

During Covid, most of the responses were organised ad-hoc.

In general, the main authorities activated during an emerging health threat would be the Ministry of Health and Social Security and linked Directorate of Health, and the Haut-Commissariat à la protection nationale (HCPN). The responses and processes activated during a health threat would very much depend on the nature of that threat. For the COVID-19 response, an inter-ministerial crisis unit was established. (From State of Health in the EU - Luxembourg - Country Health Profile 2021 see [https://health.ec.europa.eu/system/files/2021-12/2021\\_chp\\_lu\\_english.pdf](https://health.ec.europa.eu/system/files/2021-12/2021_chp_lu_english.pdf)). In addition, the COVID-19 Task Force was set up in order to offer the health system, policy-makers and society the combined expertise available within the Luxembourg public research sector (University of Luxembourg, Luxembourg Institute of Health, Luxembourg Institute of Socio-Economic Research, Luxembourg Institute of Science and Technology, National Health Laboratory, and the Luxembourg National Research Fund, under the coordination of the Ministry of Higher Education and Research; <https://www.researchluxembourg.org/en/covid-19-task-force/>).

Since the COVID crisis, the country has taken steps to improve its readiness in the event of similar emergencies. Luxembourg is involved in research projects that aim to optimise responses to ongoing and future epidemics; these include the European-level preparedness project BE READY and BE READY PLUS and PANDOMIC, as well as the international PANDEMIC and BeYond-COVID projects. The latter aims to tackle data challenges that can hinder effective pandemic. Concerning antimicrobial resistance (AMR), the National Antibiotic Plan 2018-22 was launched in 2018; it has since been readapted and extended to 2024. This Plan is part of the One Health approach. Additionally, Luxembourg is also a partner in the European Joint Action on Antimicrobial Resistance and Healthcare Associated Infections (JAMRAI-2). Luxembourg has also a National Adaptation Strategy and Action Plan for adaptation to the effects of climate change (2018-23) includes health as one of 13 sectors. The Action Plan addresses four areas with 43 measures in the area of health (from State of Health in the EU - Luxembourg - Country Health Profile 2023 [https://health.ec.europa.eu/system/files/2023-12/2023\\_chp\\_lu\\_english\\_0.pdf](https://health.ec.europa.eu/system/files/2023-12/2023_chp_lu_english_0.pdf)). Policy-wise, multiple complementary initiatives have been undertaken in recent years to improve and further strengthen national pandemic preparedness. This includes the ECDC PHEPA evaluation in 2024 (that included a section on research), and subsequent elaboration of an Action plan; the ongoing UHPR evaluation by WHO as well as a number of national legislative and organizational changes.

## **R&I Policies and Strategies**

*The information is not exhaustive and should be updated regularly.*

Country has a dedicated R&I strategy related to pandemic threat? **Yes**

R&I strategy URL <https://gouvernement.lu/dam-assets/documents/actualites/2020/02-fevrier/25-mesr-strategie-recherche-innovation/mesr-strategy-research-innovation.pdf> <https://covid19.public.lu/en.html>

Country has an open science portal with information on publicly financed scientific research? **Yes**

R&I portal <https://www.fnr.lu/project-finder/>

Country has R&I webpage on COVID-19 <https://www.researchluxembourg.org/en/covid-19-task-force/projects/>

Website open science/ open data initiative with respect to pandemic threats, such as COVID-19 open

Name	URL	Short Description
COVID-19 projects	<a href="https://www.researchluxembourg.org/en/covid-19-task-force/projects/">https://www.researchluxembourg.org/en/covid-19-task-force/projects/</a>	
COVID-19 Task Force	<a href="https://www.researchluxembourg.org/en/mision-2/">https://www.researchluxembourg.org/en/mision-2/</a>	The COVID-19 Task Force has been set up in order to offer the health system the combined expertise available within the Luxembourg public research sector

Country has coordinating structures to link public health needs and research needs? **Yes**

Coordinating structures URL <https://www.researchluxembourg.org/en/>

## **R&I Infrastructures**

*The information is not exhaustive and should be updated regularly.*

Country has the following research infrastructure for infectious diseases and outbreaks available, or under construction

Clinical trial units; Reference centres of excellence

Name Infrastructure	Type Infrastructure	URL	Available for	Open to others
LCTR	Clinical trials unit	<a href="#">Luxembourg Clinical and Translational Research Centre</a>	yes	yes

Country supporting the participation to the following ESFRI initiatives relevant for infectious diseases

EATRIS

Website network of clinical trials (e.g. to facilitate the access to clinical trials) the country is involved in

<https://eu-response.eu/>

<https://www.edctp.org/>

<https://www.combacte.com/>

## **Budget mobilisation mechanisms and funding sources**

*The information is not exhaustive and should be updated regularly.*

### **Basic Research**

url <https://www.fnr.lu>

<https://mesr.gouvernement.lu/fr/le-ministere.html>

funding for basic research accessible for industry? Yes

source of funding Public (research) agencies; Private industries/ philanthropic

### **Applied Research**

url <https://www.fnr.lu/funding-instruments/meco-fnr-luxinnovation/>

funding for applied research accessible for Yes

source of funding Public (research) agencies

### **Translational Research**

url <https://www.fnr.lu/funding-instruments/ncer-initiate/>

funding accessible for industry?

source of funding Public (research) agencies

### **Clinical Research (in general)**

url <https://sante.public.lu/fr/espace-professionnel/domaines/recherche-biomedicale/programme-recherche-clinique-hospitaliere.html>

funding accessible for industry?

source of funding

phase funded?

