An Evaluation of International Pandemic Recovery Strategies and Identification of Good Practice Relevant to Scotland: Appendices

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Appendix 1: Systematic review of published academic literature on COVID recovery policies and plans - Supplementary Methods

Supplementary Table 1.1 - Search strategy

Database searches covered three concept areas: Covid-19, recovery policy, and OECD countries. We used the NICE OECD countries' geographic search filter (Ayiku et al., 2021) for Medline and Embase, and simpler OECD country name searches in WHO Covid Literature and Web of Science databases. Search results were exported in bulk to EndNote for record management. Deduplication was handled pricipally using the SR Accelerator's Deduplicator (Clark et al., 2020) before records were uploaded to Covidence for screening.

Database	Search strategy	Notes
WHO Covid-19	((ti:(recovery AND ((strateg*) OR (plan*) OR (campaign*)))) OR (ab:(recovery AND ((strateg*) OR (plan*) OR (campaign*))))) AND	12 July 2022
Global literature	(tw:(australasia) OR (australia) OR (austria) OR (baltic) OR (belgium) OR (canada) OR (chile) OR (Colombia) OR (Costa Rica) OR	(400 results)
on coronavirus	(czech republic) OR (Denmark) OR (estonia) OR (europe*) OR (finland) OR (france) OR (germany) OR (greece) OR (hungary) OR	
disease	(iceland) OR (ireland) OR (israel) OR (italy) OR (japan) OR (korea) OR (latvia) OR (lithuania) OR (luxembourg) OR (mexico) OR	
	(netherlands) OR (new zealand) OR (north america) OR (norway) OR (poland) OR (portugal) OR (republic of korea) OR	
	(scandinavia*) OR (nordic) OR (slovakia) OR (slovenia) OR (spain) OR (sweden) OR (switzerland) OR (turkey) OR (united kingdom)	
	OR (united states)) AND ((barrier*) OR (inequalit*) OR (equitable) OR (economic AND ((impact*) OR (imbalan*))) OR ((social AND	
	(impact*) OR (imbalan*))) OR (recession) OR (renewable) OR (education*) OR (determinant*))	
Ovid MEDLINE(R)	1 COVID-19/ or SARS-CoV-2/ or (COVID-19* or Coronavirus disease 2019* or Coronavirus 2019 or COVID-2019* or SARS-	13 July 2022
and In-Process, In-	CoV-2 or SARS CoV 2 or SARS-CoV-2019).ti,ab. 247720	(164 results)
Data-Review &	2 ((Strateg* or Plan* or Campaign*) adj3 Recovery).ti,ab. 3532	
Other Non-Indexed	afghanistan/ or africa/ or africa, northern/ or africa, central/ or africa, eastern/ or "africa south of the sahara"/ or africa,	
Citations <1946 to	southern/ or africa, western/ or albania/ or algeria/ or andorra/ or angola/ or "antigua and barbuda"/ or argentina/ or armenia/	
July 13, 2022>	or azerbaijan/ or bahamas/ or bahrain/ or bangladesh/ or barbados/ or belize/ or benin/ or bhutan/ or bolivia/ or borneo/ or	
	"bosnia and herzegovina"/ or botswana/ or brazil/ or brunei/ or bulgaria/ or burkina faso/ or burundi/ or cabo verde/ or	
	cambodia/ or cameroon/ or central african republic/ or chad/ or exp china/ or comoros/ or congo/ or cote d'ivoire/ or croatia/ or	
	cuba/ or "democratic republic of the congo"/ or cyprus/ or djibouti/ or dominica/ or dominican republic/ or ecuador/ or egypt/ or	
	el salvador/ or equatorial guinea/ or eritrea/ or eswatini/ or ethiopia/ or fiji/ or gabon/ or gambia/ or "georgia (republic)"/ or	
	ghana/ or grenada/ or guatemala/ or guinea/ or guinea-bissau/ or guyana/ or haiti/ or honduras/ or independent state of samoa/	
	or exp india/ or indian ocean islands/ or indochina/ or indonesia/ or iran/ or iraq/ or jamaica/ or jordan/ or kazakhstan/ or kenya/	
	or kosovo/ or kuwait/ or kyrgyzstan/ or laos/ or lebanon/ or liechtenstein/ or lesotho/ or liberia/ or libya/ or madagascar/ or	
	malaysia/ or malawi/ or mali/ or malta/ or mauritania/ or mauritius/ or mekong valley/ or melanesia/ or micronesia/ or monaco/	
	or mongolia/ or montenegro/ or morocco/ or mozambique/ or myanmar/ or namibia/ or nepal/ or nicaragua/ or niger/ or nigeria/	
	or oman/ or pakistan/ or palau/ or exp panama/ or papua new guinea/ or paraguay/ or peru/ or philippines/ or qatar/ or "republic"	

Database	Search strategy	Notes
	of belarus"/ or "republic of north macedonia"/ or romania/ or exp russia/ or rwanda/ or "saint kitts and nevis"/ or saint lucia/ or "saint vincent and the grenadines"/ or "sao tome and principe"/ or saudi arabia/ or serbia/ or sierra leone/ or senegal/ or seychelles/ or singapore/ or somalia/ or south africa/ or south sudan/ or sri lanka/ or sudan/ or suriname/ or syria/ or taiwan/ or tajikistan/ or tanzania/ or thailand/ or timor-leste/ or togo/ or tonga/ or "trinidad and tobago"/ or tunisia/ or turkmenistan/ or uganda/ or ukraine/ or united arab emirates/ or uruguay/ or uzbekistan/ or vanuatu/ or venezuela/ or vietnam/ or west indies/ or yemen/ or zambia/ or zimbabwe/ 1232321 4 "Organisation for Economic Co-Operation and Development"/448 5 australasia/ or exp australia/ or austria/ or baltic states/ or belgium/ or exp canada/ or chile/ or colombia/ or costa rica/ or czech republic/ or exp denmark/ or estonia/ or europe/ or finland/ or exp france/ or exp germany/ or greece/ or hungary/ or iceland/ or ireland/ or israel/ or exp italy/ or exp japan/ or korea/ or latvia/ or lithuania/ or luxembourg/ or mexico/ or netherlands/ or new zealand/ or north america/ or exp norway/ or poland/ or portugal/ or exp "republic of korea"/ or "scandinavian and nordic countries"/ or slovakia/ or slovenia/ or spain/ or sweden/ or switzerland/ or turkey/ or exp united kingdom/ or exp united states/ 3422917 6 European Union/ 17296 7 Developed Countries/ 21176 8 4 or 5 or 6 or 7 3438390 9 3 not 8 1144530 10 1 and 2 178	
Embase <1980 to 2022 Week 27>	11 10 not 9 164 1 afghanistan/ or africa/ or "africa south of the sahara"/ or albania/ or algeria/ or andorra/ or angola/ or argentina/ or "antigua and barbuda"/ or armenia/ or exp azerbaijan/ or bahamas/ or bahrain/ or bangladesh/ or barbados/ or belarus/ or belize/ or benin/ or bhutan/ or bolivia/ or borneo/ or exp "bosnia and herzegovina"/ or botswana/ or exp brazil/ or brunei darussalam/ or bulgaria/ or burkina faso/ or burundi/ or cambodia/ or cameroon/ or cape verde/ or central africa/ or central african republic/ or chad/ or exp china/ or comoros/ or congo/ or cook islands/ or cote d'ivoire/ or croatia/ or cuba/ or cyprus/ or democratic republic congo/ or djibouti/ or dominica/ or dominican republic/ or ecuador/ or el salvador/ or egypt/ or equatorial guinea/ or eritrea/ or eswatini/ or ethiopia/ or exp "federated states of micronesia"/ or fiji/ or gabon/ or gambia/ or exp "georgia (republic)"/ or ghana/ or grenada/ or guatemala/ or guinea-bissau/ or guyana/ or haiti/ or honduras/ or exp india/ or exp indonesia/ or iran/ or exp iraq/ or jamaica/ or jordan/ or kazakhstan/ or kenya/ or kiribati/ or kosovo/ or kuwait/ or kyrgyzstan/ or laos/ or lebanon/ or liechtenstein/ or lesotho/ or liberia/ or libyan arab jamahiriya/ or madagascar/ or malawi/ or exp malaysia/ or maldives/ or mali/ or mauritania/ or mauritius/ or melanesia/ or moldova/ or monaco/ or mongolia/ or "montenegro (republic)"/ or morocco/ or mozambique/ or myanmar/ or namibia/ or nauru/ or nepal/ or nicaragua/ or niger/ or nigeria/ or niue/ or north africa/ or oman/ or exp pakistan/ or palau/ or palestine/ or panama/ or papua new guinea/ or paraguay/ or peru/ or philippines/ or polynesia/ or qatar/ or "republic of north macedonia"/ or romania/ or exp russian federation/ or rwanda/ or sahel/ or "saint kitts and nevis"/ or "saint lucia"/ or "saint vincent and the grenadines"/ or saudi arabia/ or senegal/ or exp serbia/ or seychelles/ or sierra leone/ or singapore/ or "sao tome and principe"/ or solomon islands/ or exp	12 July 2022 168 results

Database	Search strategy	Notes
	somalia/ or south africa/ or south asia/ or south sudan/ or exp southeast asia/ or sri lanka/ or sudan/ or suriname/ or syrian arab republic/ or taiwan/ or tajikistan/ or tanzania/ or thailand/ or timor-leste/ or togo/ or tonga/ or "trinidad and tobago"/ or tunisia/ or turkmenistan/ or tuvalu/ or uganda/ or exp ukraine/ or exp united arab emirates/ or uruguay/ or exp uzbekistan/ or vanuatu/ or venezuela/ or viet nam/ or western sahara/ or yemen/ or zambia/ or zimbabwe/ 1524662 2 "Organisation for Economic Co-operation and Development"/ 2078 3 European Union/ 29367 4 developed country/ 32833 5 exp australia/ or "australia and new zealand"/ or austria/ or baltic states/ or exp belgium/ or exp canada/ or chile/ or colombia/ or costa rica/ or czech republic/ or denmark/ or estonia/ or europe/ or exp finland/ or exp france/ or exp germany/ or greece/ or hungary/ or iceland/ or ireland/ or israel/ or exp italy/ or japan/ or korea/ or latvia/ or lithuania/ or luxembourg/ or exp mexico/ or netherlands/ or new zealand/ or north america/ or exp norway/ or poland/ or exp portugal/ or scandinavia/ or sweden/ or slovakia/ or slovenia/ or south korea/ or exp spain/ or switzerland/ or "turkey (republic)"/ or exp united kingdom/ or exp united states/ or western europe/ 3462296 6 2 or 3 or 4 or 5 3493378 7 1 not 6 1385486 8 coronavirus disease 2019/233175 9 Severe acute respiratory syndrome coronavirus 2/ 66173 10 (COVID-19* or Coronavirus disease 2019* or Coronavirus 2019 or COVID-2019* or SARS-CoV-2 or SARS CoV 2 or SARS-CoV-2019).ti,ab. 268872 11 8 or 9 or 10 296296 12 ((Strateg* or Plan* or Campaign*) adj3 Recovery).ti,ab. 4036 13 11 and 12 185	
Web of Science Core Collection (Editions = A&HCI, BKCI-SSH, BKCI-S, CCR-EXPANDED, ESCI, IC, CPCI-SSH, CPCI-S, SCI- EXPANDED, SSCI)	covid-19 (Topic) and ((Strateg* OR Plan* OR Campaign*) NEAR/3 Recovery) (Topic) and australasia OR australia OR austria OR baltic OR belgium OR canada OR chile OR colombia OR "costa rica" OR "czech republic" OR denmark OR estonia OR europe* OR finland OR france OR germany OR greece OR hungary OR iceland OR ireland OR israel OR italy OR japan OR korea OR latvia OR lithuania OR luxembourg OR mexico OR netherlands OR "new zealand" OR "north america" OR norway OR poland OR portugal OR "republic of korea" OR scandinavia* OR nordic OR slovakia OR slovenia OR spain OR sweden OR switzerland OR turkey OR "united kingdom" OR "united states" (Topic)	12 July 2022 125 results

