Transitioning Unions

# Transitioning Unions: What constitutes a just transition for Swedish trade unions?

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#### Abstract

The inclusion of 'just transition' in the Paris Agreement in 2015 have inspired subsequent attempts, and hopes, to bridge a jobs. vs. climate-divide in attempts to decarbonise industrial society. But what are the imperatives for a just transition of the workforce? And what are the nationally defined development priorities for the creation of decent work and quality jobs? Through interviews with Swedish trade union representatives from Sweden's three largest industrial emitters (steel, petroleum refining, cement) along with representatives at the central level, this study illustrates contrasting interpretations of what constitutes a just transition. The main tensions concern the time a climate transition is allowed to take; if policies should support local inhabitants or global concerns over climate change; why allegiances are limited to the industrial town or encompasses a wider trade union movement; and whether national politics or European coordination is what makes a transition 'just'. While central levels of Swedish trade unions understand just transition in international and intergenerational terms, local level trade unions advocate for an emplaced understanding of just transition. Given the risk of growing conflicts between different segments of trade unions over the issue of climate transition policies, a progressive alliance between the labour- and climate movement is improbable as matters stand at present.

Keywords: Just transition, decarbonisation, trade union, Sweden, climate policy

## 28 Introduction

The Parties to this Agreement...[take] into account the imperatives of a *just transition* [author's emphasis] of the workforce and the creation of decent work and quality jobs in accordance with nationally defined development priorities – *The Paris Agreement* (2015)<sup>1</sup>

The inclusion of 'just transition' in the Paris Agreement 2015 demonstrated a successful collaboration between labour- and environmental movements in developing and promoting this term.<sup>2</sup> Numerous scholars have identified the term 'just transition' as a political marriage aimed at overcoming an inherent conflict between economic growth and ecological limits. The conflict has also been described as a jobs vs. climate-divide, implying that workers and environmentalists could form a progressive alliance, provided that conflicts surrounding transitions to a fossil-free society are overcome.<sup>3</sup> At the same time, as Bazilian et al (2021) points out, there is as of yet a lack of empirical studies that illustrate views on just transition with regards to local workforces and their communities.4

41 So what does it mean in practice – what makes an industrial decarbonization transition 'just'?
42 The Paris Agreement-quote should here be approached as a question, namely: what are the
43 imperatives for a just transition of the workforce? Given that these imperatives are defined
44 nationally, we must move from a general to a specific, or place-based, understanding of just
45 transition to assess whether and how the jobs vs. climate-divide can be bridged.

Swedish trade unions serve can here serve as a case for a country seeking to implement international commitments to a just transition. Internationally, the Swedish labour movement have ardently promoted transition initiatives and also identified the term 'just transition' as a central principle for Swedish trade unions in the decades to come.<sup>5</sup> These overarching international and national commitments to climate transition policies, then, must be anchored through locally contextualised studies in the communities where the industrial decarbonisation is taking place. Understanding national imperatives of the Swedish workforce requires studying approaches to 

<sup>&</sup>lt;sup>1</sup> UNFCCC, "The Paris Agreement," 2015. p. 4 <u>https://unfccc.int/process-and-meetings/the-paris-agreement/the-paris-agreement</u>

<sup>&</sup>lt;sup>2</sup> E. Morena, D. Krause & D. Stevis, eds., *Just Transitions: Social Justice in the Shift Towards a Low-Carbon World* (Pluto Press, 2020)

<sup>&</sup>lt;sup>3</sup> For summaries on the relatively small but growing literature on environmental labor studies, see P. Bjerkesjö et al., *Grön omställning: Kunskapsläge och fortsatta forskningsbehov* [The green transition and working life] (IVL Swedish Environmental Research Institute, 2021).

<sup>&</sup>lt;sup>4</sup> Cf. M. D. Bazilian et al., "Expanding the scope of just transitions: Towards localized solutions and communitylevel dynamics," *Energy Research and Social Science*, 80(April, 2021), 102245. https://doi.org/10.1016/j.erss.2021.102245

<sup>&</sup>lt;sup>5</sup> Interview with Central union rep 6; cf. Akademikerförbundet SSR, "<u>Klimatomställningen är större än elektrifieringen: Intervju med Karl-Petter Thorwaldsson</u>, ITUC [Interview with Karl-Petter Thorwaldsson, ITUC]," *Samhällsvetarpodden*, 23 April 2021; Union to Union and Just Transition Centre, <u>Just Transition in the international development cooperation context – A joint report of Union to Union (Sweden) and the Just Transition Centre</u> (ITUC, 2021); Olof Palme International Center, <u>Climate Policy for a Just Transition</u> (Palme Center, 2021).

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transition policies *within* the trade unions, both locally in specific industrial towns and at the centrallevel of the unions.

The Paris Agreement currently serve as a rationale for numerous ambitious transition initiatives. The EU's Just Transition Fund,<sup>6</sup> similar to the US Government's Green New Deal,<sup>7</sup> communicates that the Western world is embarking on a societal project where public resources are dedicated to a climate transition. In addition, the International Trade Union Confederation (ITUC) established a Just Transition Centre in Oslo as part of signalling the labour movement's commitment to decarbonisation.8 In Sweden, the government and numerous businesses collaborate through the organisation Fossil-Free Sweden<sup>9</sup> to promote an industry-led transition of the country's base industry – in particular steel, fuels, and cement.<sup>10</sup> In addition, the Swedish Government have ratified a Climate Policy Framework to further steer Sweden towards becoming a "fossil-free welfare state".11

Running alongside, and in opposition to, these transition initiatives are various populist movements. Among the most colourful examples are, ofcourse, the former US Trump Administration and the French Yellow Vest Rebellion.<sup>12</sup> Similarly in Sweden, popular movements such as the Fuel Rebellion, along with political parties from both the parliamentary left and right, are increasingly challenging governmental climate transition policies.<sup>13</sup> What these movements have in common is a critique of climate policies in general,<sup>14</sup> but also of policy-professionals working at the central level of climate organisations, governments, and trade unions. These policy-professionals represent a professional-managerial class, which populists oppose, but also a larger political realignment where it is highly educated voters who support left-wing governments.<sup>15</sup> By contrast, low-educated and rural voters, predominantly workers in industrial towns, are

<sup>&</sup>lt;sup>6</sup> Tillväxtverket. "Operativt program: Fonden för en rättvis omställning [Operative Program: Fund for a just transition]. European Regional Development Fund, March 2020; European Commission, "Just Transition Fund – <u>About the Fund</u>," Accessed 22 February, 2022.

<sup>&</sup>lt;sup>7</sup> New York Times. "What Is the Green New Deal? A Climate Proposal, Explained," 21 February, 2019.

<sup>&</sup>lt;sup>8</sup> Just Transition Centre. *A Report for the OECD*. May 2017.

<sup>&</sup>lt;sup>9</sup> Fossil free Sweden, <u>https://fossilfrittsverige.se/en/about-us/</u>

<sup>&</sup>lt;sup>10</sup> R. Hildingsson, et al., Intervjustudie om förutsättningar för nollutsläpp i den svenska basindustrin. (Lunds universitet, 2017).

<sup>&</sup>lt;sup>11</sup> SweGov, Swedish Climate Policy Framework. Ministry of the Environment and Energy, 2017.

<sup>&</sup>lt;sup>12</sup> cf. M. J. Sandel, "Chp. 4. Credentialism: The Last Acceptable Prejudice," in *The Tyranny of Merit: What's Become of the Common Good?* (Penguin Books, 2020).

