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

COVID-19 Policy Response Lab, 2022-1-31

**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 |
| **Case Identification variables:** | | | | |
|  | cname | Country name |  |  |
|  | isocode | ISO 3166 country code |  |  |
|  | isoabbr | country abbreviation according to ISO 3166 |  |  |
|  | date | date |  |  |
| **Protective Policy Index Method 1 (PPI-M1) calculated variables:** | | | | |
|  | ppi.all.tot.ave | Protective Policy Index (Both levels) | Population-weighted average of region-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] |
|  | ppi.all.reg.ave | Protective Policy Index (Regional) | Population-weighted average of region-specific values of ppi.all.reg | [0,1] |
| **Borders:** | | | | |
|  | borders.all.tot.ave | Border closures: all components (Both levels) | Population-weighted average of region-specific values of borders.all.tot | [0,1] |
|  | borders.all.nat.ave | Border closures: all components (National) | Population-weighted average of region-specific values of borders.all.nat | [0,1] |
|  | borders.all.reg.ave | Border closures: all components (Regional) | Population-weighted average of region-specific values of borders.all.reg | [0,1] |
|  | borders.air\_bord.tot.ave | Border closures: closure of air borders (Both levels) | Population-weighted average of region-specific values of borders.air\_bord.tot | [0,1] |
|  | borders.air\_bord.nat.ave | Border closures: closure of air borders (National) | Population-weighted average of region-specific values of borders.air\_bord.nat | [0,1] |
|  | borders.air\_bord.reg.ave | Border closures: closure of air borders (Regional) | Population-weighted average of region-specific values of borders.air\_bord.reg | [0,1] |
|  | borders.land\_bord.tot.ave | Border closures: closure of land borders (Both levels) | Population-weighted average of region-specific values of borders.land\_bord.tot | [0,1] |
|  | borders.land\_bord.nat.ave | Border closures: closure of land borders (National) | Population-weighted average of region-specific values of borders.land\_bord.nat | [0,1] |
|  | borders.land\_bord.reg.ave | Border closures: closure of land borders (Regional) | Population-weighted average of region-specific values of borders.land\_bord.reg | [0,1] |
|  | borders.sea\_bord.tot.ave | Border closures: closure of sea borders (Both levels) | Population-weighted average of region-specific values of borders.sea\_bord.tot | [0,1] |
|  | borders.sea\_bord.nat.ave | Border closures: closure of sea borders (National) | Population-weighted average of region-specific values of borders.sea\_bord.nat | [0,1] |
|  | borders.sea\_bord.reg.ave | Border closures: closure of sea borders (Regional) | Population-weighted average of region-specific values of borders.sea\_bord.reg | [0,1] |
| **State of emergency:** | | | | |
|  | emerg.all.tot.ave | State of emergency (Both levels) | Population-weighted average of region-specific values of emerg.all.tot | [0,1] |
|  | emerg.all.nat.ave | State of emergency (National) | Population-weighted average of region-specific values of emerg.all.nat | [0,1] |
|  | emerg.all.reg.ave | State of emergency (Regional) | Population-weighted average of region-specific values of emerg.all.reg | [0,1] |
| **Individual location restrictions:** | | | | |
|  | ind\_locat.all.tot.ave | Individual location: all components (Both levels) | Population-weighted average of region-specific values of ind\_locat.all.tot | [0,1] |
|  | ind\_locat.all.nat.ave | Individual location: all components (National) | Population-weighted average of region-specific values of ind\_locat.all.nat | [0,1] |
|  | ind\_locat.all.reg.ave | Individual location: all components (Regional) | Population-weighted average of region-specific values of ind\_locat.all.reg | [0,1] |
|  | ind\_locat.ind\_mob.tot.ave | Individual location: restricted individual mobility (Both levels) | Population-weighted average of region-specific values of ind\_locat.ind\_mob.tot | [0,1] |
|  | ind\_locat.ind\_mob.nat.ave | Individual location: restricted individual mobility (National) | Population-weighted average of region-specific values of ind\_locat.ind\_mob.nat | [0,1] |
|  | ind\_locat.ind\_mob.reg.ave | Individual location: restricted individual mobility (Regional) | Population-weighted average of region-specific values of ind\_locat.ind\_mob.reg | [0,1] |
|  | ind\_locat.med\_stay.tot.ave | Individual location: conditional self-isolation (Both levels) | Population-weighted average of region-specific values of ind\_locat.med\_stay.tot | [0,1] |
|  | ind\_locat.med\_stay.nat.ave | Individual location: conditional self-isolation (National) | Population-weighted average of region-specific values of ind\_locat.med\_stay.nat | [0,1] |
|  | ind\_locat.med\_stay.reg.ave | Individual location: conditional self-isolation (Regional) | Population-weighted average of region-specific values of ind\_locat.med\_stay.reg | [0,1] |
|  | ind\_locat.publ\_tr.tot.ave | Individual location: closure of public transportation (Both levels) | Population-weighted average of region-specific values of ind\_locat.publ\_tr.tot | [0,1] |
|  | ind\_locat.publ\_tr.nat.ave | Individual location: closure of public transportation (National) | Population-weighted average of region-specific values of ind\_locat.publ\_tr.nat | [0,1] |
|  | ind\_locat.publ\_tr.reg.ave | Individual location: closure of public transportation (Regional) | Population-weighted average of region-specific values of ind\_locat.publ\_tr.reg | [0,1] |
| **Closure of places of congregation:** | | | | |
