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

COVID-19 Policy Response Lab, 2022-3-22

#### 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 var	iables:		
	cname	Country name		
	isocode	ISO 3166 country code		
	isoabbr	country abbreviation according to ISO 3166		
	date	date		
Pro	tective Policy Index	x Method 1 (PPI-M1) calculated varia	bles:	
		Protective Policy Index (Both	Population-weighted average of region-	
	ppi.all.tot.ave	levels)	specific values of ppi.all.tot	[0,1]
	ppi.all.nat.ave	Protective Policy Index (National)	Population-weighted average of region- specific values of ppi.all.nat	[0,1]
			Population-weighted average of region-	
	ppi.all.reg.ave	Protective Policy Index (Regional)	specific values of ppi.all.reg	[0,1]
Boı	rders:	·	·	
	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-	
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-	[-7-]
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-	[0]1]
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-	[0,1]
rd.tot.ave	borders (Both levels)	specific values of borders.land bord.tot	[0,1]
Tu.tot.ave	borders (botti levels)	Population-weighted average of region-	[0,1]
harders land he	Border closures: closure of land	specific values of	
borders.land_bo rd.nat.ave		•	[0 1]
ru.nat.ave	borders (National)	borders.land_bord.nat	[0,1]
bordons land la	Border closures: closure of land	Population-weighted average of region-	
borders.land_bo		specific values of	[0.4]
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-	
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-	
d.reg.ave	borders (Regional)	specific values of borders.sea_bord.reg	[0,1]
State of emergency:			Γ
emerg.all.tot.av		Population-weighted average of region-	
е	State of emergency (Both levels)	specific values of emerg.all.tot	[0,1]
emerg.all.nat.av		Population-weighted average of region-	
е	State of emergency (National)	specific values of emerg.all.nat	[0,1]
emerg.all.reg.av		Population-weighted average of region-	
е	State of emergency (Regional)	specific values of emerg.all.reg	[0,1]
<b>Individual location</b>	restrictions:		
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-	
ave	components (Regional)	specific values of ind_locat.all.reg	[0,1]
	, ,	Population-weighted average of region-	. , ,
ind_locat.ind_m	Individual location: restricted	specific values of	
ob.tot.ave	individual mobility (Both levels)	ind_locat.ind_mob.tot	[0,1]
55.1511010	(2001)	Population-weighted average of region-	[-/-]
ind_locat.ind_m	Individual location: restricted	specific values of	
ob.nat.ave	individual mobility (National)	ind_locat.ind_mob.nat	[0,1]
OD.Hat.ave	marvidua mobility (National)	Population-weighted average of region-	[0,1]
ind_locat.ind_m	Individual location: restricted	specific values of	
ob.reg.ave	individual mobility (Regional)	ind_locat.ind_mob.reg	[0 1]
ob.ieg.ave	marviduai mobility (Regionai)	mu_ncat.mu_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]
	tay.tot.ave	Self-isolation (Both levels)	Population-weighted average of region-	[0,1]
	ind_locat.med_s	Individual location: conditional	specific values of	
	tay.nat.ave	self-isolation (National)	ind_locat.med_stay.nat	[0,1]
	tay.nat.ave	Self-isolation (National)	Population-weighted average of region-	[0,1]
	ind locat mod s	Individual location: conditional	specific values of	
	<pre>ind_locat.med_s tay.reg.ave</pre>	self-isolation (Regional)	ind_locat.med_stay.reg	[0,1]
	ind_locat.publ_t	Individual location: closure of	Population-weighted average of region-	[0,1]
	r.tot.ave	public transportation (Both levels)	specific values of ind_locat.publ_tr.tot	[0,1]
		Individual location: closure of		[0,1]
	ind_locat.publ_t		Population-weighted average of region-	[0 1]
	r.nat.ave	public transportation (National)	specific values of ind_locat.publ_tr.nat	[0,1]
	ind_locat.publ_t	Individual location: closure of	Population-weighted average of region-	[0 1]
OI.	r.reg.ave	public transportation (Regional)	specific values of ind_locat.publ_tr.reg	[0,1]
Clo	sure of places of	I	T	
	.1	Closures of places of human	Be a letter of the letter of t	
	places.all.tot.av	congregation: all components	Population-weighted average of region-	[0.4]
	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-	[0.4]
	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-	[0.4]
	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-	[0 4]
	tot.ave	government offices (Both levels)	specific values of places.gov_offs.tot	[0,1]
	.1	Closures of places of human	Be a letter of the letter of t	
	places.gov_offs.	congregation: closure of	Population-weighted average of region-	[0.4]
	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-	[0.4]
	reg.ave	government offices (Regional)	specific values of places.gov_offs.reg	[0,1]
		Closures of places of human		
	places.ne_busn.	congregation: closure of non-	Population-weighted average of region-	fo 41
	tot.ave	essential businesses (Both levels)	specific values of places.ne_busn.tot	[0,1]
		Closures of places of human		
	places.ne_busn.	congregation: closure of non-	Population-weighted average of region-	10.43
	nat.ave	essential businesses (National)	specific values of places.ne_busn.nat	[0,1]
		Closures of places of human		
	places.ne_busn.	congregation: closure of non-	Population-weighted average of region-	10.43
	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-	
	•	restaurants (National)	specific values of places.restrts.nat	[0 1]
	t.ave		specific values of places.restrts.flat	[0,1]
		Closures of places of human	Denulation weighted average of region	
	places.restrts.re	congregation: closure of	Population-weighted average of region-	[0.4]
	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		
	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		
	places.wfh.reg.a	congregation: working from home	Population-weighted average of region-	
	ve	requirement (Regional)	specific values of places.wfh.reg	[0,1]
Sch	ools and social g	•		
		Closure of schools and restrictions		
	soc_and_schls.al	on social gatherings: all	Population-weighted average of region-	
	I.tot.ave	components (Both levels)	specific values of soc_and_schls.all.tot	[0,1]
		Closure of schools and restrictions		
	soc_and_schls.al	on social gatherings: all	Population-weighted average of region-	
	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-	
	I.reg.ave	components (Regional)	specific values of soc_and_schls.all.reg	[0,1]
	i.i eg.ave	Closure of schools and restrictions	Population-weighted average of region-	[0,1]
	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]
	CHOOIS.LUL.AVE	Closure of schools and restrictions		[0,1]
	cae and cable a		Population-weighted average of region-	
	soc_and_schls.s	on social gatherings: closure of	specific values of	[0 4]
	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	[0.4]
	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-	
	e	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-	
	e	protective equipment (National)	specific values of masks.all.nat	[0,1]
	masks.all.reg.av	Mandatory wearing of personal	Population-weighted average of region-	
	e	protective equipment (Regional)	specific values of masks.all.reg	[0,1]