<sup>&</sup>lt;sup>13</sup> Bränsleupproret [The fuel rebellion], <u>https://www.bransleupproret.se/;</u> N. Dadgostar et al. "<u>Röd politik för en grön omställning</u> [Red politics for a green transition]." Pleading from the Left Party to Swedish Parliament, 2021/22:3278; M. Kinnunen et al. "En effektiv klimatpolitik [An effective climate politics]." Pleading from the Sweden Democrats to Swedish Parliament, 2019/20:595; cf. G. Ó Erlingsson, K.Vernbyb, & R.Öhrvall, "The single-issue party thesis and the Sweden Democrats," *Acta Politica* 49, no. 2 (2014): 196–216.

<sup>&</sup>lt;sup>14</sup> cf. M. J. Sandel, "Chp. 4. Credentialism: The Last Acceptable Prejudice," in *The Tyranny of Merit: What's Become of the Common Good?* (Penguin Books, 2020).

<sup>&</sup>lt;sup>15</sup> A. Gethin, C. Martínez-Toledano & T. Piketty, "Brahmin Left versus Merchant Right: Changing Political Cleavages in 21 Western Democracies, 1948-2020," *World Inequality Lab – Working paper*, no. 15 (May 2021); M. Lind, *The New Class War: Saving Democracy from the Managerial Elite* (Penguin, 2020).

increasingly supporting right-wing or culturally conservative parties.<sup>16</sup>

Given these ongoing political realignments of the workforce in Sweden and other western countries, it is relevant to approach questions about a just transition at both the local and central level of trade unions. It is particularly relevant to study these concerns in the industrial towns of Luleå, Lysekil and Slite, which are producers of steel, fuel and cement respectively – three basic materials central to the making of modern societies. Before describing the importance of these industrial towns, and the relevance of a Swedish transition for studies of decarbonisation policies internationally, we must review first the role played by trade unions in promoting the term 'just transition'.

### Just transition according to trade unions

Scholarly debates on climate policy are currently battling over the terminology for describing what needs to happen in industrialized societies in response to climate change. Etymologically, transition refers to a passage, 'going across' from one state to another. Transformation, by contrast, is to 'change in form or shape'. Whether a decarbonised industry is a transition, or a transformation, concern how one views societal change.<sup>17</sup> Either it is a change *within* or a change of the system; it is either a reform or a revolution.

The UN definition of 'just transition' describe how decarbonisation policies relate to work and the workforce. It entails collaboration between market actors and the state, for example providing consultation, education and skill development for workers. The ambition with such collaborations is to enable, or retain, a social safety net for workers as they and their industries decarbonise.<sup>18</sup> This is to be expected as industrial work is not absolutely decoupled from carbon emissions,<sup>19</sup> so decreases in emissions are set to impinge on the workforce itself. In addition, since fossil fuels and related carbon emissions have served until present as the material basis for modern welfare,<sup>20</sup> it

<sup>&</sup>lt;sup>16</sup> M. Snegovaya & S. Berman, "Populism and the Decline of Social Democracy," Journal of Democracy 30, no. 3 (2019): 5-19; R. Detje, Trade unions and rightwing populism: Tracing the working world (VSA-Verlag, 2019). It is also worth mentioning that climate scepticism remains a peripheral position even among Swedish right-wing voters or those critical of climate policies. See H. Oscarsson et al., "Svenska klimatförnekare," in U. Andersson, A. Carlander, M. Grusell & P. Öhberg (eds.) Ingen anledning till oro (?) (Göteborg: SOM-institutet, 235 Göteborgs universitet, 2021).

<sup>&</sup>lt;sup>17</sup> B-O. Linnér & V. Wibeck. Sustainability Transformations: Agents and Drivers across Societies (Cambridge University Press, 2020); cf. G. Lakoff & M. Johnson, Metaphors We Live By (Chicago University Press, 1980), p. 145.

<sup>&</sup>lt;sup>18</sup> UNFCCC, Just Transition of the Workforce, and the Creation of Decent Work and Quality Jobs (United Nations Framework Convention on Climate Change, Bonn, Germany, 2016).

<sup>&</sup>lt;sup>19</sup> European Energy Agency, Growth without economic growth. 2021; cf. H. Haberl et al., "A systematic review of the evidence on decoupling of GDP, resource use and GHG emissions, part II: synthesizing the insights," Environmental Research Letters (2020).

<sup>&</sup>lt;sup>20</sup> Karl Marx's enigmatic claim, "all that is solid melts into thin air", has been attributed to the effects of a societal order based on the burning of fossil fuels. In addition, Max Weber predicted modernity would only last "until the last bit of coal had been burnt", hence linking the present-day organisation of society to usage of fossil energy.

More recently, Mitchell and Christopher respectively linked changes in fossil-fuel use to possibilities of organising social democracy in general, and labour union power in particular. See T. Mitchell, Carbon

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98 makes sense to think of a 'just' society in relation to the influence people have had over its energy
99 use.<sup>21</sup>

Historically, when 'just transition' was first formulated in the 1970s, the term served to assert both labour- and environmental justice. As industries transitioned to new technologies, unions safeguarded the dignity of work by ensuring a reskilling of the existing workforce that in the process also made work safer, and cleaner.<sup>22</sup> By the 2010s, 'just transition' had been reformulated by both climate- and labour organisations at the international level to serve as a common denominator between the two. The former demanded a climate transition - away from carbon-intensive production processes; the latter required the resulting, decarbonised, industry would provide just work for union members.23 'Just transition', then, conceptually converges *climate* justice with *social* justice, recasting climate policies through the lens of the labour movement's history and future. Subsequently, the focus here is not on climate organisations but on the trade unions and their understanding of what constitutes a just transition. 

I translate 'just transition' using the Swedish term "rättvis omställning". Rättvis refers to 'fair', 'fairness', something being 'well-deserved' or 'just', as in attaining 'justice'. Omställning is more multifaceted still, referring both to 'transition' but also 'transformation', encompassing everything from the specifically *technical* – as in 'adjustment' or 'switch' – to the more encompassing term *social* - as in 'adaptation', 'change', or 'conversion'.<sup>24</sup> A just transition, then, has a social side in addition to its technical side. 

The technical rationale for studying how workers or producers transition, as opposed to consumers, is that industrial production is at present strongly correlated to carbon emissions.<sup>25</sup> The social rationale for asking what makes their transition 'just' is that concepts like 'justice' and 'transition' are contested. It is one thing to argue for industrial decarbonization. But defining how that transition is 'just' for different industries, workforces, and communities requires detailed 

Democracy: Political Power in the Age of Oil (Verso, 2011); C. Jones, Routes of Power: Energy and Modern America (Harvard University Press, 2014).

<sup>&</sup>lt;sup>21</sup> For more recent work on linkage between energy use and justice, see X. Wang & K. Lo, "Just transition: A conceptual review," *Energy Research & Social Science* 82 (December 2021): 102291; D. McCauley & R. Heffron, "Just transition: Integrating climate, energy and environmental justice," *Energy Policy*, no. 119 (2018): 1–7.

<sup>&</sup>lt;sup>22</sup> D. Stevis & R. Felli, "Global labour unions and just transition to a green economy," *International Environmental Agreements: Politics, Law and Economics* 15 no. 1 (2015): 29–43.

