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## *Executive summary*

*Governments have responded to the Covid-19 pandemic by adopting a wide range of policy measures with different effects on infection rates and deaths, but also varying socio-economic consequences. The **Oxford Supertracker** at the Department of Social Policy and Intervention (DSPI) aims to provide a **global online directory of relevant policy trackers** that have been developed to monitor policies and individual preferences in respect to Covid-19 across countries.*

*Trackers vary widely in terms of policy fields, country coverage, types of authors and users. The Supertracker provides an online directory that brings together **data sources** on (1) deaths and cases of Covid-19, (2) policies to prevent the spread of Covid-19, (3) preferences and behavioural responses of individuals, and (4) policies seeking to mitigate or compensate for the consequences of Covid-19.*

*The Supertracker enhances research and knowledge **opportunities** in several ways. First, it facilitates triangulation of information from different sources and fosters multi-dimensional analyses of policy responses. Second, it provides information about the time structure of available policy and evidence, which in turn makes it possible to adopt quasi-experimental research designs studying pre/post treatment effects, for example. Third, the diversity of trackers generates potential complementarities between them, which could be leveraged in different ways, for instance to reduce duplication, increase coordination between authors of trackers thereby creating a momentum and resources for data standardization and analysis.*

*Combining different databases with each other and using their temporal dimension may also generate some **challenges**. First, there are comparability and combinatorial issues since the trackers typically differ in their conceptualization of key policies as well as their data structures, country and time coverage. Second, there are coverage and validity issues since academic institutions, NGOs and think tanks tend to produce trackers according to their own particular designs, perceived need and available resources. Individual trackers are often less global in coverage, less comprehensive, and up-to-date in data gathering. Third, there are challenges in terms of policy impact evaluation because there is a lack of up-to-date individual or household panel surveys that could help measure various outcome of the pandemic – and policy responses – on particular social risk groups. Datasets created to monitor policy responses to Covid-19 are difficult to leverage in research designs that require before-after comparisons since they do not build on established classifications.*

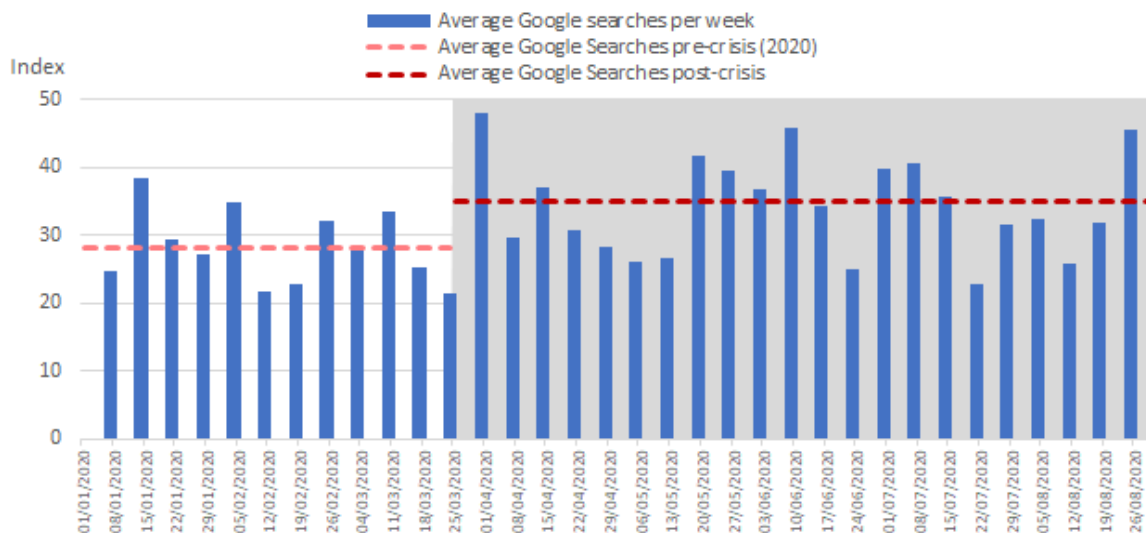
*Reflecting on the situation we make the following **recommendations** for possible further action by policy tracker producers, the research community at large and the Supertracker team. First, information resources need to be categorized more precisely and rigorously so as to identify overlaps and gaps. Second, we recommend addressing information gaps (e.g. in terms of uneven country coverage) and using synergies, for instance through the creation of a Supertracker forum. This would be led by an informal working group and host webinars and undertake joint project initiatives. Third, the Supertracker should aim to become a fully-fledged data interface/repository providing direct access to the content of any dataset listed in the directory.*

