

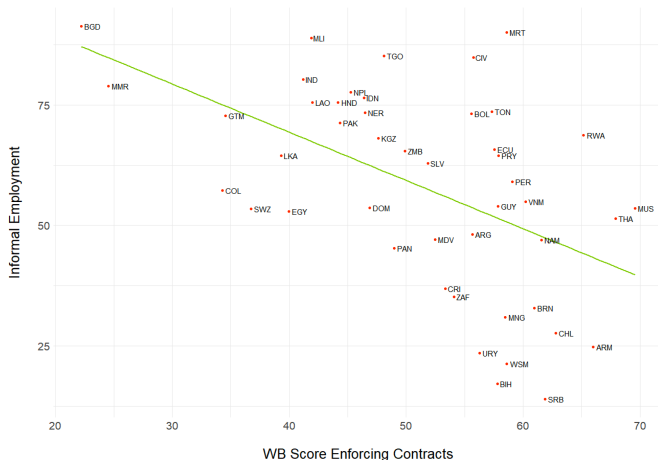
The Role of Justice in Development:
The Data Revolution

DE JURE (Data and Evidence for Justice Reform)

Daniel L. Chen, Manuel Maqueda, and Sandeep Bhupatiraju

Economic development & legal institutions are associated

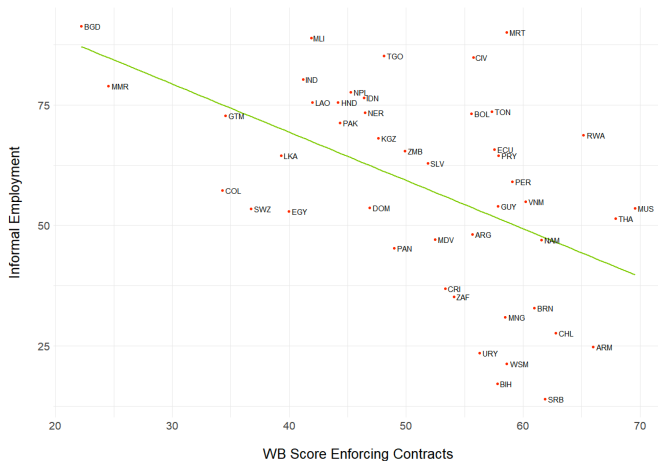
MACRO EVIDENCE, E.G.:



WHAT ABOUT THE MICRO EVIDENCE?

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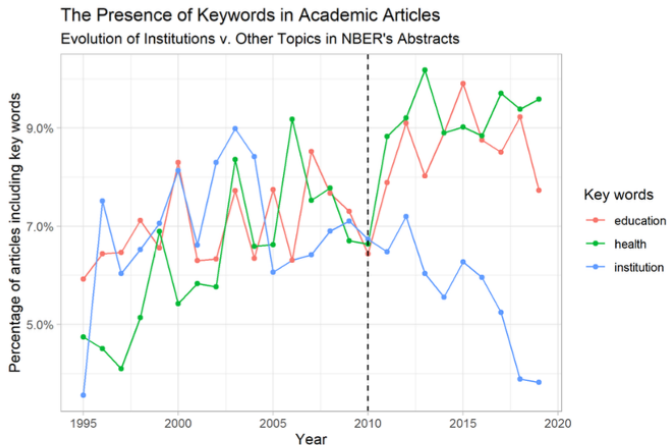
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WHAT ABOUT THE MICRO EVIDENCE?

State of the Literature

RESEARCH ON “INSTITUTIONS” HAS DECLINED PERSISTENTLY IN RECENT YEARS

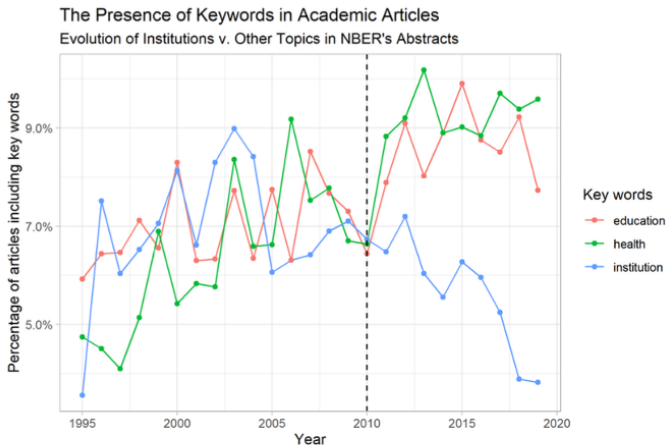


Source: data scraped by the authors from NBER's website.
It contains the abstracts from all of the articles published up to November 2019

EXPANSION OF EXPERIMENTAL METHODS FOR CAUSAL INFERENCE,
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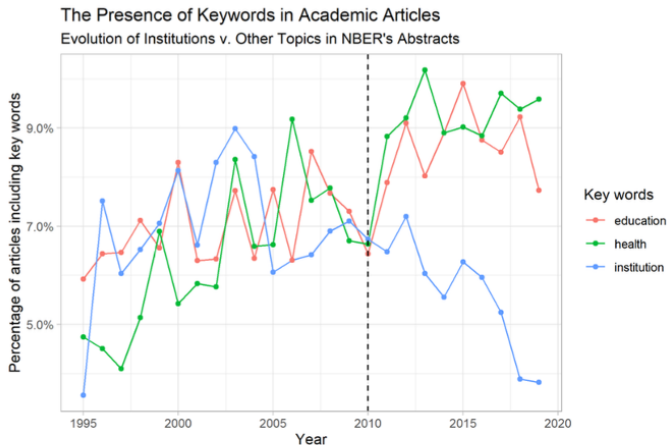


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 - ▶ Firm-to-firm trade
 - ★ Chemin 2012
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India: Impact of Legal Reform (Chemin 2012)

Causal inference from leveraging spatial variation in implementation

Table 3. Impact of the 2002 Amendment Act on the Probability to Experience a Breach of Contract

	(1)	(2)	(3)	(4)
	Nonrecovery of service charges, fees, credit			
2002 Amendment Act * Year 2005	-0.0145 (2.16)**	-0.0142 (2.10)**	-0.0142 (2.10)**	-0.0135 (1.97)**
2002 Amendment Act * Year 2002	-0.0128 (3.92)***	-0.0128 (4.03)***	-0.0128 (4.03)***	-0.0149 (4.88)***
2002 Amendment Act * Year 2001	-0.0029 (0.87)	-0.0017 (0.54)	-0.0017 (0.54)	-0.0033 (0.90)
State dummies	Yes	Yes	Yes	Yes
Year dummies	Yes	Yes	Yes	Yes
NIC2 dummies	No	Yes	No	No
NIC3 dummies	No	No	Yes	Yes
State-level controls	No	No	No	Yes
Observations	627,106	627,075	627,075	599,852

FASTER SPEED OF JUSTICE AND FEWER BREACHES OF CONTRACT

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India: Impact of Court Efficiency (Amirapu 2017)

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Table 6: Industry Growth and Court Efficiency (Main Results)

	(1) growth in value added	(2) growth in fixed capital	(3) growth in employment	(4) growth in num units
<i>Panel A:</i> <i>Main Terms Only</i>				
court efficiency	0.014** (0.006)	0.011** (0.005)	0.017*** (0.004)	0.011*** (0.002)
contract intensity	0.003 (0.005)	-0.002 (0.006)	0.001 (0.003)	-0.004** (0.002)
court efficiency X contract intensity	0.015*** (0.005)	0.013** (0.005)	0.009*** (0.003)	0.005** (0.002)
<i>Panel B:</i> <i>State and Industry FEs</i>				
court efficiency X contract intensity	0.015*** (0.005)	0.014*** (0.005)	0.009*** (0.003)	0.006*** (0.002)
Observations	1709	1939	1940	1947

POSITIVE CORRELATION BETWEEN COURT EFFICIENCY AND FIRM GROWTH

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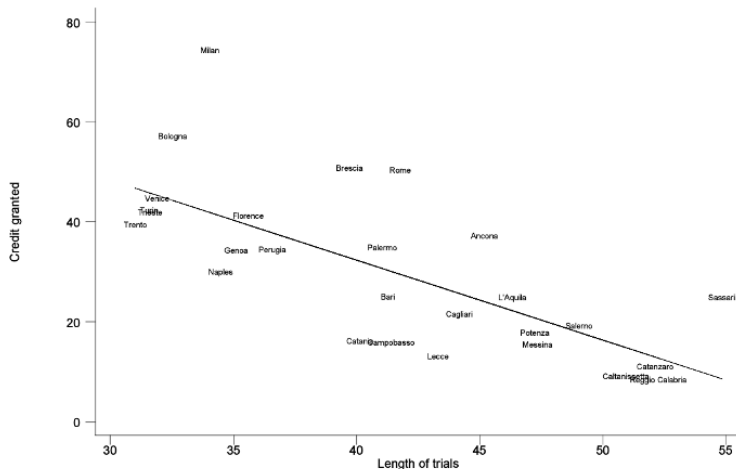
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Italy: Impact of Trial Duration (Jappeli et al., 2005)

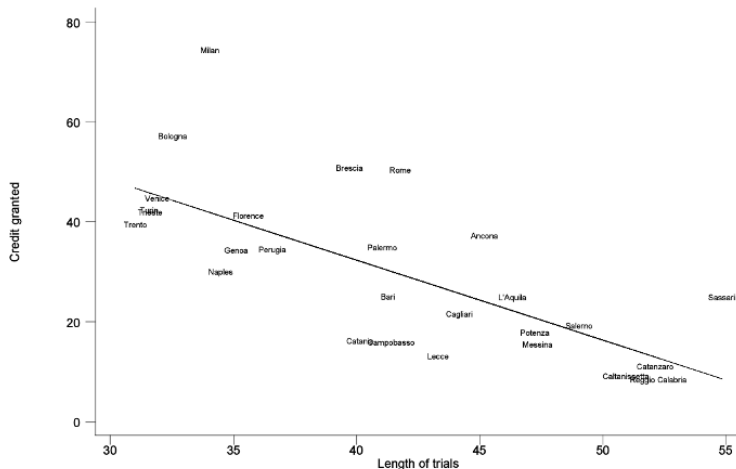
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LONGER TRIAL DURATION ASSOCIATED WITH LESS CREDIT AVAILABILITY

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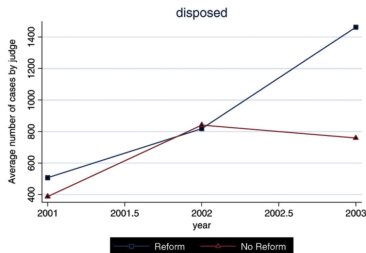
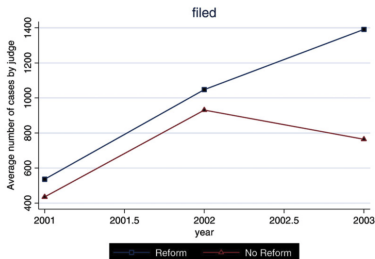
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Pakistan: Impact of Judicial Training (Chemin, 2009)