|  | places.all.tot.ave | Closures of places of human congregation: all components (Both levels) | Population-weighted average of region-specific values of places.all.tot | [0,1] |
|  | places.all.nat.ave | Closures of places of human congregation: all components (National) | Population-weighted average of region-specific values of places.all.nat | [0,1] |
|  | places.all.reg.ave | Closures of places of human congregation: all components (Regional) | Population-weighted average of region-specific values of places.all.reg | [0,1] |
|  | places.gov\_offs.tot.ave | Closures of places of human congregation: closure of government offices (Both levels) | Population-weighted average of region-specific values of places.gov\_offs.tot | [0,1] |
|  | places.gov\_offs.nat.ave | Closures of places of human congregation: closure of government offices (National) | Population-weighted average of region-specific values of places.gov\_offs.nat | [0,1] |
|  | places.gov\_offs.reg.ave | Closures of places of human congregation: closure of government offices (Regional) | Population-weighted average of region-specific values of places.gov\_offs.reg | [0,1] |
|  | places.ne\_busn.tot.ave | Closures of places of human congregation: closure of non-essential businesses (Both levels) | Population-weighted average of region-specific values of places.ne\_busn.tot | [0,1] |
|  | places.ne\_busn.nat.ave | Closures of places of human congregation: closure of non-essential businesses (National) | Population-weighted average of region-specific values of places.ne\_busn.nat | [0,1] |
|  | places.ne\_busn.reg.ave | Closures of places of human congregation: closure of non-essential businesses (Regional) | Population-weighted average of region-specific values of places.ne\_busn.reg | [0,1] |
|  | places.restrts.tot.ave | Closures of places of human congregation: closure of restaurants (Both levels) | Population-weighted average of region-specific values of places.restrts.tot | [0,1] |
|  | places.restrts.nat.ave | Closures of places of human congregation: closure of restaurants (National) | Population-weighted average of region-specific values of places.restrts.nat | [0,1] |
|  | places.restrts.reg.ave | Closures of places of human congregation: closure of restaurants (Regional) | Population-weighted average of region-specific values of places.restrts.reg | [0,1] |
|  | places.venues.tot.ave | Closures of places of human congregation: closure of venues of entertainment and leisure (Both levels) | Population-weighted average of region-specific values of places.venues.tot | [0,1] |
|  | places.venues.nat.ave | Closures of places of human congregation: closure of venues of entertainment and leisure (National) | Population-weighted average of region-specific values of places.venues.nat | [0,1] |
|  | places.venues.reg.ave | Closures of places of human congregation: closure of venues of entertainment and leisure (Regional) | Population-weighted average of region-specific values of places.venues.reg | [0,1] |
|  | places.wfh.tot.ave | Closures of places of human congregation: working from home requirement (Both levels) | Population-weighted average of region-specific values of places.wfh.tot | [0,1] |
|  | places.wfh.nat.ave | Closures of places of human congregation: working from home requirement (National) | Population-weighted average of region-specific values of places.wfh.nat | [0,1] |
|  | places.wfh.reg.ave | Closures of places of human congregation: working from home requirement (Regional) | Population-weighted average of region-specific values of places.wfh.reg | [0,1] |
| **Schools and social gatherings:** | | | | |
|  | soc\_and\_schls.all.tot.ave | Closure of schools and restrictions on social gatherings: all components (Both levels) | Population-weighted average of region-specific values of soc\_and\_schls.all.tot | [0,1] |
|  | soc\_and\_schls.all.nat.ave | Closure of schools and restrictions on social gatherings: all components (National) | Population-weighted average of region-specific values of soc\_and\_schls.all.nat | [0,1] |
|  | soc\_and\_schls.all.reg.ave | Closure of schools and restrictions on social gatherings: all components (Regional) | Population-weighted average of region-specific values of soc\_and\_schls.all.reg | [0,1] |
|  | soc\_and\_schls.schools.tot.ave | Closure of schools and restrictions on social gatherings: closure of schools (Both levels) | Population-weighted average of region-specific values of soc\_and\_schls.schools.tot | [0,1] |
|  | soc\_and\_schls.schools.nat.ave | Closure of schools and restrictions on social gatherings: closure of schools (National) | Population-weighted average of region-specific values of soc\_and\_schls.schools.nat | [0,1] |
|  | soc\_and\_schls.schools.reg.ave | Closure of schools and restrictions on social gatherings: closure of schools (Regional) | Population-weighted average of region-specific values of soc\_and\_schls.schools.reg | [0,1] |
|  | soc\_and\_schls.soc\_gath.tot.ave | Closure of schools and restrictions on social gatherings: limits on size of social gatherings (Both levels) | Population-weighted average of region-specific values of soc\_and\_schls.soc\_gath.tot | [0,1] |
|  | soc\_and\_schls.soc\_gath.nat.ave | Closure of schools and restrictions on social gatherings: limits on size of social gatherings (National) | Population-weighted average of region-specific values of soc\_and\_schls.soc\_gath.nat | [0,1] |
|  | soc\_and\_schls.soc\_gath.reg.ave | Closure of schools and restrictions on social gatherings: limits on size of social gatherings (Regional) | Population-weighted average of region-specific values of soc\_and\_schls.soc\_gath.reg | [0,1] |
