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Savini, F.; Habdank, K.

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A Database of Circular Economy Policies and Projects: Europe (A) and initial exploration worldwide (B)

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Federico Savini

Kristina Habdank

Department of Geography, Planning and International Development Studies

University of Amsterdam

f.savini@uva.nl

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Categories addressed in the excel document and the shortcut table below:

- CAT 1) Urban Area/District/Neighbourhood Development (investigated for A only)
- CAT 2) City or City-Region Policy Framework
- CAT 3) Regional/State Policy Frameworks
- CAT 4) National Policy Frameworks and other initiatives (e.g. programmes, partnerships, competitions)
- CAT 5) International Frameworks/Cooperation: policy packages, partnerships and projects (A only)
- CAT 5a) Interurban Cooperation
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- CAT 5c) Countries/International Cooperation
- CAT 6) Isolated building/structures/monuments (A only)
- CAT 7) Other Policy Papers/Documents/Studies (A only)
- CAT 8) Other Policy Papers/Documents/Studies and Partnerships not directly tackling Circular Economy (A only)

General Remarks on Research Results:

- ‘Circular city/economy’ is increasingly adopted as an aspirational concept by cities and countries on various scales, devising strategies and/or action plans. In some instances, we may ask whether this is done in a way to introduce a ‘buzzword’ into policy documents not mainly engaged with circular economy. We see that the ambiguous understandings and mixing with other concepts of urban sustainability lead to very different foci and implementation strategies, thus hampering interurban comparison of respective stances on proclaimed routes to becoming ‘circular cities’. This occurs particularly in the case of ‘green cities’, with a stronger focus on climate protection, but also ‘smart cities’ and sometimes ‘sharing cities’.
- The initiators of these documents are often driven by business opportunities, not only locally, but especially for capital and/or ‘global’ cities, with the prospect of enlarging international competitiveness; cities thus often involve (major) companies in strategic planning processes, also in order to ensure their commitment for policy implementation. Within the projects analysed, private corporations in the sectors of chemicals, resources, waste and eco-development seem to be awarded an influential position, and devise policies and funding programmes to propel innovation.
- Projects analysed often focus on ‘Zero Waste’-like goals. The term, apart from its usage in some European countries, seems to be particularly popular in the US. These ideas mainly aim to prevent waste on the one hand and increase recycling rates on the other, the latter mostly through technological innovation on the micro-scale. A sound comparison of recycling rates in the EU is currently complicated by the fact that member states still employ different measures for recycling rates (input- vs. output-based approach), which the Commission plans to harmonize, prospectively by stipulating an output-based approach on from 2020.

Methodological Remarks:

Although the investigation on European circular economy policies is more comprehensive than the initial worldwide exploration, it does not claim to be exhaustive. The snowball sampling approach and having consulted relevant networks and platforms should however ensure that the presently most active cities and countries are included in the tables. **Due to the author's**



affiliation with a Dutch university and familiarity with Dutch circular economy policies and projects, the goal of this research particularly was to gain knowledge on developments outside of the Netherlands, which are therefore not featured in this study.

Lastly, the differences in detailed elaboration of the cases do not necessarily reflect greater or lesser circular economy activity and/or progressiveness, but are also rooted in the availability of information in English, Spanish, French or German (the languages at disposal by the research team).