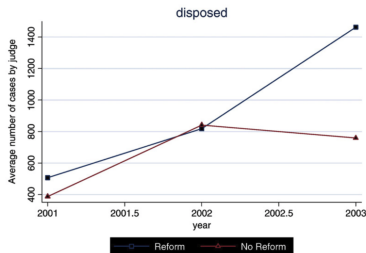
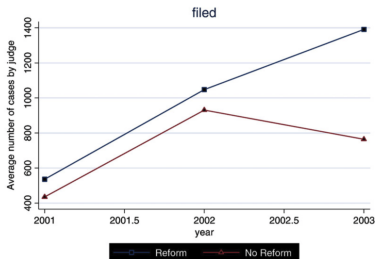
CASE-FLOW MANAGEMENT TECHNIQUES INCREASED NUMBER OF CASES FILED AND DISPOSED



Entry rate of new firms increased due to the reform $\sim 0.5\%$ GDP

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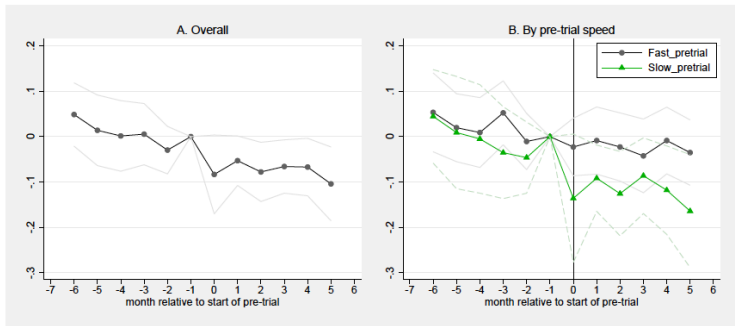


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Senegal: Impact of Procedural Reform (P122225)

REFORM HALVED THE NEGATIVE FINANCIAL IMPACT OF CASE DELAY

Figure 1: Case parties' log revenues around the start of the pre-trial



Note: For all x-axes, month is indexed in relation to the case-level pre-trial start month (zero-centered)

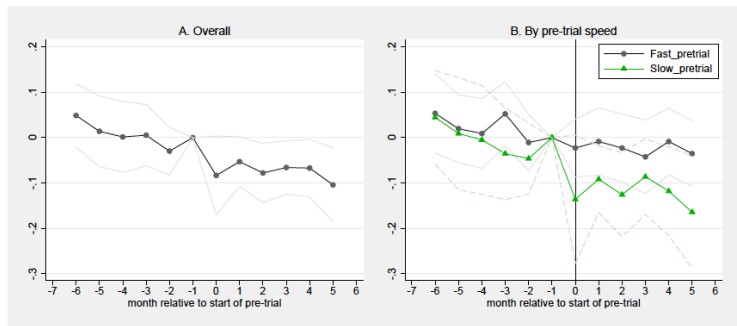
Revenue is 8% lower for cases with pre-trial duration ≥ 4 months

INCREASED FIRM SATISFACTION

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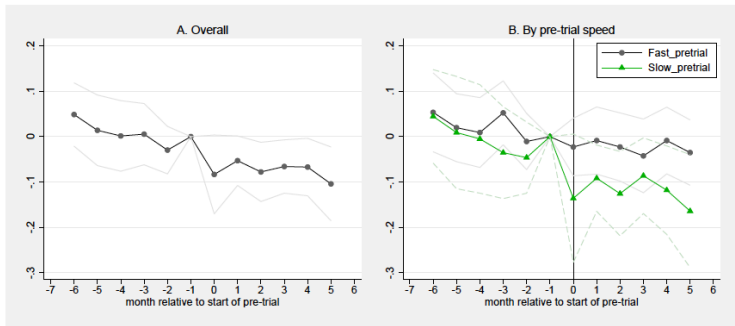
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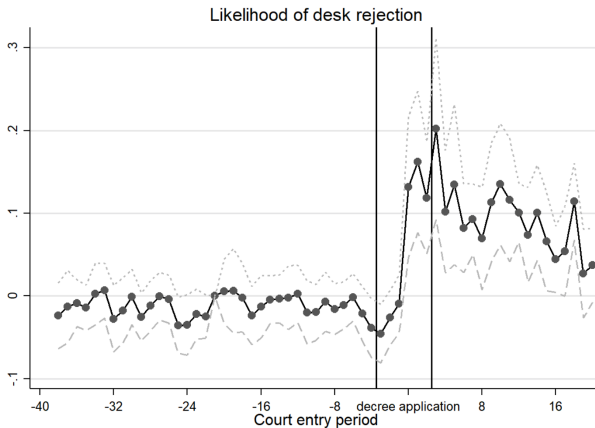


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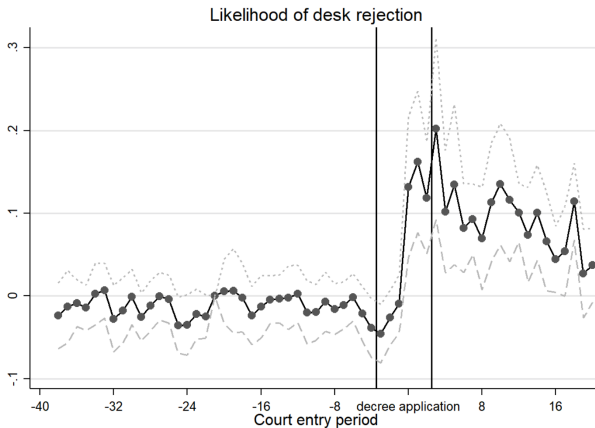
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Senegal: Impact of Procedural Reform (Kondylis and Stein Restat R&R)



=> Staggered roll-out of judicial reform giving judges the duty and powers to conclude pre-trial proceedings in 4 months

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Firm Assets Associated with Judicial Speed

.. and more associated, in slower jurisdictions

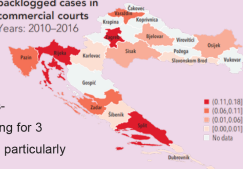
The Impact of Judicial Speed on Firm Outcomes in Croatia

In 2010, the Ministry of Justice in Croatia launched an Integrated Case Management System (ICMS) to electronically record and track the progress of all court cases in Croatia. The DE JURE program is leveraging the power of this rich, case-level database to evaluate the impact that the speed of justice can have on the financial outcomes of firms, using random allocation of cases to judges to produce a randomized controlled trial of our interventions.

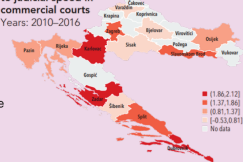
The first map illustrates that despite the introduction of a more efficient case management system, in half of Croatia's commercial courts, backlogged cases (i.e. cases that have been pending for 3 years or longer) continue to constitute up to 18% of the overall stock of cases. The problem is particularly worse in the counties with the highest caseloads – Zagreb, Rijeka and Split.

If firm resources remain tied up in prolonged court proceedings, it can begin to impede the operations of a firm, and the extent of this effect can be regionally heterogeneous. The following map shows the impact of judge speed – measured by the proportion of cases the assigned judge resolved within 1 year – on total firm assets. It suggests that gains are to be had even in areas with lower backlogs because firm assets are highly responsive to increases in judge speed in counties like Karlovac and Dubrovnik that lie in the bottom quartile in terms of backlog.

Proportion of backlogged cases in commercial courts
Years: 2010–2016



Elasticity of firm assets to judicial speed in commercial courts
Years: 2010–2016



Justice Sector Support Project (P104749)

IS IT CAUSAL?

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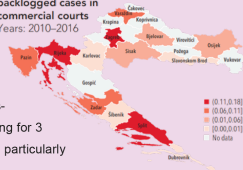
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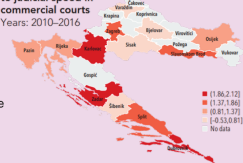
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IS IT CAUSAL?

Empirical Challenges

Medicine, prior to clinical trials

Theories about the effects, but no causal evidence (a century ago)

Randomizing judicial decisions

Violates our notion of justice (equal treatment before the law)

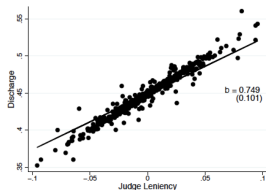
Randomizing judicial assignment

Generates retrospective “clinical trial” (Kling AER 2006; many since “credibility revolution” in economics)

Debt Relief and Debtor Outcomes (AER 2014)

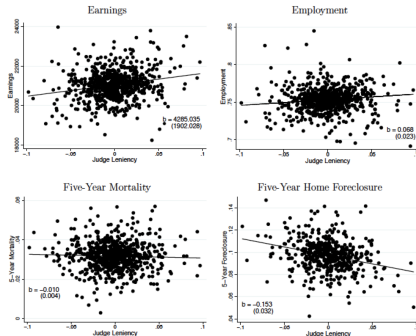
CANCELLING DEBT CAUSES $\uparrow$ EARNINGS, $\uparrow$ EMPLOYMENT,
 $\downarrow$ MORTALITY, $\downarrow$ FORECLOSURE

Figure 1
Chapter 13 Judge Leniency and Chapter 13 Bankruptcy Protection



Notes: This figure plots Chapter 13 discharge vs. our leave-one-out measure of judge leniency. The sample consists of all first-time Chapter 13 filers between 1992 and 2005 in the 42 offices that randomly assign filings to judges. Judge leniency is the leave-one-out mean rate of granting Chapter 13 bankruptcy protection for the assigned judge minus the leave-one-out mean rate of granting bankruptcy protection for the court in the same filing year. To construct the binned scatter plot, we first regress an indicator for discharge on office by month-of-filing fixed effects and calculate residuals. We then take the mean residual in each judge by year bin, adding the mean discharge rate to each residual to aid in the interpretation of the plot. The solid line shows the best linear fit estimated on the underlying micro data estimated using OLS. The coefficients show the estimated slope of the best-fit line including office by month-of-filing fixed effects, with standard errors clustered at the office level reported in parentheses.