Ayiku, L., et al. (2021). The NICE OECD countries' geographic search filters: Part 2-validation of the MEDLINE and Embase (Ovid) filters. *J Med Libr Assoc*, 109(4), 583-589. https://doi.org/10.5195/jmla.2021.1224

Clark, J., et al. (2020). A full systematic review was completed in 2 weeks using automation tools: a case study. *J Clin Epidemiol*, 121, 81-90. https://doi.org/10.1016/j.jclinepi.2020.01.008

Supplementary Table 1.2 - Screening criteria for article selection

	Inclusion	Exclusion	Further information
Focus of paper	COVID recovery policies and plans	Policies/policy proposals not linked to pandemic recovery.	COVID recovery plans or policies include:
		Policies/policy proposals which focus on responding to the pandemic, rather than post-pandemic recovery.	New policies/policy proposals created explicitly to drive social and economic recovery from the pandemic.
			Pre-existing policies/policy proposals extended, amended or repurposed in order to drive social and economic recovery from the pandemic.
Level of detail	Paper includes a detailed analysis of at least one policy or policy proposal.	Minimal or no analysis of specific policies or policy proposals.	Paper reports analysis of some/all of: policy development, policy motivation, values, impact on inequalities, comparison with other policy options, engagement with stakeholders, tradeoffs with alternative policy options, policy windows, etc.
Policy ownership	Policies proposed or enacted by governments	Policies proposed by non- governmental actors (e.g. activists, non- governmental organisations, candidates for political office).	
Jurisdiction	Policies proposed or enacted at national level or below	Policies proposed or enacted at supra-national level (e.g. EU)	
Study methodology	Policy analyses based on empirical data (qualitative and/or quantitative)	Statistical modelling studies based on multiple assumptions	

Supplementary Table 1.3 - Data extraction and critical appraisal proforma

This data extraction table was developed using the sources in the right-hand column (see references below).

Item	Detail	Example	Source (based on or adapted from)
BASICS			,
Country:			
Year:			
Policy title / description:	Either an official title, or our working name for it		
Document(s) describing the policy:			
PROBLEM STATEMENT			
How is the problem described / framed in this policy?	What is the dominant narrative? How does the policy define the problem it wants to tackle?	e.g. "too many people claiming unemployment benefits"	(Roe, 1994)
What alternative frames might we want to bring into consideration?	This is a question which would require us to draw on outside knowledge/expertise. Leave this to the end and (if there is time) do some (non-systematic) literature searching to flesh this out.		
INTERVENTION			
What intervention(s) does the policy propose in order to address the problem it defines?		e.g. "apprenticeships for unemployed young people"	

Item	Detail	Example	Source (based on or adapted from)
What actor(s) / organisation(s) are involved/expected to be involved in delivering this intervention?			(Walt & Gilson, 1994) (policy triangle – content, context, process, actors)
What is the projected cost of this intervention to the population? Consider: • Lifetime cost / savings • Annual cost / savings • Who bears the cost? (Individuals / State / etc) • Cost per head of population ('per capita')			(Rodriguez-Garcia, 2000, p. 16) (efficiency is one of 5 evaluative criteria)
What other factors (e.g. infrastructure, personnel, prior projects) are identified as essential for the effective implementation of this intervention?			(Rodriguez-Garcia, 2000, p. 16) (effectiveness is one of 5 evaluative criteria)
THEORY OF CHANGE			
What does the policy say about cause and effect (how the intervention will address the problem)?	What theories, expectations, rationales and rationalisations (implicit and explicit) are there for why the intervention might work?		(Pawson et al., 2005)
OUTCOMES			
What does the policy say about expected benefits of the intervention in terms of outcomes ? Particularly:			(Rodriguez-Garcia, 2000, p. 16) (effectiveness and impact are 2 of 5 evaluative criteria)
 How many people will be affected? 			(Bardach, 2000, pp. 2-42)

Item	Detail	Example	Source (based on or adapted from)
Who? (e.g., particular population groups?)			(step 7 of practical guide focuses on weighing the
Over what timeframe?			outcomes.
			Also support tools)
ETHICS		,	
Does the policy identify any known or potential		This might include:	(Kass, 2001)
burdens or unintended harmful consequences of		curtailment of	
the intervention?		individual liberties, restriction of	
		opportunities, risks to	
		privacy or	
		confidentiality.	
Does the policy state the people/groups likely to	Are risks and benefits likely to be		
be impacted by the benefits and harms identified?	borne disproportionately		
	between different groups?		
What other sources of evidence do we have for	This is a question which would		
the potential impact of the proposed intervention?	require us to draw on outside		
	knowledge/expertise. Leave this		
	to the end and (if there is time) do some (non-systematic)		
	literature searching to flesh this		
	out.		
EQUITY IMPACTS			
What inequalities exist in relation to the problem ?			(Signal, 2008)
Who is advantaged and who is disadvantaged?	The reason for asking who is		
-	advantaged (and not just who is		
	disadvantaged) is to identify		
	unfair structural inequalities, as		

Item	Detail	Example	Source (based on or adapted from)
	opposed to assuming that those who are disadvantaged are responsible for their disadvantage.		
What are the reasons for this disadvantage? Consider:			
 socioeconomic factors social and cultural factors environmental factors availability of or access to services individual/behavioural factors geographical factors biological/health factors 			
Is it likely that the intervention will be less effective or accessible for different population groups?			(SURE Collaboration, 2011) . (Adapted from Worksheet for taking equity into consideration)
TRANSFERABILITY TO SCOTLAND			
How relevant is the problem (as defined by the policy) to the Scottish context?	Have we sufficiently addressed these questions through our choice of countries?		(Rodriguez-Garcia, 2000, p. 16) (relevance is one of 5 evaluative criteria)
How relevant are the intended outcomes of the intervention to the Scottish context?			
Is the magnitude of the problem in Scotland comparable?			(Buffett et al., 2007)
Is the target population in Scotland comparable? Will any differences in characteristics (e.g.			

Item	Detail	Example	Source (based on or adapted from)
ethnicity, socio-demographic variables, numbers affected) impact intervention effectiveness locally?			
Political acceptability or leverage: will the intervention be allowed or supported in the Scottish political context?	We may not be able to answer this		
Social acceptability : Is the Scottish population likely to accept, support and be interested in the intervention?	We may not be able to answer this		
Is the intervention feasible in terms of essential resources (personnel and financial)? Consider: • What resources are essential for implementation of the intervention? • Are sufficient resources available?	We may not be able to answer this		
Is the intervention feasible in terms of Scottish Government capacity and strategic priorities ? To what extent does it overlap with existing programmes/policies? Are there any organisational or structural barriers?	We have addressed the strategic priorities aspect, as we are focusing only on SG priority policies. We may not be able to address the capacity aspect.		
ALTERNATIVES			
Does the policy include any information about alternative interventions that have been dismissed (or previously tried) to make way for this one?			
RIGOUR		1	

Item	Detail	Example	Source (based on or adapted from)
What information is included about the evidence that was used to develop the policy?	Consider both the robustness/quality of the evidence and the expected impact (effect size) of the policy or intervention.		(Kass, 2001)
What information is included about the processes used to develop the policy (e.g. public consultations, engagement with key stakeholders, other political groupings, etc)?			(Dalglish et al., 2021) (Corresponds to the data analysis stage of the READ approach)
Are there any internal contradictions evident within the policy?			
Are there any concerns about the credibility of the policy document (e.g. accuracy, good faith, balance, selective reasoning, etc.)?			

Bardach, E. (2000). A practical guide for policy analysis: the eightfold path to more effective problem solving. Chatham House Publishers, Seven Bridges Press.

Buffett, C., et al. (2007). Can I use this evidence in my program decision? Assessing the applicability and transferability of evidence. National Collaborating Centre for Methods and Tools. http://www.nccmt.ca/pubs/2007_12_AT_tool_v_nov2007_ENG.pdf

Dalglish, S. L., et al. (2021). Document analysis in health policy research: the READ approach. *Health Policy and Planning*, *35*(10), 1424-1431. https://doi.org/10.1093/heapol/czaa064

Kass, N. E. (2001). An ethics framework for public health. American Journal of Public Health, 91(11), 1776-1782. https://doi.org/10.2105/AJPH.91.11.1776

Pawson, R., et al. (2005). Realist review - a new method of systematic review designed for complex policy interventions. *Journal of Health Services Research & Policy*, 10(1 suppl), 21-34. https://doi.org/10.1258/1355819054308530

Rodriguez-Garcia, R. (2000). Health policy analysis in a nutshell. The George Washington University Center for Global Health.

Roe, E. (1994). Narrative policy analysis: theory and practice. Duke University Press.

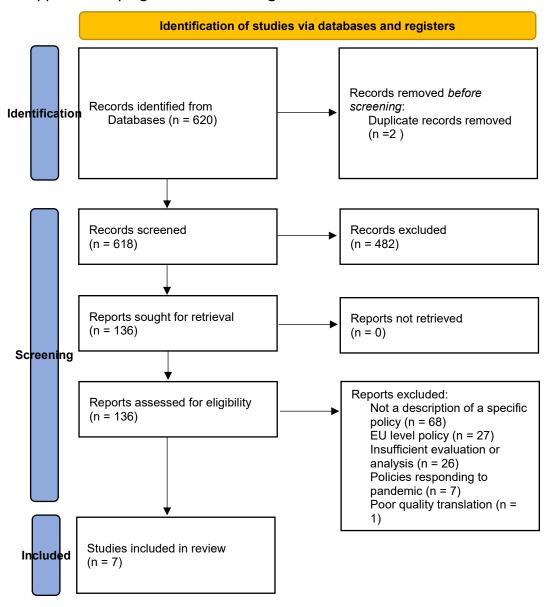
Signal, L. (2008). The health equity assessment tool: a user's guide. Ministry of Health.

SURE Collaboration. (2011). SURE Guides for Preparing and Using Evidence-Based Policy Briefs Version 2.1 [updated November 2011]. The SURE Collaboration. www.evipnet.org/sure

Walt, G., & Gilson, L. (1994). Reforming the health sector in developing countries: the central role of policy analysis. *Health Policy and Planning*, *9*(4), 353-370. https://doi.org/10.1093/heapol/9.4.353

Appendix 2: Systematic review of published academic literature on COVID recovery policies and plans - Supplementary Results