A. European Circular Economy Policies and Projects

Name/Description	City (Country)	Link1	Link2	Link3	Additional material/information
CAT 1) Urban Area/District/Neighbourhood Development (alphabetical order: first country, second city)					
Ghent Old Dockyards regeneration project	Ghent (BE)	http://eurocities2017.eu/files/uploads/files/Ghent_Circular%20economy%20case%20study(1).pdf			
Construction of 40 new residences for youth with disabilities (2005)	Odense (DK); district Seden Syd	https://www.ellenmacarthurfoundation.org/case-studies/denmark-public-procurement-as-a-circular-economy-enabler	http://www.ansvarligeindkob.dk/cases/miljoeffektivt-byggeri-i-odense-kommune-2/		both sources are in Danish
Kalundborg Symbiosis (started in 1972)	Kalundborg (DK)	http://www.symbiosis.dk/en/	https://kenniskaarten.hetgroenebrein.nl/en/knowledge-map-circular-economy/among-cities-regions-and-countries/		
Tyseley Environmental Enterprise District (TEED) (launched 2012)	Birmingham (England/U K)	https://www.birmingham.gov.uk/info/20054/planning-strategies-and-policies/70/local-development-orders/5	https://www.birmingham.ac.uk/partners/conferences-and-events/events-calendar/items/Tyseley-Environmental-Enterprise-District-Information-Exchange-Event.aspx		
SevernNet circular economy plan (one of the few CE references in the Bristol Resilience Strategy, see CAT2)	Bristol (England/U K)	https://www.bristol.gov.uk/documents/20182/1308373/Bristol+Resilience+Strategy/31a768fc-2e9e-4e6c-83ed-5602421bb3e3			
Old Oak and Park Royal regeneration project (opportunity area set out in the London Plan and addressed as such in the London CE Routemap 2017; furthermore scoping study commissioned by ARUP)	London (England/U K)	https://www.arup.com/projects/old-oak-and-park-royal-circular-economy-study	https://www.lwarb.gov.uk/what-we-do/circular-london/circular-economy-route-map/		
Kera Co-Op City (Kera Challenge Winner of the Nordic Built Cities Challenge 2016, challenge: 2015-16; site redevelopment: 2018-2028/38)	Espoo (FI)	https://www.helsinki.fi/portfoolio-items/and-industrial-area-turns-into-a-liveable-circular-economy-neighbourhood/	http://nordicbuiltcities.org/thechallenge/#	http://uusi.kera.fi/wp-content/uploads/2016/06/CO-OP-CITY-Illustrations.pdf	L3 = Project Presentation (comprehensive with many images and a detailed schedule)
ECO3 business park (started in 2013)	Tampere region, area between the cities of Nokia, Tampere and Ylöjärvi (FI)	http://www.eco3.fi/en/	http://nws.eurocities.eu/MediaShell/media/cooperation_Tampere.pdf		
Industrial Territorial Ecology at the port of Strasbourg (initiated in 2013)	Strasbourg (FR)	http://eurocities2017.eu/files/uploads/files/Strasbourg_Circular%20economy%20case%20study.pdf			
SymbioCity (started in 2008)	Stockholm (S)	https://www.symbiocity.org/en/approach/Cases-undersidor/Hammarby-Sjostad-three-in-one/			



CAT 2) City or City-Region Policy Framework (alphabetical order: first country, second city, third date: oldest first)

Brussels Regional Programme for the Circular Economy (BRPCE) (2016-2020)	Brussels (Region) (BE)	http://www.circulareconomy.brussels/a-propos/le-prec/?lang=en	http://www.eurocities2017.eu/awards/shortlist	http://eurocities2017.eu/files/uploads/files/Brussels_BRPCE_Circular%20economy%20case%20study.pdf
Project "Be Circular - Be Brussels" (Circular Call for Projects) (<i>caution: this is also the slogan/headline of the Brussel overall CE website, cf. L1 of BRPCE</i>)	Brussels (BE)	http://www.eurocities2017.eu/awards/shortlist	http://www.circulareconomy.brussels/appels-a-projets-be-circular-entreprises/edition-2016/?lang=en	http://www.circulareconomy.brussels/appels-a-projets-be-circular-entreprises/edition-2016/?lang=en
"Copenhagen Model" (<i>this expression is based on the interview source of Eurocities L1</i>); one of the four European members of the EMF's Circular Cities Network; furthermore involved in FORCE project together with Hamburg, Lisbon and Genoa (see CAT 5a)	Copenhagen (DK)	http://www.eurocities.eu/eurocities/news/Circular-cities-the-Copenhagen-model-WSPO-ASEGN9	http://mutopia.dk/projects/urban/copenhagen-circle-city/	
Bristol Resilience Strategy (n.d.)	Bristol (England/U K)	https://www.bristol.gov.uk/policies-plans-strategies/bristol-resilience-strategy	https://www.bristol.gov.uk/documents/20182/1308373/Bristol+Resilience+Strategy/31a768fc-2e9e-4e6c-83ed-5602421bb3e3	
London Circular Economy Route Map (launched in June 2017); one of the four European members of the EMF's Circular Cities Network	London (England/U K)	https://www.lwarb.gov.uk/what-we-do/circular-london/circular-economy-route-map/	https://www.lwarb.gov.uk/wp-content/uploads/2015/04/LWARB-London's-CE-route-map_16.6.17_a_singlepages_sml.pdf	http://eurocities2017.eu/files/uploads/files/London_Circular%20economy%20case%20study.pdf
South London Circular Economy Programme	London (England/U K)	https://www.sutton.gov.uk/info/200453/parks_trees_and_open_spaces/1137/environmental_sustainability/7		
Peterborough: Circular Peterborough (since 2016); one of the four European members of the EMF's Circular Cities Network	Peterborough (England/U K)	http://www.futurepeterborough.com/circular-city/	http://www.circulareconomysummit.com/en/about	http://www.futurepeterborough.com/about/
Barcelona (<i>the city's strong Smart City focus seems to generate a quite technical (digitalized) approach to/ understanding of circularity</i>)	Barcelona (ES)	https://doi.org/10.1016/j.eist.2017.03.002		all information sourced from Prendeville et al. (2017), Circular Cities: Mapping Six Cities in Transition (=L1); web search on "Barcelona Circular City/Economy" (in English and Spanish) did not yield any helpful results
Ljubljana (various strategies, e.g. Zero Waste Strategy); one of the four European Cities in the EMF Circular Cities Network	Slovenia (SI)	http://www.circularchange.com/slovenia-moving-towards-circular-economy/	http://www.eurocities.eu/eurocities/all-content/EU-ROCIITIES-2017-Ljubljana-circular-cities-WSPO-AKHBYP	http://www.slovenia.si/business/business-features/slovenia-aims-to-become-a-leader-in-the-circular-economy/



