

## Wealth from Waste Monash – Summary of Research Outputs

Year	Publications	Submissions	Academic presentations	Industry presentations
2014	<p>Lane, R. and Mulligan, M. 2014. <b>Rethinking Waste</b>. In Mulligan (ed.) <b>An Introduction to Sustainability: Environmental, social, personal</b>, Routledge-Earthscan.</p> <p>Lane, R., 2014. <b>Understanding the Dynamic Character of Value in Recycling Metals from Australia</b>. <i>Resources</i> 3 (2), 416-431.</p> <p>Gumley, W. 2014 'Has Environmental Impact Assessment Lost Credibility?', in Martin, P. et. al. <i>The Search for Environmental Justice</i>, (Edward Elgar,).</p> <p>Gumley, W., 2014. An Analysis of Regulatory Strategies for Recycling and Re-Use of Metals in Australia. <i>Resources</i> 3 (2), 395-415.</p> <p>Mudd, G.M., Yellishetty, M., Reck, B.K., and Graedel, T.E.. 2014. Quantifying the Recoverable Resources of Companion Metals: A Preliminary Study of Australian Mineral Resources. <i>Resources</i>, 3(4), 657-671; doi:<a href="https://doi.org/10.3390/resources3040657">10.3390/resources3040657</a></p> <p>Zhu, X., 2014. GIS and Urban Mining. <i>Resources</i> 3 (1), 235-247.</p>	<p>Golev, A., and Corder, G., Lane, R., and Gumley, W., Nov, 2014. <i>Submission on The National Television and Computer Recycling Scheme—Operational Review (November 2014)</i>. <a href="https://www.environment.gov.au/submissions/ewaste-review/public-academic-environmental-monash-university-and-university-of-qld.pdf">https://www.environment.gov.au/submissions/ewaste-review/public-academic-environmental-monash-university-and-university-of-qld.pdf</a></p>	<p>Lane, R: Co-convended a panel discussion at Assoc of American Geographers conference, Tampa, Florida on the theme of, 'Waste Regimes: The Material and Political Waste Which We Live by in Different Localities.</p> <p>Lane, R: Co-convended themed session at Institute of Australian Geographers conference, Melbourne, on 'Critical Geographies of Consumption, Sustainability and Waste' and presented paper on 'Value and Metals Recycling in Australia'.</p> <p>Lane, R. Presented seminar at University of Wollongong on Value and Metals Recycling in Australia.</p> <p>Lane, R. 'Diverse Economies of Urban Mining in Australia', Association of American Geographers, Chicago.</p> <p>Gumley, W. Presentation of WfW project at International Institute of Industrial and Environmental Economics, at Lund University, Sweden.</p> <p>Gumley, W. Presentation of WfW project to Wuppertal Institute, Germany</p> <p>Gumley, W. Participation in 6<sup>th</sup> International Conference on Corporate Sustainability and Responsibility, at Humboldt University Berlin, Germany</p> <p>Zhu, X. Poster presentation to GIScience 2014 - the Eighth International Conference on Geographic Information Science, Vienna. 'The Development of the Australia Urban Mine Atlas'</p> <p>Mudd, G. Keynote presentation on material flows and environmental impacts at RISTEX symposium, Tsukuba, Japan</p>	<p>Lane, R and Zhu, X. 2015. CSIRO Computational and Simulation Sciences and eResearch Annual Conference 2015</p> <p>Lane, R. and Gumley, W. 2015, 'Barriers and incentives for organisations collecting and processing used electronics in Australia', World Resources Forum, Sydney</p>

2015	<p>Lane, R., Gumley, W., Santos, D. (2015) Mapping, Characterising and Evaluating Collection Systems and Organisations, Monash University, Australia.  <a href="http://artsonline.monash.edu.au/wfw/files/2016/03/WfWMonash-Mapping-Characterising-Evaluating-CollSystemsOrgs-Dec2015.pdf">http://artsonline.monash.edu.au/wfw/files/2016/03/WfWMonash-Mapping-Characterising-Evaluating-CollSystemsOrgs-Dec2015.pdf</a></p> <p>Lane, R. 2015. Wealth from Waste: research into the role of social enterprises &amp; not-for-profits in the circular economy', Bulletin of Social Procurement Australasia, Nov 2015.</p> <p>Lane, R. 2015. Diverse economies of urban mining in Australia. <i>Environment and Planning D: Online Forum</i>.  <a href="http://societyandspace.com/2015/08/14/discards-diverse-economies-and-degrowth-forum-by-josh-lepawsky-and-max-liboiron/">http://societyandspace.com/2015/08/14/discards-diverse-economies-and-degrowth-forum-by-josh-lepawsky-and-max-liboiron/</a></p> <p>Werner, T.T., Mudd, G.M., Jowitt, S.M., 2015. Indium: key issues in assessing mineral resources and long-term supply from recycling. <i>Applied Earth Science</i> 124 (4), 213-226.</p>	<p>Lane, R., Gumley, W., Golev, A., and Corder, G. Nov, 2015. <i>Submission on the Discussion Paper "Managing e-waste in Victoria: Starting the Conversation"</i>.  <a href="http://artsonline.monash.edu.au/wfw/files/2015/11/Victorian-ewaste-ban-submission.Monash.UQ.pdf">http://artsonline.monash.edu.au/wfw/files/2015/11/Victorian-ewaste-ban-submission.Monash.UQ.pdf</a></p>	<p>Lane, R and Zhu, X. 2015. CSIRO Computational and Simulation Sciences and eResearch Annual Conference 2015</p> <p>Lane, R. 2015. 'Diverse Economies of Urban Mining in Australia', Association of American Geographers, Chicago</p> <p>Lane, R. 'What Role for the Charity Sector in the Circular Economy?' UnMaking Waste, Univ SA.</p> <p>Lane, R. Convened themed session at Institute of Australian Geographers Annual Conference on "Urban Metabolism: A useful metaphor for understanding socio-material dimensions of changing urban environments?"</p> <p>Lane, R. "Urban metabolism and urban mining: Towards a political industrial ecology of electronics recycling in Australia", Institute of Australian Geographers Annual Conference</p> <p>Santos, D. "Urban metabolism and metals in buildings in Australia", Institute of Australian Geographers conference</p> <p>Gumley, W. "The role of regulation in promoting shared responsibility and improved markets for waste and recovery of resources in Australia." Monash Business and Sustainability Network &amp; Centre for Development Economics and Sustainability Workshop on Sustainability, Prato, Italy.</p> <p>Gumley, W. "Using Market Instruments to Improve Product Stewardship and Waste Management Outcomes for e-waste in Australia", 16th Global Conference on Environmental Taxation, UTS, Sydney.</p> <p>Follett, Kaye, "Understanding the acquisition, use and disposal of mobile communication devices in</p>	<p>Lane, R. invited speaker at Melbourne Metropolitan Waste Management Group forum on hard rubbish</p> <p>Lane, R. invited speaker National Association of Charity Retail Organisations annual conference, Geelong</p> <p>Lane R. invited participant Social Enterprise Session at WRF inputting in developing policy recommendations for national forum on Social Enterprises</p> <p>Lane, R. invited panellist, Australian Mobile Telecommunications Association product stewardship forum, Sydney</p> <p>Lane, R. and Gumley, W. 2015, 'Barriers and incentives for organisations collecting and processing used electronics in Australia', World Resources Forum, Sydney</p> <p>Werner, T. 2015, 'Mineral resources of Indium and long term supply from wastes', World Resources Forum, Sydney</p> <p>Zhu, X., 2015, 'Spatially enabling aboveground resource analysis to support better decision making', World Resources Forum, Sydney</p> <p>Mudd, G. Invited speaker presented to European Commission Conference, Brussels, Belgium, 12-13th November 2015, "Challenges in Quantifying the Conversion of Mineral Resources to Production of By-Product and Critical Metals"</p>
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			Australian households, Institute of Australian Geographers conference	