Supplementary Figure 2.1 - Screening and selection of studies



Supplementary Table 2.1 - List of excluded studies, with reasons for exclusion

Reference	Exclusion reason
Adams, E. A., et al. (2021). "It's been up and down"-perspectives on living through COVID-19 for individuals who experience homelessness: a qualitative study. <i>The Lancet</i> , 398(Supplement 2), S6. https://doi.org/https://dx.doi.org/10.1016/S0140-6736%2821%2902549-6	Not a description of a specific policy
Alam, K., et al. (2022). Digital Transformation among SMEs: Does Gender Matter? Sustainability, 14(1), 20. https://doi.org/10.3390/su14010535	Not a description of a specific policy
Aloui, N., et al. (2021). Challenges of Renewable Energy to Sustainable Development: Post-Coronavirus' Economic Recovery Plan. <i>Lecture Notes in Energy</i> , 82, 37-56. https://doi.org/10.1007/978-3-030-71403-1_3	Not a description of a specific policy
Álvarez, J. F., et al. (2022). Economía Social y covid-19: Una mirada internacional. CIRIEC-España, revista de economía pública, social y cooperativa, 104(104), 203-231. https://doi.org/10.7203/ciriec-e.104.21855	Not a description of a specific policy
Androniceanu, A. (2020). Major structural changes in the EU policies due to the problems and risks caused by COVID-19. <i>Administratie si Management Public</i> , 34(34), 137-149. https://doi.org/10.24818/amp/2020.34-08	EU related policy
Anonymous. (2020). Education at the core of jobs-led virus recovery. <i>Education</i> , 1-2. https://search.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/en/covidwho-950528	Not a description of a specific policy
Anonymous. (2021). 4.I. Workshop: Health systems resilience during COVID-19: Lessons for building back better. <i>European Journal of Public Health</i> , 31(Supplement_3). https://doi.org/10.1093/eurpub/ckab164.285	Not a description of a specific policy
Anonymous. (2021). 7.N. Workshop: Engaging the young stakeholders in planning for recovery from the Covid-19 pandemic. <i>European Journal of Public Health</i> , 31(Supplement_3). https://doi.org/10.1093/eurpub/ckab164.532	Not a description of a specific policy
Arce, O., et al. (2020). Reflexiones sobre el diseño de un Fondo de Recuperación europeo. <i>Preprint</i> . https://doi.org/10.2139/ssrn.3611597	EU related policy
Arjona-Sánchez, M. J. (2020). Pandemia E EquilÍbrio OrÇamental, Um Estudo Comparativo (Brasil, Zona Euro, Estados Unidos E Reino Unido). <i>Rei - Revista Estudos Institucionais</i> , 6(3), 1029-1048. https://doi.org/10.21783/rei.v6i3.575	Not a description of a specific policy
Ashour, L. A., et al. (2021). Paratransit services for people with disabilities in the Seattle region during the COVID-19 pandemic: Lessons for recovery planning. <i>J Transp Health</i> , 22, 101115. https://doi.org/10.1016/j.jth.2021.101115	Policies to respond to the pandemic
Banelienė, R. (2021). Sustainable Economic Growth in the European Union under COVID-19 Conditions. <i>Contemporary Economics</i> , 16(1), 121-134. https://doi.org/10.5709/ce.1897-9254.472	Not a description of a specific policy
Bartle, J. R., et al. (2021). Sustainability and Air Freight Transportation: Lessons from the Global Pandemic. Sustainability, 13(7). https://doi.org/10.3390/su13073738	Not a description of a specific policy
Belesova, K., et al. (2020). Integrating climate action for health into covid-19 recovery plans. <i>BMJ</i> , <i>370</i> , m3169. https://doi.org/10.1136/bmj.m3169	Not a description of a specific policy
Bellandi, M. (2020). Some Notes on the Impacts of Covid-19 on Italian SME Productive Systems. <i>Symphonya. Emerging Issues in Management</i> (2), 63-72. https://doi.org/10.4468/2020.2.07bellandi	Not a description of a specific policy
Belsey-Priebe, M., et al. (2021). COVID-19's Impact on American Women's Food Insecurity Foreshadows Vulnerabilities to Climate Change. Int J Environ Res Public Health, 18(13). https://doi.org/10.3390/ijerph18136867	No evaluation
Birenboim, A., et al. (2022). Touristification, smartization, and social sustainability in European regions. <i>Current Issues in Tourism</i> , 1-5. https://doi.org/10.1080/13683500.2022.2051449	Not a description of a specific policy
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Botta, A., et al. (2020). Fighting the COVID-19 Crisis: Debt Monetisation and EU Recovery Bonds. <i>Inter Econ</i> , 55(4), 239-244. https://doi.org/10.1007/s10272-020-0907-z	EU related policy
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Caravantes López de Lerma, G. M., & Romero González, J. (2021). Vivienda pública y estado de bienestar en España: balance y estado de la cuestión en la época del COVID-19. <i>Boletin De La Asociacion De Geografos Espanoles</i> (91), 1-41. https://doi.org/10.21138/bage.3152	No evaluation
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Chaves-Maza, M., & Fedriani Martel, E. M. (2020). Entrepreneurship support ways after the COVID-19 crisis. <i>Entrepreneurship and Sustainability Issues</i> , 8(2), 662-681. https://doi.org/10.9770/jesi.2020.8.2(40)	No evaluation
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Cote, S. M., et al. (2022). Understanding and attenuating pandemic-related disruptions: a plan to reduce inequalities in child development. <i>Can J Public Health</i> , 113(1), 23-35. https://doi.org/10.17269/s41997-021-00584-7	Not a description of a specific policy
Crescenzi, R., et al. (2021). Mind the Covid-19 crisis: An evidence-based implementation of Next Generation EU. <i>J Policy Model</i> , 43(2), 278-297. https://doi.org/10.1016/j.jpolmod.2021.03.002	Not a description of a specific policy
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De Witte, B. (2021). THE EUROPEAN UNION'S COVID-19 RECOVERY PLAN: THE LEGAL ENGINEERING OF AN ECONOMIC POLICY SHIFT. Common Market Law Review, 58(3), 635-681. <go isi="" to="">://WOS:000658608500002</go>	No evaluation
del Guayo Castiella, I., & Marmolejo Cervantes, M. A. (2021). The recovery of the energy sector after the COVID-19 pandemic: a comparison between Latin America and the European Union. <i>Journal of Energy & Natural Resources Law, 40</i> (2), 165-181. https://doi.org/10.1080/02646811.2021.1930710	EU related policy
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Doustaly, C., & Roy, V. (2022). A Comparative Analysis of the Economic Sustainability of Cultural Work in the UK since the COVID-19 Pandemic and Examination of Universal Basic Income as a Solution for Cultural Workers. <i>Journal of Risk and Financial Management</i> , 15(5), 17. https://doi.org/10.3390/jrfm15050196	Not a description of a specific policy
Doyle, A., et al. (2021). Building Resilient, Smart Communities in a Post-COVID Era. <i>International Journal of E-Planning Research</i> , 10(2), 18-26. https://doi.org/10.4018/IJEPR.20210401.oa2	Not a description of a specific policy
Dudek, H., & Myszkowska-Ryciak, J. (2020). The Prevalence and Socio-Demographic Correlates of Food Insecurity in Poland. Int J Environ Res Public Health, 17(17). https://doi.org/10.3390/ijerph17176221	No evaluation
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Entin, M. L., et al. (2022). New Principles of Resource Distribution in the Eu and Their Impact on the Countries of the Baltic Region. <i>Baltic Region</i> , 14(1), 122-137. https://doi.org/10.5922/2079-8555-2022-1-8	EU related policy
Etowa, J., & Hyman, I. (2021). Unpacking the health and social consequences of COVID-19 through a race, migration and gender lens. Can J Public Health, 112(1), 8-11. https://doi.org/10.17269/s41997-020-00456-6 PMC -	Not a description of a specific policy
Fankhauser, S., et al. (2020). The readiness of industry for a transformative recovery from COVID 19. <i>Global Sustainability</i> , 3, 10. https://doi.org/10.1017/sus.2020.29	Not a description of a specific policy
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Fegert, J. M., et al. (2021). Next generation Europe: a recovery plan for children, adolescents and their families: For the time after the pandemic, we need a vision and investments for the future. <i>Eur Child Adolesc Psychiatry</i> , 30(7), 991-995. https://doi.org/10.1007/s00787-021-01767-w	Not a description of a specific policy
Fujita, M., et al. (2021). Building Back Better to Overcome the COVID-19 Pandemic and the Great East Japan Earthquake. <i>Economics, Law, and Institutions in Asia Pacific</i> , 235-281. https://doi.org/10.1007/978-981-16-4951-6_9	Not a description of a specific policy
Gaglione, F., & Ayiine-Etigo, D. A. (2021). Resilience as an urban strategy: a comparison of resources and interventions in the European Recovery Plans for the green transition. <i>Tema-Journal of Land Use Mobility and Environment</i> , 14(3), 501-506. https://doi.org/10.6092/1970-9870/8303	Not a description of a specific policy
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García-Vaquero, M., et al. (2021). European Green Deal and Recovery Plan: green jobs, skills and wellbeing economics. Preprint. https://doi.org/10.20944/preprints202106.0193.v1	Not a description of a specific policy
Geroe, S. (2022). 'Technology not taxes': A viable Australian path to net zero emissions? <i>Energy Policy</i> , 165, 112945-112945. https://doi.org/10.1016/j.enpol.2022.112945	EU related policy
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Hannan, S. A., et al. (2020). Mexico Needs a Fiscal Twist: Response to COVID-19 and Beyond. Preprint. https://doi.org/10.2139/ssrn.3744682	Policies to respond to the pandemic
Hesselman, M., et al. (2021). Energy poverty in the COVID-19 era: Mapping global responses in light of momentum for the right to energy. <i>Energy Res Soc Sci, 81,</i> 102246. https://doi.org/10.1016/j.erss.2021.102246	No evaluation
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James, A. (2022). Why has mental health been forgotten in the government's recovery plans? <i>BMJ</i> , <i>376</i> , o585. https://doi.org/10.1136/bmj.o585	Not a description of a specific policy
Kapiriri, L., et al. (2022). A framework to support the integration of priority setting in the preparedness, alert, control and evaluation stages of a disease pandemic. <i>Glob Public Health</i> , 17(8), 1479-1491. https://doi.org/10.1080/17441692.2021.1931402	Not a description of a specific policy
Kiss-Dobronyi, B., et al. (2021). Macroeconomic assessment of possible Green Recovery scenarios in Visegrad countries. <i>Society and Economy</i> , 43(3), 227-252. https://doi.org/10.1556/204.2021.00014	Not a description of a specific policy
Kolesnikova, M. (2020). EU Maritime Economy and COVID-19. Contemporary Europe, 97(4), 102-111. https://doi.org/10.15211/soveurope42020102111	EU related policy
Kolluru, M., et al. (2021). A Study of Global Recession Recovery Strategies in Highly Ranked GDP EU Countries. <i>Economics</i> , 9(1), 85-105. https://doi.org/10.2478/eoik-2021-0011	Not a description of a specific policy
Kopsidas, A., et al. (2021). How did the COVID-19 pandemic impact traveler behavior toward public transport? The case of Athens, Greece. Transportation Letters, 13(5-6), 344-352. https://doi.org/10.1080/19427867.2021.1901029	Not a description of a specific policy
Kougias, I., et al. (2021). The role of photovoltaics for the European Green Deal and the recovery plan. Renewable and Sustainable Energy Reviews, 144, 8. https://doi.org/10.1016/j.rser.2021.111017	Not a description of a specific policy
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Lahcen, B., et al. (2020). Green Recovery Policies for the COVID-19 Crisis: Modelling the Impact on the Economy and Greenhouse Gas Emissions. Environ Resour Econ (Dordr), 76(4), 731-750. https://doi.org/10.1007/s10640-020-00454-9	No evaluation
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López-Fernández, A. M., et al. (2022). Machine Learning Sustainable Competitiveness for Global Recovery. <i>Palgrave Studies in Democracy, Innovation and Entrepreneurship for Growth</i> , 241-267. https://doi.org/10.1007/978-3-030-91532-2_13	Not a description of a specific policy
Maiden, H., et al. (2022). Spotlight on community engagement: NICE resources in the context of COVID-19-NICE public health guidance update. <i>J Public Health (Oxf)</i> , 44(2), e249-e251. https://doi.org/10.1093/pubmed/fdab103	Not a description of a specific policy
Majnemer, A., et al. (2021). Time to be counted: COVID-19 and intellectual and developmental disabilities—an RSC Policy Briefing. <i>Facets</i> , <i>6</i> , 1337-1389. https://doi.org/10.1139/facets-2021-0038	Not a description of a specific policy
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Mayen Huerta, C. (2022). Rethinking the distribution of urban green spaces in Mexico City: Lessons from the COVID-19 outbreak. <i>Urban For Urban Green</i> , 70, 127525. https://doi.org/10.1016/j.ufug.2022.127525	Not a description of a specific policy
Mazur-Kumrić, N. P. ZP. I. P. (2021). Triggering emergency procedures: A critical overview of the eu's and un's response to the covid-19 pandemic and beyond. <i>EU and Comparative Law Issues and Challenges Series</i> , 89-119. https://search.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/en/covidwho-1332740	EU related policy
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Moon, JY., et al. (2021). Increasing Global Climate Ambition and Implications for Korea. <i>Preprint</i> . https://doi.org/10.2139/ssrn.3911598	Poor quality translation
Morita, K., & Matsumoto, K. i. (2021). Governance Challenges for Implementing Nature-Based Solutions in the Asian Region. <i>Politics and Governance</i> , <i>9</i> (4), 102-113. https://doi.org/10.17645/pag.v9i4.4420	Not a description of a specific policy
Murray, R., & chief, e. (2021). The NHS needs a comprehensive plan for recovery. BMJ, 373, n1555. https://doi.org/10.1136/bmj.n1555	Not a description of a specific policy
Nae, TM., & Panie, NA. (2021). European Green Deal: The Recovery Strategy Addressing Inequalities. <i>Journal of Eastern Europe Research in Business and Economics</i> , 2021, 1-12. https://doi.org/10.5171/2021.887980	EU related policy
National Academies of Sciences Engineering Medicine. (2022). <i>Toward a Post-Pandemic World: Lessons from COVID-19 for now and the future:</i> Proceedings of a workshop. National Academies Press. https://doi.org/10.17226/26556	EU related policy
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Pascariu, GC., et al. (2021). Institutional Dynamics and Economic Resilience in Central and Eastern EU Countries. Relevance for Policies. Transylvanian Review of Administrative Sciences(SI 2021), 77-103. https://doi.org/10.24193/tras.SI2021.5	Policies to respond to the pandemic
Penwill, N. Y., et al. (2021). Changes in pediatric hospital care during the COVID-19 pandemic: a national qualitative study. <i>BMC Health Serv Res</i> , 21(1), 953. https://doi.org/10.1186/s12913-021-06947-7	EU related policy
Prisecaru, P. (2021). European Green Deal and Energy Crisis in EU. <i>Global Economic Observer</i> , 9(2), 27-34. https://search.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/en/covidwho-1749683	Not a description of a specific policy
Provenzi, L., & Tronick, E. (2020). The power of disconnection during the COVID-19 emergency: From isolation to reparation. <i>Psychol Trauma</i> , 12(S1), S252-S254. https://doi.org/10.1037/tra0000619	Not a description of a specific policy
Rahman, T., et al. (2021). An agent-based model for supply chain recovery in the wake of the COVID-19 pandemic. <i>Comput Ind Eng</i> , 158, 107401. https://doi.org/10.1016/j.cie.2021.107401	Not a description of a specific policy
Rai, P. K., et al. (2022). The effects of COVID-19 transmission on environmental sustainability and human health: Paving the way to ensure its sustainable management. <i>Sci Total Environ</i> , <i>838</i> (Pt 2), 156039. https://doi.org/10.1016/j.scitotenv.2022.156039	EU related policy
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Rozakis, S., et al. (2021). Policy Impact on Regional Biogas Using a Modular Modeling Tool. <i>Energies</i> , <i>14</i> (13), 21. https://doi.org/10.3390/en14133738	EU related policy
Sánchez-Barrueco, M. L. (2021). El nuevo marco presupuestario de la Unión Europea para la recuperación postpandemia. <i>Revista De Derecho Comunitario Europeo</i> (69), 555-599. https://doi.org/10.18042/cepc/rdce.69.03	EU related policy