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

	Variable name Description Construction		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 Index	Method 1 (PPI-M1) calculated varia	bles:	
	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* 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]
Boı	rders:			
	borders.all.tot	Border closures: all components (Both levels)	(3*borders.air_bord.tot+3*borders.lan d_bord.tot+3*borders.sea_bord.tot)/9	[0,1]

1	borders.all.nat	Border closures: all components	(3*borders.air_bord.nat+3*borders.lan	
	borders.an.nat	(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	[0,1]
	borders.an.reg	(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_	[0,1]
	d.tot	borders (Both levels)	bord.reg)	[0,1]
	borders.air_bor	Border closures: closure of air	directly coded	[0,1]
	d.nat	borders (National)	an early coded	[0,1]
	borders.air_bor	Border closures: closure of air	directly coded	[-/-]
	d.reg	borders (Regional)		[0,1]
	borders.land_bo	Border closures: closure of land	max(borders.land_bord.nat,borders.lan	[-/-]
	rd.tot	borders (Both levels)	d_bord.reg)	[0,1]
	borders.land_bo	Border closures: closure of land	directly coded	[-/-]
	rd.nat	borders (National)		[0,1]
	borders.land_bo	Border closures: closure of land	directly coded	[-, ]
	rd.reg	borders (Regional)		[0,1]
	borders.sea_bor	Border closures: closure of sea	max(borders.sea_bord.nat,borders.sea	[-, ]
	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:		1	
	emerg.all.tot	State of emergency (Both levels)	max(emerg.all.nat,emerg.all.reg)	[0,1]
1	emerg.an.tot	State of efficigency (both levels)	max(emerg.an.mat,emerg.an.meg)	[[0,1]
			directly coded	
	emerg.all.nat	State of emergency (National)		[0,1]
Ind		State of emergency (National) State of emergency (Regional)	directly coded	[0,1]
Ind	emerg.all.nat emerg.all.reg	State of emergency (National) State of emergency (Regional)	directly coded	[0,1]
Ind	emerg.all.nat emerg.all.reg ividual location	State of emergency (National) State of emergency (Regional) restrictions:	directly coded directly coded	[0,1]
Ind	emerg.all.nat emerg.all.reg ividual location	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all	directly coded directly coded (5*ind_locat.ind_mob.tot+3*ind_locat.	[0,1]
Ind	emerg.all.nat emerg.all.reg ividual location	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all	directly coded directly coded (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/	[0,1]
Ind	emerg.all.nat emerg.all.reg  ividual location ind_locat.all.tot	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels)	directly coded directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10	[0,1]
Ind	emerg.all.nat emerg.all.reg  ividual location ind_locat.all.tot	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels) Individual location: all	directly coded directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10 (5*ind_locat.ind_mob.nat+3*ind_locat.	[0,1]
Ind	emerg.all.nat emerg.all.reg  ividual location ind_locat.all.tot	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels) Individual location: all	directly coded directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10 (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat)	[0,1]
Ind	emerg.all.nat emerg.all.reg ividual location ind_locat.all.tot ind_locat.all.nat	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels) Individual location: all components (National)	directly coded directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10 (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat) /10	[0,1]
Ind	emerg.all.nat emerg.all.reg ividual location ind_locat.all.tot ind_locat.all.nat	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels)  Individual location: all components (National)	directly coded directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10  (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat) /10  (5*ind_locat.ind_mob.reg+3*ind_locat.	[0,1]
