# Institutional Origins of COVID-19 Public Health Protective Policy Response (PPI) Data Set

COVID-19 Policy Response Lab, 2022-1-12

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#### **MAIN DATASETS**

**PPI\_country\_m1:** stores information about active national and subnational policies in each country on each day of observation, with the policy variables constructed according to the first method below and aggregated over the subnational units.

**PPI\_regions\_ZZ\_m1:** stores information about active national and subnational policies in each region of country ZZ on each day of observation, with the policy variables constructed according to the first method below.

**PPI\_country\_m2:** stores information about active national and subnational policies in each country on each day of observation, with the policy variables constructed according to the second method below and aggregated over the subnational units.

**PPI\_regions\_ZZ\_m2:** stores information about active national and subnational policies in each region of country ZZ on each day of observation, with the policy variables constructed according to the second method below.

#### Country-level Protective Policy Index Method 1 (PPI-M1) dataset

	Variable name	Description	Construction	Range
Cas	e Identification vai	riables:		
	cname	Country name		
	isocode	ISO 3166 country code		
	isoabbr	country abbreviation according to ISO 3166		
	date	date		
Pro	Protective Policy Index Method 1 (PPI-M1) calculated variables:			
		Protective Policy Index (Both	Population-weighted average of region-	
	ppi.all.tot.ave	levels)	specific values of ppi.all.tot	[0,1]

			Population-weighted average of region-	
	ppi.all.nat.ave	Protective Policy Index (National)	specific values of ppi.all.nat	[0,1]
	ppi.aii.iiat.ave	Trotective rolley index (National)	Population-weighted average of region-	[0,1]
	ppi.all.reg.ave	Protective Policy Index (Regional)	specific values of ppi.all.reg	[0,1]
Roi	rders:	Trotective Folicy Index (Regionar)	specific values of ppi.an.reg	[0,1]
DUI	borders.all.tot.a	Border closures: all components	Population-weighted average of region-	
	ve	(Both levels)	specific values of borders.all.tot	[0,1]
	borders.all.nat.a	Border closures: all components	Population-weighted average of region-	[0]1]
	ve	(National)	specific values of borders.all.nat	[0,1]
	borders.all.reg.a	Border closures: all components	Population-weighted average of region-	[-/-]
	ve	(Regional)	specific values of borders.all.reg	[0,1]
	borders.air_bor	Border closures: closure of air	Population-weighted average of region-	. , ,
	d.tot.ave	borders (Both levels)	specific values of borders.air_bord.tot	[0,1]
	borders.air_bor	Border closures: closure of air	Population-weighted average of region-	
	d.nat.ave	borders (National)	specific values of borders.air_bord.nat	[0,1]
	borders.air_bor	Border closures: closure of air	Population-weighted average of region-	
	d.reg.ave	borders (Regional)	specific values of borders.air_bord.reg	[0,1]
	borders.land_bo	Border closures: closure of land	Population-weighted average of region-	
	rd.tot.ave	borders (Both levels)	specific values of borders.land_bord.tot	[0,1]
			Population-weighted average of region-	
	borders.land_bo	Border closures: closure of land	specific values of	
	rd.nat.ave	borders (National)	borders.land_bord.nat	[0,1]
			Population-weighted average of region-	
	borders.land_bo	Border closures: closure of land	specific values of	
	rd.reg.ave	borders (Regional)	borders.land_bord.reg	[0,1]
	borders.sea_bor	Border closures: closure of sea	Population-weighted average of region-	[0.4]
	d.tot.ave	borders (Both levels)	specific values of borders.sea_bord.tot	[0,1]
	borders.sea_bor	Border closures: closure of sea	Population-weighted average of region-	[0.4]
	d.nat.ave	borders (National)	specific values of borders.sea_bord.nat	[0,1]
	borders.sea_bor	Border closures: closure of sea	Population-weighted average of region-	[0 1]
Cto	d.reg.ave	borders (Regional)	specific values of borders.sea_bord.reg	[0,1]
Sia	te of emergency:		Donulation weighted average of region	
	emerg.all.tot.av	State of emergency (Both levels)	Population-weighted average of region- specific values of emerg.all.tot	[0,1]
	e emerg.all.nat.av	State of emergency (Both levels)	Population-weighted average of region-	[0,1]
	e emerg.an.mat.av	State of emergency (National)	specific values of emerg.all.nat	[0,1]
	emerg.all.reg.av	State of emergency (National)	Population-weighted average of region-	[0,1]
	e emerg.am.reg.av	State of emergency (Regional)	specific values of emerg.all.reg	[0,1]
Ind	lividual location		- Specific values of efficiency	[ [~/+]
	ind_locat.all.tot.	Individual location: all	Population-weighted average of region-	
	ave	components (Both levels)	specific values of ind locat.all.tot	[0,1]
	ind_locat.all.nat	Individual location: all	Population-weighted average of region-	. , .
	.ave	components (National)	specific values of ind_locat.all.nat	[0,1]
	ind_locat.all.reg.	Individual location: all	Population-weighted average of region-	

			Population-weighted average of region-	
	ind_locat.ind_m	Individual location: restricted	specific values of	
	ob.tot.ave		ind locat.ind mob.tot	[0 1]
	ob.tot.ave	individual mobility (Both levels)		[0,1]
		La dividual la satia a vastaista d	Population-weighted average of region-	
	ind_locat.ind_m	Individual location: restricted	specific values of	[0.4]
	ob.nat.ave	individual mobility (National)	ind_locat.ind_mob.nat	[0,1]
			Population-weighted average of region-	
	ind_locat.ind_m	Individual location: restricted	specific values of	
	ob.reg.ave	individual mobility (Regional)	ind_locat.ind_mob.reg	[0,1]
			Population-weighted average of region-	
	ind_locat.med_s	Individual location: conditional	specific values of	
	tay.tot.ave	self-isolation (Both levels)	ind_locat.med_stay.tot	[0,1]
			Population-weighted average of region-	
	ind_locat.med_s	Individual location: conditional	specific values of	
	tay.nat.ave	self-isolation (National)	ind_locat.med_stay.nat	[0,1]
	·		Population-weighted average of region-	
	ind_locat.med_s	Individual location: conditional	specific values of	
	tay.reg.ave	self-isolation (Regional)	ind_locat.med_stay.reg	[0,1]
	ind_locat.publ_t	Individual location: closure of	Population-weighted average of region-	[-/-]
	r.tot.ave	public transportation (Both levels)	specific values of ind_locat.publ_tr.tot	[0,1]
	ind_locat.publ_t	Individual location: closure of	Population-weighted average of region-	[0,1]
	r.nat.ave	public transportation (National)	specific values of ind_locat.publ_tr.nat	[0,1]
		Individual location: closure of	Population-weighted average of region-	[0,1]
	ind_locat.publ_t		, , , , , , , , , , , , , , , , , , , ,	[0 1]
	r.reg.ave	public transportation (Regional)	specific values of ind_locat.publ_tr.reg	[0,1]
CIO	sure of places of		T	
		Closures of places of human		
	places.all.tot.av	congregation: all components	Population-weighted average of region-	10.41
	е	(Both levels)	specific values of places.all.tot	[0,1]
		Closures of places of human		
	places.all.nat.av	congregation: all components	Population-weighted average of region-	
	е	(National)	specific values of places.all.nat	[0,1]
		Closures of places of human		
	places.all.reg.av	congregation: all components	Population-weighted average of region-	
	е	(Regional)	specific values of places.all.reg	[0,1]
		Closures of places of human		
	places.gov_offs.	congregation: closure of	Population-weighted average of region-	
	tot.ave	government offices (Both levels)	specific values of places.gov_offs.tot	[0,1]
		Closures of places of human		
	places.gov_offs.	congregation: closure of	Population-weighted average of region-	
	nat.ave	government offices (National)	specific values of places.gov_offs.nat	[0,1]
		Closures of places of human		
	places.gov_offs.	congregation: closure of	Population-weighted average of region-	
	reg.ave	government offices (Regional)	specific values of places.gov_offs.reg	[0,1]
	. 55.415	Closures of places of human	- spesific values of placesigov_offsiteg	[-,-]
	places.ne_busn.	congregation: closure of non-	Population-weighted average of region-	
	tot.ave	essential businesses (Both levels)	specific values of places.ne_busn.tot	[0 1]
	ioi.ave	essentiai pusinesses (DUtil levels)	specific values of places.fie_busfi.tot	[0,1]