Figure 3
Chapter 13 Judge Leniency and Labor Supply, Mortality, and Home Foreclosure

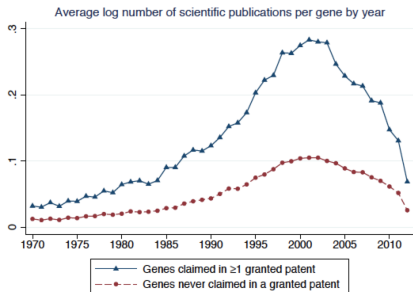


Notes: These figures plot earnings, employment, five-year mortality, and five-year foreclosure vs. our leave-one-out measure of judge leniency. The earnings and mortality sample includes all first-time filings between 1992 and 2005 in the 42 offices that randomly assign cases to judges. The foreclosure sample includes the subset of those filings originating in county by year bins with foreclosure data coverage. Judge leniency is the leave-one-out mean rate of granting Chapter 13 bankruptcy protection for the assigned judge minus the leave-one-out mean rate of granting bankruptcy protection for the court in the same filing year. To construct the binned scatter plot, we first regress each outcome on office by month-of-filing fixed effects and calculate residuals. We then take the mean residual in each judge by year bin, adding the mean discharge rate to each residual to aid in the interpretation of the plot. The solid line shows the best linear fit estimated on the underlying micro data estimated using OLS. The coefficients show the estimated slope of the best-fit line including office by month-of-filing fixed effects, with standard errors clustered at the office level reported in parentheses. Earnings are winsorized at the top and bottom one percent. Employment is an indicator for non-zero wage earnings on the W-2. All monetary values are expressed in real 2000 dollars. Mortality is an indicator for being deceased in or before the indicated year using information from the Death Master File. Foreclosure is an indicator for a filer's home receiving a notice of default, receiving a notice of transfer or sale, or being transferred to a REO or a guarantor in or before the indicated year.

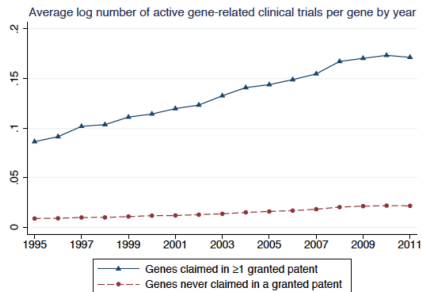
Patents and Innovation (AER 2019)

Patented genes are more valuable, but does patenting make them valuable?

Figure 1: Follow-on Innovation on Patented and Non-Patented Human Genes



(a) Gene-Level Scientific Publications

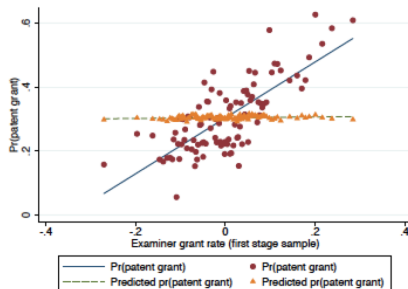


(b) Gene-Level Clinical Trials

Notes: This figure plots trends in follow-on innovation by year separately for genes that ever receive a patent and for genes that never receive a patent. The figure is constructed from gene-level data. Panel (a) uses gene-level scientific publications as a measure of follow-on innovation, and plots the average log number of scientific publications by year in each year from 1970 to 2012. Panel (b) uses gene-level clinical trials as a measure of follow-on innovation, and plots the average log number of clinical trials by year in each year from 1995 to 2011.

Patents examiners have strong habits

Figure 3: Probability of Patent Grant by Examiner Leniency

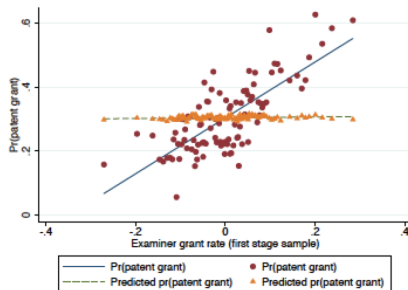


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WHAT IS CAUSAL EFFECT OF PATENT PROTECTION ON FOLLOW-ON INNOVATION?

Patents examiners have strong habits

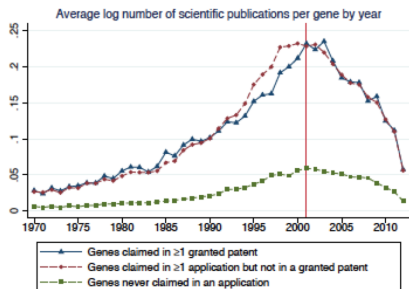
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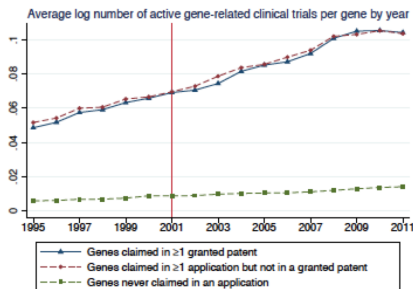
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WHAT IS CAUSAL EFFECT OF PATENT PROTECTION ON FOLLOW-ON INNOVATION?

Follow-on innovation similar for accepted & rejected patents



(b) Gene-Level Scientific Publications

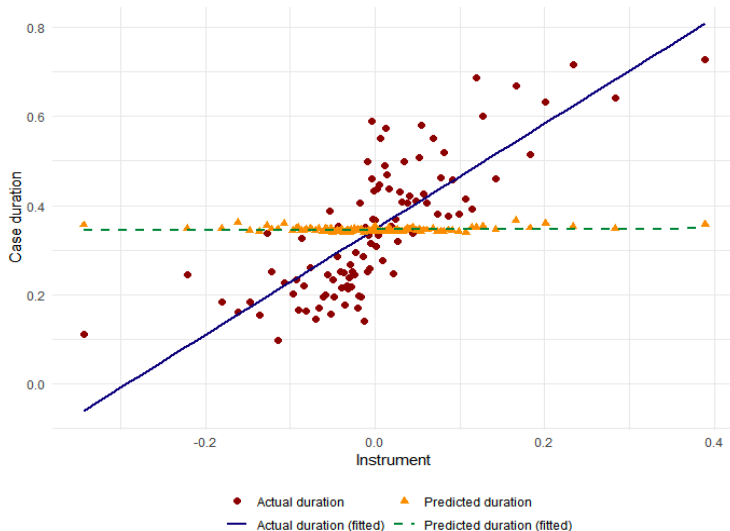


(c) Gene-Level Clinical Trials

Notes: This figure plots trends in patenting and follow-on innovation by year separately for three groups of genes: genes claimed in at least one granted patent; genes claimed in at least one patent application but never in a granted patent; and (in Panels (b) and (c)) genes never claimed in a patent application. The figure is constructed from gene-level data. Panel (a) documents the share of genes receiving a patent grant by year; by construction, this is zero for the circle-denoted red dashed line in all years and reaches one for the triangle-denoted blue line in 2010; the intermediate years simply illustrate the time path of patent grants between 2001 and 2010 for the triangle-denoted blue line. Panel (b) uses gene-level scientific publications as a measure of follow-on innovation and plots the average log number of scientific publications by year in each year from 1970 to 2012. Panel (c) uses gene-level clinical trials as a measure of follow-on innovation and plots the average log number of clinical trials by year in each year from 1995 to 2011. The vertical line in the calendar year 2001 in Panels (b) and (c) denotes that, because this figure focuses on patents that were filed in or after November 2000, all years prior to 2001 can be considered a pre-period and used to estimate the selection of genes into patenting based on pre-patent filing measures of scientific research (publications) and commercialization (clinical trials).

What is the Impact of Speed of Justice?

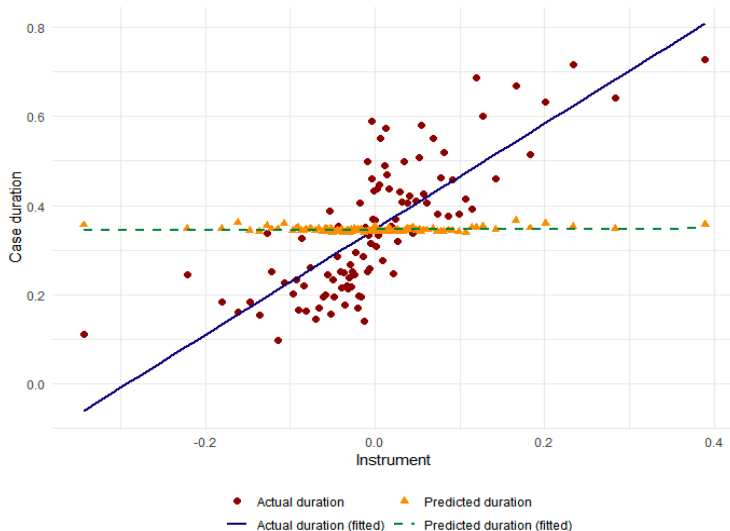
Croatia cases are randomly assigned



WHAT IS THE CAUSAL EFFECT OF FASTER CASE RESOLUTION?

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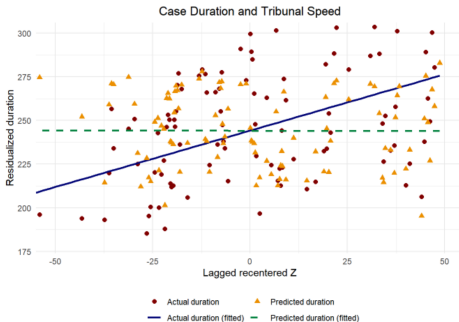
Preliminary evidence on Shortened bankruptcy proceedings

■ Second stage: Being randomly allocated to a fast judge in 2015 significantly causes:

1. current assets (2016) to **increase** by about 298%
2. cash and cash equivalent balance (2016) to **decrease** by about 280%
3. shareholder funds to **increase** by about 1,333%
3. loans to **decrease** by about 269%
4. value of debtors to **decrease** by about 164%

What is the Impact of Speed of Justice?

Chile cases are also randomly assigned to tribunals



Testing empirically the identification assumptions:

- **Tribunal assignment matters for case duration:** there is a steep positive correlation between tribunal speed and case duration (blue line)
- **Tribunal assignment is random:** there is no correlation between duration predicted by baseline case characteristics and tribunal speed (green dotted line)

Impact of Speed of Justice

Preliminary evidence on Summary cases (smaller firms)

	<u>Log Sales</u>		
	t-1	t0	t+1
	(1)	(2)	(3)
Tribunal Speed	-0.008	0.049	0.099***
	(0.025)	(0.034)	(0.034)
1st Stage F-stat	41	41	41
Y mean (level)	9.401	9.053	8.735

We are exploring similar research design anytime infrastructure permits

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Quality of Rule of Law (anti-corruption, governance)

- Disclosure laws are associated with less corruption
 - ▶ Djankov et al., 2010
- Auditing reduces corruption
 - ▶ Faccio 2006; Ferraz and Finan 2008; Bobonis et al. 2016
- Quality promotes trust and pro-investment attitudes
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DATA REVOLUTION & TECHNOLOGY FACILITATES ACCOUNTABILITY