Ind	emerg.all.nat emerg.all.reg ividual location ind_locat.all.tot ind_locat.all.nat	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels)  Individual location: all components (National)	directly coded directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10 (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat) /10 (5*ind_locat.ind_mob.reg+3*ind_locat. med_stay.reg+2*ind_locat.publ_tr.reg)	[0,1] [0,1] [0,1]
Ind	emerg.all.nat emerg.all.reg ividual location ind_locat.all.tot ind_locat.all.nat ind_locat.all.nat	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels)  Individual location: all components (National)  Individual location: all components (Regional)	directly coded directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10 (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat) /10 (5*ind_locat.ind_mob.reg+3*ind_locat. med_stay.reg+2*ind_locat.publ_tr.reg) /10 max(ind_locat.ind_mob.nat,ind_locat.i nd_mob.reg)	[0,1] [0,1] [0,1]
Ind	emerg.all.nat emerg.all.reg ividual location ind_locat.all.tot  ind_locat.all.nat  ind_locat.all.reg  ind_locat.all.reg	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels)  Individual location: all components (National)  Individual location: all components (Regional)	directly coded  directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10  (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat) /10  (5*ind_locat.ind_mob.reg+3*ind_locat. med_stay.reg+2*ind_locat.publ_tr.reg) /10  max(ind_locat.ind_mob.nat,ind_locat.i	[0,1] [0,1] [0,1] [0,1]
Ind	emerg.all.nat emerg.all.reg ividual location ind_locat.all.tot  ind_locat.all.nat  ind_locat.all.reg  ind_locat.ind_m ob.tot	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels)  Individual location: all components (National)  Individual location: all components (Regional)  Individual location: restricted individual mobility (Both levels)	directly coded directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10 (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat) /10 (5*ind_locat.ind_mob.reg+3*ind_locat. med_stay.reg+2*ind_locat.publ_tr.reg) /10 max(ind_locat.ind_mob.nat,ind_locat.i nd_mob.reg)	[0,1] [0,1] [0,1] [0,1]
Ind	emerg.all.nat emerg.all.reg ividual location ind_locat.all.tot  ind_locat.all.nat  ind_locat.all.reg  ind_locat.ind_m ob.tot ind_locat.ind_m	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels)  Individual location: all components (National)  Individual location: all components (Regional)  Individual location: restricted individual mobility (Both levels) Individual location: restricted	directly coded directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10 (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat) /10 (5*ind_locat.ind_mob.reg+3*ind_locat. med_stay.reg+2*ind_locat.publ_tr.reg) /10 max(ind_locat.ind_mob.nat,ind_locat.i nd_mob.reg)	[0,1] [0,1] [0,1] [0,1] [0,1]
Ind	emerg.all.nat emerg.all.reg ividual location ind_locat.all.tot  ind_locat.all.nat  ind_locat.all.reg  ind_locat.ind_m ob.tot ind_locat.ind_m ob.nat ind_locat.ind_m ob.neg	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels)  Individual location: all components (National)  Individual location: all components (Regional)  Individual location: restricted individual mobility (Both levels) Individual location: restricted individual mobility (National) Individual location: restricted individual mobility (Regional)	directly coded  directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10  (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat) /10  (5*ind_locat.ind_mob.reg+3*ind_locat. med_stay.reg+2*ind_locat.publ_tr.reg) /10  max(ind_locat.ind_mob.nat,ind_locat.i nd_mob.reg)  directly coded	[0,1] [0,1] [0,1] [0,1] [0,1]
Ind	emerg.all.nat emerg.all.reg ividual location i ind_locat.all.tot  ind_locat.all.nat  ind_locat.all.reg  ind_locat.ind_m ob.tot ind_locat.ind_m ob.nat ind_locat.ind_m	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels)  Individual location: all components (National)  Individual location: all components (Regional)  Individual location: restricted individual mobility (Both levels) Individual location: restricted individual mobility (National) Individual location: restricted	directly coded  directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10  (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat) /10  (5*ind_locat.ind_mob.reg+3*ind_locat. med_stay.reg+2*ind_locat.publ_tr.reg) /10  max(ind_locat.ind_mob.nat,ind_locat.i nd_mob.reg)  directly coded  max(ind_locat.med_stay.nat,ind_locat.	[0,1] [0,1] [0,1] [0,1] [0,1] [0,1]