			T	
		Closures of places of human	Danielation mainted among a funcion	
	places.ne_busn.	congregation: closure of non-	Population-weighted average of region-	[0.4]
	nat.ave	essential businesses (National)	specific values of places.ne_busn.nat	[0,1]
	.1	Closures of places of human	Bara latina anti-latina and a facility	
	places.ne_busn.	congregation: closure of non-	Population-weighted average of region-	fo. 43
	reg.ave	essential businesses (Regional)	specific values of places.ne_busn.reg	[0,1]
		Closures of places of human		
	places.restrts.to	congregation: closure of	Population-weighted average of region-	
	t.ave	restaurants (Both levels)	specific values of places.restrts.tot	[0,1]
		Closures of places of human		
	places.restrts.na	congregation: closure of	Population-weighted average of region-	
	t.ave	restaurants (National)	specific values of places.restrts.nat	[0,1]
		Closures of places of human		
	places.restrts.re	congregation: closure of	Population-weighted average of region-	
	g.ave	restaurants (Regional)	specific values of places.restrts.reg	[0,1]
		Closures of places of human		
		congregation: closure of venues of		
	places.venues.t	entertainment and leisure (Both	Population-weighted average of region-	
	ot.ave	levels)	specific values of places.venues.tot	[0,1]
		Closures of places of human		
		congregation: closure of venues of		
	places.venues.n	entertainment and leisure	Population-weighted average of region-	
	at.ave	(National)	specific values of places.venues.nat	[0,1]
		Closures of places of human	·	
		congregation: closure of venues of		
	places.venues.re	entertainment and leisure	Population-weighted average of region-	
	g.ave	(Regional)	specific values of places.venues.reg	[0,1]
		Closures of places of human		. , ,
	places.wfh.tot.a	congregation: working from home	Population-weighted average of region-	
	ve	requirement (Both levels)	specific values of places.wfh.tot	[0,1]
		Closures of places of human	l l	[-/-]
	places.wfh.nat.a	congregation: working from home	Population-weighted average of region-	
	ve	requirement (National)	specific values of places.wfh.nat	[0,1]
		Closures of places of human	specific values of places.	[0,1]
	places.wfh.reg.a	congregation: working from home	Population-weighted average of region-	
	ve	requirement (Regional)	specific values of places.wfh.reg	[0,1]
Soh	ools and social g		specific values of places.wiff.reg	[0,1]
SCII	ioois and social g	Closure of schools and restrictions	<u> </u>	
	coc and coblect	on social gatherings: all	Population weighted average of region	
	soc_and_schls.al		Population-weighted average of region-	[0 1]
	I.tot.ave	components (Both levels)	specific values of soc_and_schls.all.tot	[0,1]
	ا بلياني اجيم جميد	Closure of schools and restrictions	Deputation weighted access of cont	
	soc_and_schls.al	on social gatherings: all	Population-weighted average of region-	[0.4]
	I.nat.ave	components (National)	specific values of soc_and_schls.all.nat	[0,1]
		Closure of schools and restrictions		
	soc_and_schls.al	on social gatherings: all	Population-weighted average of region-	
1	l.reg.ave	components (Regional)	specific values of soc_and_schls.all.reg	[0,1]

		Closure of schools and restrictions	Population-weighted average of region-		
	soc_and_schls.s	on social gatherings: closure of	specific values of		
	chools.tot.ave	schools (Both levels)	soc_and_schls.schools.tot	[0,1]	
		Closure of schools and restrictions	Population-weighted average of region-		
	soc_and_schls.s	on social gatherings: closure of	specific values of		
	chools.nat.ave	schools (National)	soc_and_schls.schools.nat	[0,1]	
		Closure of schools and restrictions	Population-weighted average of region-		
	soc_and_schls.s	on social gatherings: closure of	specific values of		
	chools.reg.ave	schools (Regional)	soc_and_schls.schools.reg	[0,1]	
		Closure of schools and restrictions	Population-weighted average of region-		
	soc_and_schls.s	on social gatherings: limits on size	specific values of		
	oc_gath.tot.ave	of social gatherings (Both levels)	soc_and_schls.soc_gath.tot	[0,1]	
		Closure of schools and restrictions	Population-weighted average of region-		
	soc_and_schls.s	on social gatherings: limits on size	specific values of		
	oc_gath.nat.ave	of social gatherings (National)	soc_and_schls.soc_gath.nat	[0,1]	
		Closure of schools and restrictions	Population-weighted average of region-		
	soc_and_schls.s	on social gatherings: limits on size	specific values of		
	oc_gath.reg.ave	of social gatherings (Regional)	soc_and_schls.soc_gath.reg	[0,1]	
Per	sonal protective	equipment:			
	masks.all.tot.av	Mandatory wearing of personal	Population-weighted average of region-		
	е	protective equipment (Both levels)	specific values of masks.all.tot	[0,1]	
	masks.all.nat.av	Mandatory wearing of personal	Population-weighted average of region-		
	е	protective equipment (National)	specific values of masks.all.nat	[0,1]	
	masks.all.reg.av	Mandatory wearing of personal	Population-weighted average of region-		
	е	protective equipment (Regional)	specific values of masks.all.reg	[0,1]	
Per	oc_gath.reg.ave rsonal protective masks.all.tot.av e masks.all.nat.av e masks.all.reg.av	of social gatherings (Regional)  equipment:  Mandatory wearing of personal protective equipment (Both levels)  Mandatory wearing of personal protective equipment (National)  Mandatory wearing of personal	Population-weighted average of region-specific values of masks.all.tot Population-weighted average of region-specific values of masks.all.nat Population-weighted average of region-	[0,1]	