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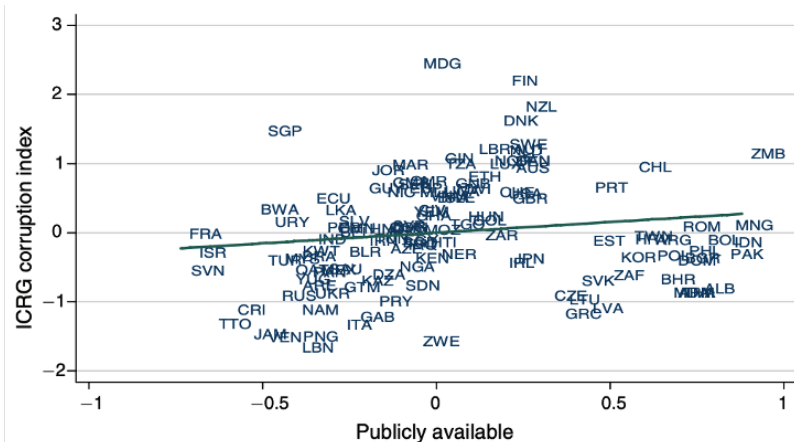
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DATA REVOLUTION & TECHNOLOGY FACILITATES ACCOUNTABILITY

Disclosure laws associated with lower corruption (Djankov et al., 2010)

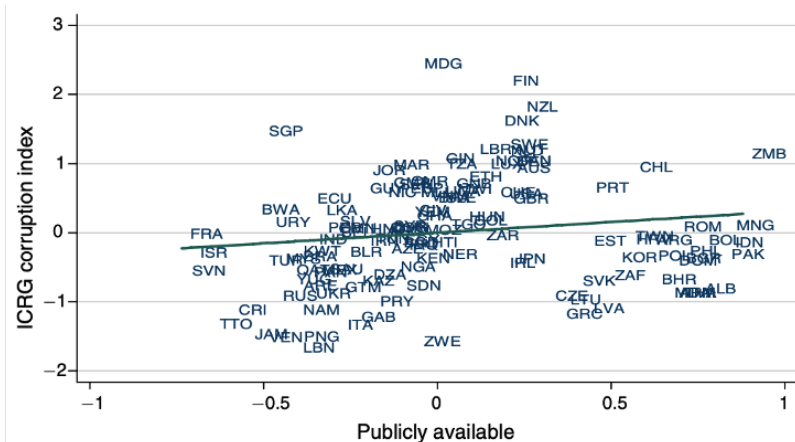
MORE BUSINESS AND FINANCIAL DISCLOSURES OF MEMBERS OF PARLIAMENT
ASSOCIATED WITH GOVERNMENT QUALITY



WHAT ABOUT THE CAUSAL EVIDENCE?

Disclosure laws associated with lower corruption (Djankov et al., 2010)

MORE BUSINESS AND FINANCIAL DISCLOSURES OF MEMBERS OF PARLIAMENT
ASSOCIATED WITH GOVERNMENT QUALITY



WHAT ABOUT THE CAUSAL EVIDENCE?

Brazil: Corrupt mayors ↓re-elected after audits (Ferraz et al. 2008)

RANDOMIZED AUDITS OF MUNICIPAL FINANCES HAD LARGER EFFECTS WHEN CONDUCTED BEFORE ELECTIONS

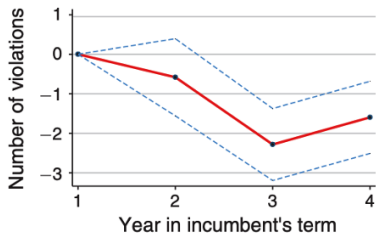
TABLE II
THE AVERAGE EFFECTS OF THE RELEASE OF THE AUDITS ON ELECTORAL OUTCOMES

	All incumbent mayors		Only mayors that ran for reelection				
	Pr(reelection)		Pr(reelection)	Vote share	Win margin	Change in vote share	Change in win margin
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Preelection audit (1/0)	-0.036 [0.053]	-0.036 [0.052]	-0.059 [0.065]	-0.055 [0.072]	-0.020 [0.027]	-0.032 [0.018]+	-0.028 [0.027]
Observations	373	373	263	263	263	263	263
R^2	0.05	0.17	0.22	0.16	0.22	0.39	0.31
State fixed effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Municipal characteristics	No	Yes	Yes	Yes	Yes	Yes	Yes
Mayoral characteristics	No	Yes	Yes	Yes	Yes	Yes	Yes

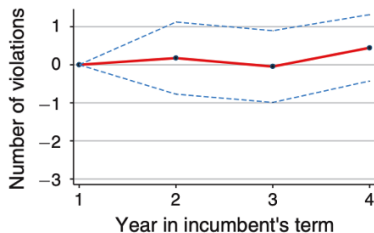
Puerto Rico: Violations decline after disclosure (Bobonis et al. 2016)

OF CORRUPT MAYORS

Panel A. Corrupt findings



Panel B. Noncorrupt findings



—●— Number of corrupt violations
- - - 95% CI

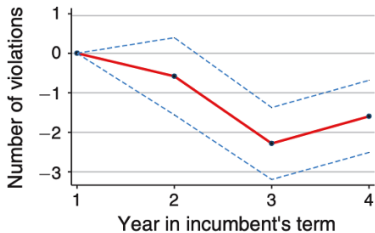
THESE ARE NEGATIVE DISCLOSURES

WHAT ABOUT POSITIVE DISCLOSURES?

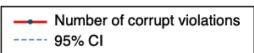
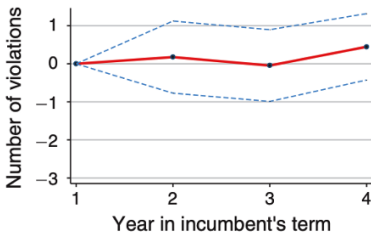
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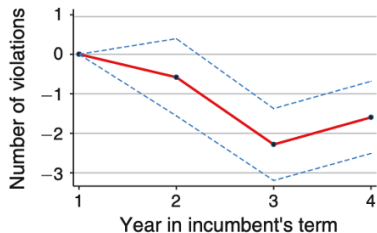
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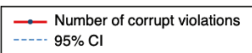
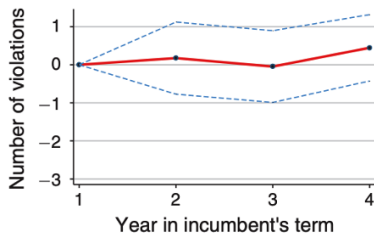
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OF CORRUPT MAYORS

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THESE ARE NEGATIVE DISCLOSURES

WHAT ABOUT POSITIVE DISCLOSURES?

Pakistan: Disclosure of governance ↑trust (Acemoglu et al. 2018)

RANDOMLY ASSIGNED INFORMATION ON FASTER COURTS INCREASED EXPECTED USAGE AND TRUST IN STATE COURTS

TABLE 3
EFFECTS OF STATE POSITIVE TREATMENT IN ANONYMOUS GAMES

	Expected Usage (1)	Allocation in Fund Dictator Game (2)
A. Direct effects (on state courts):		
Posttreatment	1.63 (.10)	34.46 (2.84)
Constant	3.86 (.07)	74.30 (2.01)
Observations (respondents)	498 (249)	498 (249)
B. Indirect effects (on panchayats):		
Posttreatment	-.66 (.08)	-21.29 (3.64)
Constant	6.47 (.06)	103.21 (2.57)
Observations (respondents)	498 (249)	498 (249)

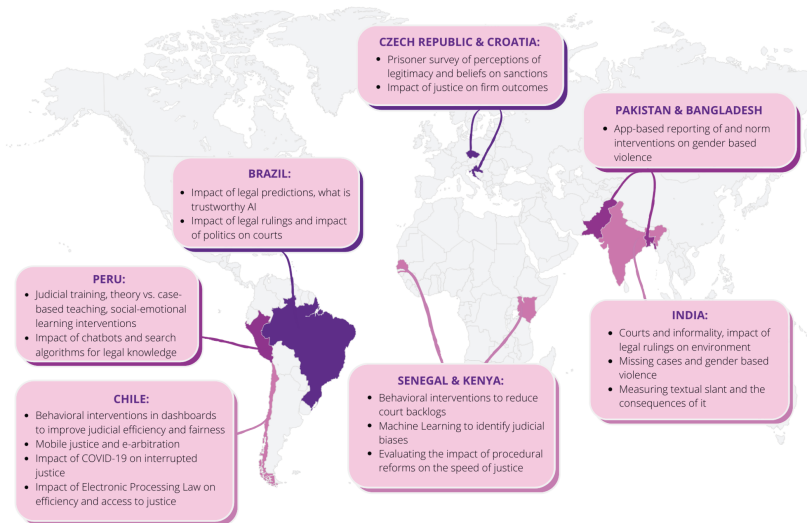
Argentina: Property rights $\uparrow$ pro-market attitudes (Di Tella et al. 2007)

RANDOMLY ALLOCATED LAND TITLES INCREASED TRUST AND PRO-MARKET ATTITUDES

TABLE IV
BELIEFS AND PROPERTY RIGHTS IN THE SOLANO SETTLEMENT

	(1a)	(2a)	(3a)	(4a)	(5a)
	Success- Alone	Money- Important	Effort- Better	Trust- Others	Market Beliefs
Property right	0.144** (0.064)	0.202*** (0.063)	0.072 (0.056)	0.108* (0.063)	0.527*** (0.131)
Controls	No	No	No	No	No
Observations	312	312	313	313	312
	(1b)	(2b)	(3b)	(4b)	(5b)
Property right	0.169** (0.066)	0.188*** (0.068)	0.022 (0.056)	0.139** (0.065)	0.520*** (0.133)
Controls	Yes	Yes	Yes	Yes	Yes
Observations	312	312	313	313	312

Country Specific Examples of Our Work



We run law and development RCTs through relationships with government partners who link legal cases to downstream effects for individuals and firms.

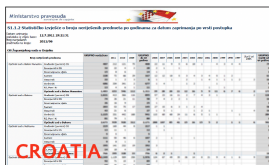
Data Ecosystems



CROATIA

- Recent innovations have opened up new opportunities for delivery of justice
 - Increasingly digitized large-scale datasets
 - ML applications to produce interpretable data from unstructured text
 - Predictive models of decision-making to better understand biases and address them with digital interfaces

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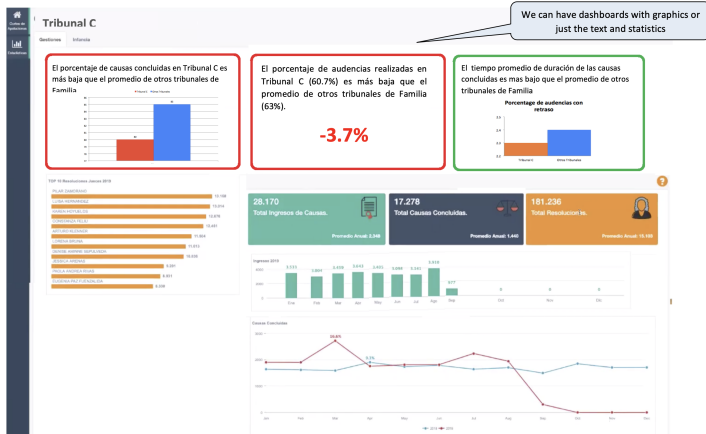
Table with multiple columns and rows of data, likely representing a dataset for Croatia.