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Saraceno, F., et al. (2020). European economic, fiscal, and social policy at the crossroads. <i>Constellations</i> , 27(4), 573-593. https://doi.org/10.1111/1467-8675.12540	Not a description of a specific policy
Sarkar, P., et al. (2022). Bridging the supply chain resilience research and practice gaps: pre and post COVID-19 perspectives. <i>Journal of Global Operations and Strategic Sourcing</i> , 29. https://doi.org/10.1108/jgoss-09-2021-0082	Not a description fo a specific policy
Schoen, V., et al. (2021). "We Have Been Part of the Response": The Effects of COVID-19 on Community and Allotment Gardens in the Global North. Frontiers in Sustainable Food Systems, 5. https://doi.org/10.3389/fsufs.2021.732641	No evaluation
Segal, H., et al. (2021). The need for a federal Basic Income feature within any coherent post-COVID-19 economic recovery plan. <i>Facets</i> , 6(1), 394-402. https://doi.org/10.1139/facets-2021-0015	Not a description of a specific policy
Sharifi, A., & Khavarian-Garmsir, A. R. (2020). The COVID-19 pandemic: Impacts on cities and major lessons for urban planning, design, and management. <i>Sci Total Environ</i> , <i>749</i> , 142391. https://doi.org/10.1016/j.scitotenv.2020.142391	EU related policy
Sharma, R., et al. (2021). The role of digital technologies to unleash a green recovery: pathways and pitfalls to achieve the European Green Deal. Journal of Enterprise Information Management, 35(1), 266-294. https://doi.org/10.1108/jeim-07-2021-0293	Not a description of a specific policy
Shipton, D., et al. (2021). Knowing the goal: an inclusive economy that can address the public health challenges of our time. <i>J Epidemiol Community Health</i> , 75(11), 1129-1132. https://doi.org/10.1136/jech-2020-216070	No evaluation
Skolnik, A., et al. (2021). Silent Consequences of COVID-19: Why It's Critical to Recover Routine Vaccination Rates Through Equitable Vaccine Policies and Practices. <i>Ann Fam Med</i> , <i>19</i> (6), 527-531. https://doi.org/10.1370/afm.2730 PMC -	Not a description of a specific policy
Soerjomataram, I., et al. (2022). COVID-19 and Cancer Global Modelling Consortium (CCGMC): A global reference to inform national recovery strategies. <i>J Cancer Policy</i> , <i>32</i> , 100328. https://doi.org/10.1016/j.jcpo.2022.100328	Not a description of a specific policy
Sokhanvar, A., & Jenkins, G. P. (2021). Impact of foreign direct investment and international tourism on long-run economic growth of Estonia. Journal of Economic Studies, 49(2), 364-378. https://doi.org/10.1108/jes-11-2020-0543	Not a description of a specific policy
Symeonidis, V., et al. (2021). The EU's Education Policy Response to the Covid-19 Pandemic: A Discourse and Content Analysis. <i>Center for Educational Policy Studies Journal</i> , 11(Sp.Issue), 1-27. https://doi.org/10.26529/cepsj.1137	No evaluation
Tabor, A. M. (2020). Unclaimed Defined Benefit Pensions Can Help COVID-19 Economic Recovery. <i>J Aging Soc Policy</i> , <i>32</i> (4-5), 488-498. https://doi.org/10.1080/08959420.2020.1777826	No evaluation
Theodoropoulou, S. (2022). Recovery, resilience and growth regimes under overlapping EU conditionalities: the case of Greece. <i>Comparative European Politics</i> , 1-19. https://search.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/en/covidwho-1761967	Not a description of a specific policy
Thornton, P., & Atlantic Council of the United States. (2020). Issue Brief: United G20 Must Pave the Way for Robust Post-COVID-19 Recovery. https://www.atlanticcouncil.org/in-depth-research-reports/issue-brief/united-g20-must-pave-the-way-for-robust-post-covid-19-recovery/	No evaluation
Tian, J., et al. (2022). Global low-carbon energy transition in the post-COVID-19 era. <i>Appl Energy</i> , 307, 118205. https://doi.org/10.1016/j.apenergy.2021.118205	EU related policy
Truger, A. (2020). Reforming EU Fiscal Rules: More Leeway, Investment Orientation and Democratic Coordination. <i>Intereconomics</i> , <i>55</i> (5), 277-281. https://doi.org/10.1007/s10272-020-0915-z	No evaluation
Vacher, C., et al. (2022). Optimizing Strategies for Improving Mental Health in Victoria, Australia during the COVID-19 Era: A System Dynamics Modelling Study. <i>Int J Environ Res Public Health</i> , 19(11). https://doi.org/10.3390/ijerph19116470	Not a description of a specific policy
Vu, K., & Hartley, K. (2021). Drivers of Growth and Catch-up in the Tourism Sector of Industrialized Economies. <i>Journal of Travel Research</i> , 61(5), 1156-1172. https://doi.org/10.1177/00472875211019478	Not a description of a specific policy

Reference	Exclusion reason
WHO. (2022). High-level meeting on health systems resilience: from disruption to delivering better – strategies to promote health services recovery: a virtual meeting hosted by the WHO Regional Office for Europe, 15 November 2021. WHO Regional Office for Europe. https://apps.who.int/iris/handle/10665/351175	No evaluation
Wink, R. (2021). Place-based Transformation Policies for Decarbonization. The Art of Timing. Symphonya(1), 100-110. https://doi.org/10.4468/2021.L10wink	Policies to respond to the pandemic
Yang, L., et al. (2021). American Rescue Plan and the Effects of Stimulus Checks - New York City. <i>Preprint</i> . https://doi.org/10.2139/ssrn.3921162	No evaluation
Yap, O. F. (2020). A New Normal or Business-as-Usual? Lessons for COVID-19 from Financial Crises in East and Southeast Asia. Eur J Dev Res, 1-31. https://doi.org/10.1057/s41287-020-00327-3	No evaluation

Supplementary Table 2.2 - Summary analysis of green recovery policies

Policy [reference]	Aims	Implementation	Costs & Financing	Evidence for Effectiveness	Reducing Inequities	Critical Antecedents	Theory of Change
Recognizing	To respond	Broad-based policy	Budget: No	No information	40% of	Pre-existing concerns:	Current disparities in
the duty of the	holistically to racial	proposals at federal	information. Financ	ing (policy	investments	Increased societal	economic and health
Federal	injustice,	level. Limited information	: No information.	proposal, not	focused on	attention on systemic	outcomes are
Government to	unemployment,	on climate and energy or		enacted).	economic	inequality and racial	inextricably linked to
implement an	the COVID-19	jobs and			opportunity and	violence in 2020	the fossil fuel economy.
agenda to	pandemic, and	infrastructure. More			environmental	followed multiple highly	By taking a holistic
Transform,	climate	detailed plans on equity:			quality in	visible murders of Black	approach to multiple
Heal, and	change. Specific	prioritises focused			marginalised	people by police in the	challenges, a society
Renew by	goals include:	investment in			communities.	US. This focused	with greater racial,
Investing in a	achieve carbon	disadvantaged				attention on broader	economic, and gender
Vibrant	free electricity by	communities to address				issues of environmental	justice; dignified work;
Economy	2035; investment	environmental justice and				injustice: historically	healthy communities;
("THRIVE")	in clean energy	equity, through investing in				marginalised	and a stable climate
	infrastructure and	infrastructure and jobs for				communities have	can be achieved.
[Boyle et al	jobs (renewable	frontline communities that				greater exposure to the	
(2021)]	energy, housing,	have been historically				environmental and	
	transportation,	marginalised in areas of				health harms associated	
	agriculture);	both worse environmental				with fossil fuel	
	address	quality and less access to				production and use.	
	environmental	decent work.					
	justice and equity;						
	support policies for						
	transparent and						
	fair wages						
California	To take climate	No specific implementation	Budget: No	No information	Prioritised	Pre-existing concerns:	Current disparities in
COVID-19	action and address	plans or quantitative	information. <u>Financ</u>	ing	investment in	Increased societal	economic and health
Recovery Deal	inequities.	targets.	: No information.		communities	attention on systemic	outcomes are
					with	inequality and racial	inextricably linked to
[Boyle et al					underinvestmen	violence in 2020	the fossil fuel economy.
(2021)]					t and	followed multiple highly	By taking a holistic
					disproportionate	visible murders of Black	approach to multiple
					burden	people by police in the	challenges, a society
					(pollution from	US. This focused	with greater racial,