<sup>&</sup>lt;sup>23</sup> E. Morena, D. Krause & D. Stevis, eds., Just Transitions: Social Justice in the Shift Towards a Low-Carbon World (Pluto Press, 2020); L. Porter et al., "Climate Justice in a Climate Changed World," Planning Theory & Practice 21, no. 2 (2020): 293–321; cf. J. Hadden, Networks in Contention: The Divisive Politics of Climate Change (Cambridge University Press, 2015).

<sup>&</sup>lt;sup>24</sup> In addition, I understand 'just transition' as an actor-category used by the UN and trade unions internationally to refer to production shifting towards comparatively low emissions of carbon. Cf. UNEP, *Green Jobs: Towards Decent Work in a Sustainable, Low-Carbon World* (Geneve: United Nations Environmental Program, 2008).

<sup>&</sup>lt;sup>25</sup> J. B. Schor & A. K. Jorgenson, "Is it Too Late for Growth?" *Review of Radical Political Economics* 51, no. 2 (2019): 320–329.

122 studies of what just transition means to people in specific places. So far, these questions have 123 primarily been answered by trade unions at the international level, by national representatives,<sup>26</sup> or 124 business leaders themselves,<sup>27</sup> but less so on the local level of the workplace where the industrial 125 transition takes place.

Scholarship on trade union transition policies have pointed to the historical function and tradition of unions to pushing capital into improving production conditions. The workforce exerted partial control over production, either institutionally as union representatives or informally through the work itself.<sup>28</sup> Based on comparisons in 22 European countries, Ringqvist (2021) suggest that workforces with a high-degree of union membership are more willing to prioritize ambitious environmental targets, which enables union leaders to pursue such policies. In addition, by taking an active role in transitioning industries, the unions may hope to renew both their member base and purpose as organisations.<sup>29</sup> 

Studies on trade unions' environmental activism, for example Hampton's (2018) study of 'green representatives' in the UK – suggest that environmental priorities are not shared by the broad mass of union members.<sup>30</sup> Based on statements from trade unions and climate organisations, Ciplet and Harrison (2020) identifies a number of dilemmas between sustainability, on the one hand, and procedural-, recognition-, and distributive justice on the other hand.<sup>31</sup> Through interviews with climate organisations and German trade unions in the coal sector, Kalt (2021) contends that in order to overcome these justice dilemmas, climate transition policies that seek to decarbonise industries need also incorporate the identity and cultural history of these industrial regions, their workforces and communities.<sup>32</sup> In brief, there are tensions and trade-offs included in the ambition to swiftly decarbonise industries and concerns over how to recognise the importance of that an industry has in a specific place. 

In the Swedish setting there are attempts to explore tensions concerning transitions, both the
 identity of unions, some of which focus also on environmental policies. Based on interviews with

jobs: A multi- level analysis covering 22 European countries," British Journal of Industrial Relations (2021): 1-21.

<sup>&</sup>lt;sup>26</sup> Cf. N. Räthzel & D. Uzzell, "Trade unions and climate change The jobs versus environment dilemma," *Global Environmental Change* 21 (2011): 1215–1223. Doi:10.1016/j.gloenvcha.2011.07.010.

<sup>&</sup>lt;sup>27</sup> R. Hildingsson, et al., Intervjustudie om förutsättningar för nollutsläpp I den svenska basindustrin. (2017).

<sup>&</sup>lt;sup>28</sup> For examples from numerous countries and contexts, see N. Räthzel, N., D. Stevis, & D. Uzzell, *The Palgrave Handbook of Environmental Labour Studies* (Palgrave Macmillan, 2021), p. 891. doi: 10.1007/978-3-030-71909-8.

<sup>&</sup>lt;sup>29</sup>. Ringqvist, "Union membership and the willingness to prioritize environmental protection above growth and

<sup>&</sup>lt;sup>30</sup> P. Hampton, "Trade unions and climate politics: prisoners of neoliberalism or swords of climate justice?"

Globalizations 15, no. 4 (2018): 470-486. Doi:10.1080/14747731.2018.1454673

<sup>&</sup>lt;sup>31</sup> D. Ciplet & J. L. Harrison, "Transition tensions: mapping conflicts in movements for a just and sustainable transition," *Environmental Politics* 29, no. 3 (2020): 435–456.

 <sup>&</sup>lt;sup>32</sup> T. Kalt, "Jobs vs. climate justice? Contentious narratives of labor and climate movements in the coal transition in Germany," *Environmental Politics* (2021); For an overview of workforce identity in the US context, see A. Mayer, "A just transition for coal miners? Community identity and support from local policy actors," *Environmental Innovation and Societal Transitions* 28 (2018): 1–13.

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union officials at local and central level, Vogl et al (2019) and Lundström et al (2015) argue that
the trade unions' ability to become transition actors are hampered by a lack of dialogue between
'above' and 'below', which limits their ability to change priorities or identity.<sup>33</sup>

What has been lacking from previous studies is an expanded set of interviews so as to cover more industrial sectors and trade unions in addition to adding a clear geographical component. In this article, I address these aspects with regards to Swedish trade unions and industrial transition policies, focusing on how they play out in the industrial towns of Luleå, Lysekil and Slite with respect to trade unions at the central level.

## 155 The Swedish trade unions and industrial transitions

Present-day concern with justice dilemmas and industrial transitions date back to the structural crises of the 1970s. The OPEC oil embargos and collapse of the Bretton Woods system led to uncertain currency conditions for small western countries like Sweden. New industrial countries also competed against Swedish shipbuilding, steelmaking and mining, forcing companies to transition, either by offshoring production, move into new sectors, or reskill and specialise the workforce.<sup>34</sup>

In a larger sense, the crises of the 1970s corresponded with growing scepticism against the primacy of politics over that of capital, along with an increasing social instability in Western democracies. With regards to labour, this insecurity can be described in terms of accelerated economic inequality, diminishing social security, and erosion in the dignity of labour. Industrial transitions subsequently weakened labour-capital relationships in which labour unions had enjoyed strong bargaining power. One illustrative example is the increase in confrontations against the trade unions, most notably the union busting in the UK and the US, but also through rising tensions within the unions themselves, for example on the issue of differing priorities at central and local level.<sup>35</sup>

<sup>&</sup>lt;sup>33</sup> V. Vogl et al., "<u>A just transition towards a coal-free steel industry: perspectives from labour</u>," Conference paper Nordic Environmental Social Science conference, 11–12 June 2019, Luleå; R. Lundström et al., "Disconnected spaces: introducing environmental perspectives into the trade union agenda top-down and bottom-up," Environmental Sociology 1, no. 3 (2015): 166–176. <u>https://doi.org/10.1080/23251042.2015.1041212</u>; see also R. Lundström, "Going Green—Turning Labor: A Qualitative Analysis of the Approaches of Union Officials Working with Environmental Issues in Sweden and the United Kingdom," Labor Studies Journal 42, no. 3 (2017): 180–199. Doi:10.1177/0160449x17704054

<sup>&</sup>lt;sup>34</sup> L. Erixon, "The Rehn-Meidner Model in Sweden: Its Rise, Challenges and Survival," *Journal of Economic Issues*, Vol. XLIV, no. 3 (September 2010).