Ind	emerg.all.nat emerg.all.reg ividual location i ind_locat.all.tot  ind_locat.all.reg  ind_locat.all.reg  ind_locat.ind_m ob.tot ind_locat.ind_m ob.nat ind_locat.ind_m ob.reg ind_locat.med_s tay.tot	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels)  Individual location: all components (National)  Individual location: all components (Regional)  Individual location: restricted individual mobility (Both levels) Individual location: restricted individual mobility (National) Individual location: restricted individual mobility (Regional) Individual mobility (Regional) Individual location: conditional self-isolation (Both levels)	directly coded  directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10  (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat) /10  (5*ind_locat.ind_mob.reg+3*ind_locat. med_stay.reg+2*ind_locat.publ_tr.reg) /10  max(ind_locat.ind_mob.nat,ind_locat.i nd_mob.reg)  directly coded  max(ind_locat.med_stay.nat,ind_locat. med_stay.reg)	[0,1] [0,1] [0,1] [0,1] [0,1] [0,1]
Ind	emerg.all.nat emerg.all.reg ividual location ind_locat.all.tot  ind_locat.all.nat  ind_locat.all.reg  ind_locat.ind_m ob.tot ind_locat.ind_m ob.nat ind_locat.ind_m ob.reg ind_locat.med_s	State of emergency (National) State of emergency (Regional) restrictions: Individual location: all components (Both levels)  Individual location: all components (National)  Individual location: all components (Regional)  Individual location: restricted individual mobility (Both levels) Individual mobility (National) Individual location: restricted individual mobility (National) Individual location: restricted individual mobility (Regional) Individual location: conditional	directly coded  directly coded  (5*ind_locat.ind_mob.tot+3*ind_locat. med_stay.tot+2*ind_locat.publ_tr.tot)/ 10  (5*ind_locat.ind_mob.nat+3*ind_locat. med_stay.nat+2*ind_locat.publ_tr.nat) /10  (5*ind_locat.ind_mob.reg+3*ind_locat. med_stay.reg+2*ind_locat.publ_tr.reg) /10  max(ind_locat.ind_mob.nat,ind_locat.i nd_mob.reg)  directly coded  max(ind_locat.med_stay.nat,ind_locat.	[0,1] [0,1] [0,1] [0,1] [0,1] [0,1] [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	
	r.nat	public transportation (National)		[0,1]
	ind_locat.publ_t	Individual location: closure of	directly coded	
	r.reg	public transportation (Regional)		[0,1]
Clo	sure of places of	<u> </u>		
	places.all.tot	Closures of places of human	(2*places.gov_offs.tot+2*places.ne_bu	
		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	
		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	
		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)	fo 41
		essential businesses (Both levels)		[0,1]
	places.ne_busn.	Closures of places of human	directly coded	
	nat	congregation: closure of non-		[0.4]
		essential businesses (National)		[0,1]
	places.ne_busn.	Closures of places of human	directly coded	
	reg	congregation: closure of non-		[0.4]
	.1	essential businesses (Regional)	and the second described and the second described as	[0,1]
	places.restrts.to	Closures of places of human	max(places.restrts.nat,places.restrts.re	
	t	congregation: closure of	g)	[0.4]
		restaurants (Both levels)	divo eth coo do d	[0,1]
	places.restrts.na	Closures of places of human	directly coded	
	t	congregation: closure of		[0 1]
	places restricts	restaurants (National)	directly coded	[0,1]
	places.restrts.re	Closures of places of human	directly coded	
	g	congregation: closure of		[0 1]
	nlacos vonues +	restaurants (Regional) Closures of places of human	may/places venues not places venues r	[0,1]
	places.venues.t	•	max(places.venues.nat,places.venues.r	[0 1]
	ot	congregation: closure of venues of	eg)	[0,1]