		<u> </u>	ı	1	1	1	1
					•	attention on broader	economic, and gender
							justice; dignified work;
						·	healthy communities;
					_	•	and a stable climate
					supporting	communities have	can be achieved.
					policies for	greater exposure to the	
					transparent and	environmental and	
					fair wages.	health harms associated	
						with fossil fuel	
						production and use.	
Relaunch	To stimulate	Investment is focused on	Budget: Green	No information		Pre-existing concerns:	Implicit assumptions:
France	climate mitigation,	existing, well-established	transition (EUR 30	provided.	social and	Policy choices reflect	Investing in job creation
(National	green transition	sectors with immediate	billion),		regional	France's pre-existing	will reduce high
COVID	and job creation	potential for job creation	Competitiveness and		inequalities by	concerns about	unemployment. Making
Recovery Plan)	and to restore GDP	(e.g. railways, buildings	resilience of the		focusing on job	industrial stagnation,	social issues prominent
	to pre-COVID levels	retrofits to improve energy	economy (EUR 34		creation and by	high unemployment and	in recovery plans will
[Geels et al,	by 2022. The plan	efficiency). Longer term,	billion) Skills, social,		spreading	inequalities. Pre-existing	avoid repetition of the
2022]	has three pillars:	there is investment in new	and territorial cohesion		investment	plans: Plans build on pre-	2018 gilet jaune
	green transition;	technologies and sectors	(EUR 36 billion).		across many	existing commitments	protests. Spreading
	competitiveness	(e.g. electric vehicles,	Breakdown of EUR 30		sectors, social	(Net Zero by 2050).	investment across
	and resilience of	hydrogen).	billion green recovery		groups and	Political considerations:	many industries and
	the economy; and		spending : railway		constituencies	Policy choices reflect	regions will address
	skills, social, and		infrastructure –		, •	Macron's rebranding as a	_
	territorial		15.5%; electric vehicles		in railways and	green reformer ahead of	inequalities. Acting
	cohesion.		- 11.1%; building		housing is	2022 presidential	quickly will result in
			energy retrofits -		spread across	elections.	discernible impacts by
			22.1%; hydrogen -		the country).	EU conditionality: to	the time of the 2022
			6.6%; green transition -			secure EU RRF funding,	Presidential elections.
			19.4%; air and maritime			plans have to align with	
			transport - 6.9%;			EU priorities – green new	
			environmental			deal, digital	
			rehabilitation and			transformation, social	
			protection 10.4%;			investment.	
			urban commuting and				
			mobility - 3.9%;				
			agriculture,				

			1	•	1	T.	
			aquaculture, food and				
			animals - 3.5 %; nuclear				
			- 0.7%.				
			Financing: Plans are				
			aligned with EU				
			Recovery and				
			Resilience Facility				
			(RRF), allowing France				
			to fund 40% of costs				
			through EU				
			contributions.				
Economic Crisis	ECMP: short term	Plans focus on long-term	Budget: Germany has	No information	ECMP: short	Pre-existing concerns:	Key assumptions:
Management	economic		invested a total of EUR	provided.	term plan to	Policy choices reflect	targeting investment in
Package	recovery.	through becoming a world	130 billion in its		boost the	Germany's concerns	a small number of new
<i>(ECMP)</i> and	FP: Longer term	leader in new, low-carbon	economic recovery		economy,	about its global	industries (EV and
Future Package	plan to return	technologies (electrolysers,	packages (ECMP – EUR		preserve jobs,	competitiveness. Export	hydrogen) will result in
<i>(FP)</i> (part of	Germany to	hydrogen manufacturing,	77 billion; FP – EUR 50		limit hardship	-oriented manufacturing	Germany gaining
broader	economic growth	electric vehicle (EV)	billion). A total of 27.5		and support	industry is an economic	competitive advantage
German COVID	and prosperity.	manufacturing). Transport	billion (21.2% of the		federal states	priority, representing	and reversing
economic	Both plans invest in	: significant investment in	total package) is for		and	38% of GDP in 2019, but	previously stagnating
recovery plan)	green recovery, to	railways, both to reduce	green recovery. The		municipalities,	stagnating since 2012,	exports in globally
	be spent in 2	GHG emissions and to	investment in green		and young	due to increasing	competitive markets;
[Geels et al,	years. Focus of	support heavy industry;	recovery represents		people and	competition from China/	building on pre-existing
2022]	green recovery	investment in EV demand	0.80% of GDP.		families.	emerging economies.	strategies will be more
	investment is	and charging	Breakdown of EUR			Pre-existing plans:	effective than
	export-oriented	infrastructure.	27.5 billion green			Germany's plans	embarking on entirely
	economic	Interventionist approach:	recovery spending:			supplement and	new initiatives.
	growth. Few	government involvement	railway infrastructure -			accelerate pre-existing	Critics say that a more
	measures are	in seeding new industries	18.2%; EVs 25.1%;			climate and industrial	balanced approach (as
	linked to climate	and buying stakes in	building energy			investment.	taken by France) is less
	targets.	companies.	retrofits - 7.3%;			EU conditionality: to	risky (a market for
			hydrogen - 32.7%;			secure EU RRF funding,	hydrogen may not
			green transition 1.5%;			plans have to align with	emerge).
			air and maritime			EU priorities – green new	
			transport - 11.6 %;			deal, digital	
			environmental				

	I	T		1	1	1	
			rehabilitation and			transformation, social	
			protection - 2.5%;			investment.	
			agriculture,				
			aquaculture, food,				
			animals - 1.1 %.				
			Financing: The short				
			term plan (ECMP) is				
			partially funded via a				
			six-month 3% VAT				
			reduction. Plans are				
			aligned with the EU				
			RRF, from which the				
			German government				
			hopes to receive EUR				
			29.3 billion.				
Plan for Jobs	PfJ aims to sustain	Across both packages, over	Budget: PfJ - £30	Critics describe	Railway and	Pre-existing concerns:	Key assumptions:
(PfJ) and <i>Ten</i>	employment and	50% of green recovery	billion, split between	the UK's green	construction	policy choices reflect	Initiatives which build
Point Plan for a	create new jobs	investment is allocated to a	sustaining employment	recovery	industries are	UK's concerns about	on pre-existing
Green	over the short	few, mostly existing	(£17.7 billion) and	package as a	geographically	labour market, industrial	strengths and strategies
Industrial	term.	industries and sectors:	creating new jobs	vision rather	dispersed,	decline, and regional	are likely to be more
Revolution	TPP aims to	railway infrastructure and	(£12.5 billion). TPP -	than a plan	enabling	inequalities.	effective than
(TPP)	support green	construction industry	£10.2 - 12 billion	because there	investment to be	Pre-existing plans: UK	embarking on
	recovery, whilst	(improving the energy	(amount	is little detail	dispersed to	was able to leverage pre-	completely new
[Geels et al,	stimulating	efficiency of buildings	unclear). Total	about	economically	existing climate	initiatives. R&D-driven
2022]	economic growth,	through retrofitting).	investment in green	implementatio	disadvantaged	commitments and plans,	investment in new
	increasing	There is also investment in	recovery across both	n or about	regions.	although spread	technologies,
	productivity and	new industries and	packages - £15.45	long-term		unevenly across sectors.	infrastructure and
	modernising	technologies, building on	billion, representing	funding. It has		Political considerations:	industries has potential
	industry over the	pre-COVID strategies: e.g.	0.69 % of GDP.	also been		policy choices may have	to revitalize
	longer term. The	EV manufacturing and	Breakdown of £15.45	criticised for		been influenced by UK's	disadvantaged regions
	aim is that this will	recharging	billion green recovery	focusing on		wish to demonstrate	and stimulate economic
	result in reduced	infrastructure.	spending: railway	large-scale		climate leadership, as	growth and exports,
	GHG emissions,		infrastructure - 27.2%;	technologies		hosts of COP-26 in 2021.	making the UK a global
	new job creation		EVs 18.7%; building	and			leader in green
	and reduced		energy retrofits –	infrastructures			technologies. However

	regional		26.5%; hydrogen –	(nuclear power,			, no detail provided on
	inequalities.		1.6%; air and maritime	carbon-			how this technological
	inequanties.		transport - 0.6 %;	capture-and-			transformation is to be
			environmental	storage,			achieved.
			rehabilitation and	hydrogen)			acmeved.
			protection – 7.6%;	without			
			urban commuting and	compelling			
			mobility – 12.9%;	evidence that			
			nuclear – 3.9%;	this is likely to			
			renewables - 1%.	be effective.			
			Financing: Unclear,	be effective.			
			although UK has				
			leveraged pre-existing				
			climate				
			plans. Investment is				
			spread over a longer				
			time period than				
			France and Germany				
			(up to 2030).				
Plan de	Plan comprises ten	Each of the ten lever	Budget: Spanish	Paper	Spanish Plan	Pre-existing concerns:	Investment in green
Recuperación,			Recovery Plan aims to		links economic		industries, technologies
Transformació	·	F	spend EUR 140 billion		recovery and		and sectors, dispersed
n y Resiliencia		I -	by 2026. Green		regional		geographically and
(Spanish	•	•	transition – 40.29% of	IT .	development,	•	across multiple sectors,
National		-	investment. Digital	new green jobs		=	will create a wide range
Recovery and		1	transformation –		emphasis on		of diverse new green
Resilience	-	_	29.58%.	However, this is	•	_	jobs, which will
Plan)	transition	policies):	Financing: First phase	dependent on	developed	deal, digital	stimulate economic
	4. Modernisation	1 Urban transport, housing	(2021 – 23) partially	updating	regions, through	transformation, social	growth and boost
[Vaquero et al,		I	funded by EUR 69.52		aiming to create		regional development.
2021]	5. Modernisation	transformation of agri-food	billion from EU RRF (of	skills. The	more jobs and		
	and digitalisation	and fisheries plans.	which 53% is for green	Spanish	develop new		
	of industry and	2 Ecosystem conservation	initiatives). Plans are in	workforce	economic		
	business	and restoration, coastal	line with EU	ranks below	activities in		
	6. Promotion of	and water preservation,	recommendations.	OECD average	these regions.		
	science and	transport plans.		in basic			

	innovation and	3 Renewable energy,		cognitive skills,			
		electricity infrastructure/		complex			
		storage, hydrogen, fair		problem-			
		transition plans.		solving, critical			
		transition plans.		<u> </u>			
	capacity building			thinking and			
	8. The new care			innovative			
	economy and			capacity. A			
	employment			further			
	policies			challenge is			
	9. Culture and			that the plan			
	sport			has multiple			
	10. Modernisation			components,			
	of the tax system			with a wide			
				diversity of			
				different jobs			
				and skills			
			.	requirements.			
Green Energy	•	•	Budget: EUR 6.4 billion	No information	No information	Pre-existing concerns:	Investment in green
and Reduction		was in draft form at time of	l, ,,			_	recovery will drive a
of Energy	_		billion (Pillar			to decarbonise Poland's	_
Consumption	goals: rebuilding		5). Breakdown of			economy (currently	will decarbonise the
•	and restoring the		spending plan for clean			heavily dependent on	economy and, together
	resilience of the		energy component of			coal power generation)	with digital
Mobility (Pillar			plan (total EUR 5.74			in order to remain	transformation, set
5) (Draft	preparing for		billion): Housing sector			economically	Poland on a different,
Recovery and	unforeseen		energy efficiency			competitive.	more sustainable, just
•	circumstances. Th		(58.5%); Developing			Pre-existing plans: EU	and inclusive economic
Poland)	e plan has five		hydrogen and other			conditionality: to secure	trajectory.
	pillars:		alternative fuels			EU RRF funding, plans	
[Dumitrescu	1. Resilience and		(14.6%); Offshore wind			have to align with EU	
2021]	competitiveness of		generation (8.0%);			priorities – green new	
	the economy;		Heating sector			deal, digital	
	2. Green energy		modernisation (7.1%);			transformation, social	
	and reduction of		Power grid expansion			investment.	
	energy		for renewables				
	consumption;		integration (6.0%);				

3. Digital	Improving energy	
transformation;	efficiency of schools	
4. Effectiveness,	(3.5%); Local renewable	
accessibility and	energy initiatives	
quality of the	(1.8%); Boosting	
healthcare system;	companies' energy	
5. Green and	savings and renewables	
intelligent	use (0.5%).	
mobility.	Financing: Poland will	
	receive EUR 58.1 billion	
	in grants (EUR 23.9	
	billion, of which 38%	
	will be spent on	
	climate-linked	
	activities) and loans	
	(EUR 34.2 billion) from	
	the EU RRF to support	
	its Recovery and	
	Resilience Plan, to be	
	spent by 2026.	