<p>"Reinventing Paris" call for innovative urban projects (launched in November 2014); "Reinventing Paris II" with a focus on currently unused or under-used city-owned plots (most of which are subterranean) (launched in May 2017) - <i>strong criticism on process and outcomes of this public-led competition (L3)</i></p>	Paris (FR)	https://api-site.paris.fr/images/77050	http://www.reinventer.paris/en/home/	https://www.citylab.com/design/2017/06/reinvent-paris-2-design-competition-concerns/528933/	L1 (= Paris White Paper) is on RP1, L2 (more) on RP2
<p>Paris: White Paper on the Circular Economy of Greater Paris (September 2015)</p>	Paris (FR)	https://api-site.paris.fr/images/77050			
<p>Paris Circular Economy Plan (2017-2020) (adopted at the Paris City Council July 2017)</p>	Paris (FR)	https://api-site-cdn.paris.fr/images/97397	http://metabolisme.paris.fr/		L2 is an interactive website to visualize material flows, created in 2014 by the City of Paris' Urban Ecology Agency
<p>Oslo: Circular Bio Resources</p>	Oslo (NO)	http://www.eurocities2017.eu/news/circular-inspiration-oslo-circular-bio-resources	http://www.eurocities2017.eu/files/uploads/files/Oslo_Circular%20economy%20case%20study.pdf	http://gln-on-sp.org/cities/oslo/	
<p>Glasgow: various strategies/approaches</p>	Glasgow (Scotland/UK)	https://doi.org/10.1016/j.eist.2017.03.002			source (L1) = paper by Prendeville et al. (2017), Circular Cities: Mapping Six Cities in Transition

CAT 3) Regional/State Policy Frameworks

<p>Flanders Materials Programme (FMP) (founded in 2011 (L2), launched in 2012 (L3))</p>	Belgium (BE)	http://vlaamsmaterialenprogramma.be/fmp	https://www.ellenmacarthurfoundation.org/case-studies/belgium-flanders-materials-programme	http://vlaamsmaterialenprogramma.be/over-ons	L3 in Flemish
<p>Catalonia: Various approaches towards implementing CE measures</p>	Catalonia (ES)	https://www.ellenmacarthurfoundation.org/ce100/directory/catalonia-accio	http://catalunya2020.gencat.cat/web/.content/85_catalunya_2020/documents/angles/arxius/07_ris3cat_2014_en.pdf		L2 = RIS3CAT policy document
<p>Basque Region Policy Strategies</p>	Basque Region (ES)	http://urbact.eu/sites/default/files/policy_brief_on_circular_economy.pdf			
<p>Northern France: Textiles Recycling Valley initiative (convention between partners signed in June 2013 for a three-year plan)</p>	Northern France (FR)	https://www.ellenmacarthurfoundation.org/case-studies/france-collaborative-textiles-recycling-initiative			
<p>German State of North-Rhine Westphalia (NRW) (with a specific focus on the industrial Ruhr Area): overall assessment/overview</p>	NRW (DE)	http://assets.kienbaum.com/downloads/Potenzialanalyse-Zirkulaere-Wertschoepfung-in-NRW_Kienbaum-EPEA-Studie_2016.pdf?mtime=20161108093017	https://www.kienbaum.com/de/blog/zirkulaere-wertschoepfung-ein-zukunftsmodell-fuer-das-land-nrw	https://www.wiwo.de/technologie/green/circular-economy-in-nrw-cradle-to-cradle-erreicht-die-politik/14504558.html	L1 = CE NRW potentiality study by EPEA & Kienbaum, in German (Scheelhaase & Zinke, 2016, Potenzialanalyse einer zirkulären Wertschöpfung im Land Nordrhein-Westfalen)