# Sub-national level Protective Policy Indices by Method 1 (PPI-M1)

	Variable name	Description	Construction	Range
Cas	Case Identification variables:			
	cname	Country name		
	isocode	ISO 3166 country code		
	isoabbr	country abbreviation according to ISO 3166		
	state_province	the name of the administrative division where the policy applies		
	iso_state	ISO 3166 code of the administrative division where the policy applies		
	date	date		
Pro	Protective Policy Index Method 1 (PPI-M1) calculated variables:			
	ppi.all.tot	Protective Policy Index (Both levels)	(9*borders.all.tot+3*emerg.all.tot+10*i nd_locat.all.tot+8*places.all.tot+8*soc _and_schls.all.tot+2*masks.all.tot)/40	[0,1]

	ppi.all.nat	Protective Policy Index (National)	(9*borders.all.nat+3*emerg.all.nat+10*	
	ppiidiiiide	Trotteetive Folicy maex (National)	ind_locat.all.nat+8*places.all.nat+8*so	
			c_and_schls.all.nat+2*masks.all.nat)/40	[0,1]
	ppi.all.reg	Protective Policy Index (Regional)	(9*borders.all.reg+3*emerg.all.reg+10*	
		, , ,	ind_locat.all.reg+8*places.all.reg+8*soc	
			_and_schls.all.reg+2*masks.all.reg)/40	[0,1]
Bo	rders:			
	borders.all.tot	Border closures: all components	(3*borders.air_bord.tot+3*borders.lan	
		(Both levels)	d_bord.tot+3*borders.sea_bord.tot)/9	[0,1]
	borders.all.nat	Border closures: all components	(3*borders.air_bord.nat+3*borders.lan	
		(National)	d_bord.nat+3*borders.sea_bord.nat)/9	[0,1]
	borders.all.reg	Border closures: all components	(3*borders.air_bord.reg+3*borders.lan	
		(Regional)	d_bord.reg+3*borders.sea_bord.reg)/9	[0,1]
	borders.air_bor	Border closures: closure of air	max(borders.air_bord.nat,borders.air_	
	d.tot	borders (Both levels)	bord.reg)	[0,1]
	borders.air_bor	Border closures: closure of air	directly coded	FO 43
	d.nat	borders (National)		[0,1]
	borders.air_bor	Border closures: closure of air	directly coded	[0.4]
	d.reg	borders (Regional)		[0,1]
	borders.land_bo	Border closures: closure of land	max(borders.land_bord.nat,borders.lan	[0 1]
	rd.tot	borders (Both levels)  Border closures: closure of land	d_bord.reg)	[0,1]
	borders.land_bo rd.nat	borders (National)	directly coded	[0,1]
	borders.land_bo	Border closures: closure of land	directly coded	[0,1]
	rd.reg	borders (Regional)	directly coded	[0,1]
	borders.sea_bor	Border closures: closure of sea	max(borders.sea_bord.nat,borders.sea	[0]2]
	d.tot	borders (Both levels)	_bord.reg)	[0,1]
	borders.sea_bor	Border closures: closure of sea	directly coded	. , ,
	d.nat	borders (National)	,	[0,1]
	borders.sea_bor	Border closures: closure of sea	directly coded	
	d.reg	borders (Regional)		[0,1]
Sta	te of emergency:			
	emerg.all.tot	State of emergency (Both levels)	max(emerg.all.nat,emerg.all.reg)	[0,1]
	emerg.all.nat	State of emergency (National)	directly coded	[0,1]
	emerg.all.reg	State of emergency (Regional)	directly coded	[0,1]
Ind	lividual location	•		
	ind_locat.all.tot	Individual location: all	(5*ind_locat.ind_mob.tot+3*ind_locat.	
		components (Both levels)	med_stay.tot+2*ind_locat.publ_tr.tot)/	
			10	[0,1]
	ind_locat.all.nat	Individual location: all	(5*ind_locat.ind_mob.nat+3*ind_locat.	
		components (National)	med_stay.nat+2*ind_locat.publ_tr.nat)	_
			/10	[0,1]
	ind_locat.all.reg	Individual location: all	(5*ind_locat.ind_mob.reg+3*ind_locat.	
		components (Regional)	med_stay.reg+2*ind_locat.publ_tr.reg)	[0.4]
			/10	[0,1]
	ind_locat.ind_m	Individual location: restricted	max(ind_locat.ind_mob.nat,ind_locat.i	[0.4]
	ob.tot	individual mobility (Both levels)	nd_mob.reg)	[0,1]

	ind_locat.ind_m	Individual location: restricted	directly coded	
	ob.nat	individual mobility (National)	directly coded	[0,1]
	ind_locat.ind_m	Individual location: restricted	directly coded	[0,1]
	ob.reg	individual mobility (Regional)	amenty source	[0,1]
	ind_locat.med_s	Individual location: conditional	max(ind_locat.med_stay.nat,ind_locat.	[-/-]
	tay.tot	self-isolation (Both levels)	med_stay.reg)	[0,1]
	ind_locat.med_s	Individual location: conditional	directly coded	[-/-]
	tay.nat	self-isolation (National)		[0,1]
	ind_locat.med_s	Individual location: conditional	directly coded	[-/-]
	tay.reg	self-isolation (Regional)		[0,1]
	ind_locat.publ_t	Individual location: closure of	max(ind_locat.publ_tr.nat,ind_locat.pu	[-/-]
	r.tot	public transportation (Both levels)	bl_tr.reg)	[0,1]
	ind_locat.publ_t	Individual location: closure of	directly coded	[0/-]
	r.nat	public transportation (National)		[0,1]
	ind_locat.publ_t	Individual location: closure of	directly coded	[0/-]
	r.reg	public transportation (Regional)	an estily estaca	[0,1]
Clo	sure of places of			[[-/-]
	places.all.tot	Closures of places of human	(2*places.gov offs.tot+2*places.ne bu	
	piacesianitot	congregation: all components	sn.tot+2*places.restrts.tot+1*places.ve	
		(Both levels)	nues.tot+1*places.wfh.tot)/8	[0,1]
	places.all.nat	Closures of places of human	(2*places.gov_offs.nat+2*places.ne_bu	[0,1]
	piacesianinae	congregation: all components	sn.nat+2*places.restrts.nat+1*places.v	
		(National)	enues.nat+1*places.wfh.nat)/8	[0,1]
	places.all.reg	Closures of places of human	(2*places.gov_offs.reg+2*places.ne_bu	[-/-]
	p.a.co.a 68	congregation: all components	sn.reg+2*places.restrts.reg+1*places.v	
		(Regional)	enues.reg+1*places.wfh.reg)/8	[0,1]
	places.gov_offs.	Closures of places of human	max(places.gov_offs.nat,places.gov_off	[-, ]
	tot	congregation: closure of	s.reg)	
		government offices (Both levels)		[0,1]
	places.gov_offs.	Closures of places of human	directly coded	
	nat	congregation: closure of	,	
		government offices (National)		[0,1]
	places.gov_offs.	Closures of places of human	directly coded	
	reg	congregation: closure of	,	
	· ·	government offices (Regional)		[0,1]
	places.ne_busn.	Closures of places of human	max(places.ne_busn.nat,places.ne_bus	
	tot	congregation: closure of non-	n.reg)	
		essential businesses (Both levels)		[0,1]
	places.ne_busn.	Closures of places of human	directly coded	
	nat	congregation: closure of non-	,	
		essential businesses (National)		[0,1]
	places.ne_busn.	Closures of places of human	directly coded	
	reg	congregation: closure of non-	,	
		essential businesses (Regional)		[0,1]
	places.restrts.to	Closures of places of human	max(places.restrts.nat,places.restrts.re	
	t	congregation: closure of	g)	
		restaurants (Both levels)	<sub>1</sub> =:	1