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Personalized Interventions

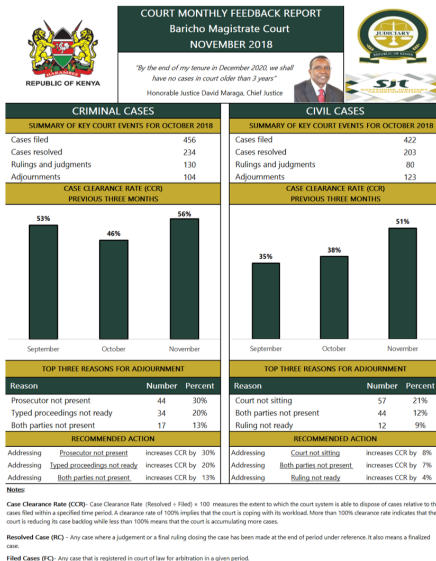
This kind of data can be used to personalize interfaces for judges.

Another possibility for an algorithm is to choose the **three worst metrics** as oppose to just one.



Recommending Actions

Lending Agreement with Kenya: Judicial Performance Improvement (P105269)



“Endless adjournments of cases on frivolous grounds” are a major cause of case backlog (Chief Justice Maraga 2019)

- Nation-wide experiment using the first digitized daily court records
 - ▶ Developed an algorithm to identify the greatest source of court delays
 - ▶ T1: provide actionable information
 - ▶ T2: + accountability (one-pager also sent to Court User Committees)
 - ▶ Control: status quo (no information), RCT across all 124 court stations

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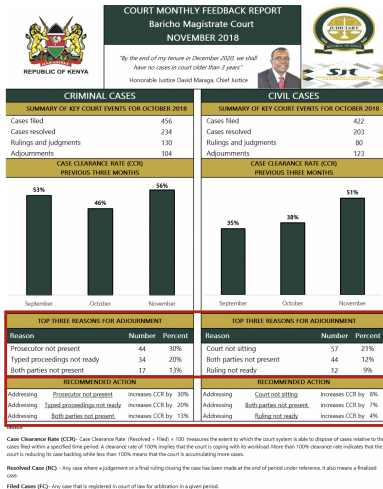
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Data-Driven Recommendations

Efficiency in Kenya:
Can low cost, 'actionable'
information improve performance?

TOP THREE REASONS FOR ADJOURNMENT		
Reason	Number	Percent
Prosecutor not present	44	30%
Typed proceedings not ready	34	20%
Both parties not present	17	13%

RECOMMENDED ACTION		
Addressing	<u>Prosecutor not present</u>	increases CCR by 30%
Addressing	<u>Typed proceedings not ready</u>	increases CCR by 20%
Addressing	<u>Both parties not present</u>	increases CCR by 13%



Analyze and present correlates of delay

Accountability reduced adjournments

.. especially initiated by external parties (potentially frivolous)

	Adjournment	External Adjournment	Internal Adjournment
OnePager * February 2019	-0.014 (0.012)	-0.017 (0.011)	0.000065 (0.0043)
OnePager CUC * February 2019	-0.031** (0.015)	-0.030** (0.013)	-0.0042 (0.0043)
OnePager * March 2019	0.0016 (0.013)	0.0028 (0.011)	-0.00028 (0.0041)
OnePager CUC * March 2019	-0.017 (0.015)	-0.022* (0.011)	0.0014 (0.0040)
OnePager * April 2019	-0.012 (0.014)	-0.0044 (0.012)	-0.0076 (0.0063)
OnePager CUC * April 2019	-0.025 (0.016)	-0.023* (0.012)	-0.0070 (0.0063)
OnePager * May 2019	0.012 (0.017)	0.018 (0.015)	-0.0020 (0.0053)
OnePager CUC * May 2019	-0.013 (0.017)	-0.012 (0.015)	-0.0026 (0.0049)
OnePager * After June 2019	0.0058 (0.014)	0.0064 (0.012)	0.00013 (0.0038)
OnePager CUC * After June 2019	-0.0070 (0.016)	-0.015 (0.013)	-0.00027 (0.0043)
OnePager * Month Before	-0.0089 (0.013)	-0.0030 (0.0091)	-0.0069 (0.0053)
OnePager CUC * Month Before	-0.0074 (0.013)	-0.010 (0.011)	-0.0084 (0.0053)
Observations	6162668	6399868	6399868

After covid, should become monthly

- Effect size of 3% are large relative to baseline of 18%

ADVICE IS TOP-DOWN BASED ON DATA ALREADY COLLECTED

CAN WE HELP COUNTRIES GENERATE THEIR OWN BETTER POLICIES?

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Self Reflection

Social-Emotional Learning Exercises - Advice Giving & Grading

localhost:8000/p/c7hms2sh/- x +

localhost:8000/p/c7hms2sh/self/Review1of2/12/ Incognito

Como recordará, usted respondió a la siguiente pregunta en el ejercicio de autoreflexión: "Dedique entre 15 y 30 minutos a reflexionar y escribir sobre un momento en que no cumplió las expectativas como juez o fiscal.". Abajo encontrará las respuestas a la misma pregunta de otros discentes. Cuando termine de leer dichas respuestas, por favor elija la que prefiera pulsando "PREFIERO ESTA" y luego pulse "Siguiente".

Las veces en que no cumplí como magistrado fueron las oportunidades en las que, por ejemplo, no cumplí con resolver un caso a tiempo, dentro del plazo previsto. Precisamente, la mora era y es un problema que, también, me alcanza. En ese sentido, muchas veces, los magistrados "justificamos" la demora en resolver los casos pendientes, basados en el exceso de carga laboral, sin considerar que al otro lado hay personas pendientes de respuesta y que la demora les causa no solo un perjuicio económico sino también emocional, lo que constituye un mero pretexto que busca justificar nuestra falta de capacidad de gestión y de acción en la resolución de los casos; o, de justificar que perdemos muchas veces nuestro valioso tiempo en cosas secundarias (dentro del despacho) en lugar de enfrascarnos en resolver cada uno de los casos puestos a nuestro conocimiento; o, el tiempo que perdemos "dándole vueltas" a un caso, buscando escribir "bonito" sobre abundando en citas cuando lo realmente importante es resolverlos de una buena vez; y, sobretodo, haciéndolo de manera clara y sencilla, con una redacción comprensible. Así pues, creemos ciegamente de que cuanto más complicada sea una resolución, ésta se encontrará mejor hecha; sin embargo, en ese tonto afán hemos terminado olvidándonos de los justiciables y de lo que es importante para ellos.

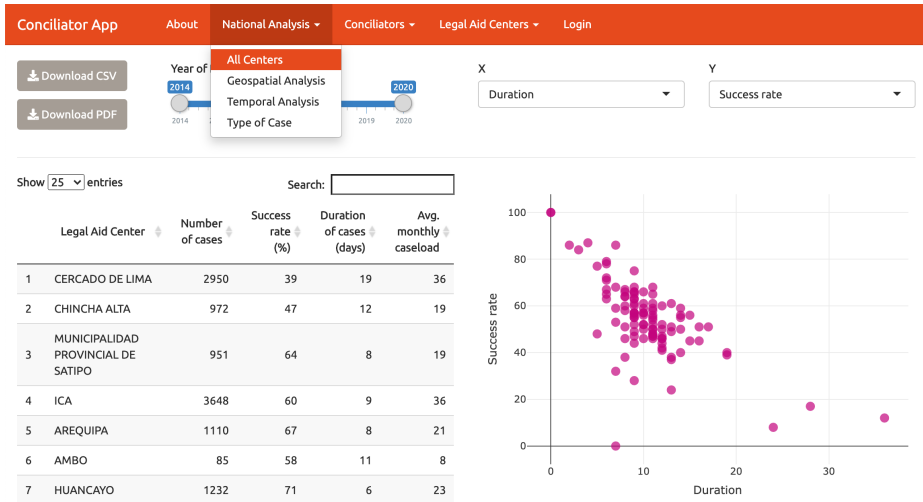
PREFIERO ESTA

Al sentenciar, emitimos pronunciamientos dirigidos a las partes procesales, las cuales muchas veces son ciudadanos comunes sin conocimientos de leyes; por ello deberíamos buscar que nuestras resoluciones no solo sean emitidas de manera celer, sino que además contengan una redacción simple que sea comprendida por estas; sin embargo, considerando que los magistrados nos encontramos bajo el ojo vigilante y formalista de la Junta Nacional de Justicia (antes CNM); muchas veces he sentido que nos vemos obligados a dejar de lado esa simplicidad y practicidad como fin principal en nuestros pronunciamientos, para pasar elaborar resoluciones llenas de considerandos con citas bibliográficas que satisfagan las exigencias del ente calificador de nuestras decisiones (CNM, hoy JN.J). La experiencia que tenemos los magistrados, es que son mejor valorados estos pronunciamientos muchas veces saturados de citas y referencias bibliográficas, que aquellos que de manera concreta desarrollan el aspecto jurídico y buscan que las partes entiendan el fundamento de nuestra decisión. Considero que esto, es una de las causales por las que la sociedad cuestiona y no encuentra conformidad en muchas de las decisiones emitidas por nosotros los magistrados, pues encuentran en nuestras decisiones muchas veces términos que son ajenos a su entender. Y esta es una práctica que, ha sido fomentada en la escrituralidad y por nuestra propia responsabilidad, no es erradicada.

