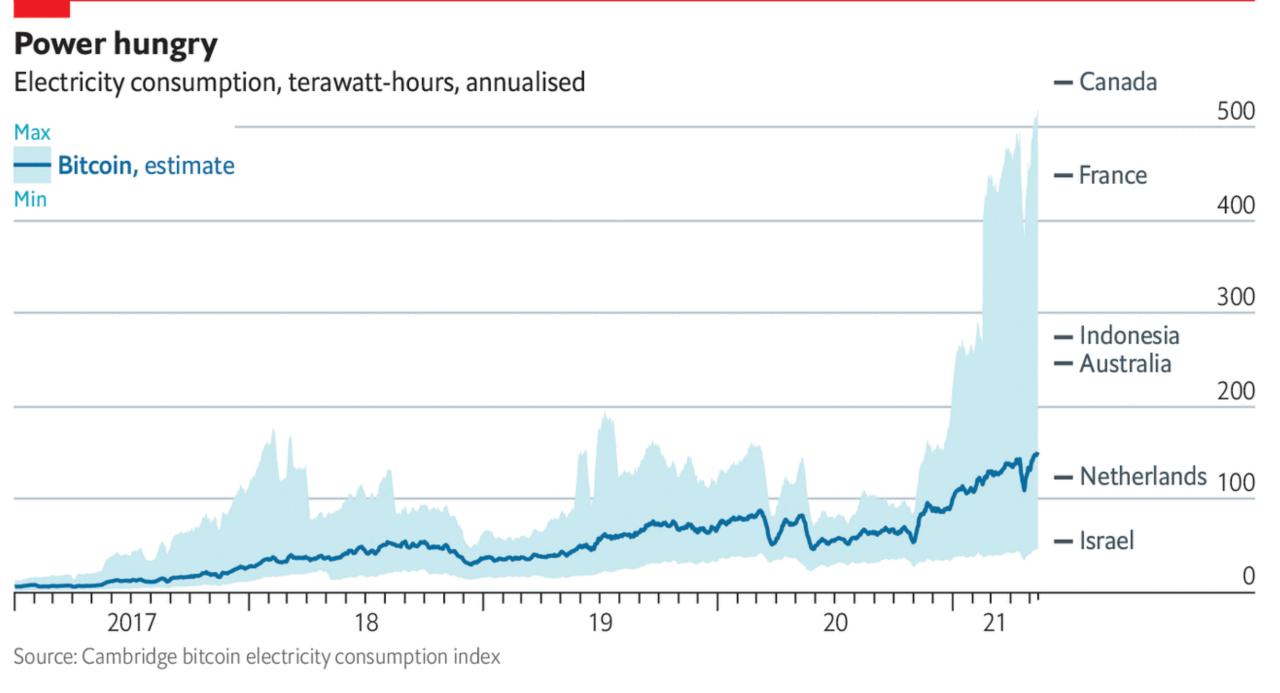
Cryptocurrency

- **≻**Alternative
- **→** Distributed
- ➤ Validation method
- ➤ Proof of Work/Proof of Stake/Others
- ➤ Energy Use



Bitcoin's Price History





The Economist

Impacts from Cryptomining Energy Use

- ➤ Underlying Energy Source
- ➤ Greenhouse Gases
- ➤ Combustion Waste
- **>** Subsidies
- **>** Water
- **►**E-waste
- ➤ Air Pollution
- **➢** Noise







Cryptomining in Pa.

- ➤ Waste coal
- **>** Gas
- ➤ Wellhead gas
- **≻**Nuclear
- ➤ More (e.g., fractracker.org)







Tools

- ➤ Require Permits
- > Permit Enforcement
- ➤ Permit Improvement
- ➤ New Source Review/Prevention of Significant Deterioration
- ➤ Address New Fuels
- ➤ Eliminate Fossil Incentives
- **≻**Noise
- ➤ Section 27
- ➤ Citizen Engagement