| **Personal protective equipment:** | | | | |
|  | masks.all.tot.ave | Mandatory wearing of personal protective equipment (Both levels) | Population-weighted average of region-specific values of masks.all.tot | [0,1] |
|  | masks.all.nat.ave | Mandatory wearing of personal protective equipment (National) | Population-weighted average of region-specific values of masks.all.nat | [0,1] |
|  | masks.all.reg.ave | Mandatory wearing of personal protective equipment (Regional) | Population-weighted average of region-specific values of masks.all.reg | [0,1] |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Variable name | Description | Construction | Range |
| **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 |  |  |
| **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\*ind\_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\*soc\_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] |
| **Borders:** | | | | |
|  | borders.all.tot | Border closures: all components (Both levels) | (3\*borders.air\_bord.tot+3\*borders.land\_bord.tot+3\*borders.sea\_bord.tot)/9 | [0,1] |
|  | borders.all.nat | Border closures: all components (National) | (3\*borders.air\_bord.nat+3\*borders.land\_bord.nat+3\*borders.sea\_bord.nat)/9 | [0,1] |
|  | borders.all.reg | Border closures: all components (Regional) | (3\*borders.air\_bord.reg+3\*borders.land\_bord.reg+3\*borders.sea\_bord.reg)/9 | [0,1] |
|  | borders.air\_bord.tot | Border closures: closure of air borders (Both levels) | max(borders.air\_bord.nat,borders.air\_bord.reg) | [0,1] |
|  | borders.air\_bord.nat | Border closures: closure of air borders (National) | directly coded | [0,1] |
|  | borders.air\_bord.reg | Border closures: closure of air borders (Regional) | directly coded | [0,1] |
|  | borders.land\_bord.tot | Border closures: closure of land borders (Both levels) | max(borders.land\_bord.nat,borders.land\_bord.reg) | [0,1] |
|  | borders.land\_bord.nat | Border closures: closure of land borders (National) | directly coded | [0,1] |
|  | borders.land\_bord.reg | Border closures: closure of land borders (Regional) | directly coded | [0,1] |
|  | borders.sea\_bord.tot | Border closures: closure of sea borders (Both levels) | max(borders.sea\_bord.nat,borders.sea\_bord.reg) | [0,1] |
|  | borders.sea\_bord.nat | Border closures: closure of sea borders (National) | directly coded | [0,1] |
|  | borders.sea\_bord.reg | Border closures: closure of sea borders (Regional) | directly coded | [0,1] |
| **State 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] |
| **Individual location restrictions:** | | | | |
|  | ind\_locat.all.tot | Individual location: all components (Both levels) | (5\*ind\_locat.ind\_mob.tot+3\*ind\_locat.med\_stay.tot+2\*ind\_locat.publ\_tr.tot)/10 | [0,1] |
|  | ind\_locat.all.nat | Individual location: all components (National) | (5\*ind\_locat.ind\_mob.nat+3\*ind\_locat.med\_stay.nat+2\*ind\_locat.publ\_tr.nat)/10 | [0,1] |
|  | ind\_locat.all.reg | Individual location: all components (Regional) | (5\*ind\_locat.ind\_mob.reg+3\*ind\_locat.med\_stay.reg+2\*ind\_locat.publ\_tr.reg)/10 | [0,1] |
|  | ind\_locat.ind\_mob.tot | Individual location: restricted individual mobility (Both levels) | max(ind\_locat.ind\_mob.nat,ind\_locat.ind\_mob.reg) | [0,1] |
|  | ind\_locat.ind\_mob.nat | Individual location: restricted individual mobility (National) | directly coded | [0,1] |
|  | ind\_locat.ind\_mob.reg | Individual location: restricted individual mobility (Regional) | directly coded | [0,1] |
|  | ind\_locat.med\_stay.tot | Individual location: conditional self-isolation (Both levels) | max(ind\_locat.med\_stay.nat,ind\_locat.med\_stay.reg) | [0,1] |
|  | ind\_locat.med\_stay.nat | Individual location: conditional self-isolation (National) | directly coded | [0,1] |
|  | ind\_locat.med\_stay.reg | Individual location: conditional self-isolation (Regional) | directly coded | [0,1] |
|  | ind\_locat.publ\_tr.tot | Individual location: closure of public transportation (Both levels) | max(ind\_locat.publ\_tr.nat,ind\_locat.publ\_tr.reg) | [0,1] |
|  | ind\_locat.publ\_tr.nat | Individual location: closure of public transportation (National) | directly coded | [0,1] |
|  | ind\_locat.publ\_tr.reg | Individual location: closure of public transportation (Regional) | directly coded | [0,1] |
| **Closure of places of congregation:** | | | | |
|  | places.all.tot | Closures of places of human congregation: all components (Both levels) | (2\*places.gov\_offs.tot+2\*places.ne\_busn.tot+2\*places.restrts.tot+1\*places.venues.tot+1\*places.wfh.tot)/8 | [0,1] |
|  | places.all.nat | Closures of places of human congregation: all components (National) | (2\*places.gov\_offs.nat+2\*places.ne\_busn.nat+2\*places.restrts.nat+1\*places.venues.nat+1\*places.wfh.nat)/8 | [0,1] |
|  | places.all.reg | Closures of places of human congregation: all components (Regional) | (2\*places.gov\_offs.reg+2\*places.ne\_busn.reg+2\*places.restrts.reg+1\*places.venues.reg+1\*places.wfh.reg)/8 | [0,1] |
|  | places.gov\_offs.tot | Closures of places of human congregation: closure of government offices (Both levels) | max(places.gov\_offs.nat,places.gov\_offs.reg) | [0,1] |
|  | places.gov\_offs.nat | Closures of places of human congregation: closure of government offices (National) | directly coded | [0,1] |
|  | places.gov\_offs.reg | Closures of places of human congregation: closure of government offices (Regional) | directly coded | [0,1] |
