Regulation – by whom and for what purpose?

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Why do we tolerate superordinates, subordinates?

- Why do subordinates accept low status?
 - they can't get higher status, but they want food, sex, & security.
- Why do superordinates tolerate subordinates?
 - It's too expensive to chase them away.



Social species mitigate or avoid the cost of conflict by establishing structured relationships between near-peers. (Birds: pecking order. Fish: homophilous schools.)

video: Bernard Thierry. see also Carel van Schaik

- Intelligence is doing the right thing at the right time (in a dynamic environment).
- Agents are any vector of change,
 - e.g. chemical agents.
- Moral agents are considered responsible for their actions by a society.
- Moral patients are considered the responsibility of a society's agents.
- Artificial Intelligence is intelligence deliberately built.

Definitions

for communicating in this course

Arguably, ethics is determined by and determines a society—a constantly renegotiated set of equilibria.

Conjecture: Ethics (certainly justice!) only works between peers or near-peers.

Bryson (2018, book in prep)





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127

Article Navigation

Finding the Golden Mean: Country Size and the Performance of National Bureaucracies

Marlene Jugl 💌

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y axis =
Government
Effectiveness
measure by
World Bank.

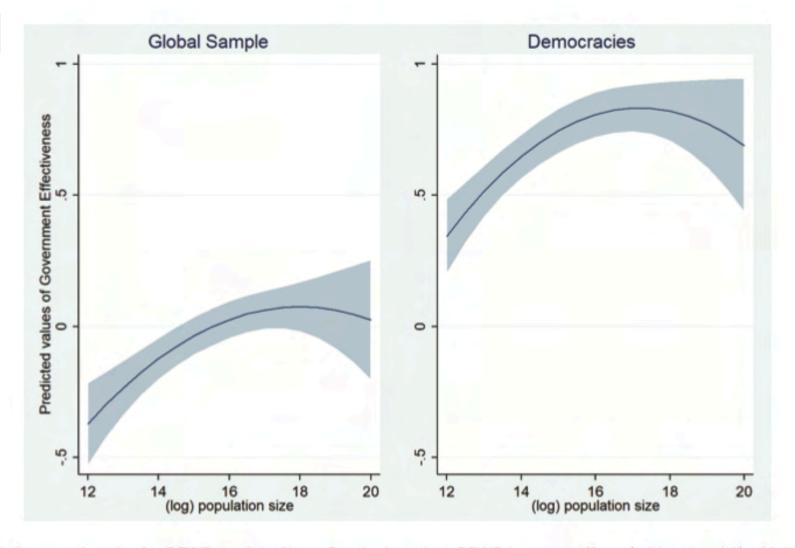


Figure 1. Predictive margins plot for REWB models. Note: Graphs based on REWB between-effects (tables 1 and 2) with 95% confidence intervals.

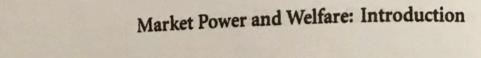
Monopoly of Force

- Autonomy is the extent to which you control what happens within your own borders.
- Never fully autonomous: share ecosystem, neighbour's border policies affect your own, good control is complicated.
- People within your borders may be influenced by those outside your borders, or may disregard your authority for other reasons.
- Technology can increase or decrease the ease of controlling control exogenous to the local government.

Monopolies in Commerce

- Someone has to be best; that's not a crime.
- But being "too big" entails special obligations to show you aren't abusing your market dominance.
 - Kind of like the "offsides" rule in some sports.
- What is too big?
- Historical concern: corporations or people too large / powerful to be governed by a democracy.
 - Softened to "economic inefficiency"
 - Softened to "price insensitivity"

y: price x: quantity sold OO': demand fair-price welfare = consumer surplus + (producer surplus = 0) for full competition; With market power, overall welfare declines, but producers get some surplus.



42

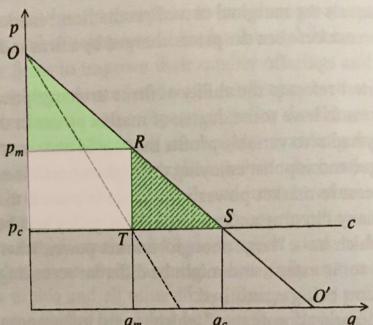


Figure 2.1. Welfare loss from monopoly.

A Simple Graphical Analysis Assume for simplicity that there exists a linear market demand, described by the line OO' in Figure 2.1, and a constant returns to scale technology, represented by the line of constant marginal costs $p_c c$. In the most competitive case, our benchmark case,⁵ the price is $p_c = c$ and the quantity sold to consumers is equal to q_c . Consider then the extreme case where market power is maximum: the industry is monopolised by a single firm, which charges the monopoly price p_m .^{6,7} The equilibrium output would be given by q_m .

Recall that welfare is defined as the sum of consumer surplus and producer surplus. Under the most competitive equilibrium, welfare is given by the triangle $Op_c S$, which also corresponds to the consumer surplus (firms do not have any surplus, since profits are equal to zero). Under *monopoly*, welfare is given by the area described by the points $Op_c TR$, which is itself the sum of producer surplus

Competition
Policy:
Theory &
Practice

Massimo Motta

Regulating Al itself is impossible, but regulating people who use and develop it is essential

- Al cannot be safely built to respond human (and other social animal) incentives like caring systemically about status, wealth, or liberty.
- What we regulate is not the micro details of how Al works (or of human brains), but how humans behave when they build, train, test deploy, and monitor Al.
- Good (maintainable) systems engineering of software requires:
 - Architecting the system: design and document its components, processes for development, use, and maintenance.
 - Secure the system, neluding lessin proyenance of software 18, staten our 2020

- What we regulate is not the micro details of how AI works, but how humans behave when they build, train, test deploy, and monitor AI.
- Good (maintainable) systems engineering of software requires:
 - Architecting the system: design and document its components, processes for development, use, and maintenance.
 - Secure the system. Including logs; provenance of software & data libraries.
 - Document (log) with secure revision control every change to the code base – who made the change, when, and why. For ML, log also data libraries, and model parameters.
- Log testing before and during release; and performance inputs and decisions – of operational systems.