CAT 4) National Policy Frameworks and other initiatives (e.g. programmes, partnerships, competitions)

<p>Denmark: Partnership for Green Public Procurement (GPP) (since 2006)</p>	<p>Denmark</p>	<p>http://eng.mst.dk/sustainability/sustainable-consumption-and-production/sustainable-procurement/partnership-for-green-public-procurement/</p>	<p>https://www.ellenmacarthurfoundation.org/case-studies/denmark-public-procurement-as-a-circular-economy-enabler</p>	<p>L2 = Denmark without Waste; L3 = Denmark without Waste II</p>
<p>Denmark Without Waste (2013) and Denmark Without Waste II (2015)</p>	<p>Denmark</p>	<p>http://eng.mst.dk/air-noise-waste/waste/</p>	<p>http://eng.mst.dk/media/mst/Attachments/Ressourcestategi_UK_web.pdf</p> <p>http://eng.mst.dk/media/164923/denmark-without-waste-ii_wasteprevention.pdf</p>	<p>L2 = Denmark without Waste; L3 = Denmark without Waste II</p>
<p>Denmark: Taskforce for Resource Efficiency (established in 2014)</p>	<p>Denmark</p>	<p>https://groenomstilling.erhvervsstatistik.dk/taskforce-oeget-ressourceeffektivitet</p>	<p>https://www.ellenmacarthurfoundation.org/case-studies/denmark-taskforce-for-resource-efficiency</p>	
<p>Recommendations for the Danish Government by the Advisory Board for Circular Economy (2017)</p>	<p>Denmark</p>	<p>http://en.mfvmdk/focus-on/circular-economy/</p>	<p>http://en.mfvmdk/fileadmin/user_upload/MFVM/Miljoe/Cirkulaer_oekonomi/Advisory-Board-for-Circular-Economy-Report-2017-Content_Single_pages_WEB.pdf</p>	
<p>France: Law against Food Waste (2016)</p>	<p>France</p>	<p>https://www.arup.com/publications/research/section/circular-economy-in-the-built-environment</p>	<p>https://www.theguardian.com/world/2015/may/22/france-to-force-big-supermarkets-to-give-away-unsold-food-to-charity</p>	<p>L1= (download link to) ARUP study on "Circular Economy in the Built Environment" (2016)</p>
<p>German CE policy state of the art (in general, not specifically regarding cities)</p>	<p>Germany</p>	<p>https://www.iwk.oeln.de/fileadmin/publikationen/2016/289257/IW-Policy_Paper_2016-09_Circular_Economy.pdf</p>	<p>http://library.fes.de/pdf-files/wiso/12576.pdf</p>	<p>L1 = report by the Cologne Institute for Economic Research in English (Neligan, 2016, Moving towards a Circular Economy Europe between Ambitions and Reality); L2 = report by the German Friedrich-Ebert Foundation in German (Wilts, 2016, Deutschland auf dem Weg in die Kreislaufwirtschaft?); L3 = English paper by Wilts, 2017, Key Challenges for Transformations Towards a Circular Economy – The Status Quo in Germany</p>