|  | places.ne\_busn.tot | Closures of places of human congregation: closure of non-essential businesses (Both levels) | max(places.ne\_busn.nat,places.ne\_busn.reg) | [0,1] |
|  | places.ne\_busn.nat | Closures of places of human congregation: closure of non-essential businesses (National) | directly coded | [0,1] |
|  | places.ne\_busn.reg | Closures of places of human congregation: closure of non-essential businesses (Regional) | directly coded | [0,1] |
|  | places.restrts.tot | Closures of places of human congregation: closure of restaurants (Both levels) | max(places.restrts.nat,places.restrts.reg) | [0,1] |
|  | places.restrts.nat | Closures of places of human congregation: closure of restaurants (National) | directly coded | [0,1] |
|  | places.restrts.reg | Closures of places of human congregation: closure of restaurants (Regional) | directly coded | [0,1] |
|  | places.venues.tot | Closures of places of human congregation: closure of venues of entertainment and leisure (Both levels) | max(places.venues.nat,places.venues.reg) | [0,1] |
|  | places.venues.nat | Closures of places of human congregation: closure of venues of entertainment and leisure (National) | directly coded | [0,1] |
|  | places.venues.reg | 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] |
| **Schools and social gatherings:** | | | | |
|  | soc\_and\_schls.all.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.all.nat | Closure of schools and restrictions on social gatherings: all components (National) | (4\*soc\_and\_schls.schools.nat+4\*soc\_and\_schls.soc\_gath.nat)/8 | [0,1] |
|  | soc\_and\_schls.all.reg | Closure of schools and restrictions on social gatherings: all components (Regional) | (4\*soc\_and\_schls.schools.reg+4\*soc\_and\_schls.soc\_gath.reg)/8 | [0,1] |
|  | soc\_and\_schls.schools.tot | Closure of schools and restrictions on social gatherings: closure of schools (Both levels) | max(soc\_and\_schls.schools.nat,soc\_and\_schls.schools.reg) | [0,1] |
|  | soc\_and\_schls.schools.nat | Closure of schools and restrictions on social gatherings: closure of schools (National) | directly coded | [0,1] |
|  | soc\_and\_schls.schools.reg | Closure of schools and restrictions on social gatherings: closure of schools (Regional) | directly coded | [0,1] |
|  | soc\_and\_schls.soc\_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\_and\_schls.soc\_gath.reg) | [0,1] |
|  | soc\_and\_schls.soc\_gath.nat | Closure of schools and restrictions on social gatherings: limits on size of social gatherings (National) | directly coded | [0,1] |
|  | soc\_and\_schls.soc\_gath.reg | Closure of schools and restrictions on social gatherings: limits on size of social gatherings (Regional) | directly coded | [0,1] |
| **Personal protective equipment:** | | | | |
|  | masks.all.tot | Mandatory wearing of personal protective equipment (Both levels) | max(masks.all.nat,masks.all.reg) | [0,1] |
|  | masks.all.nat | Mandatory wearing of personal protective equipment (National) | directly coded | [0,1] |
|  | masks.all.reg | Mandatory wearing of personal protective equipment (Regional) | directly coded | [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 air borders | 1.00 | All air borders are closed |
| 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 land borders | 1.00 | All land borders are closed |
| 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 sea borders | 1.00 | All sea borders are closed |
| 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: restricted individual mobility | 1.00 | Lockdown (permission required |
| 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 | Closures of places of human congregation: closure of government offices | 1.00 | Government offices are closed |
| 0.00 | Government offices are open |
| places.ne\_busn | Closures of places of human congregation: closure of non-essential businesses | 1.00 | Nonessential businesses are closed |
| 0.00 | Nonessential businesses are open |
| places.restrts | Closures of places of human congregation: closure of restaurants | 1.00 | Restaurants are closed |
| 0.00 | Restaurants are open |
| places.venues | Closures of places of human congregation: closure of venues of entertainment and leisure | 1.00 | Entertainment venues /stadiums are closed |
| 0.00 | Entertainment venues /stadiums are open |
| places.wfh | Closures of places of human congregation: working from home requirement | 1.00 | Working from home is required |
| 0.00 | No work-from-home requirement |
| soc\_and\_schls.schools | Closure of schools and restrictions on social gatherings: closure of schools | 1.00 | Full closure of K12 schools |
| 0.50 | Partial closure of K12 schools |
| 0.00 | K12 schools are not required to closed |
| soc\_and\_schls.soc\_gath | Closure of schools and restrictions on social gatherings: limits on size of social gatherings | 1.00 | All social gatherings are prohibited |
| 0.75 | Gatherings of 10 and more people are prohibited |
| 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 personal protective equipment | 1.00 | Mandatory wearing of masks/PPE |
| 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 | Individual location: restricted individual mobility | 1.00 | Lockdown (permission to exit home is required) |
| 0.80 | Stay-at-home for all (no permission required |
| 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.med\_quar | Individual location: mandatory quarantine | 1.00 | Mandatory quarantine if 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: conditional self-isolation | 1.00 | Self-isolation is mandated after exposure and travel |
| 0.00 | Self-isolation not mandated |