	places.restrts.na	Closures of places of human	directly coded	
ı	t	congregation: closure of		[0.1]
	.1	restaurants (National)	Paralla and d	[0,1]
i	places.restrts.re	Closures of places of human	directly coded	
i	g	congregation: closure of		[0.4]
		restaurants (Regional)		[0,1]
	places.venues.t	Closures of places of human	max(places.venues.nat,places.venues.r	
	ot	congregation: closure of venues of	eg)	
		entertainment and leisure (Both		
		levels)		[0,1]
i	places.venues.n	Closures of places of human	directly coded	
	at	congregation: closure of venues of		
		entertainment and leisure		
		(National)		[0,1]
	places.venues.re	Closures of places of human	directly coded	
	g	congregation: closure of venues of		
		entertainment and leisure		
		(Regional)		[0,1]
	places.wfh.tot	Closures of places of human	max(places.wfh.nat,places.wfh.reg)	
	•	congregation: working from home	71 37	
		requirement (Both levels)		[0,1]
	places.wfh.nat	Closures of places of human	directly coded	[-/-]
	piacesiwiiiiae	congregation: working from home	an early coucu	
		requirement (National)		[0,1]
	places.wfh.reg	Closures of places of human	directly coded	[0,1]
	piaces.wiii.reg	congregation: working from home	uncerly coded	
		requirement (Regional)		[0,1]
Soh	ools and social g		<u> </u>	[0,1]
Sch	soc_and_schls.al	Closure of schools and restrictions	(4*soc_and_schls.schools.tot+4*soc_an	
			·	
	l.tot	on social gatherings: all	d_schls.soc_gath.tot)/8	[0.4]
		components (Both levels)	/ 4	[0,1]
	soc_and_schls.al	Closure of schools and restrictions	(4*soc_and_schls.schools.nat+4*soc_a	
	l.nat	on social gatherings: all	nd_schls.soc_gath.nat)/8	
		components (National)		[0,1]
	soc_and_schls.al	Closure of schools and restrictions	(4*soc_and_schls.schools.reg+4*soc_a	
	l.reg	on social gatherings: all	nd_schls.soc_gath.reg)/8	
		components (Regional)		[0,1]
	soc_and_schls.s	Closure of schools and restrictions	max(soc_and_schls.schools.nat,soc_an	
	chools.tot	on social gatherings: closure of	d_schls.schools.reg)	
		schools (Both levels)		[0,1]
, [	soc_and_schls.s	Closure of schools and restrictions	directly coded	
	chools.nat	on social gatherings: closure of		
		schools (National)		[0,1]
			dina ette a a da d	
'	soc_and_schls.s	Closure of schools and restrictions	directly coded	
	soc_and_schls.s chools.reg	Closure of schools and restrictions on social gatherings: closure of	directly coded	

	soc_and_schls.s	Closure of schools and restrictions	max(soc_and_schls.soc_gath.nat,soc_a	
	oc_gath.tot	on social gatherings: limits on size	nd_schls.soc_gath.reg)	
		of social gatherings (Both levels)		[0,1]
	soc_and_schls.s	Closure of schools and restrictions	directly coded	
	oc_gath.nat	on social gatherings: limits on size		
		of social gatherings (National)		[0,1]
	soc_and_schls.s	Closure of schools and restrictions	directly coded	
	oc_gath.reg	on social gatherings: limits on size		
		of social gatherings (Regional)		[0,1]
Per	sonal protective	equipment:		
	masks.all.tot	Mandatory wearing of personal	max(masks.all.nat,masks.all.reg)	
		protective equipment (Both levels)		[0,1]
	masks.all.nat	Mandatory wearing of personal	directly coded	
		protective equipment (National)		[0,1]
	masks.all.reg	Mandatory wearing of personal	directly coded	
		protective equipment (Regional)		[0,1]

The reported policies within each category are scored according to the following grid:

## Method 1 stringency levels of component policies

Dimension	Description	Value	Criterion
borders.air_bord	Border closures: closure of	1.00	All air borders are closed
	air borders	0.67	All international air borders are closed
		0.33	Air borders are closed for select countries
		0.00	All air borders are open
borders.land_bord	Border closures: closure of	1.00	All land borders are closed
	land borders	0.67	All international land borders are closed
		0.33	Land borders with select countries are
			closed
		0.00	All land borders are open
borders.sea_bord	Border closures: closure of	1.00	All sea borders are closed
	sea borders	0.67	All international sea borders are closed
		0.33	Sea borders with select countries are
			closed
		0.00	All sea borders are open
emerg.all	State of emergency	1.00	State of emergency
		0.00	No State of emergency
ind_locat.ind_mob	Individual location:	1.00	Lockdown (permission required
	restricted individual	0.80	Stay-at-home for all (no permission
	mobility		required
		0.40	Stay-at-home order just for specified
			groups
		0.20	No stay at home restrictions, curfew
		0.00	No stay at home or curfew restrictions

ind_locat.med_stay	Individual location: conditional self-isolation	1.00	Mandatory quarantine if diagnosed, exposed, or travelled
	Conditional Sen-Isolation	0.33	Self-isolation mandtd for exposure and travel
		0.00	No mandatory quarantines or self-isolation
ind_locat.publ_tr	Individual location: closure	1.00	Public transportation closed (except
	of public transportation		emergency routes)
		0.00	Public transportation not closed
places.gov_offs	Closures of places of	1.00	Government offices are closed
	human congregation: closure of government offices	0.00	Government offices are open
places.ne_busn	Closures of places of	1.00	Nonessential businesses are closed
	human congregation: closure of non-essential businesses	0.00	Nonessential businesses are open
places.restrts	Closures of places of	1.00	Restaurants are closed
	human congregation: closure of restaurants	0.00	Restaurants are open
places.venues	Closures of places of human congregation:	1.00	Entertainment venues /stadiums are closed
	closure of venues of entertainment and leisure	0.00	Entertainment venues /stadiums are open
places.wfh	Closures of places of	1.00	Working from home is required
	human congregation: working from home requirement	0.00	No work-from-home requirement
soc_and_schls.schools	Closure of schools and	1.00	Full closure of K12 schools
	restrictions on social	0.50	Partial closure of K12 schools
	gatherings: closure of schools	0.00	K12 schools are not required to closed
soc_and_schls.soc_gat	Closure of schools and	1.00	All social gatherings are prohibited
h	restrictions on social gatherings: limits on size of	0.75	Gatherings of 10 and more people are prohibited
	social gatherings	0.50	Gatherings of 50 and more people are prohibited
		0.25	Gatherings of 100 and more people are prohibited
		0.00	Social gatherings are not restricted
masks.all	Mandatory wearing of	1.00	Mandatory wearing of masks/PPE
	personal protective equipment	0.00	No PPE/masks mandate

## Method 2 stringency levels of component policies

Dimension	Description	Value	Criterion
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borders.all	Border closures	1.00	All borders are closed
		0.63	All international borders are closed
		0.25	Borders are closed for select countries
		0.00	All borders are open
emerg.all	State of emergency	1.00	State of emergency
	,	0.00	No State of emergency
ind_locat.ind_mob	Individual location: restricted individual	1.00	Lockdown (permission to exit home is required)
	mobility	0.80	Stay-at-home for all (no permission
		0.40	required Stay-at-home order just for specified
		0.10	groups
		0.10	No stay at home restrictions, curfew
		0.00	No stay at home or curfew restrictions
ind_locat.med_quar	Individual location:	1.00	Mandatory quarantine if
	mandatory quarantine	0.50	diagnosis/exposure/travel
		0.50	Mandatory quarantine if diagnosis /exposure only
		0.25	Mandatory quarantine for diagnosis only
		0.00	Mandatory quarantines not imposed
ind_locat.med_stay	Individual location:	1.00	Self-isolation is mandated after exposure
	conditional self-isolation		and travel
		0.00	Self-isolation not mandated
ind_locat.publ_tr	Individual location: closure	1.00	Public transportation closed (except
	of public transportation		emergency routes)
		0.50	Public transportation limited to share of
			capacity/time
		0.00	Public transportation is fully open
places.gov_offs	Closures of places of	1.00	Government offices are closed
	human congregation: closure of government offices	0.00	Government offices are open
places.ne_busn	Closures of places of	1.00	Nonessential businesses are closed
	human congregation: closure of non-essential businesses	0.25	Nonessential businesses are closed (except curbside service/ outdoor
	Dusiliesses	0.00	construction)
nlagae roctute	Closures of places of	0.00	Nonessential businesses are open
places.restrts	Closures of places of human congregation:	1.00	Restaurants are fully closed (except delivery and take-out)
	closure of restaurants	0.75	Restaurants are opened for outdoor, not
	closure of restaurants		indoor
		0.25	Restaurants are opened, reduced indoor capacity
	Í	0.00	Restaurants are fully open