## 1. Covid-19 and the boom in policy tracking

Since the outbreak of the Covid-19 pandemic, the crisis-driven adoption and implementation of policy measures by governments has made it challenging to keep track of major developments. The rapidity and scope of the pandemic has created a pressing need for up-to-date data collection and comparative analysis. In this context, researchers from international organizations, think tanks, non-governmental organizations (NGOs) and universities around the globe have developed Covid-19 **policy trackers**. These are information databases that document policy responses and their consequences in real time. In addition, researchers have fielded new surveys to map population preferences across countries and topics since the outbreak of the pandemic.

All these policy trackers (and surveys) have provided an immensely valuable public good for informing the public, policy-makers and researchers on ongoing developments. These information sources facilitate comparative social research and evidence-based policy-making. The recent **boom** in the demand for policy trackers is evidenced by skyrocketing Google searches for the term “policy tracker[s]” during 2020 as shown in **Figure 1** below.

**Figure 1: Google searches for policy trackers, worldwide**



*Source: Google Trends (02.09.2020). Note: worldwide web search for all categories between 01/01/2020 and 31/08/2020. The y-axis denotes an index between 0 and 100 of relative search popularity standardised over the time period indicated. The shaded grey area indicates the crisis period.*

To document and help organize the rapidly increasing supply of novel policy trackers and to address information overload, we have created the [Oxford Supertracker: a global directory for Covid-19 policy trackers and surveys](#). The online tool allows users to search and identify relevant information resources, such as datasets, surveys, and systematic collections, across policy fields and countries. The Oxford Supertracker project at the Department of Social Policy and Intervention (DSPI), University of Oxford, has been tracking and assembling the numerous policy trackers that have emerged in the wake of Covid-19. It provides an easily searchable [online directory](#) of more than hundred data sources ([126 policy trackers](#) and [44 surveys](#) as of 7 September 2020). Although all sources are focused on the pandemic, the policy trackers included – as well as the surveys on public attitudes and individual behaviour – vary significantly in their policy focus, country coverage, authors/producers, and user groups.

**Table 1: Regional Scope of Policy Trackers (31 August 2020, N=126)**

World / regions / countries	N	%
World-wide	82	65.1%
<i>(incl. 12 OECD+, 3 G20/G south)</i>	15	11.9%
Anglo (22 US/1 UK/1 CAN/1 AUS)	25	19.8%
Europe (12 EU, 1 East)	13	10.3%
Africa	5	4.0%
Asia	1	0.8%
<b>All policy trackers</b>	<b>126</b>	<b>100.0%</b>
<i>In addition: directory of surveys (7 September 2020)</i>	44	

**Different policy foci:** Nearly all policy fields – ranging from education, fiscal, health, monetary and social policy to the regulation of media, civic freedoms and elections – are relevant for an analysis of the Covid-19 pandemic and its impact on economies and societies across the globe. Some trackers cover a wide range of policies (such as containment measures or fiscal policy), while others choose to detail specific aspects (such as prison systems, violent conflicts or paid sick leave).