Supplementary Table 2.3 - Summary analysis of **social and economic recovery policies**

Policy	Aims	Implementation	Costs & Financing	Evidence for Effectiveness	Reducing Inequities	Critical	Theory of Change
						Antecedents	
First Right -	To mitigate the	Municipal authorities	Budget: No figures	Many municipalities lack	Policy explicitly targets	Pre-existing	Implicit assumption:
Housing Access	economic and	are responsible for	provided on	capacity (e.g. technical skills,	people experiencing	concerns:	municipalities are
Support	social impact of the	drawing up plans to	budget. Plan	mediation skills between	homelessness; people	Political and	best placed to
Programme	pandemic, through	respond to local	includes a	stakeholders, political and	living in sub-standard or	media focus on	understand housing
<i>(FR)</i> (Portugal)	public investment	housing needs and	framework of	executive leadership, access	overcrowded housing;	housing pre-	problems and to
	in housing. Focus	monitoring	reference values,	to social security data (for	people living in housing	dates the	bring relevant
[Jorge, 2022]	is on addressing	implementation. FR	expenses and	the identification of eligible	that does not meet their	pandemic	stakeholders
	housing precarity	grants non-	budgetary	recipients), cross-sectoral	needs (e.g. people with	(increasing	together identify
	and vulnerability,	refundable financial	ceilings, on the	coordination) or resources	disabilities); people with	scarcity of	solutions. A flexible
	through	support to municipal	basis of which	to implement policy	specific vulnerabilities,	decent,	framework allows
	integration with	authorities and other	financial support	effectively (resources	precarity or	affordable	responses to be
	other policies	organisations to	is	insufficient for magnitude of	disadvantage. However	housing,	tailored to local
	aimed at the most	provide housing	calculated. Policy	the problem). Plans are	, study suggests that	especially in	needs. Municipalitie
	vulnerable groups,	units, through a	is designed to	supposed to be developed	such groups are often	cities, driven by	s have the
	including Roma	flexible range of	respond to at	using participatory	excluded from the	gentrification,	motivation,
	communities and	options	least 26,000	approaches to involve	process for a variety of	tourism and the	empowerment and
	people	(construction,	Portuguese	disadvantaged groups in	reasons: racism and	economic	capacity to work with
	experiencing	rehabilitation,	households in a	identifying housing	discrimination (Roma	strength of real	relevant stakeholder
	homelessness.	building acquisition,	situation of	solutions; however, this does	communities); officials'	estate). These	to identify and enact
	Policy establishes	etc). FR also grants	precarity by 2026,	not always happen.	lack of knowledge and	problems were	appropriate
	citizens' right to	financial support	although it		failure to coordinate	sharply	solutions. Sufficient
	housing, specifies	directly to vulnerable	recognises that		with other agencies	exacerbated by	funding is available
	minimum	households.	this number is an		(victims of domestic	the pandemic:	to meet identified
	standards of		under-estimate of		violence). None of the	house prices did	needs. Coordination
	housing and		need.		municipalities analysed	not fall, whilst	mechanisms across
	establishes a		Financing: No		in this study included	lockdowns self-	governmental
	framework for		information		beneficiaries of	isolation	agencies are
	financial support.		provided.		international protection	highlighted	sufficient to facilitate
					in their consultative	problems of	the flow of
					exercises, despite this	overcrowding	information (e.g.
					population being	and lack of basic	social security).
					explicitly recognised as	infrastructure	
					a vulnerable group.	(such as running	

						water). Pre- existing plans: FR is a pre-existing policy, dating from 2018, and then incorporated into Portuguese Recovery and Resilience Plan.	
Proximity	Improvement of	· ·	Budget/				Developed under the
networks, structures and	home care, telemedicine,		Financing: The budget allocated		healthcare services and benefitting from them,		pressure of the COVID-19 crisis, the
telemedicine		and Resilience Plan is	•	1		inadequate	'Health' NRRP
for territorial						integration	component aims at
healthcare	of disparities in	•	and Resilience	-	inadequate integration	_	changing the
assistance	accessing	,	plan is 191.5		between hospital-based		structure of the
	healthcare services		billion euros in	diseases, including cancer,	and	and	healthcare services
(Strategy	and		grants and loans.	tele-psychiatry, nonurgent	community-based	community-	by substantially
within the	benefitting from		This will be from		I	based healthcare	
National	them.		the	I -	· ·	,	preventive medicine
Recovery and				_	•	effort	interventions and
Resilience							efficacy. The effort is
Plan)			the years 2021-	=	management protocols		envisaged through
(Italy)			2027.	_		_	the implementation
(Filimoniosi augud				, ,			of new public healthcare laws, full
[Filippini and Vinceti (2021)]				•	diseases, their structure	•	digitisation of the
Viliceti (2021)]				_	and application are still highly heterogeneous		health systems, and
				_	· ·	different	substantial
					regions, especially when		improvement of the
					National Plans outlining	_	equity in access to
					the main framework are		care.
						regard to the	
					_	integration of	

	hospital and
	community, new
	models of
	healthcare were
	already identified
	and structured
	before the
	pandemic in the
	Italian National
	Health System,
	e.g. the so called
	diagnostic,
	therapeutic and
	healthcare
	management
	protocols (PDTA).
	The COVID-19
	pandemic and
	the prolonged
	lockdowns have
	strongly
	boosted the
	implementation
	of telemedicine
	programs in the
	most recent
	months;
	Implementation
	of logistics as
	well as better
	personnel
	training has been
	pointed out.
	Political
	considerations:
	No information

	1	T	Τ		T	1	
						The reform of	
						territorial and	
						primary care has	
						already	
						generated a	
						heated debate	
						between the	
						Italian Regions	
						and primary care	
						physicians.	
						Bridging public	
						law and public	
						health is thus a	
						major imperative	
						for the	
						implementation	
						of the National	
						Recovery and	
						Resilience Plan	
						and its	
						strategies.	
Innovation,	To nourish	This particular	Budget/	The implementation of	The need to address at	Pre-existing	No information
research and	scientific research	strategy of the	Financing: The	Personal Electronic Health	national levels the	concerns: The	
digitisation of	and foster	National Recovery	budget allocated	Records already showed to	disparities in the	strengthening of	
the National	· · · · · · · · · · · · · · · · · · ·	and Resilience Plan is	for the whole	have	provision of healthcare	intensive and	
Health System	transfer, and to	not implemented yet,	National Recovery	positive impact on	services, the lack of	semi-intensive	
	enhance staff	apart from the	and Resilience	immunization program	integration between	care units is of	
(Strategy	U,	milestone "Digital	plan is 191.5	through the increase of	hospital-based and	particularly	
within the	develop public		billion euros in	vaccine uptake, although	community-based care	relevance since	
National	health services	_	grants and loans.		as well as social	the lack of such	
Recovery and		equipment", which is	This will be from	digital improvements of such		structures	
Resilience	strengthening skills		the		too long waiting time	became apparent	
Plan)	and human			identified.	for critical interventions	_	
(Italy)	capital and to		U (NGEU) plan for		in many areas of the	critical phases of	
	enhance				country.	the COVID-19	

[Filippini and	investments for		the years 2021-			pandemic, when	
Vinceti (2021)]	digital, structural		2027.			temporary	
, , , , , , , , , , , , , , , , , , , ,	and technological					hospitals had to	
	resources; To					be built up in	
	increase					Italy.	
	biomedical					,	
	research, and to					The need to	
	promote the					address at	
	renewal and					national levels	
	modernization of					the disparities in	
	the existing					the provision of	
	technological and					healthcare	
	digital healthcare					services, the lack	
	structures; To					of integration	
	complete and					between	
	systematic use the					hospital-based	
	Personal Electronic					and community-	
	Health Record					based care as	
	(PEHR), and to					well as social	
	better deliver and					services, the	
	monitor capacity of					issue of a too	
	the Essential Levels					long waiting time	
	of Assistance (LEA)					for critical	
	through more					interventions in	
	effective					many areas of	
	information					the country, and	
	technology tools					eventually the	
	and systems.					limited capacity	
						to address	
						environmental	
						and climate	
						change-related	
						health risks.	
National		The following are			Policies include		Recalibration of
Recovery and		plans, but not yet	_	plans not yet implemented.	interventions targeted		welfare policies to
Resilience Plan	implement Social	implemented.	billion, with 55	Rebalancing investment	at working families,	hit Italy during a	invest in human

(RRP) - Social	Investment	Education and Early	billion allocated to	from traditional welfare	children and young	period when the	capital, by focusing
Investment	Reforms in Italy.	Childhood Education		policies, including pensions,	people, people with	welfare system	on social investment
element	Italy's RRP has 6	and Care (ECEC):	education:	to focus on younger	disabilities. Policies also	was in s state of	in education,
(Italy)	main missions:	1. 228,000 new	Education and	generations may prove	target social exclusion,	stress, after a	healthcare, childcare,
	1. Digitalisation	nursery places	ECEC - 10.2 %;	challenging in an ageing	regional inequalities,	decade of	family services, long-
[Guillen et al,	2. Green	(almost doubling	Health and social	society. EU funding is for	housing and urban	austerity. The	term care, lifelong
2022]	revolution	current provision);	care – 8.2 %;	investment: member states	renewal.	welfare system	learning and active
	3. Infrastructures	investment in tertiary	Labour market	need to find recurring	Recalibration of social	had shrunk to	labour market
	for sustainable	vocational education	policies – 3.1 %;	funding to support these	protections because	focus on	policies (ALMPs) will
	mobility	and training.	Other social	policies, which may be	they were too oriented	traditional	equip people to
	4. Education and	2. Improvement in	policies – 6.6 %.	challenging. Macroeconomi	towards older	compensatory	better respond to the
	Research	teacher recruitment	Financing: no	c conditions do not leave	generations, fostering	policies (i.e.	new social risks of a
	Inclusion and	and training	information	much room for manoeuvre	stronger support to	policies that	competitive,
	Cohesion	3. Investment in		for expansionary social	younger generations	focus solely on	knowledge
	6. Healthcare	digital skills and		investment policies.	and women.	helping citizens	economy. This is
		infrastructures				cope with loss of	contrasted with
		4. Strengthening PhD				income because	traditional,
		programmes.				of age,	compensatory
		5. Ultra-broadband				redundancy or	welfare policies,
		and 5G internet				illness).	which have a
		connections for all					narrower focus of
		schools.					helping citizens cope
		Health and social				•	with loss of income
		care:				investment in	because of age,
		1. Strengthening				public services	redundancy or
		health and social care				and there is little	illness.
		(expenditure				appetite for	
		equivalent to 11 % of				further	
		current annual NHS				austerity.	
		expenditure in Italy).				Pre-existing	
		2. Innovation,				<u>plans</u> : Italian	
		digitalisation and				state budget bill,	
		research in the NHS.				2021, focused	
		Labour market				more on	
		policies:				traditional,	
						compensatory	

Active labour market	welfare policies
policies (ALMPs) and	than on social
employment	investment
support.	policies.
Other social	<u>Political</u>
policies:	considerations:
1. Social services,	EU conditionality:
disability and fighting	to secure EU RRF
social exclusion	funding, member
2. Social housing and	states' recovery
urban renewal	plans have to
3. Sport and social	align with EU
inclusion	priorities (green
4. Interventions for	new deal, digital
ensuring territorial	transformation,
cohesion	social
	investment).
	Social investment
	policies are
	welfare policies
	that are
	recalibrated to
	invest in human
	capital
	(education,
	healthcare,
	childcare, family
	services, long
	term care,
	lifelong learning
	and ALMPs (as
	opposed to
	traditional,
	compensatory
	welfare
	policies). Author