German Resource Efficiency Programme (ProgRes) (2012)	Germany	https://www.bmub.bund.de/fileadmin/Daten_BMU/Pool/Broschueren/progress_broschuere_de_bf.pdf	http://www.derenergieblog.de/alle-themen/energie/progress-ii-bundeskabinett-beschliesst-deutsches-ressourceneffizienzprogramm/	http://www.derenergieblog.de/alle-themen/energie/progress-ii-bundeskabinett-beschliesst-deutsches-ressourceneffizienzprogramm/
German ProgRes II (2016)	Germany	https://www.bmub.bund.de/publikation/deutsches-ressourceneffizienzprogramm-ii-programm-zur-nachhaltigen-nutzung-und-zum-schutz-der-natur/	https://www.ellenmacarthurfoundation.org/case-studies/policy	http://www.derenergieblog.de/alle-themen/energie/progress-ii-bundeskabinett-beschliesst-deutsches-ressourceneffizienzprogramm/
German Packaging Law (VerpackG) (to come into effect January 2019)	Germany	https://verpackungsgesetz-info.de	https://www.bmub.bund.de/pressemitteilung/neues-verpackungsgesetz-passiert-den-bundesrat/	
Portugal: Green Growth Commitment (established in 2014)	Portugal	http://www.crescimntoverde.gov.pt/wp-content/uploads/2014/10/CrescimentoVerde_ing_v_pq_bx.pdf	https://www.ellenmacarthurfoundation.org/case-studies/portugal-green-growth-commitment	
Scotland: Zero Waste Plan (2010)	Scotland	http://www.gov.scot/Topics/Environment/waste-and-pollution/Waste-1/wastestrategy	http://www.gov.scot/Resource/0045/00458945.pdf	
Scotland: Revolve Reuse (Quality Standard) (designed and piloted in 2011)	Scotland	http://www.zerowastescotland.org.uk/revolve	https://www.ellenmacarthurfoundation.org/case-studies/scotland-increasing-customer-confidence-in-reused-products	
Making Things Last - A Circular Economy Strategy for Scotland (launched in 2016)	Scotland	http://www.gov.scot/Resource/0049/00494471.pdf	https://www.ellenmacarthurfoundation.org/case-studies/scotland-making-things-last-a-circular-economy-strategy	http://www.gov.scot/Publications/2016/02/1761/17
Spanish Waste Management Plan (2016-2022)	Spain	http://www.mapama.gob.es/es/calidad-y-evaluacion-ambiental/planes-y-estrategias/pemar-aprobado6noviembrecondae_tcm7-401704.pdf	https://resource.co/article/mixed-bag-reuse-10885	https://resource.co/article/circular-economy-package-mixed-bag-reuse-10885



<p>Draft Version of the Future Spanish Circular Economy Strategy (España Circular 2030), published February 2018 for public consultation until March 12 2018</p>	Spain	http://futureenviro.es/en/ministry-of-agriculture-fisheries-food-and-environment-publishes-draft-of-spanish-circular-economy-strategy/	http://www.mapama.gob.es/es/calidad-y-evaluacion-ambiental-participacion-publica/Residuos-2018-Nota-sobre-proceso-informacion-publica-estrategia-espanola-economia-circular.aspx	http://www.mapama.gob.es/es/calidad-y-evaluacion-ambiental-participacion-publica/180206economiacircular_tcm7-479370.pdf
<p>UK: National Industrial Symbiosis Programme (NISP), active in the UK between 2003 and 2013, but ongoing world-wide replication/inspiration</p>	UK	http://library.fes.de/pdf-files/wiso/12576.pdf	http://www.nispnetwork.com	http://ec.europa.eu/environment/waste/prevention/pdf/NISP_Factsheet.pdf
<p>UK: Courtauld Commitment (Phase 1-3: 2005-2015; further steps currently elaborated)</p>	UK	http://www.wrap.org.uk/content/what-is-courtauld	https://www.ellenmacarthurfoundation.org/case-studies/united-kingdom	http://www.wrap.org.uk/category/initiatives/courtauld-commitment
<p>UK: Future Cities Demonstrator Programme/Competition (2012/2013)</p>	UK	https://innovateuk.blog.gov.uk/2015/10/29/learning-from-future-cities-demonstrators/	https://doi.org/10.1177/042098015597162	<p>L2 = link to Buck & While (2017), Competitive urbanism and the limits to smart city innovation: The UK Future Cities initiative</p>

CAT 5) International Frameworks/Cooperation: policy packages, partnerships and projects