A first glance reveals the **evolution of policy trackers** over time. Initially, early efforts concentrated on tracing the demographic and epidemiological profile of the Covid-19 pandemic, including crucial information on the number of cases, testing capacity, hospitalization, and mortality. Non-pharmaceutical interventions, such as lockdowns and the stepwise “reopening” of economies, were covered by several policy trackers. Further monitoring efforts focused on policy responses to mitigate the socio-economic impact of the pandemic and public interventions, ranging from macro-economic stimulus interventions to employment and social policies, such as furlough or short-time work schemes. As they have evolved, more specific indicators on the economic and social impact of the pandemic – for instance, GDP forecasts or unemployment rates – are becoming available.

**Variation in country coverage:** The large majority (82 out of 126, or about 65%) of the policy trackers included in the Supertracker (by 31 August 2020) have a **global scope (see Table 1)**, though many of them do not systematically cover all UN recognized countries. Some report policy developments for a small subset of countries scattered around the globe – e.g. OECD or G20 countries. Several trackers (about 15%) focus on particular **world regions**, most notably Africa, Asia and the European Union or Europe more generally. In addition, the Supertracker includes 25 **national trackers** (about 20%) from anglophone countries, namely Australia, Canada, the United Kingdom and most often the United States (typically including data on US states). Note that there are other trackers at national level but they are not included here given that they are not English-language sources.

**A variety of tracker authors:** The country coverage of different policy trackers correlates somewhat with the type of organization that has authored them. **International organizations** tend to have the widest country coverage with UN international agencies typically providing the most comprehensive, world-wide databases whereas OECD and EU agencies limit their country coverage to member states and associated countries. This wide scope is associated with the wider geographic mandate of international organizations and also their capacity to build upon ongoing data efforts and to mobilize data contributions by member states or local offices.

**Table 2: Providers of Policy Trackers (31 August 2020, N=126) by Organizational Type**

Providers of policy trackers	N	%
Academics/institutes	42	33.3%
International organizations	33	26.2%
- UN..., ILO	18	14.3%
- OECD (12), EU (5)	17	13.5%
NGOs	21	16.7%
Thinktanks	12	9.5%
Companies (internet, etc.)	13	10.3%
Public agencies (US, CAN)	3	2.4%
<b>All policy trackers</b>	<b>126</b>	<b>100.0%</b>
<i>In addition: directory of surveys (7 September 2020)</i>	44	

Among the **producers** (see Table 2), only a quarter of all policy trackers included in the Supertracker are **international organizations** (UN-agencies, OECD, EU-related, etc.). Instead, the largest share (more than one-third) of policy trackers included in the Supertracker originate from **academic institutions** (including networks of scientists). These are often more selective in country coverage, more specialised in terms of policy field, and more oriented towards evidence-based indicators. The other providers, **NGOs, think tanks** and a few **(sub)national agencies**, provide diverse range of trackers with highly varying geographical scope. Finally, **global companies** leverage the rise of big data to produce trackers on significant behavioral aspects (e.g. mobility trackers) or information usage (e.g. Google search terms).

**Figure 2: Example of policy tracker search**

The screenshot shows the Oxford Supertracker website interface. At the top, there are logos for the Department of Social Policy & Intervention and the University of Oxford. The main heading is 'Policy Trackers'. Below the heading, there is a search bar and several filter tabs: 'Policy Areas', 'Focus', 'Country Coverage', 'Data Format', and 'Authors'. The search results are displayed in a table with columns for Title, Policy Area, Focus, Country Coverage, Data Format, and Authors. Two results are visible: 'Governments' responses to COVID-19 dataset' and 'ICC COVID-19 tracker'.

Note: Searchable terms for <https://supertracker.spi.ox.ac.uk/policy-trackers/>

Title / Policy Areas / Focus (topics) / Country Coverage (worldwide or countries) / Data Format / Authors (data producer)

**Different user groups:** Policy trackers not only serve multiple purposes and cover different types of countries and policy fields, but they also provide information to different user groups. First, they may help **policy-makers** – governments, interest groups, think tanks, international organizations, etc. – to monitor policy developments, to benchmark countries in policy content and timing, and to learn from best or poor practice. The information included in policy trackers can also help **the public** to acquire knowledge of the different policy approaches to Covid-19 and assess their governments’ policy responses to the pandemic by comparing them with those of other countries. Finally, policy trackers provide up-to-date data allowing the global **research community** to generate new knowledge on the causes and consequences of policy measures adopted in the wake of the pandemic thereby potentially helping improve the evidence base for policy interventions.