places.venues	Closures of places of human congregation:	1.00	Entertainment venues /stadiums are closed
	closure of venues of	0.50	Only outdoors entertainment venues are
	entertainment and leisure	0.30	open
	entertainment and leisure	0.00	Entertainment venues /stadiums are open
places.wfh	Closures of places of	1.00	Working from home is required
	human congregation: working from home requirement	0.00	No work-from-home requirement
soc_and_schls.schools	Closure of schools and	1.00	Full closure of K12 schools
	restrictions on social	0.50	Partial closure of K12 schools
	gatherings: closure of schools	0.00	K12 schools are not required to closed
soc_and_schls.soc_gath	Closure of schools and	1.00	All social gatherings are prohibited
	restrictions on social gatherings: limits on size of	0.75	Gatherings of 10 and more people are prohibited
	social gatherings	0.50	Gatherings of 50 and more people are prohibited
		0.25	Gatherings of 100 and more people are prohibited
		0.00	Social gatherings are not restricted
med_mandate.dist_mand	Medical mandate: social	1.00	Safe distance 1.5-2m outdoors and in
	distancing mandates		public spaces
		0.50	Safe distance 1.5-2m in
		0.00	business/organizations
		0.00	No safe distance mandate
med_mandate.masks	Medical mandate:	1.00	Mandatory wearing of masks/PPE
	mandatory wearing of	0.00	No PPE/masks mandate
	personal protective		
	equipment		

## Country-level Protective Policy Index Method 2 (PPI-M2-N) dataset

	Variable name	Description	Construction	Range	
Cas	Case Identification variables:				
	cname	Country name			
	isocode	ISO 3166 country code			
	isoabbr	country abbreviation according to ISO 3166			
	date	date			
Pro	Protective Policy Index Method 2 (PPI-M2) calculated variables:				
	ppi.all.tot.ave.2	Protective Policy Index (Both	Population-weighted average of region-		
		levels)	specific values of ppi.all.tot.2	[0,1]	

	: -!! 2	Dont ation Delian Index (National)	Danielation maintant annual of marine	
	ppi.all.nat.ave.2	Protective Policy Index (National)	Population-weighted average of region-	[0.4]
			specific values of ppi.all.nat.2	[0,1]
	ppi.all.reg.ave.2	Protective Policy Index (Regional)	Population-weighted average of region-	[O 4]
	7		specific values of ppi.all.reg.2	[0,1]
Roi	rders:	T_	T	
	borders.all.tot.a	Border closures (Both levels)	Population-weighted average of region-	
	ve.2		specific values of borders.all.tot.2	[0,1]
	borders.all.nat.a	Border closures (National)	Population-weighted average of region-	
	ve.2		specific values of borders.all.nat.2	[0,1]
	borders.all.reg.a	Border closures (Regional)	Population-weighted average of region-	
	ve.2		specific values of borders.all.reg.2	[0,1]
Sta	te of emergency:			
	emerg.all.tot.av	State of emergency (Both levels)	Population-weighted average of region-	
	e.2		specific values of emerg.all.tot.2	[0,1]
	emerg.all.nat.av	State of emergency (National)	Population-weighted average of region-	
	e.2		specific values of emerg.all.nat.2	[0,1]
	emerg.all.reg.av	State of emergency (Regional)	Population-weighted average of region-	
	e.2		specific values of emerg.all.reg.2	[0,1]
Ind	lividual location	restrictions:	•	
	ind locat.all.tot.	Individual location: all	Population-weighted average of region-	
	ave.2	components (Both levels)	specific values of ind_locat.all.tot.2	[0,1]
	ind_locat.all.nat	Individual location: all	Population-weighted average of region-	
	.ave.2	components (National)	specific values of ind_locat.all.nat.2	[0,1]
	ind_locat.all.reg.	Individual location: all	Population-weighted average of region-	
	ave.2	components (Regional)	specific values of ind_locat.all.reg.2	[0,1]
	ind_locat.ind_m	Individual location: restricted	Population-weighted average of region-	
	ob.tot.ave.2	individual mobility (Both levels)	specific values of	
		, ,	ind_locat.ind_mob.tot.2	[0,1]
	ind_locat.ind_m	Individual location: restricted	Population-weighted average of region-	[-/ ]
	ob.nat.ave.2	individual mobility (National)	specific values of	
		, , , , , , , , , , , , , , , , , , , ,	ind locat.ind mob.nat.2	[0,1]
	ind_locat.ind_m	Individual location: restricted	Population-weighted average of region-	[-, ]
	ob.reg.ave.2	individual mobility (Regional)	specific values of	
		, , , , , ,	ind_locat.ind_mob.reg.2	[0,1]
	ind locat.med	Individual location: mandatory	Population-weighted average of region-	. , ,
	quar.tot.ave.2	quarantine (Both levels)	specific values of	
	4	4,	ind locat.med quar.tot.2	[0,1]
	ind_locat.med_	Individual location: mandatory	Population-weighted average of region-	[-, ]
	quar.nat.ave.2	quarantine (National)	specific values of	
	900	quaramor (manomar)	ind locat.med quar.nat.2	[0,1]
	ind_locat.med_	Individual location: mandatory	Population-weighted average of region-	[-/-J
	quar.reg.ave.2	quarantine (Regional)	specific values of	
	-1	1.20.00.00.7	ind_locat.med_quar.reg.2	[0,1]
	ind_locat.med_s	Individual location: conditional	Population-weighted average of region-	[-/-]
	tay.tot.ave.2	self-isolation (Both levels)	specific values of	
	Lay.tot.avc.2	Jen John (Both levels)	ind_locat.med_stay.tot.2	[0,1]
	1			[~/-]