| ind\_locat.publ\_tr | Individual location: closure of public transportation | 1.00 | Public transportation closed (except 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 human congregation: closure of government offices | 1.00 | Government offices are closed |
| 0.00 | Government offices are open |
| places.ne\_busn | Closures of places of human congregation: closure of non-essential businesses | 1.00 | Nonessential businesses are closed |
| 0.25 | Nonessential businesses are closed (except curbside service/ outdoor construction) |
| 0.00 | Nonessential businesses are open |
| places.restrts | Closures of places of human congregation: closure of restaurants | 1.00 | Restaurants are fully closed (except delivery and take-out) |
| 0.75 | Restaurants are opened for outdoor, not indoor |
| 0.25 | Restaurants are opened, reduced indoor capacity |
| 0.00 | Restaurants are fully open |
| places.venues | Closures of places of human congregation: closure of venues of entertainment and leisure | 1.00 | Entertainment venues /stadiums are closed |
| 0.50 | Only outdoors entertainment venues are open |
| 0.00 | Entertainment venues /stadiums are open |
| places.wfh | Closures of places of human congregation: working from home requirement | 1.00 | Working from home is required |
| 0.00 | No work-from-home requirement |
| soc\_and\_schls.schools | Closure of schools and restrictions on social gatherings: closure of schools | 1.00 | Full closure of K12 schools |
| 0.50 | Partial closure of K12 schools |
| 0.00 | K12 schools are not required to closed |
| soc\_and\_schls.soc\_gath | Closure of schools and restrictions on social gatherings: limits on size of social gatherings | 1.00 | All social gatherings are prohibited |
| 0.75 | Gatherings of 10 and more people are prohibited |
| 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 distancing mandates | 1.00 | Safe distance 1.5-2m outdoors and in public spaces |
| 0.50 | Safe distance 1.5-2m in business/organizations |
| 0.00 | No safe distance mandate |
| med\_mandate.masks | Medical mandate: mandatory wearing of personal protective equipment | 1.00 | Mandatory wearing of masks/PPE except at home |
| 0.67 | Mandatory wearing of masks/PPE indoors |
| 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 |
| **Case Identification variables:** | | | | |
|  | cname | Country name |  |  |
|  | isocode | ISO 3166 country code |  |  |
|  | isoabbr | country abbreviation according to ISO 3166 |  |  |
|  | date | date |  |  |
| **Protective Policy Index Method 2 (PPI-M2) calculated variables:** | | | | |
|  | 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] |
| **Borders:** | | | | |
|  | borders.all.tot.ave.2 | Border closures (Both levels) | Population-weighted average of region-specific values of borders.all.tot.2 | [0,1] |
|  | borders.all.nat.ave.2 | Border closures (National) | Population-weighted average of region-specific values of borders.all.nat.2 | [0,1] |
|  | borders.all.reg.ave.2 | Border closures (Regional) | Population-weighted average of region-specific values of borders.all.reg.2 | [0,1] |
| **State of emergency:** | | | | |
|  | emerg.all.tot.ave.2 | State of emergency (Both levels) | Population-weighted average of region-specific values of emerg.all.tot.2 | [0,1] |
|  | emerg.all.nat.ave.2 | State of emergency (National) | Population-weighted average of region-specific values of emerg.all.nat.2 | [0,1] |
|  | emerg.all.reg.ave.2 | State of emergency (Regional) | Population-weighted average of region-specific values of emerg.all.reg.2 | [0,1] |
| **Individual location restrictions:** | | | | |
|  | ind\_locat.all.tot.ave.2 | Individual location: all components (Both levels) | Population-weighted average of region-specific values of ind\_locat.all.tot.2 | [0,1] |
|  | ind\_locat.all.nat.ave.2 | Individual location: all components (National) | Population-weighted average of region-specific values of ind\_locat.all.nat.2 | [0,1] |
|  | ind\_locat.all.reg.ave.2 | Individual location: all components (Regional) | Population-weighted average of region-specific values of ind\_locat.all.reg.2 | [0,1] |
|  | ind\_locat.ind\_mob.tot.ave.2 | Individual location: restricted individual mobility (Both levels) | Population-weighted average of region-specific values of ind\_locat.ind\_mob.tot.2 | [0,1] |
|  | ind\_locat.ind\_mob.nat.ave.2 | Individual location: restricted individual mobility (National) | Population-weighted average of region-specific values of ind\_locat.ind\_mob.nat.2 | [0,1] |
|  | ind\_locat.ind\_mob.reg.ave.2 | Individual location: restricted individual mobility (Regional) | Population-weighted average of region-specific values of ind\_locat.ind\_mob.reg.2 | [0,1] |
|  | ind\_locat.med\_quar.tot.ave.2 | Individual location: mandatory quarantine (Both levels) | Population-weighted average of region-specific values of ind\_locat.med\_quar.tot.2 | [0,1] |
|  | ind\_locat.med\_quar.nat.ave.2 | Individual location: mandatory quarantine (National) | Population-weighted average of region-specific values of ind\_locat.med\_quar.nat.2 | [0,1] |
|  | ind\_locat.med\_quar.reg.ave.2 | Individual location: mandatory quarantine (Regional) | Population-weighted average of region-specific values of ind\_locat.med\_quar.reg.2 | [0,1] |
|  | ind\_locat.med\_stay.tot.ave.2 | Individual location: conditional self-isolation (Both levels) | Population-weighted average of region-specific values of ind\_locat.med\_stay.tot.2 | [0,1] |
|  | ind\_locat.med\_stay.nat.ave.2 | Individual location: conditional self-isolation (National) | Population-weighted average of region-specific values of ind\_locat.med\_stay.nat.2 | [0,1] |