<sup>&</sup>lt;sup>35</sup> S. Berman, *The Primacy of Politics* (Cambridge University Press, 2006); J. Cruddas, *The Dignity of Labour* (Polity Press, 2021); J. D. Ostry, P. Loungani & A. Berg, *Confronting Inequality – How Societies Can Choose Inclusive Growth* (New York: Columbia University Press, 2019); D. Goodhart, *Head, Hand, Heart: Why Intelligence is Over-Rewarded, Manual Workers Matter, and Caregivers Deserve More Respect.* Free Press, 2020. See also Stephen McBridge, "The Comparative Politics of Unemployment: Swedish and British Responses to Economic Crisis." *Comparative Politics*, Vol 20, No. 3 (1988): 303–323.

In Sweden, these crises and subsequent industrial transitions marked the end of uninterrupted Social Democratic rule and a renegotiation of the Swedish model of labour-capital cooperation. Articulated as the Rehn-Meidner Model, the government from 1950s until late 1980s pursued active labour market policies predicated on independent yet cooperative central wage bargaining between trade unions and management. To maintain solidaristic wages and full employment nationally, the Swedish Trade Union Confederation (LO) agreed to relocate workers to new areas of the economy, often concentrating production to more densely populated areas of the country, whereas companies agreed to remain technically innovative.<sup>36</sup> As part of pursuing these policies, LO pushed for consolidating smaller trade unions into larger sector-wide unions, which increased the degree of organization at local level but decreased regional influence with regards to the central level, subsequently strengthening LO's control over the labour movement as a whole.<sup>37</sup> Internal tensions surfaced from 1983 onwards after the Metal Workers' Union (IF Metall) agreed to initiatives by the Swedish Employers Association to discard central wage agreements in favour of industry-specific bargaining.<sup>38</sup> 

During the 1990s and well into the 2000s, industry-specific and local agreements between companies and local trade unions prevented wage solidarity. In fact, the Swedish wage system was during this period less centralised than in Finland, Germany and Italy – that is, countries with comparatively lower union membership than Sweden.<sup>39</sup> Rather than viewing globalisation, EU membership or changes in technology as sole determinants of labour policies, changes can be traced to new economic thinking of triumphalist liberalism, or simply neoliberalism,40 that governments of all stripes adhered to. In Sweden, it was partly an ideological preference to limit state interventionism and active labour policies.<sup>41</sup>

<sup>&</sup>lt;sup>36</sup> A. Bruhn et al., "A New World of Work Challenging Swedish Unions," in A. Sandberg (ed.), Nordic Lights. Work, Management and Welfare in Scandinavia (Stockholm: SNS Förlag, 2013). R. Gumbrell-McCormick & R. Hyman, Trade unions in Western Europe: Hard times, hard choices (Oxford University Press, 2013). For details on the Rehn-Meidner model, see B. Silverman, "The Rise and Fall of the Swedish Model: Interview with Rudolf Meidner," Challenge 41, no. 1 (1998): 23-24.

<sup>&</sup>lt;sup>37</sup> K. Åmark, Solidaritetens gränser (Atlas, 1998). R. Molin. Organisationen inom facket. Organisationsutvecklingen inom de till Landsorganisationen anslutna förbundet [Organisation of the unions. Organisational development within the Swedish Trade Union Confederation's unions] (Carlssons, 1991).

<sup>&</sup>lt;sup>38</sup> P. Swenson & J. Pontusson, "The Swedish Employer Offensive against Centralized Wage Bargaining," in Unions, Employers, and Central Banks, edited by Torben Iversen, Jonus Pontusson & David Soslice (Cambridge: Cambridge University Press, 2000).

<sup>&</sup>lt;sup>39</sup> S. Nickell, L. Nunziata & Wolfgang Ochel, "Unemployment in the OECD since the 1960s: What Do We Know?" The Economic Journal 115, no. 1 (2005): 1-27. See also Erixon (2010).

<sup>&</sup>lt;sup>40</sup> Y. Mounk, "The End of History Revisited," Journal of Democracy 31, no. 1 (2020): 22-35.

<sup>&</sup>lt;sup>41</sup> On the importance of new political and economic ideas in Sweden during the 1970s, see R. Westerberg, Socialists at the Gates: Swedish Business and the Defense of Free Enterprise, 1940-1985. Dissertation (Stockholm School of Economics, 2020).

For Swedish municipalities, these changes meant growing competition between neighbouring municipalities and regions in an attempt to attract companies and job opportunities. Subsequent industrial transitions were increasingly led by multinational enterprises, owned by foreign investment capital, and subject to concerns beyond the region in which they operated.<sup>42</sup> And as absolute numbers of blue-collar jobs decreased, LO was further weakened as central bargaining union relative to white-collar unions. This being said, it is important to note that intricate collaborations between labour unions, companies and politicians have remained strong at the local level of industrial towns in Sweden.<sup>43</sup> 

During the 2010s, however, after growing political disillusionment with neoliberalism's ability to tackle climate change, there is resurgent interest among Western governments, including Sweden, for interventions and state-led industry transitions.<sup>44</sup> 

So to sum up thus far, Swedish industrial transitions take place against the backdrop of a rising and partially falling central wage bargaining that gave way to local agreements, for example cooperation between trade unions and company management in industrial towns. So while backdrop of political upheaval in which trade unions and climate organisations at the international level promote 'just transition' in an attempt to find common ground. But while the Swedish union ambition currently align with those of the Swedish Government's Climate Policy Frameworks, and collaborate with climate organisations internationally on 'just transition' initiatives,<sup>45</sup> to understand the justice dilemmas of Sweden's industrial transition requires that we explore the contradictions, tensions, and trade-offs that emerge within the trade unions. 

#### Swedish industrial towns as sites for transitions

Until recently, studies on just transition have primarily been conducted by sectoral organisations themselves, representing either the company management or the trade unions.<sup>46</sup>

<sup>&</sup>lt;sup>42</sup> SweGov, En gemensam angelägenhet [a common concern] (SOU 2020:46); P. Tidholm, Läget i landet (Teg Publishing, 2017); J. Syssner, Politik för kommuner som krymper (CKS, 2014); cf. A. Lindbeck et al., Turning Sweden Around (MIT Press, 1994).

<sup>&</sup>lt;sup>43</sup> On sustained relevance of labour-capital cooperations in Sweden, see J. Palm, *There is power in a union: Trade* union organization, union membership and union activity in Sweden. Dissertation (Stockholm University, 2017). <sup>44</sup> K. Borgnäs, Ingen tid för illusioner – en reseguide [No time for illusions – a travelling guide] (Bokförlaget Atlas, 2021); Y. Tamir, Why Nationalism (Princeton University Press, 2019); M. Mazzucato, The Entrepreneurial State: Debunking Public vs. Private Sector Myths (Anthem Press, 2014).

<sup>&</sup>lt;sup>45</sup> B. Rolfer, *Klimatet och jobben: Fackliga perspektiv för en rättvis omställning* [The climate and the jobs] (Arena idé, 2020); I. Andersen, "Just transition handlar om rättvis omställning," Arbetet, 22 Nov 2020; IF Metall, "Klimatomställningen kräver aktivt fack," Info för förtroendevalda i IF Metall, no. 5 (June, 2021); Global utmaning, Folkbildning om klimatomställningen (Global utmaning, 2022).