	ind locat mod s	Individual location: conditional	Deputation weighted average of region	
	ind_locat.med_s		Population-weighted average of region-	
	tay.nat.ave.2	self-isolation (National)	specific values of	[0 1]
	ind locat mod s	Individual locations conditional	ind_locat.med_stay.nat.2	[0,1]
	ind_locat.med_s	Individual location: conditional	Population-weighted average of region-	
	tay.reg.ave.2	self-isolation (Regional)	specific values of	[0.4]
	tallana la la la	Late the allowable and a second	ind_locat.med_stay.reg.2	[0,1]
	ind_locat.publ_t	Individual location: closure of	Population-weighted average of region-	
	r.tot.ave.2	public transportation (Both levels)	specific values of	[0.4]
			ind_locat.publ_tr.tot.2	[0,1]
	ind_locat.publ_t	Individual location: closure of	Population-weighted average of region-	
	r.nat.ave.2	public transportation (National)	specific values of	[0.4]
	ted been a librar	Late the allowable and a second	ind_locat.publ_tr.nat.2	[0,1]
	ind_locat.publ_t	Individual location: closure of	Population-weighted average of region-	
	r.reg.ave.2	public transportation (Regional)	specific values of	[0.4]
	0.1.0	<u> </u>	ind_locat.publ_tr.reg.2	[0,1]
Clo	sure of places of		Ta	<u> </u>
	places.all.tot.av	Closures of places of human	Population-weighted average of region-	
	e.2	congregation: all components	specific values of places.all.tot.2	
		(Both levels)		[0,1]
	places.all.nat.av	Closures of places of human	Population-weighted average of region-	
	e.2	congregation: all components	specific values of places.all.nat.2	
		(National)		[0,1]
	places.all.reg.av	Closures of places of human	Population-weighted average of region-	
	e.2	congregation: all components	specific values of places.all.reg.2	
		(Regional)		[0,1]
	places.gov_offs.	Closures of places of human	Population-weighted average of region-	
	tot.ave.2	congregation: closure of	specific values of places.gov_offs.tot.2	
		government offices (Both levels)		[0,1]
	places.gov_offs.	Closures of places of human	Population-weighted average of region-	
	nat.ave.2	congregation: closure of	specific values of places.gov_offs.nat.2	
		government offices (National)		[0,1]
	places.gov_offs.	Closures of places of human	Population-weighted average of region-	
	reg.ave.2	congregation: closure of	specific values of places.gov_offs.reg.2	
		government offices (Regional)		[0,1]
	places.ne_busn.	Closures of places of human	Population-weighted average of region-	
	tot.ave.2	congregation: closure of non-	specific values of places.ne_busn.tot.2	
		essential businesses (Both levels)		[0,1]
	places.ne_busn.	Closures of places of human	Population-weighted average of region-	
	nat.ave.2	congregation: closure of non-	specific values of places.ne_busn.nat.2	
		essential businesses (National)		[0,1]
	places.ne_busn.	Closures of places of human	Population-weighted average of region-	
	reg.ave.2	congregation: closure of non-	specific values of places.ne_busn.reg.2	
		essential businesses (Regional)		[0,1]
	places.restrts.to	Closures of places of human	Population-weighted average of region-	
	t.ave.2	congregation: closure of	specific values of places.restrts.tot.2	
		restaurants (Both levels)		[0,1]

	places.restrts.na	Closures of places of human	Population-weighted average of region-	
	t.ave.2	congregation: closure of	specific values of places.restrts.nat.2	
		restaurants (National)	·	[0,1]
	places.restrts.re	Closures of places of human	Population-weighted average of region-	
	g.ave.2	congregation: closure of	specific values of places.restrts.reg.2	
		restaurants (Regional)		[0,1]
	places.venues.t	Closures of places of human	Population-weighted average of region-	
	ot.ave.2	congregation: closure of venues of	specific values of places.venues.tot.2	
		entertainment and leisure (Both	·	
		levels)		[0,1]
	places.venues.n	Closures of places of human	Population-weighted average of region-	
	at.ave.2	congregation: closure of venues of	specific values of places.venues.nat.2	
		entertainment and leisure		
		(National)		[0,1]
	places.venues.re	Closures of places of human	Population-weighted average of region-	[-7]
	g.ave.2	congregation: closure of venues of	specific values of places.venues.reg.2	
	8.0.10.2	entertainment and leisure	openine range or process circumstrates	
		(Regional)		[0,1]
	places.wfh.tot.a	Closures of places of human	Population-weighted average of region-	[-7-]
	ve.2	congregation: working from home	specific values of places.wfh.tot.2	
		requirement (Both levels)	specific values of places.will.com	[0,1]
	places.wfh.nat.a	Closures of places of human	Population-weighted average of region-	[-7-]
	ve.2	congregation: working from home	specific values of places.wfh.nat.2	
		requirement (National)	specific values of places.willing.iz	[0,1]
	places.wfh.reg.a	Closures of places of human	Population-weighted average of region-	[0)1]
	ve.2	congregation: working from home	specific values of places.wfh.reg.2	
	VC.2	requirement (Regional)	specific values of places.wiffineg.2	[0,1]
Scho	ools and social g			[[-/-]
	soc_and_schls.al	Closure of schools and restrictions	Population-weighted average of region-	
	l.tot.ave.2	on social gatherings: all	specific values of	
		components (Both levels)	soc and schls.all.tot.2	[0,1]
	soc_and_schls.al	Closure of schools and restrictions	Population-weighted average of region-	[0,1]
	I.nat.ave.2	on social gatherings: all	specific values of	
	illaciave.2	components (National)	soc_and_schls.all.nat.2	[0,1]
	soc and schls.al	Closure of schools and restrictions	Population-weighted average of region-	[0]_]
	l.reg.ave.2	on social gatherings: all	specific values of	
	111 05.4 4 0.2	components (Regional)	soc_and_schls.all.reg.2	[0,1]
	soc and schls.s	Closure of schools and restrictions	Population-weighted average of region-	[0,1]
	chools.tot.ave.2	on social gatherings: closure of	specific values of	
	C110013.t0t.avc.2	schools (Both levels)	soc_and_schls.schools.tot.2	[0,1]
	soc_and_schls.s	Closure of schools and restrictions	Population-weighted average of region-	[0,1]
	chools.nat.ave.2	on social gatherings: closure of	specific values of	
	ciioois.iidt.ave.Z	schools (National)	soc_and_schls.schools.nat.2	[0,1]
-	soc and schlar	Closure of schools and restrictions		[0,1]
	soc_and_schls.s		Population-weighted average of region- specific values of	
	chools.reg.ave.2	on social gatherings: closure of	soc_and_schls.schools.reg.2	[0 1]
		schools (Regional)	SUC_and_SCHIS.SCHUUIS.Feg.Z	[0,1]

	soc_and_schls.s	Closure of schools and restrictions	Population-weighted average of region-	
	oc_gath.tot.ave.	on social gatherings: limits on size	specific values of	
	2	of social gatherings (Both levels)	soc_and_schls.soc_gath.tot.2	[0,1]
	soc_and_schls.s	Closure of schools and restrictions	Population-weighted average of region-	
	oc_gath.nat.ave.	on social gatherings: limits on size	specific values of	
	2	of social gatherings (National)	soc_and_schls.soc_gath.nat.2	[0,1]
	soc_and_schls.s	Closure of schools and restrictions	Population-weighted average of region-	
	oc_gath.reg.ave.	on social gatherings: limits on size	specific values of	
	2	of social gatherings (Regional)	soc_and_schls.soc_gath.reg.2	[0,1]
Me	edical mandate:			
	med_mandate.a	Medical mandate: all components	Population-weighted average of region-	
	II.tot.ave.2	(Both levels)	specific values of	
			med_mandate.all.tot.2	[0,1]
	med_mandate.a	Medical mandate: all components	Population-weighted average of region-	
	II.nat.ave.2	(National)	specific values of	
			med_mandate.all.nat.2	[0,1]
	med_mandate.a	Medical mandate: all components	Population-weighted average of region-	
	II.reg.ave.2	(Regional)	specific values of	
			med_mandate.all.reg.2	[0,1]
	med_mandate.d	Medical mandate: social	Population-weighted average of region-	
	ist_mand.tot.av	distancing mandates (Both levels)	specific values of	
	e.2		med_mandate.dist_mand.tot.2	[0,1]
	med_mandate.d	Medical mandate: social	Population-weighted average of region-	
	ist_mand.nat.av	distancing mandates (National)	specific values of	
	e.2		med_mandate.dist_mand.nat.2	[0,1]
	med_mandate.d	Medical mandate: social	Population-weighted average of region-	
	ist_mand.reg.av	distancing mandates (Regional)	specific values of	
	e.2		med_mandate.dist_mand.reg.2	[0,1]
	med_mandate.	Medical mandate: mandatory	Population-weighted average of region-	
	masks.tot.ave.2	wearing of personal protective	specific values of	
		equipment (Both levels)	med_mandate.masks.tot.2	[0,1]
	med_mandate.	Medical mandate: mandatory	Population-weighted average of region-	
	masks.nat.ave.2	wearing of personal protective	specific values of	
		equipment (National)	med_mandate.masks.nat.2	[0,1]
	med_mandate.	Medical mandate: mandatory	Population-weighted average of region-	
	masks.reg.ave.2	wearing of personal protective	specific values of	
		equipment (Regional)	med_mandate.masks.reg.2	[0,1]