PREFIERO ESTA

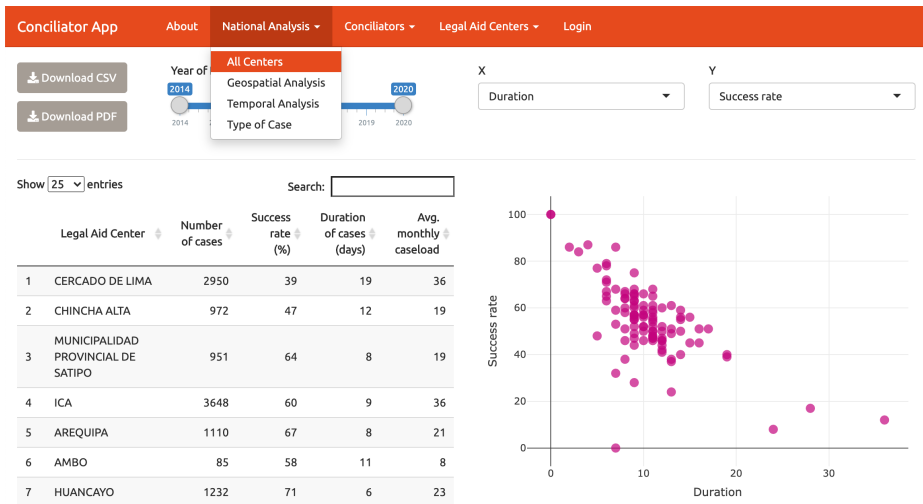
Siguiente

Recommending Actions to Each Other



OR, AS MANAGEMENT TOOL, OBSERVING REGRESSIONS THAT THEY RUN

Recommending Actions to Each Other



OR, AS MANAGEMENT TOOL, OBSERVING REGRESSIONS THAT THEY RUN

Recommending Mediators

Mediation App

National ▾

Find a Mediator

Courts

Court:

MILIMANI ▾

Case Type:

CIVIL MATTER ▴

Case Type

CIVIL MATTER

CONSTITUTIONAL MATTERS / HUMAN RIGHTS

CUSTODY & MAINTENANCE (CHILDREN)

DIVORCE & SEPARATION

EMPLOYMENT AND LABOR CASE

ENVIRONMENT & LAND MATTER

Mediator

Agreements (%)

Number of Cases Handled

Avg. Case Duration (days)

Current Caseload (all types)

email

Peter Mbugua Kiriu 50 4 69 1 pmkiru@gmail.com

Powell Maimba 0 3 0 3 powell.maimba@gmail.com

Hon. Morris Dairo 0 3 50 3 godepewa@gmail.com

Aasif Yusuf Karim 100 2 94 0 karim@aristocratskenya.org

Lucia Quadros 100 2 34 1 quadros.lucia@gmail.com

Pamela Auma Onditi 100 2 85 1 onditi@gmail.com

Samuel Muthi Mwewa 100 2 14 2 unclesam714@yahoo.com

Charity Kaari Kinsampla 100 2 22 2 charitykinsampla@gmail.com

Everhyme Akinyi Owusu 100 2 96 2 ewowoso@gmail.com

Raphael Mwari 100 2 38 10 raphaelmwari@gmail.com

Tabitha Wangari Wairagu 50 2 34 0 twanwau@yahoo.com

Geoffrey K Njenga 50 2 80 0 gnjenga2013@gmail.com

Jedida N. Muriuki 50 2 164 0 jedidamuriuki@gmail.com

Dr. Samson Muchelule 50 2 183 0 smuchelule@gmail.com

Goofrey Njenga 50 2 82 1 gnjenga2013@gmail.com

Ambrose Jobiwott Ngemi Bolt 0 2 50 0 boltros123@gmail.com

Jane Njeri Onyango 0 2 79 0 info@jeriomyangadvocates.com

Maita Migwi 0 2 190 0 wuluhumeditation@gmail.com

Fackson Wainaina Kagwe 0 2 51 1 facksonkagwe@gmail.com

Lucy Wangari Muhli 0 2 55 1 muhiliucy4@gmail.com

Nemwel Mogore Atemba 0 2 57 1 nemwel@yahoo.com

Sabina Kavutha Mutisya 0 2 74 1 smtisya@cuea.edu/mtutisya@hotmail.com

Jemima Wanja Keli 0 2 75 1 jemimahkeli@gmail.com

Tabitha K. Rutere 0 2 120 1 mapesurlife2015@gmail.com

Njoki Kahiga 0 2 128 1 kinjokahiga@yahoo.com

Arthur Kanye Igeria 0 2 135 1 arthur/igeria@attorneysafrica.com

Christine Mwika Kipsang 0 2 0 2 cmkadvocates@econet.co.ke

Rosemin Bhanji 0 2 0 2 roseminb26@gmail.com

Wilfred A. Mutubwa 0 2 0 2 willy@tubulah.co.ke

Edwin Ayunga Apacha 0 2 52 2 apachaedwin@gmail.com

Stephen Biko Adera 0 2 0 3 info@aderalaw.co.ke

Andrew Wanuhii 100 1 0 0 wanuhii@outlook.com

Chacha Lucas Matiko 100 1 20 0 chachalucis@gmail.com

Agnes Mueni Kioko 100 1 43 0 amuenikioko@gmail.com

Dr. Margaret Nthunya Ngunu 100 1 43 0 margaretngunu@gmail.com

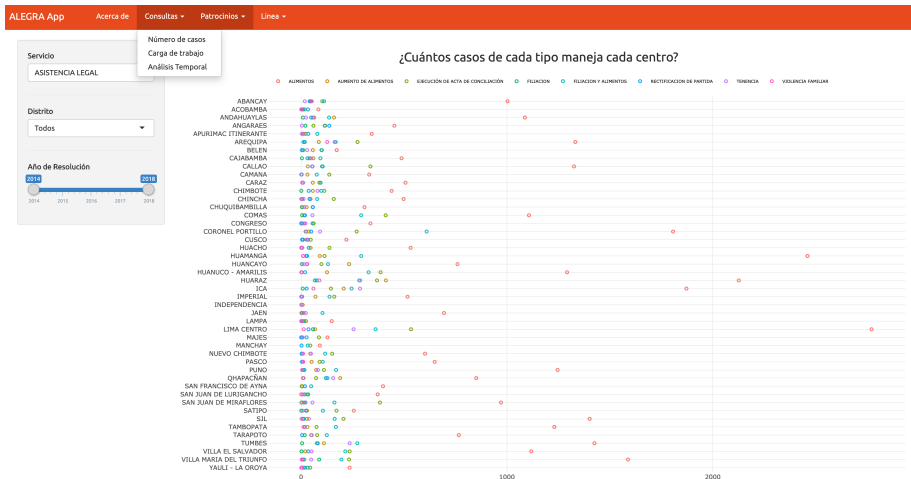
Eunice Njeri 100 1 48 0 njeri@njeriachenadvocates.com

Jackson Macharia Githu 100 1 48 0 jngadvocates@gmail.com

Raphael Shitaka Mwari 100 1 48 0 raphaelmwari@gmail.com

Kennedy Kitonga 100 1 49 0 kenskitonga@gmail.com

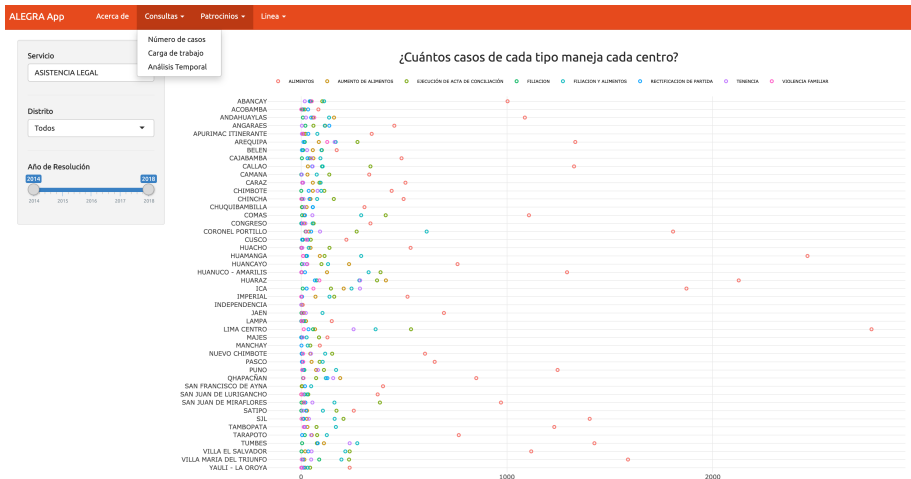
API to create own dashboards



Victim's defense, public defense, psychological support

Note: this comes in Non-harmonized Excel files, we do capacity-building as well as open-source tools

API to create own dashboards



Victim's defense, public defense, psychological support

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Incentivize Case Logs

id=2.1107761.1047168567.1599579496-286649690.1592335228

Log Login

0 5 10

0 1 2 3 4 5 6 7 8 9 10

Enter the third case type

TODAS ▼

Describe the strategy you most used or found most useful (50 words or fewer).

How effective was this strategy toward reaching an agreement? (10 is the most effective)

0 5 10

0 1 2 3 4 5 6 7 8 9 10

Submit

Record and present correlates of improvement

E-JUSTICE MEETS SOCIAL DISTANCING NEEDS

Incentivize Case Logs

id=2.1107761.1047168567.1599579496-286649690.1592335228

Log Login

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0 1 2 3 4 5 6 7 8 9 10

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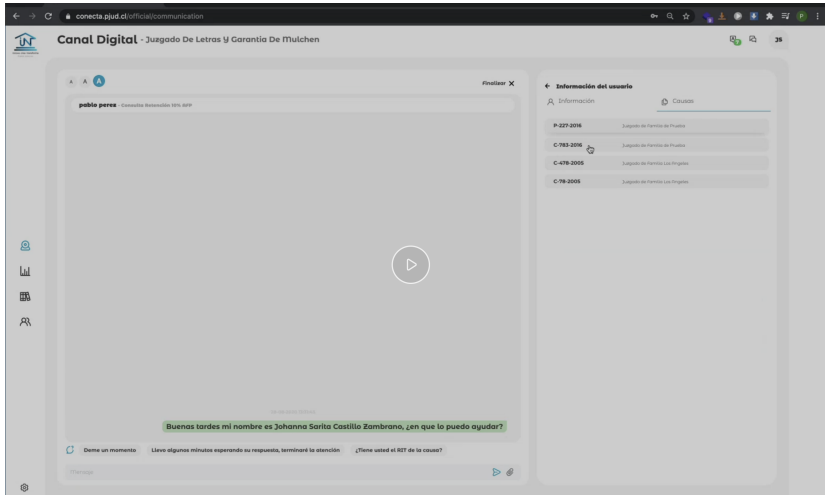
0 1 2 3 4 5 6 7 8 9 10

Submit

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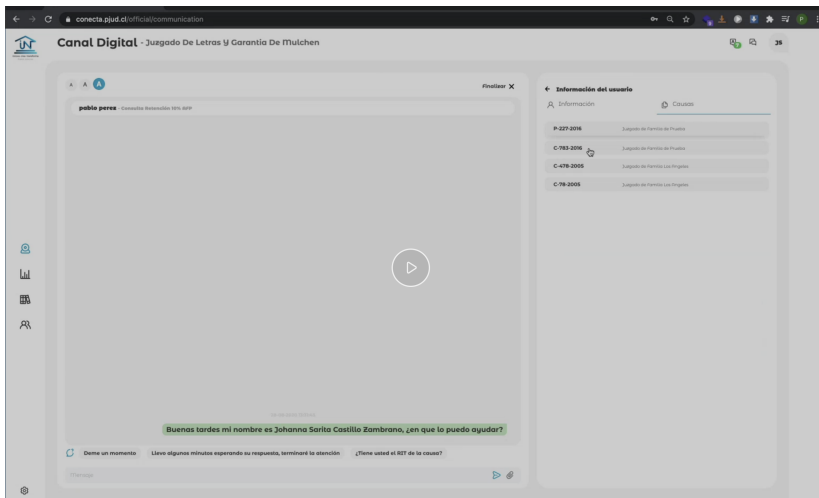
E-Justice during covid: Whatsapp



for Q&A with courts

video and audio also enabled

E-Justice during covid: Whatsapp



for Q&A with courts
video and audio also enabled

.. Receivers are given text to copy and paste (chatbots/humans?)