|  | ind\_locat.med\_stay.reg.ave.2 | Individual location: conditional self-isolation (Regional) | Population-weighted average of region-specific values of ind\_locat.med\_stay.reg.2 | [0,1] |
|  | ind\_locat.publ\_tr.tot.ave.2 | Individual location: closure of public transportation (Both levels) | Population-weighted average of region-specific values of ind\_locat.publ\_tr.tot.2 | [0,1] |
|  | ind\_locat.publ\_tr.nat.ave.2 | Individual location: closure of public transportation (National) | Population-weighted average of region-specific values of ind\_locat.publ\_tr.nat.2 | [0,1] |
|  | ind\_locat.publ\_tr.reg.ave.2 | Individual location: closure of public transportation (Regional) | Population-weighted average of region-specific values of ind\_locat.publ\_tr.reg.2 | [0,1] |
| **Closure of places of congregation:** | | | | |
|  | places.all.tot.ave.2 | Closures of places of human congregation: all components (Both levels) | Population-weighted average of region-specific values of places.all.tot.2 | [0,1] |
|  | places.all.nat.ave.2 | Closures of places of human congregation: all components (National) | Population-weighted average of region-specific values of places.all.nat.2 | [0,1] |
|  | places.all.reg.ave.2 | Closures of places of human congregation: all components (Regional) | Population-weighted average of region-specific values of places.all.reg.2 | [0,1] |
|  | places.gov\_offs.tot.ave.2 | Closures of places of human congregation: closure of government offices (Both levels) | Population-weighted average of region-specific values of places.gov\_offs.tot.2 | [0,1] |
|  | places.gov\_offs.nat.ave.2 | Closures of places of human congregation: closure of government offices (National) | Population-weighted average of region-specific values of places.gov\_offs.nat.2 | [0,1] |
|  | places.gov\_offs.reg.ave.2 | Closures of places of human congregation: closure of government offices (Regional) | Population-weighted average of region-specific values of places.gov\_offs.reg.2 | [0,1] |
|  | places.ne\_busn.tot.ave.2 | Closures of places of human congregation: closure of non-essential businesses (Both levels) | Population-weighted average of region-specific values of places.ne\_busn.tot.2 | [0,1] |
|  | places.ne\_busn.nat.ave.2 | Closures of places of human congregation: closure of non-essential businesses (National) | Population-weighted average of region-specific values of places.ne\_busn.nat.2 | [0,1] |
|  | places.ne\_busn.reg.ave.2 | Closures of places of human congregation: closure of non-essential businesses (Regional) | Population-weighted average of region-specific values of places.ne\_busn.reg.2 | [0,1] |
|  | places.restrts.tot.ave.2 | Closures of places of human congregation: closure of restaurants (Both levels) | Population-weighted average of region-specific values of places.restrts.tot.2 | [0,1] |
|  | places.restrts.nat.ave.2 | Closures of places of human congregation: closure of restaurants (National) | Population-weighted average of region-specific values of places.restrts.nat.2 | [0,1] |
|  | places.restrts.reg.ave.2 | Closures of places of human congregation: closure of restaurants (Regional) | Population-weighted average of region-specific values of places.restrts.reg.2 | [0,1] |
|  | places.venues.tot.ave.2 | Closures of places of human congregation: closure of venues of entertainment and leisure (Both levels) | Population-weighted average of region-specific values of places.venues.tot.2 | [0,1] |
|  | places.venues.nat.ave.2 | Closures of places of human congregation: closure of venues of entertainment and leisure (National) | Population-weighted average of region-specific values of places.venues.nat.2 | [0,1] |
|  | places.venues.reg.ave.2 | Closures of places of human congregation: closure of venues of entertainment and leisure (Regional) | Population-weighted average of region-specific values of places.venues.reg.2 | [0,1] |
|  | places.wfh.tot.ave.2 | Closures of places of human congregation: working from home requirement (Both levels) | Population-weighted average of region-specific values of places.wfh.tot.2 | [0,1] |
|  | places.wfh.nat.ave.2 | Closures of places of human congregation: working from home requirement (National) | Population-weighted average of region-specific values of places.wfh.nat.2 | [0,1] |
|  | places.wfh.reg.ave.2 | Closures of places of human congregation: working from home requirement (Regional) | Population-weighted average of region-specific values of places.wfh.reg.2 | [0,1] |
| **Schools and social gatherings:** | | | | |
|  | soc\_and\_schls.all.tot.ave.2 | Closure of schools and restrictions on social gatherings: all components (Both levels) | Population-weighted average of region-specific values of soc\_and\_schls.all.tot.2 | [0,1] |
|  | soc\_and\_schls.all.nat.ave.2 | Closure of schools and restrictions on social gatherings: all components (National) | Population-weighted average of region-specific values of soc\_and\_schls.all.nat.2 | [0,1] |
|  | soc\_and\_schls.all.reg.ave.2 | Closure of schools and restrictions on social gatherings: all components (Regional) | Population-weighted average of region-specific values of soc\_and\_schls.all.reg.2 | [0,1] |
|  | soc\_and\_schls.schools.tot.ave.2 | Closure of schools and restrictions on social gatherings: closure of schools (Both levels) | Population-weighted average of region-specific values of soc\_and\_schls.schools.tot.2 | [0,1] |
|  | soc\_and\_schls.schools.nat.ave.2 | Closure of schools and restrictions on social gatherings: closure of schools (National) | Population-weighted average of region-specific values of soc\_and\_schls.schools.nat.2 | [0,1] |