# Sub-national level Protective Policy Indices by Method 2 (PPI-M2-R)

	Variable name	Description	Construction	Range
Cas	e Identification var	iables:		
	cname	Country name		
	isocode	ISO 3166 country code		
	isoabbr	country abbreviation according		
		to ISO 3166		

	state_province	the name of the administrative		
		division where the policy		
		applies		
	iso_state	ISO 3166 code of the		
	_	administrative division where		
		the policy applies		
	date	date		
Pro	tective Policy Inde	Method 1 (PPI-M2) calculated varia	ables:	•
	ppi.all.tot.2	Protective Policy Index (Both	(8*borders.all.tot.2+3*emerg.all.tot.2+	
		levels)	20*ind_locat.all.tot.2+16*places.all.tot.	
			2+16*soc_and_schls.all.tot.2+10*med_	
			mandate.all.tot.2)/73	[0,1]
	ppi.all.nat.2	Protective Policy Index (National)	(8*borders.all.nat.2+3*emerg.all.nat.2+	
Ī			20*ind_locat.all.nat.2+16*places.all.nat	
			.2+16*soc_and_schls.all.nat.2+10*med	
			_mandate.all.nat.2)/73	[0,1]
	ppi.all.reg.2	Protective Policy Index (Regional)	(8*borders.all.reg.2+3*emerg.all.reg.2+	
		, , ,	20*ind locat.all.reg.2+16*places.all.reg	
			.2+16*soc_and_schls.all.reg.2+10*med	
			_mandate.all.reg.2)/73	[0,1]
Boi	rders:		· -	
	borders.all.tot.2	Border closures (Both levels)	max(borders.all.nat.2,borders.all.reg.2)	[0,1]
	borders.all.nat.2	Border closures (National)	max(borders.all.nat,borders.all.nat)	[0,1]
	borders.all.reg.2	Border closures (Regional)	max(borders.all.reg,borders.all.reg)	[0,1]
Sta	te of emergency:			
	emerg.all.tot.2	State of emergency (Both levels)	max(emerg.all.nat.2,emerg.all.reg.2)	[0,1]
	emerg.all.nat.2	State of emergency (National)	directly coded	[0,1]
	emerg.all.reg.2	State of emergency (Regional)	directly coded	[0,1]
Ind	lividual location	restrictions:		
	ind_locat.all.tot.	Individual location: all	(10*ind_locat.ind_mob.tot.2+4*ind_loc	
	2	components (Both levels)	at.med_quar.tot.2+2*ind_locat.med_st	
			ay.tot.2+4*ind_locat.publ_tr.tot.2)/20	[0,1]
	ind_locat.all.nat	Individual location: all	(10*ind_locat.ind_mob.nat.2+4*ind_lo	
	.2	components (National)	cat.med_quar.nat.2+2*ind_locat.med_	
			stay.nat.2+4*ind_locat.publ_tr.nat.2)/2	
			0	[0,1]
	ind_locat.all.reg.	Individual location: all	(10*ind_locat.ind_mob.reg.2+4*ind_lo	
	2	components (Regional)	cat.med_quar.reg.2+2*ind_locat.med_	
			stay.reg.2+4*ind_locat.publ_tr.reg.2)/2	
			0	[0,1]
	ind_locat.ind_m	Individual location: restricted	max(ind_locat.ind_mob.nat.2,ind_locat	
	ob.tot.2	individual mobility (Both levels)	.ind_mob.reg.2)	[0,1]
	ind_locat.ind_m	Individual location: restricted	directly coded	
	ob.nat.2	individual mobility (National)		[0,1]
	ind_locat.ind_m	Individual location: restricted	directly coded	
	ob.reg.2	individual mobility (Regional)		[0,1]

	ind locat mod	Individual location; mandaton;	may/ind locat mod guar nat 2 ind loc	
	ind_locat.med_	Individual location: mandatory	max(ind_locat.med_quar.nat.2,ind_loc	[0 1]
	quar.tot.2	quarantine (Both levels)	at.med_quar.reg.2) directly coded	[0,1]
	ind_locat.med_	Individual location: mandatory	directly coded	[0 1]
	quar.nat.2 ind locat.med	quarantine (National) Individual location: mandatory	directly coded	[0,1]
		,	directly coded	[0 1]
	quar.reg.2	quarantine (Regional)	manufinal lands mand above at 2 inch land	[0,1]
	ind_locat.med_s	Individual location: conditional	max(ind_locat.med_stay.nat.2,ind_loca	[0.4]
	tay.tot.2	self-isolation (Both levels)	t.med_stay.reg.2)	[0,1]
	ind_locat.med_s	Individual location: conditional	directly coded	[0.4]
	tay.nat.2	self-isolation (National)	Paralla and de	[0,1]
	ind_locat.med_s	Individual location: conditional	directly coded	[0.4]
	tay.reg.2	self-isolation (Regional)	/:	[0,1]
	ind_locat.publ_t	Individual location: closure of	max(ind_locat.publ_tr.nat.2,ind_locat.p	fo 41
	r.tot.2	public transportation (Both levels)	ubl_tr.reg.2)	[0,1]
	ind_locat.publ_t	Individual location: closure of	directly coded	
	r.nat.2	public transportation (National)		[0,1]
	ind_locat.publ_t	Individual location: closure of	directly coded	
	r.reg.2	public transportation (Regional)		[0,1]
Clo	sure of places of		T	1
	places.all.tot.2	Closures of places of human	(4*places.gov_offs.tot.2+4*places.ne_b	
		congregation: all components	usn.tot.2+4*places.restrts.tot.2+2*plac	
		(Both levels)	es.venues.tot.2+2*places.wfh.tot.2)/16	[0,1]
	places.all.nat.2	Closures of places of human	(4*places.gov_offs.nat.2+4*places.ne_	
		congregation: all components	busn.nat.2+4*places.restrts.nat.2+2*pl	
		(National)	aces.venues.nat.2+2*places.wfh.nat.2)/	
			16	[0,1]
	places.all.reg.2	Closures of places of human	(4*places.gov_offs.reg.2+4*places.ne_	
		congregation: all components	busn.reg.2+4*places.restrts.reg.2+2*pl	
		(Regional)	aces.venues.reg.2+2*places.wfh.reg.2)/	
			16	[0,1]
	places.gov_offs.	Closures of places of human	max(places.gov_offs.nat.2,places.gov_o	
	tot.2	congregation: closure of	ffs.reg.2)	
		government offices (Both levels)		[0,1]
	places.gov_offs.	Closures of places of human	directly coded	
	nat.2	congregation: closure of		
		government offices (National)		[0,1]
	places.gov_offs.	Closures of places of human	directly coded	
	reg.2	congregation: closure of		
		government offices (Regional)		[0,1]
	places.ne_busn.	Closures of places of human	max(places.ne_busn.nat.2,places.ne_b	
	tot.2	congregation: closure of non-	usn.reg.2)	
		essential businesses (Both levels)		[0,1]
	places.ne_busn.	Closures of places of human	directly coded	
	nat.2	congregation: closure of non-		
		essential businesses (National)		[0,1]