## 2. Opportunities and challenges

The **great** diversity of Covid-19-focused policy trackers opens up new opportunities and related challenges for their users and authors.

**Opportunities for tracker users:** Policy trackers enable policymakers, the public and academic or non-academic researchers to follow different governments’ policy responses in a variety of policy fields in real time. For policy research, two characteristics of trackers included in the Supertracker project are particularly useful. First, when placed together in the Supertracker the huge diversity and richness of trackers allows researchers to combine different database sources for a particular country or set of countries. This **country-by-country compilation** facilitates triangulation of information from different sources. Moreover, it also allows for multi-dimensional analyses on the many different policy dimensions that have been relevant in responding to the pandemic. Second, some databases provide events-based listings of policy measures (or interventions) and other databases even provide time series in daily, weekly or monthly format. The inclusion of this **temporal dimension** in the data structure of those databases can allow much more fine-grained analyses, both of the specific context in which government measures have been adopted and of the impact of these measures, for example through quasi-experimental (diff-in-diff) research designs studying pre/post treatment effects.

**Related challenges:** Combining different databases with each other and using their time dimension may nonetheless be quite challenging for researchers.

*Comparability and capacity for combining evidence:* Different datasets may not be easily combined because they typically differ in their conceptualization of key policies as well as their data structures; they may therefore not be comparable or only in a limited way. Moreover, trackers and datasets typically vary in terms of data type which also makes them more difficult to combine. Some policy trackers provide policy description in (qualitative) text-based information or coding of policies (e.g. Blavatnik *government response index*); other datasets provide quantitative information through indicators of inputs (expenditure, benefit generosity) or outcomes (unemployment rate, poverty rate, GDP decline). As already mentioned, datasets differ in terms of country coverage and time structure: with many datasets having a cross-sectional structure while those with a temporal dimension may store data in daily, weekly or monthly format.

*Coverage and validity:* Given that academic institutions, together with some NGOs, think tanks and a few (sub)national agencies, tend to have more limited organizational and financial resources, they produce trackers that are often less global in coverage, less comprehensive, and less frequently updated. There are also questions about the validity of data on governments’ policy decisions. Datasets



typically code policy decisions when they are enacted or announced (some may even code simple announcements of change through Twitter), but it is not clear whether those decisions are implemented or how. Hence, there may be gaps in knowledge about implementation. Ascertaining the details of roll-out and implementation would require further time-consuming analysis but is a consideration.

*Policy impact evaluation.* Analysts face multiple challenges in leveraging the time dimension for policy evaluation purposes. Although many trackers include fine-grained information on the timing of different governments' policy responses to the pandemic, this information may not be easily used for experimental designs because there is a lack of up-to-date individual or household panel surveys that could help measure various outcome of the pandemic – and related policy responses – on particular social risk groups (e.g. ethnic minorities, elderly, etc.). Datasets that were specifically created to monitor the policy responses, without building on established classifications, cannot easily be of service in research designs that require before-after comparisons. For instance, certain surveys started monitoring preferences only after lockdown began, making impact difficult to assess. The Oxford Supertracker lists some fast response [surveys](#) that provide up-to-date information on changes in attitudes and behaviour of individuals, which are of relevance to understanding whether/how social inequalities are reproduced or intensified by Covid-19, but these datasets may not be sufficiently detailed for fine-grained evaluations of policies adopted during the crisis.