<sup>&</sup>lt;sup>46</sup> H: Berglund, *Industrins omställning – möjligheter och utmaningar* (IF Metall, 2020); The International Labour Organization, "Green growth, Just Transition (2018)". For excellent studies by trade unions on industrial transitions of the 1970s, but which also exclusively analyse events from the perspective of unions themselves, see

One concern with this approach is how analysis tend to treat crises as caused by factors external to the unions and management, rather than as a result of unresolved tensions within these organisations. There is therefore a need for studies whose main concern are not those of the industry, or that of a particular union, but instead addresses a just transition from the perspective of workers as inhabitants of a particular place where the transitioning industries are located. 

I focus here on the Swedish towns of Luleå, Lysekil and Slite, seeing as these are home to carbon-intensive industries foundational to modern societies: steelmaking in the north (Luleå), oil refining on the west coast (Lysekil), and cement production on the Baltic island of Gotland (Slite), southeast of mainland Sweden. These three industries produce one third of Sweden's industrial carbon emissions, which in turn account for one third of Sweden's total annual emissions. Each of these industrial towns have ongoing initiatives for transitioning, for example by producing steel with hydrogen from fossil-free energy, replacing petroleum with biomass, or through capturing and storing carbon.<sup>47</sup> While differing in size, industry, and geographical location, the three share a longer legacy as port towns. Their industries developed as part of Social Democratic political projects to safeguard welfare, employment, and dignity of the inhabitant workforce, and were also subject to subsequent neoliberal politics and industrial transitions, including privatisation of the industrial companies dominating these sites. 

Luleå grew from late 1800s until 1900s into the Swedish "City of Steel" and has been the industrial centre for SSAB,48 a currently publicly traded company where both the Swedish and Finnish state owns substantial shares. SSAB provides approximately 1,200 direct jobs in a region of 70,000 inhabitants. Since the 1970s' structural crisis, SSAB specialised its steel production, increased automation, eventually privatised and became a multinational company with facilities in Sweden, Finland, and the US.49 The Swedish Government has continued to support Lulea's regional development, notably by establishing Luleå Technical University and using co-financing from the EU for innovation projects.<sup>50</sup> One means of understanding initiatives such as Hybrit -the joint project between SSAB, and the state-owned companies LKAB and Vattenfall to create carbon-free iron and steel - is as a continuation of a longer history of the state, industry, and academic institutions working in close collaboration with each other. 

A. Martin, "Trade Unions in Sweden: Strategic Responses to Change and Crisis," Unions and Economic Crisis: Britain, Germany and Sweden, edited by Peter Gourevitch et al (Boston and London: Allen & Unwin, 1984).

<sup>&</sup>lt;sup>47</sup> SSAB, About SSAB (2021); Preem, About Preem (2021); Cementa, Om oss [About us](2021).

<sup>&</sup>lt;sup>48</sup> R. Viklund & C. Persson, Luleå – De första 400 åren: Volym 1 (Luleå Technical University, 2021); C. Persson & R. Viklund, Luleå – De första 400 åren: Volvm 2 (Luleå Technical University, 2021).

<sup>&</sup>lt;sup>49</sup> Cf. SVT, "SSAB köper upp konkurrent [SSAB acquires competitor]," January 23, 2014.

<sup>&</sup>lt;sup>50</sup> Viklund & Persson, Luleå – De första 400 åren: Volvm 1 (2021); Persson & Viklund, Luleå – De första 400 åren: Volym 2 (2021).

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Turning now to Lysekil, this fishery town and seaside resort is home to Preemraff, which provides 600–1,000 local jobs to a municipality of 15,000 inhabitants. Lysekil has transitioned through a number of manufactures – granite masonry, fishery, tin canning, and ship motor assembling<sup>51</sup> – before becoming a centre for Swedish petrochemical industry. To secure energy sovereignty, the Swedish Government in late 1960s spearheaded plans for an oil refinery and repository – Scanraff – despite protests from a broad alliance consisting of seasonal residents, environmental organisations, and even governmental authorities.<sup>52</sup> The refinery also served to transition the Swedish shipbuilding workforce who were reskilled in this new industry,<sup>53</sup> while the Government exported the technical skills of building oil repositories abroad.<sup>54</sup> From 1990s onwards, the refinery privatised and rebranded itself as 'Preemraff' – occupying a market niche of "environmentally-friendly," i.e. less locally-pollutant, fuels. Over time the company has expanded operations to other cities and countries. Between 2017–2020, Preemraff's plan to expand the refinery became the target of environmental debates, demonstrations, and a blockade by Greenpeace's ship Rainbow Warrior. Preem eventually cancelled the expansion, citing lacking profitability, while also declaring to increase its work on biofuels and Carbon Capture and Storage (CCS) technologies. 

Slite is the smallest of the three industrial towns included in this study, but the one most marked by its industry. Out of 1,800 inhabitants, 200–400 work in some capacity for the cement producer Cementa. The company's extensive chalk mining in the surrounding landscape date back to 1871. By late 1990s, after a long period of growth and state ownership, Cementa privatised and is at present part of the German HeidelbergCementGroup. Recently, Cementa have consolidated its operations to Slite as part of plans to invest in and adapt remaining factories to CCS-technologies.<sup>55</sup> Growing tourism, a seasonal population, and environmental concerns with water supplies have since early 2000s hampered Cementa's expansion of chalk 

<sup>&</sup>lt;sup>51</sup> J. Apelman, *AB Boviks konservfabrik i Lysekil:miljöskapare i Norra Hamnen*. Dissertation (Göteborgs univ. 2004); K. Hansson, *Lysekil: Skepparsamhället som blev industristad* (1983); F. Lüsch, *Lysekils historia* (1950).

<sup>&</sup>lt;sup>52</sup> N. Wallström, "Turerna kring etableringen av Scanraff," *Bohuslän*, edited by Bohusläns Gille (2006); cf. Statens planverks skriftserie, "Ärendet Brofjorden," *Aktuellt*, nr 6 (1970); P. Ahlmark, *Sveket mot kusterna: om supertankers, oljeskydd, Östersjön, Brofjorden och riksplanering* (Bonniers, 1971); R. Svensson, *Fallet Brofjorden – regering på osäkert vatten : hur samhällsplanering fungerar i verkligheten* (Wahlström & Widstrand, 1971).

<sup>&</sup>lt;sup>53</sup> T. W. Fredh, *Historien om etableringen av ett raffinaderi: Spelet kring tillkomsten av Scanraff* (Stångenäs hembygdsförening, 2015).

<sup>&</sup>lt;sup>54</sup> Fredh, (2015); C. J. Åberg, Berättelsen från 1900-talet (Atlantis, 2006), pp. 271–286.

<sup>&</sup>lt;sup>55</sup> A. Houltz, *Cement i 150 år* [Cement in 150 years] (Centre for Business History, 2021); cf. M. Dahlström, *Konkurrens, samarbete och koncentration. Kalkstens- och cementindustrin i Sverige 1871–1982* [Competition, collaboration and concentration. Chalkstone- and cement industry in Sweden, 1871–1982]. Dissertation (Gothenburg University, 2015); O. Volden, *Historik över gotländska cementfabriker med tonvikt på Slitefabriken*. Slite Industrimuseum, 2014.