	places.ne_busn.	Closures of places of human	directly coded	
	reg.2	congregation: closure of non-	directly coded	
	168.2	essential businesses (Regional)		[0,1]
	places.restrts.to	Closures of places of human	max(places.restrts.nat.2,places.restrts.r	[0,1]
	t.2	congregation: closure of	eg.2)	
	t. <u>2</u>	restaurants (Both levels)	(6.2)	[0,1]
	places.restrts.na	Closures of places of human	directly coded	[0,1]
	t.2	congregation: closure of	directly coded	
	1.2	restaurants (National)		[0,1]
	places.restrts.re	Closures of places of human	directly coded	[0,1]
	g.2	congregation: closure of	directly coded	
	8.2	restaurants (Regional)		[0,1]
	places.venues.t	Closures of places of human	max(places.venues.nat.2,places.venues	[0,1]
	ot.2	congregation: closure of venues of	reg.2)	
	01.2	entertainment and leisure (Both	1.68.27	
		levels)		[0,1]
	places.venues.n	Closures of places of human	directly coded	[0,1]
	at.2	congregation: closure of venues of	directly coded	
	al.2	entertainment and leisure		
		(National)		[0,1]
	places.venues.re	Closures of places of human	directly coded	[0,1]
	•	congregation: closure of venues of	directly coded	
	g.2	entertainment and leisure		
				[0,1]
	places.wfh.tot.2	(Regional) Closures of places of human	max(places.wfh.nat.2,places.wfh.reg.2)	[U,1]
	places.wiii.tot.2	congregation: working from home	max(places.wm.nat.z,places.wm.reg.z)	
		requirement (Both levels)		[0,1]
	places.wfh.nat.2	Closures of places of human	directly coded	[0,1]
	places.wiii.ilat.2	congregation: working from home	directly coded	
		requirement (National)		[0,1]
	places.wfh.reg.2	Closures of places of human	directly coded	[0,1]
	places.will.reg.z	congregation: working from home	directly coded	
		requirement (Regional)		[0,1]
Sch	lools and social g			[0,1]
SCII	soc_and_schls.al	Closure of schools and restrictions	(8*soc_and_schls.schools.tot.2+8*soc_	
	l.tot.2	on social gatherings: all	and_schls.soc_gath.tot.2)/16	
	1.101.2	components (Both levels)	ana_3cm3.30c_gam.tot.2// 10	[0,1]
	soc and schls.al	Closure of schools and restrictions	(8*soc_and_schls.schools.nat.2+8*soc_	[0,1]
	l.nat.2	on social gatherings: all	and_schls.soc_gath.nat.2)/16	
	1.11dt.2		and_schis.soc_gath.nat.2//10	[0 1]
	soc and schls.al	components (National) Closure of schools and restrictions	(8*soc_and_schls.schools.reg.2+8*soc_	[0,1]
		on social gatherings: all	and_schls.soc_gath.reg.2)/16	
	l.reg.2		anu_sciiis.soc_gatii.feg.2]/10	[0 1]
	soc and schlar	components (Regional) Closure of schools and restrictions	may/sac and schleschaple not 2 and a	[0,1]
	soc_and_schls.s		max(soc_and_schls.schools.nat.2,soc_a	
	chools.tot.2	on social gatherings: closure of	nd_schls.schools.reg.2)	[0 1]
		schools (Both levels)		[0,1]

	soc_and_schls.s	Closure of schools and restrictions	directly coded	
	chools.nat.2	on social gatherings: closure of		
		schools (National)		[0,1]
	soc_and_schls.s	Closure of schools and restrictions	directly coded	
	chools.reg.2	on social gatherings: closure of		
		schools (Regional)		[0,1]
	soc_and_schls.s	Closure of schools and restrictions	max(soc_and_schls.soc_gath.nat.2,soc_	
	oc_gath.tot.2	on social gatherings: limits on size	and_schls.soc_gath.reg.2)	
		of social gatherings (Both levels)		[0,1]
	soc_and_schls.s	Closure of schools and restrictions	directly coded	
	oc_gath.nat.2	on social gatherings: limits on size		
		of social gatherings (National)		[0,1]
	soc_and_schls.s	Closure of schools and restrictions	directly coded	
	oc_gath.reg.2	on social gatherings: limits on size		
		of social gatherings (Regional)		[0,1]
Me	dical mandate:			
	med_mandate.a	Medical mandate: all components	(4*med_mandate.dist_mand.tot.2+6*	
	II.tot.2	(Both levels)	med_mandate.masks.tot.2)/10	[0,1]
	med_mandate.a	Medical mandate: all components	(4*med_mandate.dist_mand.nat.2+6*	
	II.nat.2	(National)	med_mandate.masks.nat.2)/10	[0,1]
	med_mandate.a	Medical mandate: all components	(4*med_mandate.dist_mand.reg.2+6*	
	II.reg.2	(Regional)	med_mandate.masks.reg.2)/10	[0,1]
	med_mandate.d	Medical mandate: social	max(med_mandate.dist_mand.nat.2,m	
	ist_mand.tot.2	distancing mandates (Both levels)	ed_mandate.dist_mand.reg.2)	[0,1]
	med_mandate.d	Medical mandate: social	directly coded	
	ist_mand.nat.2	distancing mandates (National)		[0,1]
	med_mandate.d	Medical mandate: social	directly coded	
	ist_mand.reg.2	distancing mandates (Regional)		[0,1]
	med_mandate.	Medical mandate: mandatory	max(med_mandate.masks.nat.2,med_	
	masks.tot.2	wearing of personal protective	mandate.masks.reg.2)	
		equipment (Both levels)		[0,1]
	med_mandate.	Medical mandate: mandatory	directly coded	
	masks.nat.2	wearing of personal protective		
		equipment (National)		[0,1]
	med_mandate.	Medical mandate: mandatory	directly coded	
	masks.reg.2	wearing of personal protective		
		equipment (Regional)		[0,1]

## **AUXILIARY FILE (Policy Announcements)**

**changes\_regions\_m1**: Stores information about the reports that brought about the changes in the active policies included in PPI\_regions\_ZZ\_m1 files

	Variable name	Description	Construction	Range				
Cas	Case Identification variables:							
	cname	Country name						
	isocode	ISO 3166 country code						
	isoabbr	country abbreviation according to ISO 3166						
	state_province	the name of the administrative division where the policy applies						
	iso_state	ISO 3166 code of the administrative division where the policy applies						
	date	date						
	dimension	policy dimension		{air_bord, land_bord, sea_bord, soc_gath, schools, emerg, venues, restrts, ne_busn, gov_offs, ind_mob, med_stay, wfh, publ_tr, masks}				
	subnational	binary indicator marking whether the change applies to the national or regional policies		{0,1}				
Ca	lculated case varia	llated case variables:						
	total_change	total change in the policy value from the preceding date	difference between the policy values on the given dimension in a given locale on the current date from the preceding date	[-1,1]				

Report variables:							
	branch	branch of government announcing the policy		{executive leadership, bureaucracy, legislative, judiciary, missing, other}			
	who	contains information on who announced the policy					
	institution	contains information on what institution announced the policy					
	report_date	the date of the report used to code the policy/policy announcement date					
	exportation_date	the date when the policy expires					
	report_change	the change in the policy value from the preceding date according to the report					