	entertainment and leisure (Both		
places.venues.n	levels)  Closures of places of human congregation: closure of venues of	directly coded	
	entertainment and leisure (National)		[0,1]
places.venues.re	Closures of places of human congregation: closure of venues of entertainment and leisure (Regional)	directly coded	[0,1]
places.wfh.tot	Closures of places of human congregation: working from home requirement (Both levels)	max(places.wfh.nat,places.wfh.reg)	[0,1]
places.wfh.nat	Closures of places of human congregation: working from home requirement (National)	directly coded	[0,1]
places.wfh.reg	Closures of places of human congregation: working from home requirement (Regional)	directly coded	[0,1]
hools and social g	atherings:		
soc_and_schls.al l.tot	Closure of schools and restrictions on social gatherings: all components (Both levels)	(4*soc_and_schls.schools.tot+4*soc_and_schls.soc_gath.tot)/8	[0,1]
soc_and_schls.al l.nat	Closure of schools and restrictions on social gatherings: all components (National)	(4*soc_and_schls.schools.nat+4*soc_a nd_schls.soc_gath.nat)/8	[0,1]
soc_and_schls.al l.reg	Closure of schools and restrictions on social gatherings: all components (Regional)	(4*soc_and_schls.schools.reg+4*soc_a nd_schls.soc_gath.reg)/8	[0,1]
soc_and_schls.s chools.tot	Closure of schools and restrictions on social gatherings: closure of schools (Both levels)	max(soc_and_schls.schools.nat,soc_an d_schls.schools.reg)	[0,1]
soc_and_schls.s chools.nat	Closure of schools and restrictions on social gatherings: closure of schools (National)	directly coded	[0,1]
soc_and_schls.s chools.reg	Closure of schools and restrictions on social gatherings: closure of schools (Regional)	directly coded	[0,1]
soc_and_schls.s oc_gath.tot	Closure of schools and restrictions on social gatherings: limits on size of social gatherings (Both levels)	max(soc_and_schls.soc_gath.nat,soc_a nd_schls.soc_gath.reg)	[0,1]
soc_and_schls.s oc_gath.nat	Closure of schools and restrictions on social gatherings: limits on size of social gatherings (National)	directly coded	[0,1]
soc_and_schls.s oc_gath.reg	Closure of schools and restrictions on social gatherings: limits on size of social gatherings (Regional)	directly coded	[0,1]