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mining,<sup>56</sup> with its license to operate set to terminate by July 2022.<sup>57</sup> In addition, growing
geopolitical tensions around the Russian-European gas line Northstream 2 have hindered Slite
from developing other industrial businesses that could provide alternative employment to
Cementa.<sup>58</sup>

Industrial towns like Luleå, Lysekil and Slite can be meaningfully described as "frontline communities" of the industrial decarbonisation transition.<sup>59</sup> Here you find places and peoples who are historically entangled in carbon-intensive production. Seeing as these industries dominate both the economy and culture of the region, it is here that transition politics will be felt first.<sup>60</sup> What makes the Swedish industrial town different from its European equivalents is a higher degree of trust between trade unions and company management, higher levels of automation and skill training in the workforce, in addition to a comparatively high degree of renewables in the energy mix to power a transition towards fossil-free production.<sup>61</sup>

The trend in Europe since 1990s has been towards decreasing trade union membership. Sweden's level of union membership at around 70% of the workforce is high compared also to other Nordic countries, being around 50-60% of all employees. For other European countries, union membership varies from everything between 5-50% of the workforce.<sup>62</sup> With regards to Swedish industrial towns, the trade unions organise more than 90% of the workers.<sup>63</sup> In Luleå, Lysekil, and Slite, there is at present time nearly full union membership among industrial employees. 

<sup>&</sup>lt;sup>56</sup> K. Edberg, *Energilandskap i förändring: Inramningar av kontroversiella lokaliseringar på norra Gotland.* Dissertation (Södertörns högskola, 2018).

<sup>&</sup>lt;sup>57</sup> SweGov, "Pressmeddelande: Miljödepartementet remitterar förslag om regeringsprövning av kalkstenstäkter i undantagsfall." Ministry of Environment, 30 Aug, 2021; Mark- och miljööverdomstolen. Pressmeddelande: Domstolen avvisar Cementas ansökan om täkttillstånd vid Slite på Gotland. Mål: M 1579-20. https://www.domstol.se/nyheter/2021/07/domstolen-avvisar-cementas-ansokan-om-takttillstand-vid-slite-pagotland/

<sup>&</sup>lt;sup>58</sup> DN, "Gotland är ingen rysk flottbas," 2016-12-13. https://www.dn.se/ledare/signerat/erik-helmerson-gotlandar-ingen-rysk-flottbas/; DN, "Sverige höjer militära beredskapen," 2021-08-25. https://www.dn.se/sverige/sverige-hojer-militara-beredskapen/

<sup>&</sup>lt;sup>59</sup> For an overview, see D. Stevis, E.Morena & D. Krause, "Introduction: The genealogy and contemporary politics of just transitions," in *Just Transitions*, eds. Edouard Morena, Dunja Krause & Dimitris Stevis (Pluto Press, 2020), 2– 11, 20–21. For the similar term "host communities", see H. Della Bosca and J. Gillespie, "The coal story: Generational coal mining communities and strategies of T energy transition in Australia," *Energy Policy* 120 (2018): 734–740. <sup>60</sup> Cf. Morena et al. (2020).

<sup>&</sup>lt;sup>61</sup> A. Atteridge & C. Strambo, *Making a Reality out of "Just Transitions": Lessons from Historical Cases of Deindustrialization* (Stockholm Environment Institute, Stockholm, 2020); R. Hildingsson et al. "The green state and industrial decarbonisation," *Environmental Politics* 28, no. 5 (2019):909–928; World Bank, "Managing Coal Mine Closure. Achieving a Just Transition for All" (World Bank Group, 2018); ITUC, *Just Transition - Where Are We Now and What's next* (ITUC Climate Justice Frontline Briefing, 2017).

<sup>&</sup>lt;sup>62</sup> Swedish union membership have increased somewhat since 2021, which may be an effect of the pandemic. For further details, see A. Kjellberg. *Den svenska modellen i en föränderlig värld* (The Swedish model in a changing world] (Arena Idé, Stockholm, februari 2022); K. Vandaele, *Bleak prospects: mapping trade union membership in Europe since 2000* (Bryssel: ETUI, 2019.

<sup>&</sup>lt;sup>63</sup> M. Larsson, *Facklig anslutning år 2020: Facklig anslutning, fackligt aktiva och fackliga möten bland anställda efter klass och kön år 1990–2020* (LO, Enheten för avtalsfrågor, 2020).

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Apart from membership, a significant change is visible in how neoliberal economic policies have curtailed trade union power at central level in relation to employer organisations while local union member allegiances are shifting from social democratic towards culturally conservative and right-wing populist parties.<sup>64</sup> In sum, trade unions in industrial towns still represent the vast majority of the industrial workforce, but unions are themselves subject to a process of renegotiated organisational and political allegiances at the local level. 

#### Methods – Sources and Delimitations

As part of understanding what constitutes a just transition for the Swedish workforce, I first approached all local trade unions in Luleå, Lysekil and Slite with a general request for interviews, provided questions beforehand, along with information about the research and how data would be used. The local unions themselves then assigned an interviewee to represent the views of its local union members. This procedure was repeated also with the same Swedish trade unions at the central level who then assigned spokespersons for the trade union's national policy.

Out of the local unions IF Metall (blue collar workers), Unionen (white collar workers and administrators), Sveriges ingenjörer (engineers and specialized personnel), and Ledarna (management), IF Metall is the largest union at all the three sites. Following the pattern of other Western European countries, Swedish white-collar unions have grown in national importance, currently organising more members than the blue-collar dominated the Swedish Trade Union Confederation (LO).65 But with regards to transition policies, it is still LO - and its global counterpart, the International Trade Union Confederation (ITUC) - that represent Swedish wage-earners internationally. 

The study comprised 18 semi-structured interviews (Table 1), conducted during the period October 2020 - April 2021. The interviews lasted for 60-90 minutes so as to give time to discuss personal, practical, and political issues of working in transitioning industries. Interviews were recorded and transcribed, with interviewees signing a consent form for how this data would be

<sup>&</sup>lt;sup>64</sup> K. Vandaele, Bleak prospects: mapping trade union membership in Europe since 2000 (Bryssel: ETUI, 2019); For Swedish examples, see A. Danielsson Öberg & T. Öberg, Facklig höst i Europa: Tuffa utmaningar från höger och färre medlemmar (Arena Idé, 2020). J. Palm & J. Rydgren, "Ojämlikhet och radikala högerpartier," Underlagsrapport till LOs jämlikhetsutredning. LO, 2018.

<sup>&</sup>lt;sup>65</sup> For example, in the most recent negotiation between unions and business organisations for terms and salaries, discussions were had directly with Unionen, since these had surpassed LO in terms of union members. In addition, IF Metall pursued independent negotiations rather than keeping with demands set out by LO centrally. See M. M. Nilsson, "Trots LO-nej – IF Metall kan ställa sig bakom nytt las-avtal," Arbetet, 22 Oct 2020. https://arbetet.se/2020/10/22/trots-lo-nej-if-metall-kan-stalla-sig-bakom-nytt-las-avtal/ ; S. Lund, "Unionen fortsatt största fackförbund - Kommunal tappar," Arbetet, 10 Jan 2020. https://arbetet.se/2020/01/10/unionenfortsatt-storsta-fackforbund-kommunal-tappar/.

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314 used.<sup>66</sup> Due to pandemic restrictions on organising meetings, most interviews were conducted
315 digitally using Microsoft Teams and Zoom.

A difference between the local and national sets of interviewees is that local union representatives described how they at times would stand in for each other at meetings with company management, i.e. one representative speaking on behalf of all the unions as a collective. In part, this was due to practical reasons – some unions had more resources for representation than others – but it also signalled a political understanding that local unions had similar *local* interests.