|  | soc\_and\_schls.schools.reg.ave.2 | Closure of schools and restrictions on social gatherings: closure of schools (Regional) | Population-weighted average of region-specific values of soc\_and\_schls.schools.reg.2 | [0,1] |
|  | soc\_and\_schls.soc\_gath.tot.ave.2 | Closure of schools and restrictions on social gatherings: limits on size of social gatherings (Both levels) | Population-weighted average of region-specific values of soc\_and\_schls.soc\_gath.tot.2 | [0,1] |
|  | soc\_and\_schls.soc\_gath.nat.ave.2 | Closure of schools and restrictions on social gatherings: limits on size of social gatherings (National) | Population-weighted average of region-specific values of soc\_and\_schls.soc\_gath.nat.2 | [0,1] |
|  | soc\_and\_schls.soc\_gath.reg.ave.2 | Closure of schools and restrictions on social gatherings: limits on size of social gatherings (Regional) | Population-weighted average of region-specific values of soc\_and\_schls.soc\_gath.reg.2 | [0,1] |
| **Medical mandate:** | | | | |
|  | med\_mandate.all.tot.ave.2 | Medical mandate: all components (Both levels) | Population-weighted average of region-specific values of med\_mandate.all.tot.2 | [0,1] |
|  | med\_mandate.all.nat.ave.2 | Medical mandate: all components (National) | Population-weighted average of region-specific values of med\_mandate.all.nat.2 | [0,1] |
|  | med\_mandate.all.reg.ave.2 | Medical mandate: all components (Regional) | Population-weighted average of region-specific values of med\_mandate.all.reg.2 | [0,1] |
|  | med\_mandate.dist\_mand.tot.ave.2 | Medical mandate: social distancing mandates (Both levels) | Population-weighted average of region-specific values of med\_mandate.dist\_mand.tot.2 | [0,1] |
|  | med\_mandate.dist\_mand.nat.ave.2 | Medical mandate: social distancing mandates (National) | Population-weighted average of region-specific values of med\_mandate.dist\_mand.nat.2 | [0,1] |
|  | med\_mandate.dist\_mand.reg.ave.2 | Medical mandate: social distancing mandates (Regional) | Population-weighted average of region-specific values of med\_mandate.dist\_mand.reg.2 | [0,1] |
|  | med\_mandate.masks.tot.ave.2 | Medical mandate: mandatory wearing of personal protective equipment (Both levels) | Population-weighted average of region-specific values of med\_mandate.masks.tot.2 | [0,1] |
|  | med\_mandate.masks.nat.ave.2 | Medical mandate: mandatory wearing of personal protective equipment (National) | Population-weighted average of region-specific values of med\_mandate.masks.nat.2 | [0,1] |
|  | med\_mandate.masks.reg.ave.2 | Medical mandate: mandatory wearing of personal protective equipment (Regional) | Population-weighted average of region-specific values of med\_mandate.masks.reg.2 | [0,1] |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Variable name | Description | Construction | Range |
| **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 |  |  |
| **Protective Policy Index Method 1 (PPI-M2) calculated variables:** | | | | |
|  | 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] |
| **Individual location restrictions:** | | | | |
|  | ind\_locat.all.tot.2 | Individual location: all components (Both levels) | (10\*ind\_locat.ind\_mob.tot.2+4\*ind\_locat.med\_quar.tot.2+2\*ind\_locat.med\_stay.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)/20 | [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)/20 | [0,1] |
|  | ind\_locat.ind\_mob.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\_mob.nat.2 | Individual location: restricted individual mobility (National) | directly coded | [0,1] |
|  | ind\_locat.ind\_mob.reg.2 | Individual location: restricted individual mobility (Regional) | directly coded | [0,1] |
|  | ind\_locat.med\_quar.tot.2 | Individual location: mandatory quarantine (Both levels) | max(ind\_locat.med\_quar.nat.2,ind\_locat.med\_quar.reg.2) | [0,1] |
|  | ind\_locat.med\_quar.nat.2 | Individual location: mandatory quarantine (National) | directly coded | [0,1] |
|  | ind\_locat.med\_quar.reg.2 | Individual location: mandatory quarantine (Regional) | directly coded | [0,1] |
|  | ind\_locat.med\_stay.tot.2 | Individual location: conditional self-isolation (Both levels) | max(ind\_locat.med\_stay.nat.2,ind\_locat.med\_stay.reg.2) | [0,1] |
|  | ind\_locat.med\_stay.nat.2 | Individual location: conditional self-isolation (National) | directly coded | [0,1] |
|  | ind\_locat.med\_stay.reg.2 | Individual location: conditional self-isolation (Regional) | directly coded | [0,1] |
|  | ind\_locat.publ\_tr.tot.2 | Individual location: closure of public transportation (Both levels) | max(ind\_locat.publ\_tr.nat.2,ind\_locat.publ\_tr.reg.2) | [0,1] |
|  | ind\_locat.publ\_tr.nat.2 | Individual location: closure of public transportation (National) | directly coded | [0,1] |
|  | ind\_locat.publ\_tr.reg.2 | Individual location: closure of public transportation (Regional) | directly coded | [0,1] |
| **Closure of places of congregation:** | | | | |
|  | places.all.tot.2 | Closures of places of human congregation: all components (Both levels) | (4\*places.gov\_offs.tot.2+4\*places.ne\_busn.tot.2+4\*places.restrts.tot.2+2\*places.venues.tot.2+2\*places.wfh.tot.2)/16 | [0,1] |
|  | places.all.nat.2 | Closures of places of human congregation: all components (National) | (4\*places.gov\_offs.nat.2+4\*places.ne\_busn.nat.2+4\*places.restrts.nat.2+2\*places.venues.nat.2+2\*places.wfh.nat.2)/16 | [0,1] |
|  | places.all.reg.2 | Closures of places of human congregation: all components (Regional) | (4\*places.gov\_offs.reg.2+4\*places.ne\_busn.reg.2+4\*places.restrts.reg.2+2\*places.venues.reg.2+2\*places.wfh.reg.2)/16 | [0,1] |