	1		T			1	
						s suggest that EU	
						RRF has been an	
						effective	
						mechanism for	
						persuading	
						member states to	
						reform their	
						welfare systems	
						in a social	
						investment	
						direction. Other	
						political	
						considerations	
						include	
						government	
						stability; party	
						competition and	
						attitudes to EU,	
						public opinion	
						about EU.	
National	The aim of this	The following are	Budget: Total RRP	No information because	Policies include	Pre-existing	Recalibration of
Recovery and	policy is to	plans, but not yet	budget: 69.5	plans not yet implemented.	interventions targeted	concerns: COVID	welfare policies to
Resilience Plan	implement Social	implemented	billion for the	Rebalancing investment	at children and young	hit Spain during a	invest in human
(RRP) - Social	Investment	Education and ECEC:	entire plan, half of			l'	capital, by focusing
Investment	Reforms in		•	F	working families, people		on social investment
element	Spain. Spain's RRP			to focus on younger			in education,
(Spain)	has 4 axes:			generations may prove	_	stress, after a	healthcare, childcare,
	1. Ecological	0		challenging in an ageing	•	decade of	family services, long-
[Guillen et al,	Transition	3. Modernisation and			also target housing and	<u> </u>	term care, lifelong
2022]	2. Digital	•	•	investment: member states		welfare system	learning and active
	Transformation 3.	, ,				had shrunk to	labour market
	Social and	• ,	total budget;	funding to support these	ļ•	focus on	policies (ALMPs) will
	Territorial	education from age 0		' ' '	· · /	traditional	equip people to
	Cohesion	to 3 (Goal: 65.000	care – 4.6 %;	challenging. Macroeconomic		compensatory	better respond to the
	4. Gender Equality	places)	Labour market		F =	policies (i.e.	new social risks of a
			policies – 3.4 %;	much room for manoeuvre	stronger support to	policies that	competitive,

	la.i . i	le		lc 1.1	<u> </u>
Health and social	Other social	1	younger generations	focus solely on	knowledge
care:	policies – 15.5 %.	investment policies.	and women.	helping citizens	economy. This is
1. Renewal and	Financing: EUR			cope with loss of	
expansion of the	69.52 billion from				traditional,
capacities of the	EU RRF			of age,	compensatory
NHS—including				redundancy or	welfare policies,
strengthening of				illness).	which have a
Primary and				After a decade of	narrower focus of
Community Care				austerity, public	helping citizens cope
Long-term care				opinion favours	with loss of income
and support plan:				investment in	because of age,
deinstitutionalisation				public services	redundancy or
, equipment and				and there is little	illness.
technology.				appetite for	
Labour market				further austerity.	
policies:				Pre-existing	
ALMPs targeting				plans : Spain's	
employed,				state budget bill,	
unemployed and				2021, focused	
furloughed workers:				more on	
youth employment,				traditional,	
gender				compensatory	
equality, rebalancing				welfare policies	
employment				than on social	
regionally, training				investment	
to boost green and				policies.	
digital employment				Political	
skills and				considerations:	
competencies.				EU conditionality:	
Other social				to secure EU RRF	
policies:				funding, member	
1. Social service				states' recovery	
modernisation				plans have to	
(technological				align with EU	
transformation,				priorities (green	
innovation, training				new deal, digital	
minovacion, training	1	1		inew dear, digital	J

and reinforcement of	transformation,
childcare)	social
2. Housing	investment).
rehabilitation and	Social investment
urban renewal plan	policies are
3. Plan 'Spain	welfare policies
protects you against	that are
sexist violence'	recalibrated to
4. Sustainability of	invest in human
the public pension	
	capital (oducation
system	(education, healthcare,
	childcare, family
	services, long
	term care,
	lifelong learning
	and ALMPs (as
	opposed to
	traditional,
	compensatory
	welfare
	policies). Author
	s suggest that EU
	RRF has been an
	effective
	mechanism for
	persuading
	member states to
	reform their
	welfare systems
	in a social
	investment
	direction. Other
	political
	considerations
	include

Resilience and	Recovery and		Budget: 4.1 billion euros (Pillar 1);	No information	No information		The author states that the most
s of the economy;	two over-arching goals: rebuilding		3.0 billion euros (Pillar 3); 4.3			_	important impact of the current Pandemic
Digital	and restoring the	· · · ·	billion euros (Pillar				Covid-19 crisis will be
_	resilience of the		4).				the "paradigm shift"
Health system	economy; and		Financing: Poland				that will reshape the
reform (Pillars	preparing for		will receive EUR				future of all member
1, 3 and 4)	unforeseen		58.1 billion in			economic	states economies,
(Draft Recovery	circumstances. Th		grants (EUR 23.9			reforms have	including Poland's,
and Resilience	e plan has five		billion) and loans				and the EU as a
Plan, Poland)	pillars: 1. Resilience		(EUR 34.2 billion)			•	whole.
	and		from the EU RRF			the Łukasiewicz	
[Dumitrescu	competitiveness of		to support its			Research	In addition, the green
2021]*	the economy;		Recovery and				transition will be a
	2. Green energy		Resilience Plan, to				great opportunity for
	and reduction of		be spent by				the modernization of
	energy consumption;		2026.				the economy and the growth of Polish
	3. Digital						companies, and
	transformation;						together with the
	4. Effectiveness,						digital
	accessibility and						transformation will
	quality of the						accelerate the Fourth
	healthcare system;						Industrial
	5. Green and						Revolution's pace of
	intelligent						change and broad
	mobility.						impact.

	I		- u 1:0 C
			The other shift of
			paradigm is linked
			with the fact that v
			are witnessing a
			change from an
			economic model ir
			which services had
			an important weig
			in favour of a mod
			based on the
			development of
			productive,
			processing, industr
			and agricultural
			sectors, which can
			provide the produc
			necessary for the
			strategic autonom
			of the European
			community space.

^{*} There is very limited information, but we included this paper in case it is of interest and will help in identifying future research.

Appendix 3: Comparative analysis of COVID recovery plans of countries and regions relevant to Scotland - Supplementary Methods

Supplementary Table 3.1 – Selection of countries (Financial security for low income households)

A: First stage of country selection

	Indicators				
	GNI per	GINI	HDI	Adjusted areas	
		GINI		Adjusted gross	
	capita (USD)		2022	disposable	
	2020			household	
				income	
OECD countries				per capita (USD)	
Scotland (UK)	45,870	0.366	0.932	33,049	
Australia	52,230	0.325	0.938	37,433	
Austria	55,620	0.274	0.914	37,001	
Belgium	53,650	0.262	0.919	34,884	
Brazil		0.489		12,924	
Canada	46,050	0.301	0.922	34,421	
Chile	24,020	0.46	0.847	18,477	
Colombia	14,640		0.761	10,961	
Costa Rica	20,860	0.497	0.794	16,517	
Czech Republic	40,160	0.248	0.891	26,664	
Denmark	62,260	0.263	0.93	33,774	
Estonia	37,570	0.305	0.882	23,784	
Finland	51,410	0.269	0.925	33,471	
France	47,730	0.292	0.891	34,375	
Germany	56,370	0.289	0.939	38,971	
Greece	27,830	0.308	0.872	20,791	
Hungary	32,190	0.286	0.845	21,026	
Iceland	52,030	0.25	0.938	37,549	
Ireland	71,040	0.292	0.942	29,488	
Israel	39,090	0.348	0.906	27,001	
Italy	42,420	0.33	0.883	29,431	
Japan	43,130	0.334	0.915	28,872	
Latvia	31,470	0.344	0.854	19,783	
Lithuania	37,760	0.357	0.869	8,274	
Luxembourg	83,230	0.305	0.909	44,773	
Mexico	17,810	0.418	0.767	16,269	
Netherlands	58,240	0.296	0.933	34,984	
New Zealand	43,030		0.921	39,024	
Norway	65,500	0.261	0.954	39,144	
Poland	33,040	0.281	0.872	23,675	
Portugal	33,640	0.301	0.85	24,877	
Russian Federation		0.353		19,546	
Slovakia	31,000	0.22	0.857	21,149	
Slovenia	39,420	0.246	0.902	25,250	
South Africa		0.63		9,338	
South Korea	45,570	0.345	0.906	24,590	
Spain	37,980	0.32	0.893	27,155	
Sweden	56,740	0.28	0.937	33,730	
Switzerland	69,170	0.311	0.946	39,697	
Turkey	26,900	0.397	0.806	19,482	
United Kingdom	45,870	0.366	0.932	33,049	
United States	64,210	0.395	0.92	51,147	
Jica Jiaica	04,210	3.333	0.32	31,147	

B: Second stage of country selection

Countries selected for HDI, GNI and GHDI	Gini coefficient
Scotland (UK)	0.366
Australia	0.325
Switzerland	0.311
Luxembourg	0.305
Canada	0.301
Netherlands	0.296
France	0.292
Germany	0.289
Sweden	0.28
Austria	0.274
Finland	0.269
Denmark	0.263
Belgium	0.262
Norway	0.261
Iceland	0.25

Key: Green colour indicates:

- GNI per capita- equal or above UK
- GINI- same as UK or lower
- HDI- has a score of 0.9
- GHDI- above UK

Sources:

Adjusted Gross Household income per capita: https://www.oecdbetterlifeindex.org/topics/income/

GNI 2020: GNI per capita, PPP (current international \$) - OECD members | Data (worldbank.org)

HDI 2022: https://worldpopulationreview.com/country-rankings/hdi-by-country

Cross ref: ILO | Social Protection Platform (social-protection.org)

Supplementary Table 3.2 – Selection of countries (Good green jobs and fair work)

Countries/Regions selected	Basis of selection (based on inclusion criteria and indicators)
Ireland	Countries with a level of socioeconomic reliance on carbon fuels (i.e. oil, gas, coal and peat) that is comparable to Scotland's that are making efforts to decarbonise
	Countries implementing interventions that Scotland is considering and therefore judged to be relevant to Scotland(e.g., just transition in especially vulnerable region)
Canada	Countries with a level of socioeconomic reliance on carbon fuels (i.e. oil, gas, coal and peat) that is comparable to Scotland's that are making efforts to decarbonise
	Regions with a climate comparable to Scotland's.
	Countries that have both federal and devolved political systems
Norway	Countries with a level of socioeconomic reliance on carbon fuels (i.e. oil, gas, coal and peat) that is comparable to Scotland's that are making efforts to decarbonise
Germany	Countries with a level of socioeconomic reliance on carbon fuels (i.e. oil, gas, coal and peat) that is comparable to Scotland's that are making efforts to decarbonise.
	Countries that have both federal and devolved political systems
The United States	Countries with a level of socioeconomic reliance on carbon fuels (i.e. oil, gas, coal and peat) that is comparable to Scotland's that are making efforts to decarbonise
	States implementing interventions that Scotland is considering and therefore judged to be relevant to Scotland (e.g., electric vehicle uptake)
	States with coastlines and cold climate comparable to Scotland's.
	Countries that have both federal and devolved political systems.

Supplementary Table 3.3 – Selection of countries (Wellbeing of children and young people)

Our approach to country selection was based on five indicators of children and young people's well-being as identified in the **2013 UNICEF report card** (Adamson, 2013). Specifically, we looked at the child poverty rate, infant mortality rate, adolescent mortality rate, early childhood education enrolment rate for 3 and 4-year-olds, and the not in education, employment or training rate (NEET) for young people. We compared the indicators of OECD countries with Scotland and selected five top countries that are comparable to or doing better than Scotland. It is important to note that while some countries have better indicators than Scotland, a key inclusion criterion was that the country must have specific policies focusing on children and young people's well-being in their social and economic COVID-19 recovery plan.