Canal Digital - Juzgado De Letras Y Garantía De Mulchen

Buscar personas • Consulta Detallada 10% RFP

Buenas tardes mi nombre es Johanna Sarita Castillo Zambrano, ¿en que lo puedo ayudar?

Hola

Cómo están

Documento (.docx)

Deme un momento • Llevo algunos minutos esperando su respuesta, terminaré la atención

Message

Causa C-478-2005

Doc.	Núm.	Etapas	Trámite	Referencia	Fecha Trámite
	0	Terminada	Resolución	Archivar	03-12-2007
	0	Terminada	Resolución	Como se pide	27-10-2007
		Terminada	Escrito	Sin referencia	24-10-2007
	0	Sentencia	Resolución	Oficio Registro Civil	06-09-2007
	0	Sentencia	Actuación	Ejecutaria	06-09-2007
		Sentencia	Escrito	Sin referencia	31-07-2007
	0	Sentencia	Resolución	Reprobación Sentencia Corte	31-07-2007
	0	Sentencia	Resolución	Oficio Consulta Corte	14-05-2007
	0	Sentencia	Actuación	Resumen	12-05-2007
	0	Sentencia	Actuación	Notificación 04/05/07	07-05-2007
	0	Sentencia	Actuación	cumplase 04/05/07	07-05-2007
	0	Sentencia	Actuación	Resumen	01-03-2007
	0	Sentencia	Resolución	Consulta Corte	22-02-2007
	0	Sentencia	Resolución	Oficio Resumen	22-02-2007
	0	Rudencia de Juicio	Sentencia	Dicción de sentencia	01-02-2007
	0	Rudencia de Juicio	Resolución	Como se pide	31-01-2007

P-227-2016 C-763-2016 **C-478-2005** C-79-2005

documents are linked

.. Receivers are given text to copy and paste (chatbots/humans?)

Canal Digital - Juzgado De Letras Y Garantía De Mulchen

Finalizar X

pablo peres • Consulta Resolvida 10% RFP

26-08-2007 09:00:00

Buenas tardes mi nombre es Johanna Sarita Castillo Zambrano, ¿en que lo puedo ayudar?

Hola

Cómo están

Deme un momento Llevo algunos minutos esperando su respuesta, terminaré la atención

Documento (.docx)

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	0	Sentencia	Actuación	cumplase 04/05/07	07-05-2007
	0	Sentencia	Actuación	Resumen	01-03-2007
	0	Sentencia	Resolución	Consulta Corte	22-02-2007
	0	Sentencia	Resolución	Oficio Resumen	22-02-2007
	0	Audiencia de Juicio	Sentencia	Dictación de sentencia	01-02-2007
	0	Audiencia de Juicio	Resolución	Como se pide	31-01-2007

P-227-2016 C-763-2016 **C-478-2005** C-79-2005

documents are linked

Cases are linked across calls

.. and into the courts (DIGITAL INTEROPERABILITY)

Canal Digital - Juzgado De Letras Y Garantía De Mulchen

← Volver al listado

Historia

- pablo perez** 13:34:50
pablo perez contactó al tribunal
2 segundos
- Johanna Sarita Castillo Zambrano** 13:34:52
Atención **aceptada** por Johanna Sarita Castillo Zambrano
13 segundos
- Johanna Sarita Castillo Zambrano** 13:35:05
Buenas tardes mi nombre es Johanna Sarita Castillo Zambrano, ¿en que le puedo ayudar?
39 segundos
- pablo perez** 13:36:05
Hola
2 segundos
- pablo perez** 13:36:07
Cómo están
10 segundos
- Johanna Sarita Castillo Zambrano** 13:36:19
Llevo algunos minutos esperando su respuesta, terminaré la atención
1 segundo
- Johanna Sarita Castillo Zambrano** 13:36:20
Adios
3 segundos

Participantes

- pablo perez**
Usuario
- Johanna Sarita Castillo Zambrano**
Funcionaria

Duración

Espera: 00:00:02

Atención: 00:01:30

Información del Usuario

RUT 6.187.814-9	Fecha Atención 28-08-2020 13:34:30
Nombre pablo perez	Tipo Whatsapp
Teléfono 964.395678	

No se realizaron observaciones

FACILITATING DOWNSTREAM ANALYSIS ON CONSEQUENCES

Cases are linked across calls

.. and into the courts (DIGITAL INTEROPERABILITY)

Canal Digital - Juzgado De Letras Y Garantía De Mulchen

← Volver al listado

Historia

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pablo perez contactó al tribunal
+ 2 segundos
- Johanna Sarita Castillo Zambrano** 13:34:52
Atención **aceptada** por Johanna Sarita Castillo Zambrano
+ 13 segundos
- Johanna Sarita Castillo Zambrano** 13:35:05
Buenas tardes mi nombre es Johanna Sarita Castillo Zambrano, ¿en que lo puedo ayudar?
+ 59 segundos
- pablo perez** 13:36:05
Hola
+ 2 segundos
- pablo perez** 13:36:07
Cómo están
+ 10 segundos
- Johanna Sarita Castillo Zambrano** 13:36:19
Llevo algunos minutos esperando su respuesta, terminaré la atención
+ 1 segundo
- Johanna Sarita Castillo Zambrano** 13:36:20
Adios
+ 2 segundos

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Usuario
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FACILITATING DOWNSTREAM ANALYSIS ON CONSEQUENCES

40% of inquiries have been related to alimony

Pilot being rolled out nationally (and advertised)



E-JUSTICE APPS TO SPEED UP JUSTICE

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E-JUSTICE APPS TO SPEED UP JUSTICE

Uber-ization of Case Backlog

Interventions

- Chilean courts are affected by high imbalance of workload and little incentives to perform better.
- Telework aims to **improve performance** in congested courts by **balancing the workload** across courts, without incurring the costs of hiring new staff.
- Participants volunteer into an **incentives scheme**--receive benefits conditional on doing **the extra work** and on meeting **performance targets**.

Research Design

- We use **Randomized Controlled Trials (RCT)** with treatments:
 1. **Providing Telework**: administrative staffs and judges opt-in the program.
 2. **Receiving Telework**: receive help from another tribunal at no extra cost.
- There are 41 blocks between composed of at least three tribunals of similar competence & jurisdiction.

Stage 1: mechanism to smooth variability across jurisdictions (daily, court-specific incentive)

Stage 2: mechanism to smooth variability across time within jurisdictions ('uber')

UBERIZATION ADDRESS CASES ACTUALLY FILED

WHAT ABOUT CASES THAT NEVER FILE?

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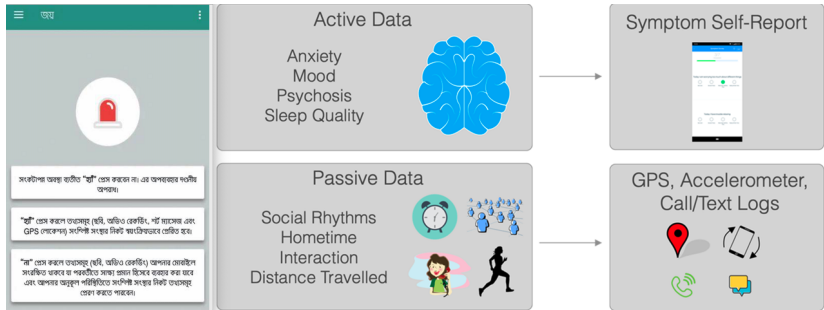
Stage 2: mechanism to smooth variability across time within jurisdictions ('uber')

UBERIZATION ADDRESS CASES ACTUALLY FILED

WHAT ABOUT CASES THAT NEVER FILE?

Apps for Missing Cases Bangladesh app (nationally advertised on July 2018)

smartphone app aiming to address violence against women and children

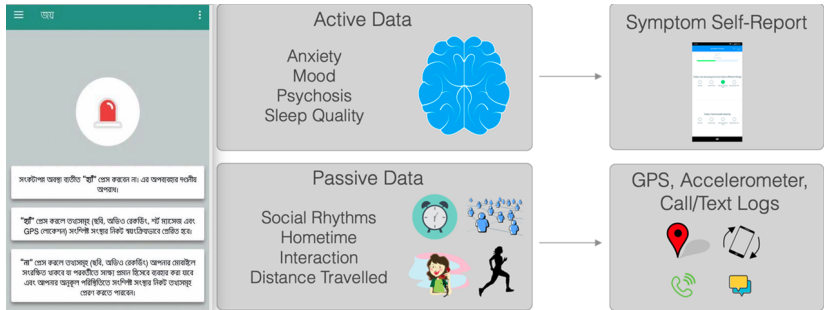


- Emergency button sends the victim's GPS, picture, and audio recording
- Passive features for additional revealed preference data

WHAT ABOUT BIG DATA?

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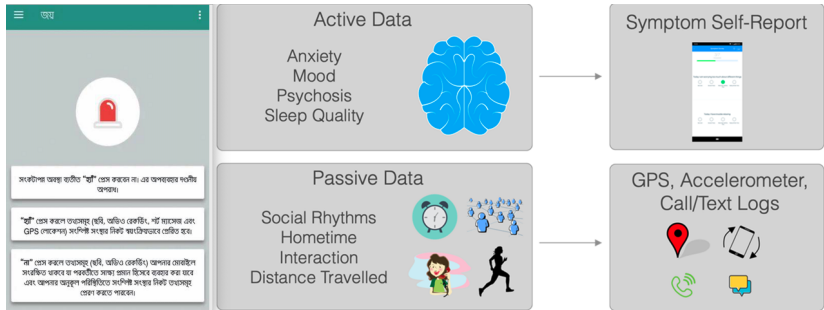


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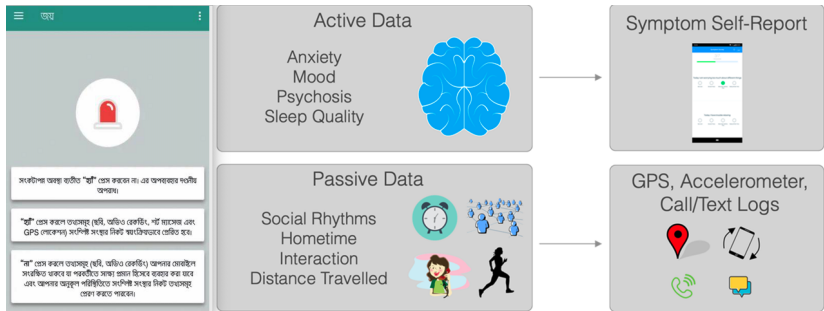


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WHAT ABOUT BIG DATA?