|  | places.gov\_offs.tot.2 | Closures of places of human congregation: closure of government offices (Both levels) | max(places.gov\_offs.nat.2,places.gov\_offs.reg.2) | [0,1] |
|  | places.gov\_offs.nat.2 | Closures of places of human congregation: closure of government offices (National) | directly coded | [0,1] |
|  | places.gov\_offs.reg.2 | Closures of places of human congregation: closure of government offices (Regional) | directly coded | [0,1] |
|  | places.ne\_busn.tot.2 | Closures of places of human congregation: closure of non-essential businesses (Both levels) | max(places.ne\_busn.nat.2,places.ne\_busn.reg.2) | [0,1] |
|  | places.ne\_busn.nat.2 | Closures of places of human congregation: closure of non-essential businesses (National) | directly coded | [0,1] |
|  | places.ne\_busn.reg.2 | Closures of places of human congregation: closure of non-essential businesses (Regional) | directly coded | [0,1] |
|  | places.restrts.tot.2 | Closures of places of human congregation: closure of restaurants (Both levels) | max(places.restrts.nat.2,places.restrts.reg.2) | [0,1] |
|  | places.restrts.nat.2 | Closures of places of human congregation: closure of restaurants (National) | directly coded | [0,1] |
|  | places.restrts.reg.2 | Closures of places of human congregation: closure of restaurants (Regional) | directly coded | [0,1] |
|  | places.venues.tot.2 | Closures of places of human congregation: closure of venues of entertainment and leisure (Both levels) | max(places.venues.nat.2,places.venues.reg.2) | [0,1] |
|  | places.venues.nat.2 | Closures of places of human congregation: closure of venues of entertainment and leisure (National) | directly coded | [0,1] |
|  | places.venues.reg.2 | Closures of places of human congregation: closure of venues of entertainment and leisure (Regional) | directly coded | [0,1] |
|  | places.wfh.tot.2 | Closures of places of human congregation: working from home requirement (Both levels) | max(places.wfh.nat.2,places.wfh.reg.2) | [0,1] |
|  | places.wfh.nat.2 | Closures of places of human congregation: working from home requirement (National) | directly coded | [0,1] |
|  | places.wfh.reg.2 | Closures of places of human congregation: working from home requirement (Regional) | directly coded | [0,1] |
| **Schools and social gatherings:** | | | | |
|  | soc\_and\_schls.all.tot.2 | Closure of schools and restrictions on social gatherings: all components (Both levels) | (8\*soc\_and\_schls.schools.tot.2+8\*soc\_and\_schls.soc\_gath.tot.2)/16 | [0,1] |
|  | soc\_and\_schls.all.nat.2 | Closure of schools and restrictions on social gatherings: all components (National) | (8\*soc\_and\_schls.schools.nat.2+8\*soc\_and\_schls.soc\_gath.nat.2)/16 | [0,1] |
|  | soc\_and\_schls.all.reg.2 | Closure of schools and restrictions on social gatherings: all components (Regional) | (8\*soc\_and\_schls.schools.reg.2+8\*soc\_and\_schls.soc\_gath.reg.2)/16 | [0,1] |
|  | soc\_and\_schls.schools.tot.2 | Closure of schools and restrictions on social gatherings: closure of schools (Both levels) | max(soc\_and\_schls.schools.nat.2,soc\_and\_schls.schools.reg.2) | [0,1] |
|  | soc\_and\_schls.schools.nat.2 | Closure of schools and restrictions on social gatherings: closure of schools (National) | directly coded | [0,1] |
|  | soc\_and\_schls.schools.reg.2 | Closure of schools and restrictions on social gatherings: closure of schools (Regional) | directly coded | [0,1] |
|  | soc\_and\_schls.soc\_gath.tot.2 | Closure of schools and restrictions on social gatherings: limits on size of social gatherings (Both levels) | max(soc\_and\_schls.soc\_gath.nat.2,soc\_and\_schls.soc\_gath.reg.2) | [0,1] |
|  | soc\_and\_schls.soc\_gath.nat.2 | Closure of schools and restrictions on social gatherings: limits on size of social gatherings (National) | directly coded | [0,1] |
|  | soc\_and\_schls.soc\_gath.reg.2 | Closure of schools and restrictions on social gatherings: limits on size of social gatherings (Regional) | directly coded | [0,1] |
| **Medical mandate:** | | | | |
|  | med\_mandate.all.tot.2 | Medical mandate: all components (Both levels) | (4\*med\_mandate.dist\_mand.tot.2+6\*med\_mandate.masks.tot.2)/10 | [0,1] |
|  | med\_mandate.all.nat.2 | Medical mandate: all components (National) | (4\*med\_mandate.dist\_mand.nat.2+6\*med\_mandate.masks.nat.2)/10 | [0,1] |
|  | med\_mandate.all.reg.2 | Medical mandate: all components (Regional) | (4\*med\_mandate.dist\_mand.reg.2+6\*med\_mandate.masks.reg.2)/10 | [0,1] |
|  | med\_mandate.dist\_mand.tot.2 | Medical mandate: social distancing mandates (Both levels) | max(med\_mandate.dist\_mand.nat.2,med\_mandate.dist\_mand.reg.2) | [0,1] |
|  | med\_mandate.dist\_mand.nat.2 | Medical mandate: social distancing mandates (National) | directly coded | [0,1] |
|  | med\_mandate.dist\_mand.reg.2 | Medical mandate: social distancing mandates (Regional) | directly coded | [0,1] |
|  | med\_mandate.masks.tot.2 | Medical mandate: mandatory wearing of personal protective equipment (Both levels) | max(med\_mandate.masks.nat.2,med\_mandate.masks.reg.2) | [0,1] |
|  | med\_mandate.masks.nat.2 | Medical mandate: mandatory wearing of personal protective equipment (National) | directly coded | [0,1] |
|  | med\_mandate.masks.reg.2 | Medical mandate: mandatory wearing of personal protective equipment (Regional) | directly coded | [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 |
| **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} |
| **Calculated 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 |  |  |