### **Clinical Research (in pandemic phase)**

url

accessible for industry?

source of funding

phase funded ?

### **Innovation Projects**

url <https://guichet.public.lu/en/entreprises/financement-aides/aides-recherche-developpement/rdi/conditions-generales-aides-rdi.html>

funding for innovation projects accessible for industry?

source of funding

Flexible funding possible during emergency: FNR provided some funding during the Covid outbreak for research projects, but there is no automatic process for funding in case of health threats

# R&I actors, authorities and activated processes that are activated in case of a health threat

*The information is not exhaustive and should be updated regularly.*

## R&I actors

ministries involved in case of an outbreak; mobilisation processes of research forces; (existing) national or regional structures that advise governments on R&I during emergencies

Name	Description	url
Administration of the Ministry of Health and social security - Direction de la Santé	Depending on the nature of the health threat see also : <a href="https://sante.public.lu/fr.html">https://sante.public.lu/fr.html</a>	<a href="https://dirsante.gouvernement.lu/">https://dirsante.gouvernement.lu/</a>
COVID-19 Task Force	The COVID-19 Task Force has been set up in order to offer the health system the combined expertise available within the Luxembourg public research sector (LIH, LISER, LIST, LNS, Luxinnovation, University and FNR, under the coordination of the Ministry of Higher Education and Research). This was an ad-hoc task force specific to the Covid pandemic. There is no specific mechanism foreseen beyond this	<a href="https://www.researchluxembourg.org/en/covid-19-task-force/">https://www.researchluxembourg.org/en/covid-19-task-force/</a>
High Commission for National Protection (HCNP)	The HCNP's key mission is to prevent crises and protect the country and population against the effects of such a crisis.	<a href="https://hcpn.gouvernement.lu/en.html">https://hcpn.gouvernement.lu/en.html</a>
Luxembourg Institute of Health (LIH)	depending on nature of health threat, experts from LIH might be consulted	<a href="https://www.lih.lu/en/">https://www.lih.lu/en/</a>
Luxembourg Institute of Socio-Economic Research (LISER)	LISER is a research institute specialized in the analysis of socio-economic change	<a href="https://liser.lu/">https://liser.lu/</a>
Luxembourg Institute of Science and Technology (LIST)	depending on the nature of the health threat, experts from LIST might be consulted for wastewater surveillance	<a href="https://www.list.lu/">https://www.list.lu/</a>
Luxembourg National Research Fund (FNR)	Luxembourg National Research Fund (FNR) is the main funder of research activities in Luxembourg. (Fundamental and implementation).	<a href="https://www.fnr.lu/">https://www.fnr.lu/</a>
LuxInnovation	National Innovation agency in Luxembourg with 2 main missions: empower companies to innovate and identify innovation opportunities and foster collaborative innovation projects. LuxInnovation provides support in 4 different fields: digitalization, innovation, sustainability and national and European funding tools	<a href="https://luxinnovation.lu/">https://luxinnovation.lu/</a>
Ministry of Higher Education and Research		<a href="http://www.mesr.public.lu">http://www.mesr.public.lu</a>
National Health Laboratoy (LNS)	LNS develops analytical and scientific expertise related to the prevention, diagnosis and monitoring of human diseases and ensures the role of a national control or reference laboratory	<a href="https://lins.lu/">https://lins.lu/</a>
University of Luxembourg	depending on the nature of the health threat experts from the University might be consulted	<a href="https://www.uni.lu/en/">https://www.uni.lu/en/</a>

Version July 2025



BE READY is responding to the call: HORIZON-HLTH-2021-DISEASE-04-06 "Building a European partnership for pandemic preparedness" under grant agreement 101057795. Starting date: 01.06.2022. | End Date 31.05.2025

BE READY PLUS is responding to the call: HORIZON-HLTH-2024-DISEASE-17 "Pandemic preparedness and response: Maintaining and enhancing the preparatory work for a co-funded European partnership for pandemic" under grant agreement 101195079. Starting date: 01.01.2025. | End Date 31.12.2025

Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Health and Digital Executive Agency (HADEA), under the powers delegated by the European Commission. Neither the European Union nor the granting authority can be held responsible for them.

This country profile is based on input received via [https://ec.europa.eu/eusurvey/runner/BEREADY\\_Questionnaire\\_Observatory](https://ec.europa.eu/eusurvey/runner/BEREADY_Questionnaire_Observatory) and desktop research and does not contain any private information