	Indicators					
OECD Countries	Child Poverty Rate (%)	Infant Mortality Rate	Adolescen t Mortality Rate (10- 19 years)	Participati on Rate: Early Childhood Education Enrolment rate (OECD) - 3 year-olds	Participati on Rate: Early Childhood Education Enrolment rate (OECD) - 4 year-olds	NEET Rate (% age 15- 19 not in Education, Employme nt, or Training)
Scotlan						
d	24	3.9	2.4	97	97	10.2
Australia	11	3.1	2.03	65.877	90.206	7.356
Austria	7.5	2.9	1.7	77.815	84.264	5.71
Belgium	10.2	3.44	1.4	97.867	98.272	4.215
Canada	14	4.3	2.1	N/A	N/A	9.051
Chile	20	5.7	2.7	57.457	85.017	11.725
Columbia	17	11.3	5.5	56.9	85.017	22.868
Costa Rica	34.1	6.7	3.58	5.695	49.639	13.625
Czech Republic	9.8	2.3	1.8	77.633	87.082	2.383
Denmark	6	3.1	1.2	96.504	98.129	4.423
Estonia	12	1.6	2.2	88.184	92.276	4.007
Finland	4	1.8	2.3	80.423	85.009	3.833
France	9.7	3.4	1.42	100	100	6.559
Germany	9.7	3.1	1.45	90.447	94.927	2.805
Greece	15	3.5	1.52	34.903	75.957	7.668
Hungary	19	3.3	1.8	87.175	96.159	6.654
Iceland	6.5	1.5	1.6	96.337	97.015	5.388
Ireland	9	2.6	1.1	99.179	100	6.188
Israel	29.6	2.9	1.5	100	97.374	8.942

Italy	17	2.4	1.32	92.214	95.44	10.887
Japan	14.9	1.8	1.37	85.228	98.953	N/A
Korea, Rep.	7.1	2.5	1.5	95.723	91.461	N/A
Latvia	20.2	3.4	3.1	89.092	89.092	2.588
Lithuania	17.5	2.6	2.9	84.475	88.106	2.312
Luxembo urg	12	2.2	1	68.983	97.749	1.489
Mexico	52.6	11.7	5.7	46.295	89.118	14.741
Netherlan ds	6	3.5	1.3	76.885	95.416	3.914
New Zealand	11.5	3.9	2.2	83.861	88.609	7.202
Norway	6.5	1.7	1.6	96.383	97.244	3.037
Poland	14	3.7	2.3	77.607	89.187	2.767
Portugal	15	2.7	1.5	83.678	95.415	3.355
Slovak Republic	10.9	4.6	2.4	68.33	79.422	5.697
Slovenia	7	1.7	1.48	89.085	92.529	3.305
Spain	19.5	2.7	1.1	96.125	97.543	8.125
Sweden	7	2.1	1.6	93.386	94.585	2.877
Switzerla nd	9.8	3.5	1.5	2.368	48.735	5.271
Turkey	32	8.1	2.8	10.691	39.467	17.049
United Kingdom	10	3.6	1.7	100	100	9.159
United States	24.5	5.4	3.1	N/A	N/A	7.699

	Indicators					
OECD Countries	Child Poverty Rate (%)	Infant Mortality Rate	Adolescent Mortality Rate (10-19 years)	Participation Rate: Early Childhood Education Enrolment rate (OECD) - 3-year- olds	Participation Rate: Early Childhood Education Enrolment rate (OECD) - 4-year- olds	NEET Rate (% age 15-19 not in Education, Employment, or Training)
Scotland	24	3.9	2.4	97	97	10.2
Australia	11	3.1	2.03	65.877	90.206	7.356
Belgium	10.2	3.44	1.4	97.867	98.272	4.215
Finland	4	1.8	2.3	80.423	85.009	3.833
France	9.7	3.4	1.42	100	100	6.559
Germany	9.7	3.1	1.45	90.447	94.927	2.805

Adamson, P. (2013). Child Well-being in Rich Countries: A comparative overview (Innocenti Report Card, Issue 11).

Supplementary Table 3.4 – Search strategies

Topic	Search terms	Databases searched
Financial security for low-	Government budget	Government websites of comparator countries only
income households	documents within the	,
	predetermined Covid	
	recovery period for the	
	following search terms;	
	,	
	'Covid recovery', 'benefits',	
	'low-income',	
	'employment', 'job loss',	
	'income loss', 'families',	
	'inequalities', and	
	'households	
Good green jobs and fair	We searched by country	https://platform2020redesign.org/
work	name in each database	
	where green recovery	https://www.carbonbrief.org/coronavirus-tracking-
	policy documents were	how-the-worlds-green-recovery-plans-aim-to-cut-
	indexed. Full documents	emissions/
	were then retrieved from	<u> </u>
	various government	https://recovery.smithschool.ox.ac.uk/tracking/
	websites or through	insperiff see to find the see
	google.	https://www.greenrecoverytracker.org/
		ittps.//www.greenrecoverytracker.org/
		https://www.opergraplicytrocker.org/
	For Google searches, the	https://www.energypolicytracker.org/
	following search terms	
	were used:	https://www.oecd.org/coronavirus/en/themes/green-
	"post covid green	<u>recovery</u>
	recovery", "post covid	
	recovery", "just transition",	
	green jobs, "fair work and	
	green jobs", "good green	
	jobs", "green recovery from	
	covid", "climate action	
	plan", each	
	preceded by the name of	
	one of the five countries	
Mallbaing of shilding and	selected for review.	OFCD and Furances Commission details and
Wellbeing of children and	We searched by country	OECD and European Commission databases and
young people	name in the OECD and	Government websites of comparator countries only
	European Commission	
	databases where COVID	
	Recovery Plans were	
	indexed along with conducting Google	
	searches and looking at Budget documents within	
	the predetermined COVID	
	recovery period using	
	following search terms-	
	"Covid recovery", "Covid	
	recovery plan", "Covid	
	recovery plan , covid	

recovery policy", "covid-19	
recovery+ programs",	
"Covid recovery+ children",	
"Covid-19 recovery policy +	
youth"," Covid recovery+	
young people", "school",	
"Covid recovery+	
education", "economic	
recovery Covid-19 plan",	
"social recovery+ post covid	
plan", Covid recovery and	
resilience plan+	
employment", "jobs",	
"training", "digitalization"	

Supplementary Table 3.5 - GIRFEC principles and values (Scottish Government, 2022) and SHANARI Wellbeing Indicators (Scottish Government, n.d.)

GIRFEC Principles and Values

- Placing the child or young person and their family at the heart, and promoting choice, with full participation in decisions that affect them
- Working together with families to enable a rights respecting, strengths based, inclusive approach
- Understanding wellbeing as being about all areas of life including family, community and society
- Valuing difference and ensuring everyone is treated fairly
- Considering and addressing inequalities
- Providing support for children, young people and families when they need it, until things get better, to help them to reach their full potential
- Everyone working together in local areas and across Scotland to improve outcomes for children, young people and their families

SHANARI Wellbeing Indicators

Safe – growing up in an environment where a child or young person feels secure, nurtured, listened to and enabled to develop to their full potential. This includes freedom from abuse or neglect.

Healthy – having the highest attainable standards of physical and mental health, access to suitable healthcare, and support in learning to make healthy and safe choices.

Achieving – being supported and guided in learning and in the development of skills, confidence and self-esteem, at home, in school and in the community.

Nurtured – growing, developing and being cared for in an environment which provides the physical and emotional security, compassion and warmth necessary for healthy growth and to develop resilience and a positive identity.

Active – having opportunities to take part in activities such as play, recreation and sport, which contribute to healthy growth and development, at home, in school and in the community.

Respected – being involved in and having their voices heard in decisions that affect their life, with support where appropriate.

Responsible – having opportunities and encouragement to play active and responsible roles at home, in school and in the community, and where necessary, having appropriate guidance and supervision.

Included – having help to overcome inequalities and being accepted as part of their family, school and community.

Appendix 4: Comparative analysis of COVID recovery plans of countries and regions relevant to Scotland – Supplementary Results

Supplementary Table 4.1 - Policy themes present in comparator countries (Financial security for low-income households)

income nousenous)	Theme is present in the comparator country				
	ineme is present in the			inparator cot	incry
FSLIH themes	Australia	Switzerland	Canada	Luxembourg	Netherlands
Theme 1:Measures for loss of jobs or unemployment					
Assistance in matching jobseekers to employers				x	
Support for recruitment in jobs with labour shortages	x		×		
Training- Reskilling/Upskilling	x			x	
Theme 2: Income specific policy					
Income tax rebates	×				
Federal minimum wage			×		
Wokers benefit and employment insurance			х		
Theme 3: Affordable housing policy					
Construction of affordable houses for rent/sale			×	x	
Special funds for housing development/ more social housing or housing benefit	×		x		
Rent relief					
Loans for affordable purchase of new properties/resale	×				
Protecting buyers and renters			x		
Theme 4: Family specific policy					
Additional funding or cheaper childcare and creche facilities	×	x			
Reforms in taxation for married couples and families					
Additional economic support for low-income households	x		x		x
Theme 5: Policy for people with disabilities					
Increase in disability insurance	×	×	×	x	
Additional early support for children and young with developmental disability	×				
Increased investment home support and staff for disabled people	×		x	x	
Additional funding for employment				x	
Theme 6: Vulnerable populations finanical security					
Supporting ethnic minorities	x		×		
Supporting this at risk of homelessness/PEH	x				
Theme 7: Social benefits or welfare					
Unemployment benefits		x			x
Increase in social benefits or welfare		x			
Theme 8: Cost of living specific interventions for low income families					
One off support payments	x			x	
Fuel and energy support	x				

Supplementary Table 4.2 – Policy themes profoundly present in comparator countries' key action plans (Good green jobs and fair work)

	Is theme profoundly present in the Country's Action plans?				
Green Recovery Theme	Germany	Norway	Canada	Ireland	
Theme 1: Decarbisation and clean energy					
Electric road, rail and water vehicle Infrastructure Investment as a method to lower emissions, recover from Covid-19 economic downturn and create green jobs	Yes	Yes	Yes	Yes	
Hydrogen Strategy	Yes	Yes	Yes	Yes	
Closing orphan wells or rehabilitating peatlands	Yes	Yes	Yes	Yes	
Clean infrastructure investment i.e., clean power/renewable energy	Yes	Yes	Yes	Yes	
Just transition for regions affected by decarbonisation efforts				Yes	
Theme 2: investments in innovation and R&D					
Investing in greening key manufacturing industries	Yes	Yes	Yes	Yes	
Net Zero Accelerator			Yes		
Acceleration of investment approval processes	Yes	Yes		Yes	
Theme 3: Energy Efficient Retrofits & Renovations	Yes	Yes	Yes	Yes	
Theme 4: Energy sector transition - support existing workers to transition					
Creation of seed funding programs	Yes	Yes	Yes	Yes	
Reskilling support	Yes	Yes	Yes	Yes	
Green Jobs and Growth Funding - support the transition to a green economy through skilling and reskilling the workforce		Yes	Yes	Yes	
Theme 5: Digital Economy	Yes	Yes	Yes	Yes	
Connecting homes/businesses/schools to digital infrastructure	Yes	Yes	Yes	Yes	
Education Digitalisation	Yes				
Digitalisation and technological research in industry	Yes	Yes	Yes	Yes	
Theme 6: Nature-based solutions					
Sustainable agriculture support, research and development		Yes	Yes	Yes	
Tree planting		Yes	Yes	Yes	
Protecting peatlands, wetlands and grasslands		Yes	Yes	Yes	
Witholding grant funding to projects that harm biodiversity or nature		Yes			

Supplementary Table 4.3 – Policy themes present in comparator countries' COVID recovery plans

Themes and sub-themes	Australia	Belgium	Germany	France	Finland	
Theme 1: Childcare						
More affordable child care	х		x			
Paid Parental leave expansion	х					
Day-care infrastructure			x			
Removal of the annual cap on the Child Care Subsidy and increased subsidies for second and subsequent children.	х					
Theme 2: Education			L			
Supporting students' education by improving student mental health and wellbeing	х					
Digitisation of education		х	x	x	х	
Digital service package					х	
Starts at universities					х	
Digital education initiative			x			
Teacher devices			x			
Development of a national education platform			х			
Creation of centres of excellence for digital and digitally supported teaching			х			
Modernisation of Bundeswehr education and training facilities			х			
Flemish Community Program		х				
French- and German-speaking communities Scheme		х				
Digisprong		х				
Funding for progress in higher education		х				
Personalised support in educational settings aka Reform to approach to tackling educational disengagement		х				
Digital strategy for higher education and education for social mobility		х				
Digital technology (computers) for Brussels schools		х				
Digitisation of schools in German-speaking communities		х				
Theme 3: Employment and Upskilling	1					
Trainee support			х			
Promo 16-18, the road to possibilities				х		
Intensive Youth Support (AIJ)				х		
Sesame towards Employment for Sport and Animation in the Management Professions (SESAME)				х		

Themes and sub-themes	Australia	Belgium	Germany	France	Finland
Youth Guarantee Program				х	
Exceptional support measures for cultural dissemination and image education				х	
Job creation for young people in sports				х	
Integration through Youth Economic Activity (IAE Youth)				x	
"emploi franc +" scheme				х	
Cordées de la Réussite-Ropes of success				х	
Skills Investment Plan				х	
Remuneration of vocational training trainees				х	
Support to employers for hiring of persons with disabilities				х	
1 young person - 1 mentor policy				х	
Wallonia community Scheme		х			
Brussels Program		х			
1 young person – 1 solution				х	
Enhancing multi-professional services for young people under the Youth Guarantee programme					х