So what are the source material's delimitations, i.e. the representativity of these interviewees? While workplaces like SSAB, Preemraff and Cementa have nearly total union membership,67 and as such can be said to represent the workforce as a whole, the representatives themselves are likely more positive towards transition policies than the average worker. While over 60% of members in the Swedish Trade Union Confederation (Landsorganisationen i Sverige, LO) support other parties than the current Social Democratic Government, local representatives are required not to be active members of the Sweden Democrats – a party challenging the Social Democrats.<sup>68</sup> This means that the interviewees made available to me were elected and operated within an organisation structurally sympathetic to the Swedish Government's official transition policies. 

Furthermore, while I have not focused on individual characteristics of union representatives, there are some aggregated similarities that could be relevant for delimitations in the representativity of the interviewees: all local representatives were male, had worked at the company for decades, and had been involved in the union for several years. Most began as members of IF Metall before moving on to other positions and thereby changing union affiliation. This mirrors a larger transformation of the Swedish industrial workforce over time. In the case of IF Metall and Unionen, these representatives worked nearly full-time with union representation, but also expressed a wish to stay close to the worksite itself rather than advance to central union positions. The engineers were younger than representatives of other unions and had often moved to the industrial town as part of taking up work there. The general pattern, however, was for union representatives, like the workforce in general, to have lived at the site for at least a generation, with other family members also working in the industry. 

<sup>&</sup>lt;sup>66</sup> For more on planning and conducting semi-structured interviews, see J. L. Martin, *Thinking through methods: a social science primer* (Chicago: University of Chicago Press, 2017), 67–98.

<sup>&</sup>lt;sup>67</sup> Email correspondence with IF Metall, SSAB, Luleå; Email correspondence with IF Metall, Preemraff, Lysekil; Email correspondence with IF Metall, Cementa, Slite.

<sup>&</sup>lt;sup>68</sup> See for example O. Bergvall, "<u>LO satsar 30 miljoner på att S ska vinna valet</u>," Dagens Arena, 26 January 2022; Socialdemokraterna, <u>Underlagsrapport från partiets arbetsgrupp för fördelningspolitik för jämlikhet och rättvisa</u>, May 2021; S. Markusson, "<u>Facken ändrar inte stadgar efter dom mot Transport</u>," *Arbetsvärlden*, 18 March 2021; A. Holmqvist, "<u>Tillträdande LO-basen: Beklagligt att så många röstar på SD</u>," *Aftonbladet* 20 May, 2020.

### Manuscripts submitted to Oxford Open Climate Change

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The spokespersons for the unions at central level all worked specifically with climate- and energy policies. They also had upbringings from metropolitan areas and currently resided in Stockholm. Their education and training were primarily as academic policy-professionals, having investigatory roles either within the unions, or with political organisations and think tanks, for most if not all of their careers. Their current work focused on how to address and formulate what a just transition means for their union members.

Actor	Vocation and location	Date
SSAB IF Metall	Local union rep., Blue-collar workers, Luleå	2020
SSAB Ledarna	Local union rep., Managers, Luleå	2021
SSAB Sv. Ing.	Local union rep., Engineers, Luleå	2021
SSAB Unionen	Local union rep., White-collar workers, Luleå	2020
Preemraff IF Metall	Local union rep., Blue-collar workers, Lysekil	2020
Preemraff Ledarna	Local union rep., Managers, Lysekil	2020
Preemraff Sv. Ing.	Local union rep., Engineers, Lysekil	2020
Preemraff Unionen	Local union rep., White-collar workers, Lysekil	2021
Cementa IF Metall	Local union rep., Blue-collar workers, Slite	2021
Cementa Ledarna	Local union rep., Managers, Slite	2021
Cementa Sv. Ing.	Local union rep., Engineers, Slite	2020
Cementa Unionen	Local union rep., White-collar workers, Slite	2020
IF Metall	Central union rep., Blue-collar workers, Stockholm	2021
Ledarna	Central union rep., Managers, Stockholm	2021
Sv. Ing.	Central union rep., Engineers, Stockholm	2021
Unionen	Central union rep., White-collar workers, Stockholm	2021
LO	Central union rep., Swedish labour movement, Stockholm	2021
ITUC	Central union rep., Int. labour movement, Stockholm	2021

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38	351
39	352

> Given the personal background of local and central union interviewees, it is possible that my material illustrates differences not only in organisation perspectives but also in personal experiences, i.e. how long the interviewee has worked in the sector. Furthermore, with regards to the central level, the data may also be biased towards the specific interests of the department working on transition policies in particular, or climate- and environmental concerns in general, thus exaggerating their importance with regard to other national policy concerns of the trade union.

The interview addressed both mundane everyday tasks, as well as more encompassing and speculative aspects, of climate transitions. The questions posed were, for example, "How would you describe the industry you work in, the work that you do, and the place you live in?", "What is the role of the union? What are its priorities? How would you describe the relationship between the union locally and centrally? What is the relationship with regards to other local unions? What is the relationship between the union and the company?", "How do you interpret 'just transition'? 

2		
3 4	365	What does it mean for you?" "What is the role of politics? Do you foresee any changes with regards
5	366	to how municipal or national politics deal with issues concerning transition?", and "What can or
6 7	367	should be done politically to promote a just transition?".69
8 9	368	If interviewees were unfamiliar with the term 'just transition', I asked instead what 'transition'
10	369	(omställning) means at their workplace, followed by what would make a transition 'just' (rättvis).
11 12	370	As part of discussing central aspects in the responses, I organised these thematically under four
13 14	371	sections, focusing on:
15 16	372	• Interpretations of the term 'just transition'
17 18	373	• Significance of the specific place and/or industry
19	374	• Relationship between company and union
20 21	375	• Role of politics
22 23	376	
24 25	377	Below, in four result-sections, I begin with subheadings and quotes illustrating key differences in
26	378	views by local and central representatives. After a brief summary of these, I analyse the differences
27 28	379	in relation to transition scholarship. To the extent that interviews are cited, their names are coded
29 30	380	using the place name and a number, e.g., Lysekil 3, Luleå 1, Slite 4. <sup>70</sup>
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32 33	381	Results
33 34 35 36	381 382	Results Just a transition or A just transition?
33 34 35 36 37 38	382 383	<b>Just a transition or A just transition?</b> It is the implementation or interpretation of this [climate] law that is hard, since there exists those
33 34 35 36 37 38 39	382 383 384	<i>Just a transition or A just transition?</i> It is the implementation or interpretation of this [climate] law that is hard, since there exists those that make, well, in my opinion, very strange interpretations of it all. "We have to stop <i>everything</i>
33 34 35 36 37 38 39 40 41	382 383	<i>Just a transition or A just transition?</i> It is the implementation or interpretation of this [climate] law that is hard, since there exists those that make, well, in my opinion, very strange interpretations of it all. "We have to stop <i>everything</i> [they say]". We do not have stop <i>anything</i> . We have to make things in smarter ways – Local union
33 34 35 36 37 38 39 40 41 42	382 383 384 385 386	<b>Just a transition or A just transition?</b> It is the implementation or interpretation of this [climate] law that is hard, since there exists those that make, well, in my opinion, very strange interpretations of it all. "We have to stop <i>everything</i> [they say]". We do not have stop <i>anything</i> . We have to make things in smarter ways – Local union rep. <sup>71</sup>
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climate 'transition' to primarily be a means to an end, to maintain status quo for its members. The term itself "is not a hot topic in the fika room,"<sup>73</sup> in reference to the site for luncheon or coffee breaks that is also the natural forum for workers to discuss everyday union politics. Instead, conversations around transition initiatives draw upon more general concepts, like 'development' of the industry, 'reskilling' for workers, and 'improvements' in equipment. Transitioning to fossil-free steel, biofuels, or carbon-captured cement is meaningful only if it benefits the company's international competitiveness, which in turn enables improvements for the local workforce in the form of sustaining jobs or increasing salaries.