CAT 5a) Interurban Cooperation

<p>FORCE project (EU H2020 funded) (2016-2020)</p>	<p>Copenhagen (lead partner), Hamburg, Lisbon and Genoa (22 partners in total)</p>	http://www.ce-force.eu/index.php	http://www.ce-force.eu/valuchains.php	http://www.ce-force.eu/consortium.php	
<p>R2π – tRansition from linear 2 circular: Policy and Innovation (EU H2020 funded) (2016-2019); <i>hybrid case ranging between CAT 5a) and 5c), several project partners based in one city or country further also operate (inter)nationally</i></p>	<p>16 partner organisations in 9 countries (EU, Israel), lead partner: Collaborating Centre on Sustainable Consumption and Production (CSCP, DE)</p>	http://www.r2pi-project.eu	http://www.r2piproject.eu/blog/	http://www.r2piproject.eu/wp-content/uploads/2018/08/R2pi-stakeholders-report-sept-2018.pdf	<p>L3 = Stakeholder Views Report on Enablers and Barriers to a Circular Economy (September 2018)</p>



CAT 5b) Interregional Cooperation (for other Interreg Europe projects see <https://www.interregeurope.eu/discover-projects/>)

Interreg Europe CircE project (European regions toward Circular Economy) (2017-2021)	8 European partner organisations in 8 countries; lead partner: Lombardy Region (ITA)	https://www.interregeurope.eu/circ/	https://www.lwarb.gov.uk/what-we-do/circular-london/circe-project/
Interreg Europe RETRACE project (A Systemic Approach for Regions Transitioning towards a Circular Economy) (2016-2020)	8 partners in 5 countries; lead partner: Politecnico di Torino (ITA)	http://urbact.eu/sites/default/files/policy_brief_on_circular_economy.pdf	https://www.interregeurope.eu/retrace/
Interreg Europe TRIS project (Transition Regions towards Industrial Symbiosis) (2016-2012)	8 partners in 5 countries; lead partner: Birmingham City Council (England/UK)	http://urbact.eu/sites/default/files/policy_brief_on_circular_economy.pdf	https://www.interregeurope.eu/tris/
Interreg Europe SYMBI project (Industrial Symbiosis for Regional Sustainable Growth and a Resource Efficient Circular Economy) (2016-2021)	9 partners in 7 countries; lead partner: FUNDECYT-PCTEX (ES)	http://urbact.eu/sites/default/files/policy_brief_on_circular_economy.pdf	https://www.interregeurope.eu/fileadmin/user_upload/plp_uploads/events/Industrial_networks_and_role_of_business.pdf
Circular Ocean Project (2015-2018)	Northern Periphery & Arctic (NPA) region	http://urbact.eu/sites/default/files/policy_brief_on_circular_economy.pdf	www.circularocean.eu

CAT 5c) Countries/International Cooperation

European Circular Economy Package (adopted December 2015)	EU-wide	http://ec.europa.eu/environment/circular-economy/index_en.htm	https://resource.co/article/circular-economy-package-mixed-bag-reuse-10885
CE as one theme of the EU Urban Agenda (approved in Dec. 2016, in place since January 2017)	EU-wide	http://urbact.eu/circular-economy-another-buzzword-or-your-city's-future	http://ec.europa.eu/regional_policy/sources/policy/themes/urban-development/agenda/pact-of-amsterdam.pdf
Nordic Built Cities Programme (2014: programme, 2015-2016: challenge)	Nordic Countries	http://nordicbuiltcities.org/nordic-built-cities/	http://nordicbuiltcities.org/thechallenge/about/



CAT 6) Isolated building/structures/monuments

Children's House Brobækken (built in 2011)	Odense (DK)	http://www.gronneindkob.dk/cases/odense-har-bygget-svanemarket-boernehus/
La Lanière Project House	Lille (FR)	http://www.eurocities2017.eu/awards/shortlist

CAT 7) Other Policy Papers/Documents/Studies

2016 EEA study "Circular economy in Europe" <https://www.cca.europa.eu/publications/circular-economy-in-europe>

2016 Policy Brief „Pathways to a circular economy in cities and regions” by ESPON, Interact, Interreg Europe & URBACT <http://urbact.eu/circular-economy-another-buzzword-or-your-city's-future> http://urbact.eu/sites/default/files/policy_brief_on_circular_economy.pdf

Report by the Cologne Institute for Economic Research in English (Neligan, 2016, Moving towards a Circular Economy Europe between Ambitions and Reality) https://www.iwkoeln.de/fileadmin/publikationen/2016/289257/IW-Policy_Paper_2016-09_Circular_Economy.pdf

