Computational Law A Department of the MIT Media Lab **Christoph Pereira**

Vision

How can technology inform a better modern legal system?

Precedents

Law & Economics/University of Chicago (Coase theorem) ... widely adopted by Federal Courts

Uniform Laws authored by National Conference of Commissioners on Uniform State Laws

How

Create technology enabled Model Platform, run by MIT Media Lab, that replicates a sovereign legal entity (city, state, country)

Model Platform can be used to model the impact of laws & regulations on society

Run it like a gaming platform ("SimCity")

The Model Platform

Steering/Advisory Group



- Cross-disciplinary body of technologists, lawyers, economists, statisticians, ethicists
- Advise MIT Media Lab students on domain areas
- Responsible for adopting "Magna Carta"

Operations



Run by MIT Media Lab students

Magna Carta

Kernel of how to operate platform; illustrative principles:

- Sovereign identify ... Individuals own their identity/data
- **Rule utilitarian approach** ... "Greatest good for the greatest number")
- **Establish definition** of the greatest good (economics+?)

How the platform generates data

- Users interacting on platform
- Participating sponsors ... E.g., city makes real traffic data available to model impact of change in speed limit

Why the platform is valuable

- ✓ Gives legislators/regulators/companies ability to
 model social impact of new rules
- ✓ Grounded in principle of **dynamic rule making** ...
 rules need to be continuously evaluated for ongoing effectiveness/adjustments
- ✓ **De-risks new legislation**; model unintended consequences, etc.
- ✓ Mitigates first mover disadvantage

Platform Example

Case: New TechCity would like to model impact of new property tax regime to incent economic activity in low-income neighborhoods by lowering sales tax in these neighborhoods



Process

New TechCity sets up X-Prize in platform to test tax proposal

New TechCity loads anonymized demographic and socioeconomic data into Platform

Users are incented to participate/play by X-Prize

Evaluate socioeconomic impact

Platform initially would be focused on areas that generate publicity/marketability

Illustrative Rollout Plan

Timeline	Deliverable
[date]	Assemble Advisory Group, schedule immediate kickoff
[date]	Set up administrative office within Media Lab, recruit students
[date]	Complete technology feasibility study and determine budget
[date]	Develop kernel/philosophy
[date]	Develop technology platform
[date]	Approach city to be first model client/X-Prize no fee, but will have to provide data
[date]	Announce new Media Lab department and launch project
[date]	Use credibility of city X-Prize to sign up participating sponsors/cities, etc.