India E-courts

	prev. scrape	current scrape	Δ
districts	608	633	+ 04%
courts	6292	7154	+ 14%
# of cases 2015-2018 all states	40.95M	48.9M	+ 19%

year	prev. scrape	new scrape	merged
2000	0.46M	0.53M	calculating
2001	0.71M	0.77M	calculating
2002	0.79M	0.92M	calculating
2003	0.97M	1.12M	calculating
2004	1.15M	1.31M	calculating
2005	1.49M	1.59M	calculating
2006	1.73M	1.92M	calculating
2007	1.86M	2.1M	calculating
2008	2.23M	2.49M	calculating
2009	2.69M	2.89M	calculating
2010	3.31M	3.47M	calculating
2011	2.22M	4.05M	calculating
2012	3.66M	4.92M	calculating
2013	7.26M	7.32M	calculating
2014	10.37M	10.21M	calculating
2015	8.29M	9.13M	10.74M
2016	10.88M	9.4M	12.03M
2017	10.8M	9.82M	12.83M
2018	10.98M	9.37M	13.3M
2019	0M	8.59M	8.59M

Impact of Legal Search Engines

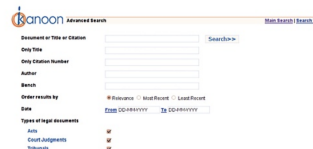


2011

Sushant Sinha, 30

A search engine for Indian laws and court judgments

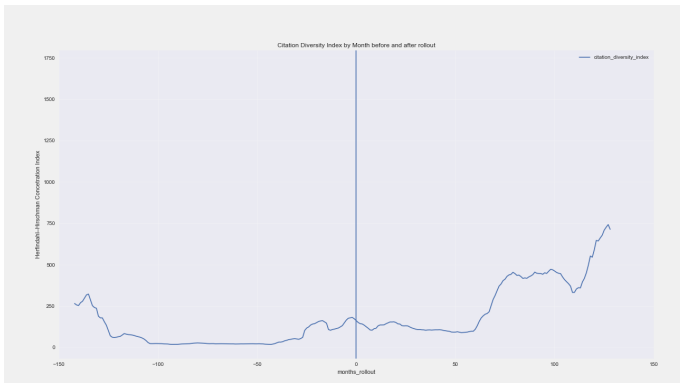
Indian Kanoon



- on how cases are decided?
- speed of resolution?
- diversity of citations?
- memes?

Impact of Legal Search Engines

Preliminary evidence that legal search engine increased HHI concentration of citations

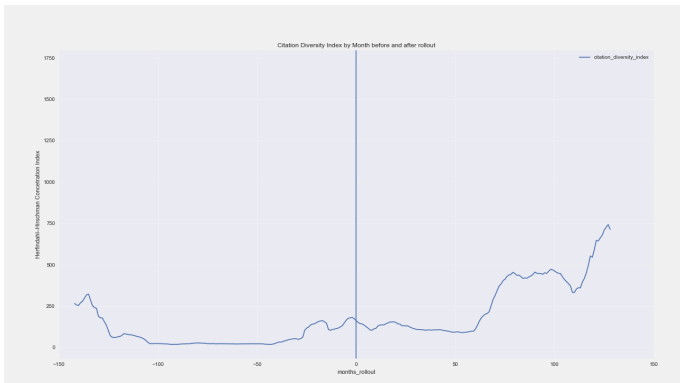


The impact of google on wikipedia is hard to know, since wikipedia didn't exist prior to google
here, we can study common law, to see the polarization or democratization of justice

LET ME TURN TO TRUST IN THE LAW

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Preliminary evidence that legal search engine increased HHI concentration of citations



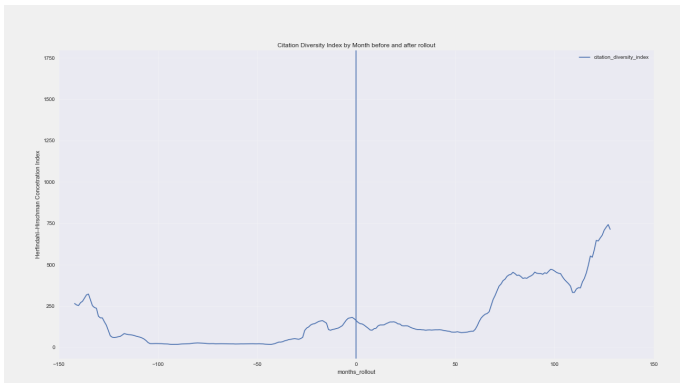
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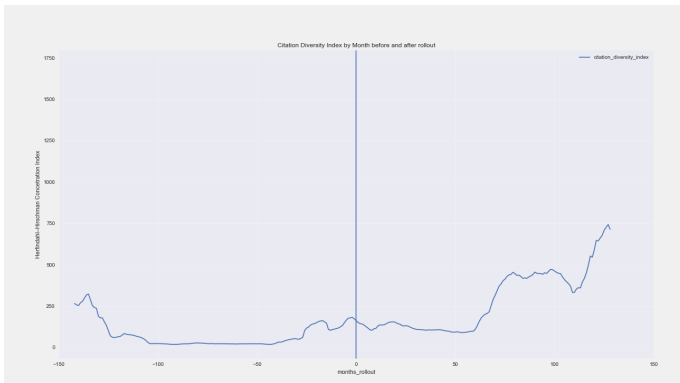


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LET ME TURN TO TRUST IN THE LAW

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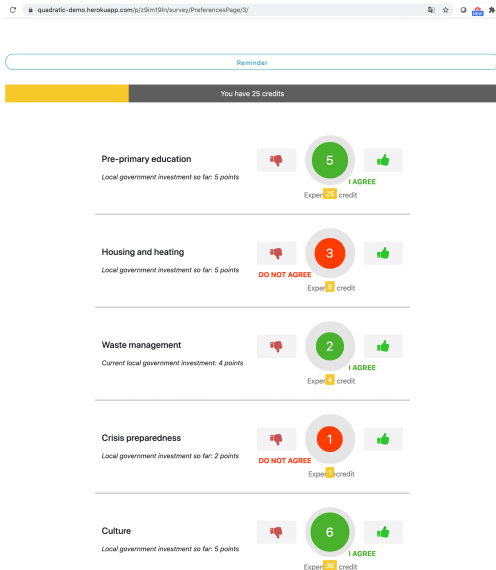
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Trust in the Law

CAN WE MOVE BEYOND LIKERT SCALES OF USER SATISFACTION?

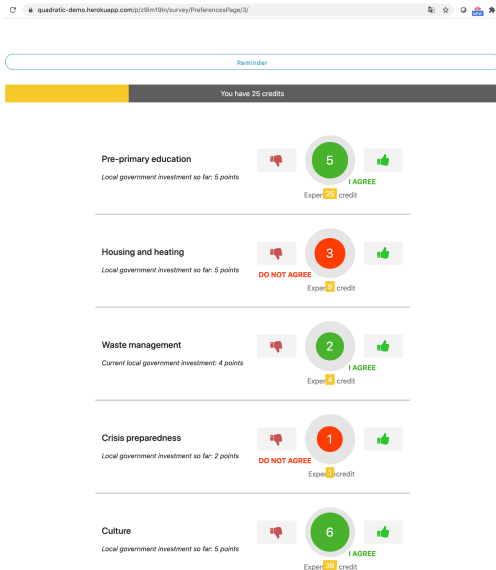
Quadratic Voting for Surveys

Estonian IE of public-facing dashboard for local government accountability



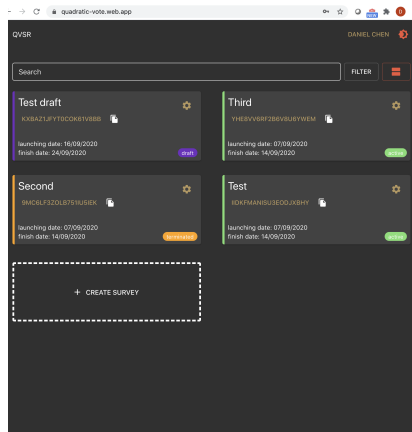
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Self-service Quadratic Voting

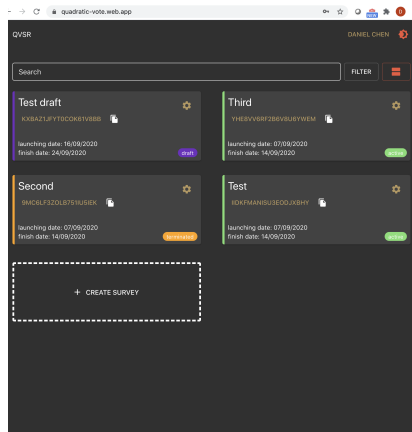
Giving civil servants and citizens the ability to ask questions of each other



- Kenya: Propose measuring court satisfaction to better target infrastructure improvements
- Czech: Measure trust in the law (through revealed preference questionnaires)
 - ▶ Does trust correlate with legal compliance?
 - ▶ Do revealed preferences predict recidivism beyond psychometric surveys?
- Multi-country: How do individuals trade-off indicators of court quality?

Self-service Quadratic Voting

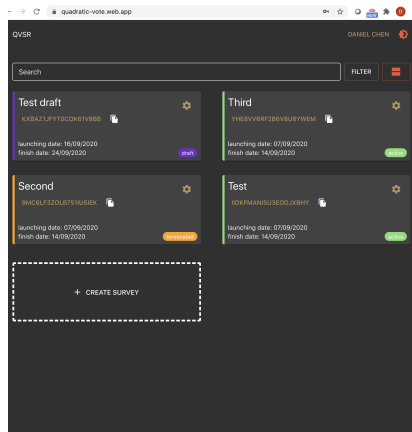
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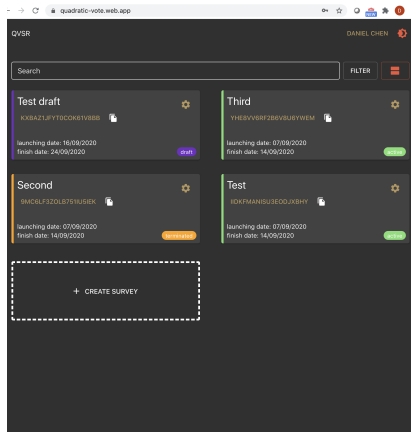
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- Country counterparts have asked
 - ▶ e-arbitration
 - ▶ AI for scheduling
 - ▶ AI in civil justice (to manage evidence)
 - ▶ blockchain technologies for follow-up of compliance of cases
 - ▶ online judicial auction platform (ebay for bankruptcy judges)

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Training

- Theory vs. case-based teaching
 - ▶ vs. personalized case-based teaching - using own decisions
- Social-emotional learning interventions
 - ▶ self-affirmation, advice giving, growth mindset, etc.
- Monitoring & debrief $\approx$ "community of practice"
 - ▶ of teachers
- Empathy training (Pakistan)
 - ▶ emotional intelligence
- Algorithmic search
 - ▶ do off-the-shelf search algorithms lead to polarization vs. de-polarization ML
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Strengths of DE JURE Program @ DIME

- Design
- Deploy
- Evaluating effects of justice reforms
- Developing technologies to do so
- Dialogue with country partners