URBACT 2015 report "Social Innovation in Cities" <http://urbact.eu/circular-economy-another-buzzword-or-your-city's-future> http://urbact.eu/sites/default/files/03_socialinn-web.pdf

ARUP study on "Circular Economy in the Built Environment" (2016) <https://www.arup.com/publications/research/section/circular-economy-in-the-built-environment>

CAT 8) Other Policy Papers/Documents/Studies and Partnerships not directly tackling CE, but potentially relevant e.g. in terms of governance

URBACT's BoostInno Network on Boosting Social Innovation <http://urbact.eu/circular-economy-another-buzzword-or-your-city's-future> <http://urbact.eu/boostinno>



B. Worldwide Circular Economy Policies and Projects (initial exploration)

Name/Description	City (Country)	Link1	Link2	Link3	Additional material/information
CAT 2) City or City-Region Policy Framework (alphabetical order: first country, second city, third date: oldest first)					
Adelaide (<i>see also above information on its respective state, South Australia</i>); <i>city rather seems to focus on climate policies</i>	Capital of the state South Australia/Australia	http://www.adelaidedenow.com.au/news/opinion/tim-llloyd-after-carbonneutral-adelaide-comes-our-circular-economy/news-story/142bf9b386e419cac27095c5012cdd0a	http://www.greenindustries.sa.gov.au/sa-waste-resource-recovery-infrastructure-plan	https://www.carbonneutraladelaide.com.au/about	South Australia's Waste and Resources Recovery Infrastructure Plan (2018) can be accessed via L2; Carbon Neutral Adelaide Action Plan (2016-2021) can be accessed via L3
Rio de Janeiro (one of the nine members of the EMF's Circular Cities Network)	Capital of Brazil	http://www.tauw.com/news/article/article/the-netherlands-helps-rio-de-janeiro-combat-guanabara-bay-pollution/	http://kunststofkringloop.nl/wp-content/uploads/2014/11/Two-pager-on-Opportunities-of-a-Circular-Economy-in-Rio-de-Janeiro1.pdf		
Guiyang	Capital of Guizhou province/China	https://kenniskaarten.hetgroenebrein.nl/en/knowledge-map-circular-economy/among-cities-regions-and-countries/			
Austin (one of the nine members of the EMF's Circular Cities Network) (mentioned as one of nine "Zero Waste Case Studies" on the EPA (United States Environmental Protection Agency) website)	Capital of Texas/USA	https://austinmaterialsmarketplace.org/the-circular-economy/	http://www.austintexas.gov/blog/austin-leads-world-toward-zero-waste-and-away-linear-economy		
Boulder (one of the nine members of the EMF's Circular Cities Network); one of nine "Zero Waste Case Studies" on the EPA (United States Environmental Protection Agency) website	City in Colorado/USA	https://www.epa.gov/transforming-waste-tool/zero-waste-case-study-boulder	https://www-static.bouldercolorado.gov/docs/Zero-Waste-Strategic-Plan-Action-Plan-Web-1-201604131208.pdf?_ga=2.90319192.352306730.1525276901-1463724673.1525276901		
New York City (one of the nine members of the EMF's Circular Cities Network); focus of the information on the right is on the city's Zero Waste Programme OneNYC	City in New York/USA	https://www1.nyc.gov/site/sustainability/initiatives/zero-waste.page	https://www.wastedive.com/news/3-ways-to-boost-the-circular-economy-in-nycs-construction-industry/445010/	https://www1.nyc.gov/site/sustainability/onenyc.nyc.page	



Phoenix (one of the nine members of the EMF's Circular Cities Network)	Capital of Arizona/ USA	https://www.ellenmacarthurfoundation.org/ce100/directory/phoenix	https://www.phoenix.gov/publicworks	https://cities-today.com/linear-economy-results-inefficient-use-scarce-resources-increases-harmful-emissions-generates-increasing-amounts-waste-john-trujillo-public-works-director-city/
San Francisco; Zero Waste Program (started in 2000 according to L3) (mentioned as one of nine "Zero Waste Case Studies" on the EPA (United States Environmental Protection Agency) website)	City in California/ USA	http://www.c40.org/case_studies/c40-good-practice-guides-san-francisco-zero-waste-by-2020	http://www.c40.org/case_studies/c40-good-practice-guides-san-francisco-zero-waste-by-2020	https://www.epa.gov/transforming-waste-tool/zero-waste-case-study-san-francisco
Seven other US cities (apart from Boulder and San Francisco) that are mentioned as " Zero Waste Case Studies " on the EPA (United States Environmental Protection Agency) website (L1): Berkeley, Fresno, Napa and San Jose (all in CA); Renton and Seattle (WA) -> <i>see L1</i>	Cities in CA and WA/USA	https://www.epa.gov/transforming-waste-tool/zero-waste-case-study-san-francisco		