Spheres of Influence?

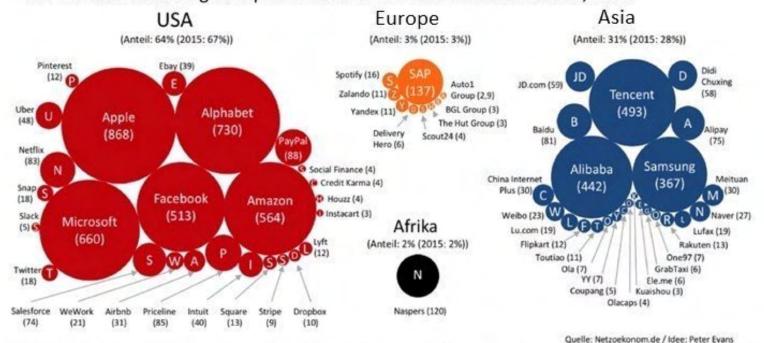
- EU's GDPR demonstrates that small countries can work together to regulate external companies, just by having an attractive, harmonized market.
- Maybe even better than their "host" countries can, since no fear of flight.

US - EU - China

Meme slide focussing on largest companies (so less regulated states look better.) Conflates Asia with China!

The imbalance of platform economy

The 60 most valuable global platforms in billion USD on December 31, 2017



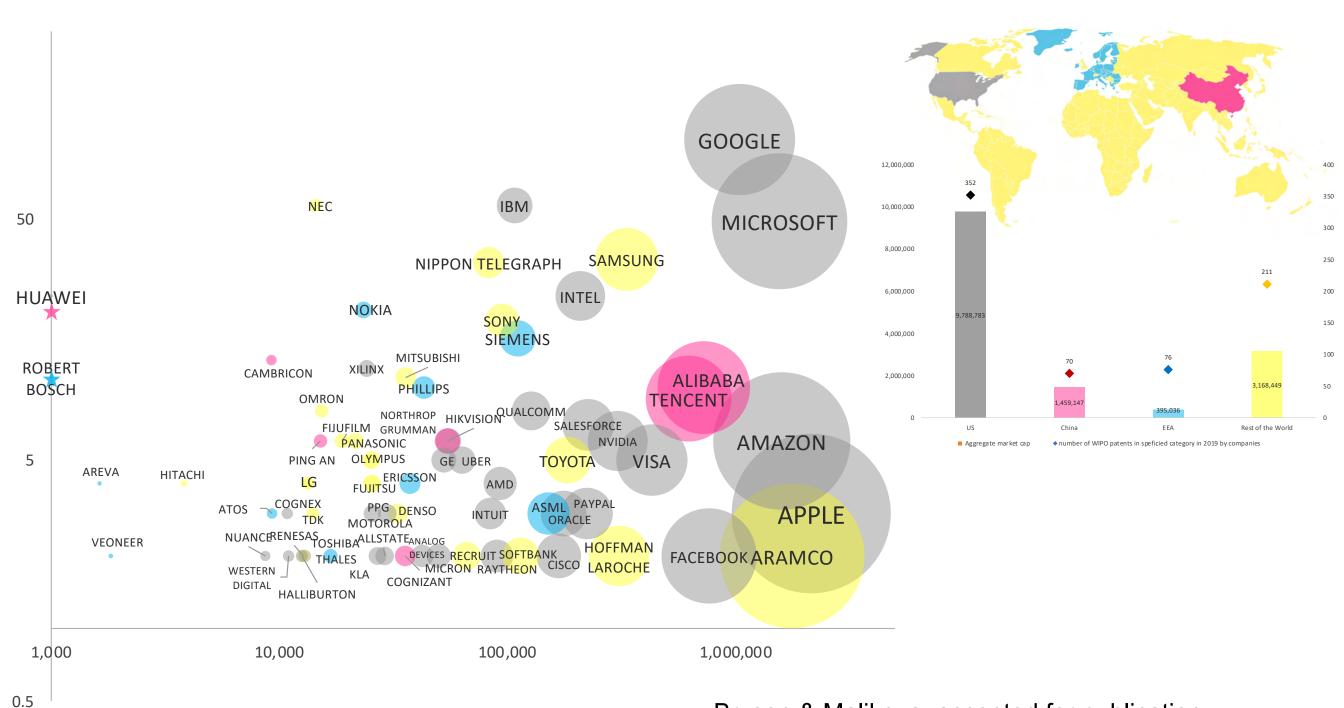
USA: libertarian market logic, limited regulation

China: state capitalism, government directs activities of companies

EU: social market economy, multistakeholder models. GDPR as first step towards regulating Big Tech

Source: Dr. Holger Schmidt (TU Darmstadt)

Dr. Holger Schmidt | Netzoekonom.de | Handelsblatt | TU Darmstadt | Ecodynamics.io | Platformeconomy.com



Bryson & Malikova, accepted for publication

Every Nation defends the human rights of every human within our borders. At least one country is responsible for every human's rights. Are there other responsibilities of transnationals?

thank you NASA, UN, CoE

Tom Dale Grant

Mihailis E. Diamantis





Helena Malikova

for bubble chart & monopoly