**Opportunities for tracker authors:** The potential challenges met by users in combining or triangulating data from different trackers create some opportunities for tracker authors and the research community. Indeed, the diversity of trackers also means that there is potential overlap – or, to put it more positively, complementarities – between them, which could be taken advantage of in different ways. Overlap sometimes makes for unnecessary duplication of data collection efforts. Greater coordination between authors of trackers could help them work out a clearer division of labour in order to avoid duplication and make databases more complementary. This could also free up resources for other tasks such as data standardization, data analysis, but also additional data collection on either currently neglected policy dimensions (e.g. current lack of data on sources of financing – i.e. how countries pay for covid-19-related programmes) or on important policies that require more fine-grained data (e.g. comparative data on different dimensions – eligibility, coverage, max./min./average benefit – of Covid-19-related cash benefits).

**Related challenges:** While greater coordination between tracker authors (data providers) could bring benefits, it also presents potential issues about its desirability and feasibility. First, too much coordination leading to too rigid a division of labour may not be desirable. Social phenomena and policies may be conceptualized and measured in different ways depending on theoretical or practical needs by data users or providers. Maintaining some degree of diversity in databases tracking the same phenomena is therefore desirable. Second, coordination at an advanced stage of data collection may not be feasible. Authors of trackers have already invested significant resources – “sunk costs” – into creating their own taxonomies and carrying out very time-consuming data collection. Coordination might only further strain limited resources particularly as the increasingly visible socio-economic consequences of the pandemic may lead different organizations to put more emphasis on data analysis than on data collection.

### 3. Recommendations for future development

Based on our analysis of the current state of Covid-19-related policy trackers compiled in the Oxford Supertracker, we draw some conclusions by way of recommendation for possible further action by

policy tracker producers, the research community at large, and our own Supertracker efforts. We suggest three sets of recommendations.

**Systemically collecting and categorizing information resources:** During the four weeks following its launch, the Supertracker has been viewed and used by thousands of researchers from over 120 countries around the globe. Those researchers have also been contributing to the growing number of entries listed on the website. This suggests a need for the type of coordination and platforming that the Supertracker provides. By providing a platform that is easy to access by the policy and research community as well as the public, the Supertracker allows all types of data providers - not only main international organizations with wide-ranging communication channels, but also smaller organizations with limited resources – to make their databases more widely known. Above all, it allows both users and producers to identify where data collection efforts are overlapping and where gaps exist. *It will be important to maintain and regularly update the Supertracker in order to include any new data developments by policy trackers (and surveys) related to Covid-19. Further efforts should be made to add categorical information in order to better map the content of the databases.*

**Addressing information gaps and using synergies:** Our analysis of trackers' uneven country coverage, of the diverse organizational map of data producers and of the different foci of the databases provides a starting point for understanding information gaps and the potential for complementarities. Gaps take the form of missing data and missing co-ordination of data collection across data producers. Through direct engagement with authors/producers of policy trackers, it should be possible to support concrete actions to fill information gaps in existing policy trackers and create synergies between them. There are real opportunities for leadership in identifying and helping to find resources to fill gaps. The Supertracker could contribute towards this by forming a Forum, for instance by setting up an informal working group, holding webinars, and launching joint project initiatives, to enable all those who are engaged in data collection to come together and exchange knowledge. *Feedback from producers indicate a need for cross-tracker and cross-institution coordination and also a willingness to explore co-operation with the Supertracker as a resource. This could be implemented gradually by focusing on particular topics and gathering specific sets of databases from data producers.*

**From an information directory to data interface/repository:** One suggestion for further development of the Supertracker, dependent on securing further funding, is to increase user accessibility, in particular by providing direct access to the content of any dataset listed in the directory. This would require the original data providers to agree on specific dataset formats and structures that would allow the Supertracker to pull the data into its interface. This would have the advantage of allowing end-users to merge and combine several data sources automatically and to go to a single source rather than multiple sources. It would also make it possible for the data to automatically be updated on the Supertracker when the original data creators add new observations to their datasets. Whereas the push for replicability has moved many datasets into the dataverse (e.g. Harvard dataverse), the Supertracker could also function as a repository of datasets before they are used for publication. *Such a user-friendly interface and repository would, however, require substantial investment into public goods service provision by funding agencies as well as the willingness of data providers to make their datasets compatible for such a Supertracker data sharing interface.*