Per	Personal 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 mobility	0.80	Stay-at-home for all (no permission 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
		0.33	Self-isolation mandtd for exposure and travel
		0.00	No mandatory quarantines or self-isolation
ind_locat.publ_tr	Individual location: closure of public transportation	1.00	Public transportation closed (except emergency routes)
		0.00	Public transportation not closed
places.gov_offs		1.00	Government offices are closed

	Closures of places of 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
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		1.00	Lockdown (permission to exit home is
			required)

	Individual location:	0.80	Stay-at-home for all (no permission
	restricted individual		required
	mobility	0.40	Stay-at-home order just for specified groups
		0.10	No stay at home restrictions, curfew
		0.00	No stay at home or curfew restrictions
ind locat mod guar	Individual location:	1.00	Mandatory quarantine if
ind_locat.med_quar	mandatory quarantine	1.00	diagnosis/exposure/travel
	mandatory quarantine	0.50	Mandatory quarantine if diagnosis
		0.30	/exposure only
		0.25	Mandatory quarantine for diagnosis only
		0.00	Mandatory quarantine for diagnosis only  Mandatory quarantines not imposed
to delicate and atom	In all side of Landtine.		· · ·
ind_locat.med_stay	Individual location:	1.00	Self-isolation is mandated after exposure
	conditional self-isolation	0.00	and travel
		0.00	Self-isolation not mandated
ind_locat.publ_tr	Individual location: closure	1.00	Public transportation closed (except
	of public transportation	0.50	emergency routes)
		0.50	Public transportation limited to share of
		0.00	capacity/time
.1	Character for the const		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:	0.25	Nonessential businesses are closed
	closure of non-essential		(except curbside service/ outdoor
	businesses		construction)
		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 indoor
		0.25	Restaurants are opened, reduced indoor
		0.23	capacity
		0.00	Restaurants are fully open
places.venues	Closures of places of	1.00	Entertainment venues /stadiums are
	human congregation:		closed
	closure of venues of	0.50	Only outdoors entertainment venues are
	entertainment and leisure		open
		0.00	Entertainment venues /stadiums are open
places.wfh	Closures of places of	1.00	Working from home is required
	human congregation:	0.00	No work-from-home requirement
	working from home		·
	requirement		
soc_and_schls.schools		1.00	Full closure of K12 schools

	Closure of schools and	0.50	Partial closure of K12 schools
	restrictions on social	0.00	K12 schools are not required to closed
	gatherings: closure of		
	schools		
soc_and_schls.soc_gath	Closure of schools and	1.00	All social gatherings are prohibited
	restrictions on social	0.75	Gatherings of 10 and more people are
	gatherings: limits on size of		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
			business/organizations
		0.00	No safe distance mandate
med_mandate.masks	Medical mandate:	1.00	Mandatory wearing of masks/PPE except
	mandatory wearing of		at home
	personal protective	0.67	Mandatory wearing of masks/PPE indoors
	equipment	0.33	Mandatory wearing of masks/PPE for
			employees
		0.00	No PPE/masks mandate

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

	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		
	date	date		
Pro	tective Policy Index	Method 2 (PPI-M2) calculated varia	bles:	
	ppi.all.tot.ave.2	Protective Policy Index (Both levels)	Population-weighted average of region- specific values of ppi.all.tot.2	[0,1]
	ppi.all.nat.ave.2	Protective Policy Index (National)	Population-weighted average of region- specific values of ppi.all.nat.2	[0,1]
	ppi.all.reg.ave.2	Protective Policy Index (Regional)	Population-weighted average of region- specific values of ppi.all.reg.2	[0,1]
Boı	rders:			
	borders.all.tot.a ve.2	Border closures (Both levels)	Population-weighted average of region- 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]
tate of emergency:			T
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]
dividual 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	
		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	
		ind_locat.med_quar.nat.2	[0,1]
ind_locat.med_	Individual location: mandatory	Population-weighted average of region-	
quar.reg.ave.2	quarantine (Regional)	specific values of	
		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	
		ind_locat.med_stay.tot.2	[0,1]
ind_locat.med_s	Individual location: conditional	Population-weighted average of region-	
tay.nat.ave.2	self-isolation (National)	specific values of	
		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	
		ind_locat.med_stay.reg.2	[0,1]