CAT 3) Regional/State Policy Frameworks

South Australia (<i>see also above information on the state's capital, Adelaide</i>)	Australian state	https://static1.squarespace.com/static/5900aad637c581564bbf6bb4/t/5949eaaafb629a1631d8b334/1498016435557/Poweringthechange_Nov2017.pdf	https://auspost.com.au/content/dam/auspost_corp/media/documents/circular-economy-white-paper.pdf	<p><i>for the four SA policy papers see:</i> South Australia's Waste Strategy (2015-2020): http://www.zerowaste.sa.gov.au/upload/resource-centre/publications/waste-strategy/ZWSA%20WASTE%20STRATEGY%202015-2020.pdf;</p> <p>Report "Creating value: the potential benefits of a circular economy in South Australia" (2017), https://www.greenindustries.sa.gov.au/_literature_172204/Potential_Benefits_of_a_Circular_Economy_in_South_Australia_-_report_(2017);</p> <p>Summary "Benefits of a Circular Economy in South Australia" (2017), https://www.greenindustries.sa.gov.au/_literature_172176/Benefits_of_a_Circular_Economy_in_South_Australia_-_summary_(2017);</p> <p>SAWRRIP (2018), https://www.greenindustries.sa.gov.au/sa-waste-resource-recovery-infrastructure-plan</p>
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CAT 4) National Policy Frameworks and other initiatives (e.g. programmes, partnerships, competitions)

Australia: some selected information on Industrial Ecology (pioneered by the state of NSW) and the potential effects of China's New Waste and Recycling Policy	Australia	https://edgeenvironment.com/wp-content/uploads/2015/07/how-to-move-Australia-toward-a-circular-economy-WME-May-June-15-issue.pdf	http://www.greenindustries.sa.gov.au/chinas-new-policy-on-waste-and-recycling
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Brazil	Brazil	https://www.ellenmacarthurfoundation.org/assets/downloads/A-Circular-Economy-in-Brazil-An-initial-exploration.pdf	https://www.nederlandenu.nl/laatstenuieuws/nieuws/nieuws/2016/07/31/circular-economy	http://www.circularchange.com/portfolio-item/beatriz-luz/
Chinese Circular Economy Strategies/Laws (various)	China	https://doi.org/10.1111/jiec.12597	http://www.iamsterdam.com/media/pdf/factsheet-circular-economy-in-china.pdf?la=nl	<p>https://kenniskaarten.hetgroenebrein.nl/en/knowledge-map-circular-economy/among-cities-regions-and-countries/</p> <p>L1 = McDowall et al. (2017), Circular Economy Policies in China and Europe; L2 = Dutch Consulate in Guangzhou (2016), Factsheet Circular Economy in China;</p> <p><i>other papers mentioned:</i></p> <p>Prendeville et al. (2017), Circular Cities: Mapping Six Cities in Transition, https://doi.org/10.1016/j.eist.2017.03.002</p> <p>Su et al. (2013), A review of the circular economy in China: moving from rhetoric to implementation, https://doi.org/10.1016/j.jclepro.2012.11.020</p> <p>Geng et al. (2009) , Implementing China’s circular economy concept at the regional level: A review of progress in Dalian, China, https://doi.org/10.1016/j.wasman.2008.06.036</p>
China's New Waste and Recycling Policy (came into effect 31 December 2017, another policy on 1 March 2018); <i>will potentially affect states/countries that export recyclables to China (such as Australia) and could push them to improve the quality standards</i>	China	http://www.greenindustries.sa.gov.au/chinas-new-policy-on-waste-and-recycling		
Japanese CE approaches	Japan	https://kenniskaarten.hetgroenebrein.nl/en/knowledge-map-circular-economy/among-cities-regions-and-countries/		
Information on some Asian Countries/Cities	Asia	https://www.breakfreefromplastic.org/2018/03/19/zero-waste-key-achieving-circular-economy-cities-experts-say/		