2016	<p>Mudd, G.M., Jowitt, S.M., Werner, T.T., 2016. The world's by-product and critical metal resources part I: Uncertainties, current reporting practices, implications and grounds for optimism. <i>Ore Geology Reviews</i>.</p> <p>Ciacchi L, Nuss P, Reck B, Werner T, Graedel T. Metal Criticality Determination for Australia, the US, and the Planet—Comparing 2008 and 2012 Results. <i>Resources</i>. 2016;5:29.</p> <p>Golev A, Werner T, Zhu X, Matsubae K. Product flow analysis using trade statistics and consumer survey data: a case study of mobile phones in Australia. <i>Journal of Cleaner Production</i>. 2016;133:262-71.</p>	<p><b>Gumley, W. and Lane, R. 2016, Submission re: draft <i>National Hazardous Waste data and reporting standard</i> to consultation process conducted by Blue Environment on behalf of Commonwealth Department of Environment, 19 May 2016.</b></p>	<p>Lane, R. “Material flow analysis as calculative practice: Can Material Flow Analysis influence the pathways of used electronics towards reuse or recycling?”, <i>Association of American Geographers, San Francisco</i>.</p> <p>Lane, R. “Diversity and the circular economy: the case of used electronics in Australia”, <i>Social Enterprise Research Colloquium Australasia, Swinburne University</i>.</p> <p>Zhu, X. Presentation to Proceedings of GISRUK 2016, University of Greenwich, Greenwich, UK, 30 March to 1 April 2016: “A GIS-Based Approach to Spatially Explicit Analysis of Above-Ground Metal Stocks” (with Xiaobo Yu)</p> <p>Mudd, G. :”From Mineral Resources to Sustainable Mining: The Key Trends to Unlock the Holy Grail?” (with S Jowitt), Keynote Presentation to 3<sup>rd</sup> International AusIMM Geometallurgy Conference, Perth, WA.</p> <p>Follett, Kaye, “The acquisition, use and disposal of portable electronic devices in Australian Households - A social practice perspective”. <i>The Australian Sociological Association Conference, Australian Catholic University, Melbourne</i>.</p>	<p><b>Lane, R. Australia and NZ Recycling Platform - research consultancy, \$2000</b></p>
2017	<p><b>Lane, R. and Gumley, W. (in press 2017). What role for the social enterprises in the circular economy? In Crocker, R. (ed.) <i>Unmaking Waste</i>, Springer.</b></p> <p><b>Santos, D. and Lane, R. 2017. A material lens on socio-technical transitions: The case of steel in Australian buildings. <i>Geoforum</i> 82: 40-50.</b></p> <p><b>Zhu, X., Lane, R. and Werner, T. 2017. Modelling in-use stocks and spatial distributions of household electronic devices and their contained metals based on household survey data. <i>Resources</i>,</b></p>		<p>WERNER, T. T.; MUDD, G. M.; CIACCHI, L. Critical metals in an export focused economy: The story of indium in Australia, <i>International Society for Industrial Ecology Socio-economic Metabolism Asia-Pacific Conference (ISIE SEM AP)</i>, Nagoya, Japan, 28-30 Sep, 2016.</p>	<p>TT Werner (on behalf of the whole cluster) “Current research on metals in Australia: Sustainability and future directions”. <i>Federation of Indian Mineral Industries (FIMI) Sustainable Mining Summit</i>. 22 April, Goa, India.</p>

	<p><b><i>Conservation and Recycling 120: 27-37.</i></b>  <b><u><a href="http://dx.doi.org/10.1016/j.resconrec.2017.01.002">http://dx.doi.org/10.1016/j.resconrec.2017.01.002</a></u></b></p> <p>Werner TT, Mudd GM, Jowitt SM. The world's by-product and critical metal resources part II: A method for quantifying the resources of rarely reported metals. <i>Ore Geology Reviews</i>. 2017;80:658-75.</p> <p>Werner TT, Mudd GM, Jowitt SM. The world's by-product and critical metal resources part III: A global assessment of indium. <i>Ore Geology Reviews</i>. 2017.</p> <p>Werner TT, Yellishetty M, Giurco D. Wealth from Waste A Summary of Recent Australian Research. Invited Conference Paper. National Conference on Challenges in Environment Management: Mines and Industries. 20-21 April 2017, Goa, India.</p>		<p>WERNER, T. T., MUDD, G. M. A detailed assessment of indium supply potential from primary production, <i>Ecobalance 2016</i>, Kyoto, Japan, 3-6 Oct, 2016.</p> <p>G.M. Mudd, S.M. Jowitt, T.T. Werner, Z. Weng. Critical Metals for 21st Century Energy Technologies: An Optimistic View of Global Resources. 12th <i>EcoBalance Conference</i>, 3-6 October 2016, Kyoto, Japan</p>	
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