	T	T		_
	ind_locat.publ_t	Individual location: closure of	Population-weighted average of region-	
	r.tot.ave.2	public transportation (Both levels)	specific values of	
			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	
			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	
		pasine transpertation (tregional)	ind_locat.publ_tr.reg.2	[0,1]
Clo	osure of places of	congregation:		[-/-]
	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	
l	C.2	(Both levels)	specific values of places.am.tot.2	[0,1]
-	places.all.nat.av	Closures of places of human	Population-weighted average of region-	[0,1]
	e.2	congregation: all components		
	e.2		specific values of places.all.nat.2	[0 4]
	mlaga - III	(National)	Deputation residents described and the first	[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	
	1144144612	essential businesses (National)	specific values of placesine_sustimutiz	[0,1]
	places.ne_busn.	Closures of places of human	Population-weighted average of region-	[0,1]
	reg.ave.2	congregation: closure of non-	specific values of places.ne busn.reg.2	
	reg.ave.z	essential businesses (Regional)	specific values of places.fie_busil.reg.2	[0 1]
			Demolation coniented eveness of marion	[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	[0.4]
		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	<u>.</u> .
		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.r	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.r	e Closures of places of human	Population-weighted average of region-	
g.ave.2	congregation: closure of venues of	specific values of places.venues.reg.2	
	entertainment and leisure		
	(Regional)		[0,1]
places.wfh.tot.a		Population-weighted average of region-	
ve.2	congregation: working from home	specific values of places.wfh.tot.2	
	requirement (Both levels)		[0,1]
places.wfh.nat.		Population-weighted average of region-	
ve.2	congregation: working from home	specific values of places.wfh.nat.2	
	requirement (National)		[0,1]
places.wfh.reg.	Closures of places of human	Population-weighted average of region-	
ve.2	congregation: working from home	specific values of places.wfh.reg.2	
	requirement (Regional)		[0,1]
Schools and social	gatherings:		
soc_and_schls.a		Population-weighted average of region-	
I.tot.ave.2	on social gatherings: all	specific values of	
	components (Both levels)	soc_and_schls.all.tot.2	[0,1]
soc_and_schls.a	Closure of schools and restrictions	Population-weighted average of region-	
I.nat.ave.2	on social gatherings: all	specific values of	
	components (National)	soc_and_schls.all.nat.2	[0,1]
soc_and_schls.a	Closure of schools and restrictions	Population-weighted average of region-	
I.reg.ave.2	on social gatherings: all	specific values of	
	components (Regional)	soc_and_schls.all.reg.2	[0,1]
soc_and_schls.s		Population-weighted average of region-	
chools.tot.ave.2		specific values of	
	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-	
chools.nat.ave.	on social gatherings: closure of	specific values of	
	schools (National)	soc_and_schls.schools.nat.2	[0,1]
soc_and_schls.s	Closure of schools and restrictions	Population-weighted average of region-	
chools.reg.ave.		specific values of	
	schools (Regional)	soc_and_schls.schools.reg.2	[0,1]
		Demolation contabted accounts of accion	1
soc_and_schls.s	Closure of schools and restrictions	Population-weighted average of region-	
soc_and_schls.s oc_gath.tot.ave		specific values of	
			[0,1]
oc_gath.tot.ave	on social gatherings: limits on size of social gatherings (Both levels)	specific values of	[0,1]
oc_gath.tot.ave	<ul> <li>on social gatherings: limits on size of social gatherings (Both levels)</li> <li>Closure of schools and restrictions</li> </ul>	specific values of 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.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	Medical 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	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		
	x Method 1 (PPI-M2) calculated varia		
ppi.all.tot.2	Protective Policy Index (Both levels)	(8*borders.all.tot.2+3*emerg.all.tot.2+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+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]
Borders:			
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]
State 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]
<b>Individual location</b>	restrictions:		
ind_locat.all.tot. 2	Individual location: all components (Both levels)	(10*ind_locat.ind_mob.tot.2+4*ind_loc 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 .2	Individual location: all components (National)	(10*ind_locat.ind_mob.nat.2+4*ind_locat.med_quar.nat.2+2*ind_locat.med_stay.nat.2+4*ind_locat.publ_tr.nat.2)/2	[0,1]
ind_locat.all.reg. 2	Individual location: all components (Regional)	(10*ind_locat.ind_mob.reg.2+4*ind_locat.med_quar.reg.2+2*ind_locat.med_stay.reg.2+4*ind_locat.publ_tr.reg.2)/2	[0,1]
ind_locat.ind_m ob.tot.2	Individual location: restricted individual mobility (Both levels)	max(ind_locat.ind_mob.nat.2,ind_locat .ind_mob.reg.2)	[0,1]
ind_locat.ind_m ob.nat.2	Individual location: restricted individual mobility (National)	directly coded	[0,1]
ind_locat.ind_m ob.reg.2 ind_locat.med_	Individual location: restricted individual mobility (Regional) Individual location: mandatory	directly coded  max(ind_locat.med_quar.nat.2,ind_loc	[0,1]
quar.tot.2 ind_locat.med_	quarantine (Both levels) Individual location: mandatory	at.med_quar.reg.2) directly coded	[0,1]
quar.nat.2 ind_locat.med_	quarantine (National) Individual location: mandatory	directly coded	[0,1]
quar.reg.2	quarantine (Regional)		[0,1]

	ind locat mod s	Individual location: conditional	may/ind locat mod stay nat 2 ind loca	
	ind_locat.med_s	self-isolation (Both levels)	max(ind_locat.med_stay.nat.2,ind_loca	[0 1]
	tay.tot.2	Individual location: conditional	t.med_stay.reg.2) directly coded	[0,1]
	ind_locat.med_s	self-isolation (National)	directly coded	[0 1]
	tay.nat.2 ind_locat.med_s	Individual location: conditional	directly coded	[0,1]
			directly coded	[0 1]
	tay.reg.2	self-isolation (Regional)	manufined least with twinet 2 and least w	[0,1]
	ind_locat.publ_t	Individual location: closure of	max(ind_locat.publ_tr.nat.2,ind_locat.p	[0.4]
	r.tot.2	public transportation (Both levels)	ubl_tr.reg.2)	[0,1]
	<pre>ind_locat.publ_t r.nat.2</pre>	Individual location: closure of	directly coded	[0.4]
		public transportation (National)	dina akh ya a da d	[0,1]
	ind_locat.publ_t	Individual location: closure of	directly coded	[0.4]
	r.reg.2	public transportation (Regional)		[0,1]
Clo	sure of places of		I can be seen as an in-	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-		
		essential businesses (Regional)		[0,1]
	places.restrts.to	Closures of places of human	max(places.restrts.nat.2,places.restrts.r	
	t.2	congregation: closure of	eg.2)	
		restaurants (Both levels)		[0,1]

	places.restrts.na	Closures of places of human	directly coded	
	t.2	congregation: closure of	,	
		restaurants (National)		[0,1]
	places.restrts.re	Closures of places of human	directly coded	
	g.2	congregation: closure of	,	
		restaurants (Regional)		[0,1]
	places.venues.t	Closures of places of human	max(places.venues.nat.2,places.venues	
	ot.2	congregation: closure of venues of	.reg.2)	
		entertainment and leisure (Both		
		levels)		[0,1]
	places.venues.n	Closures of places of human	directly coded	
	at.2	congregation: closure of venues of		
		entertainment and leisure		
		(National)		[0,1]
	places.venues.re	Closures of places of human	directly coded	
	g.2	congregation: closure of venues of		
		entertainment and leisure		
		(Regional)		[0,1]
	places.wfh.tot.2	Closures of places of human	max(places.wfh.nat.2,places.wfh.reg.2)	
		congregation: working from home		
		requirement (Both levels)		[0,1]
	places.wfh.nat.2	Closures of places of human	directly coded	
		congregation: working from home		
		requirement (National)		[0,1]
	places.wfh.reg.2	Closures of places of human	directly coded	
		congregation: working from home		
		requirement (Regional)		[0,1]
Sch	ools and social g			T
	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	
		components (Both levels)		[0,1]
	soc_and_schls.al	Closure of schools and restrictions	(8*soc_and_schls.schools.nat.2+8*soc_	
	l.nat.2	on social gatherings: all	and_schls.soc_gath.nat.2)/16	
		components (National)		[0,1]
	soc_and_schls.al	Closure of schools and restrictions	(8*soc_and_schls.schools.reg.2+8*soc_	
	l.reg.2	on social gatherings: all	and_schls.soc_gath.reg.2)/16	
		components (Regional)		[0,1]
	soc_and_schls.s	Closure of schools and restrictions	max(soc_and_schls.schools.nat.2,soc_a	
	chools.tot.2	on social gatherings: closure of	nd_schls.schools.reg.2)	[ [ ]
		schools (Both levels)		[0,1]
	soc_and_schls.s	Closure of schools and restrictions	directly coded	
	chools.nat.2	on social gatherings: closure of		[0.43
	,	schools (National)		[0,1]
	soc_and_schls.s	Closure of schools and restrictions	directly coded	
	chools.reg.2	on social gatherings: closure of		[0.4]
		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]

**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	e Identification varia	ables:		
	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		{0,1}
	Submunoman	whether the change applies to the		(0,1)
		national or regional policies		
Cal	lculated case varia			
	total_change	total change in the policy value	difference between the	[-1,1]
		from the preceding date	policy values on the given	
			dimension in a given locale	
			on the current date from the	
			preceding date	
Rej	port variables:			
	branch	branch of government		{executive
		announcing the policy		leadership,
				bureaucracy,
				legislative,
				judiciary,

		missing, other}
who	contains information on who	
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	
source_link	the link to the source of the data	