Secondly, when asked what makes transition policies 'just', local representatives believe these have to recognise - and honour - Swedish historical contributions to present-day environmental regulations. For example, SSAB representatives helps showcase Hybrit and spread knowledge about how to recycle and decarbonise steel. Cementa have a long history of educating foreign staff in making cement production cleaner and more energy efficient. Preemraff pioneered lead-free fuels, influenced regulations to reduce sulphur, and is currently lobbying for more efficient refineries. As one representative at Preemraff puts it, "we are the *real* environmental movement,"74 in reference to the Swedish industrial model of being the best – not biggest – and thereby push competitors towards becoming greener. One means of recognising historical and contemporary environmental contributions by the industry, according to local representatives from all three towns, is to give industries more influence when interpreting Sweden's national climate policy frameworks. Another aspect of recognition, particularly salient in responses from Lysekil, is for the transition debate to refrain from blunt dichotomies. At present, media discourses portray old, male, industrial worker - concerned only about their jobs - as facing off against a younger generation of predominantly female, urban, activists. This point about media discourses became acute during autumn 2020 when Preemraff and Lysekil for a time became the centre of international climate protests, peaking with Greenpeace's ship Rainbow Warrior blocking the sea passage into the refinery's harbour. 

Thirdly, local representatives from all three towns describe the present climate transition as primarily being an issue of time. An abrupt or hasty transition risk leaving too few resources for Swedish industries when reskilling the workforce, rebuilding facilities, or even adapting to new environmental regulations. Given that energy production and transmission have to meet rapidly increasing energy demands, too tight transition schedules leave industries fighting over similar resources. Subsequently, none of the local representatives in Luleå, Lysekil or Slite believe their

<sup>74</sup> Interview with Lysekil 1.

<sup>&</sup>lt;sup>73</sup> Interview with Luleå 3, Luleå 4 and Slite 1.

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industries are decarbonised by 2045 – the target year set by the Swedish Government for reaching a fossil free society. Correspondingly, they consider it unfair to stop local or national production if it means using dirtier products from abroad. Decreasing Swedish industrial production and employment, to instead import those goods, means that Sweden accrues a "foreign climate debt". While dependence on such foreign climate debts may help re-elect "environmental populists", as one local representative referred to the Green Party, they neither help Swedish workers nor the global industrial decarbonisation. 

Union representatives at central level, by contrast, are familiar with the terminology of 'just transition.' They can trace its rising significance during the past several years and describe how the term will guide subsequent initiatives. One reason for picking up the vocabulary is growing media interest in industrial transitions, which unions at the central level feel susceptible to. 

Central union representatives see a need for the unions to transform into an environmental organisation in order for the workforce to transition to a fossil-free production. There are at present numerous educational programs for Swedish union representatives that seek to foster a 'climate identity' among trade unions. Central representatives see closer coordination as a means for achieving more environmental awareness, in addition to central unions supporting the local initiatives currently being formed. 

Importantly, central union representatives believe it is possible to achieve a just industrial transition to net-zero emissions by the year 2045. They put faith in Swedish industry as a whole rather than in specific industries, regions, or places. Some workers will simply have to relocate as part of reskilling, rebuilding, or replacing older workforces and facilities with newer ones. 

If we juxtapose responses from local and central unions, we are presented with a key difference in their interpretation of 'just transition'. Local Swedish unions see themselves as being proactive in bringing about historical environmental demands for industry internationally. However, they are reactive with regards to the present-day challenge of reducing industrial carbon emissions. Central unions were more actively engaged in initiating and implementing industrial decarbonization strategies, but had developed this priority in reaction to discourse from other policy-professionals rather than from different segments of their trade union.

Importantly, trade unions made differing interpretations of how to recognise climate transition efforts. Local representatives believed they - as industrial producers - should be recognised as a form of environmental movement that had proactively stimulated environmental regulations and the development of greener production processes. By contrast, central representatives believed that environmental demands were primarily formulated by consumers, with trade unions adapting to these. This amounts to a tension between how local and central representatives viewed recognition 

justice, as Ciplet and Harrison (2020) labels it. Subsequently, local and central representatives differed in their assessments of the time that a just transition would take. Local unions questioned that their industrial town would reach the Swedish Government's net-zero emissions goal by the year 2045. These arguments have been developed by the Swedish refinery industry since before, <sup>75</sup> and were now being promoted also by local trade unions in all three towns. By contrast, the trade unions at central level believed in the Government's time plan but had no specific town in mind for this transition. One hope from representatives at central level was that trade unions would develop a "climate identity", which has been pointed out by a number of previous studies. These suggest that a lack of dialogue between the central and local levels of unions is the main obstacle against the development of climate identities. <sup>76</sup> The case here, however, seem to be the scale of *concern* - i.e. concern for Luleå, Lysekil and Slite - not the scale of *communication*. For example, local unions identify with time schedules of the industry, i.e. innovation cycles for developing steel-, fuel- and cement facilities, rather than with time schedules for climate transitions agreed upon by trade unions at international meetings, which is what central union representatives referred to as "climate 

472 identity".473 Tensions in how the trade unions view climate identity and transition time raises further

questions about the places envisaged as undergoing climate transitions, which is the theme we turn
to next.

## *Emplacing industry – local attachments and national concerns*

This is *my* company. I love this place. I consider myself having more say over it than the people who currently happen to own it. I work and live here. Mine is the larger interest here. – Local union rep.<sup>77</sup>

Ofcourse there are...regional effects for different types of policies and measures...We know, for instances, that access to fossil-free energy matters when industries choose where to locate themselves...but it is not something that we as an organisation have too many concerns or opinions about – Central union rep.<sup>78</sup>

<sup>&</sup>lt;sup>75</sup> In particular with regards to people working with Swedish biorefineries, see F. Bauera, "Narratives of biorefinery innovation for the bioeconomy: Conflict, consensus or confusion?" *Environmental Innovation and Societal Transitions* 28 (2018): 96–107.

<sup>&</sup>lt;sup>76</sup> See for example Vogl et al (2019), Della Bosca & Gillespie (2018) and Lundström et al (2015).

<sup>&</sup>lt;sup>77</sup> Original in Swedish: Det här är mitt företag. Jag älskar det här stället. Jag anser att jag har större makt, alltså att det här Raffet är mer mitt än de personer som råkar äga det just nu. Jag bor och lever här. Jag har större intresse i det här. Cited from Interview with Lysekil 1.

<sup>&</sup>lt;sup>78</sup> Original in Swedish: "Självklart finns det, och jag var inne på det tidigare, regionala skillnader i olika typer av styrmedel och val av åtgärder. De får ju olika effekt, naturligtvis. Vi vet ju till exempel att tillgång till fossilfri energi spelar väldigt stor roll för var industrier väljer att placera sig. Men det är ingenting som Ledarna som organisation har haft så mycket synpunkter eller uppfattningar kring." Cited from interview with Central union rep 4.

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Local union representatives in Luleå, Lysekil and Slite respectively express pride in the place and industry where they work and live. Their pride stem from the possibilities that the place offer for recreation, including the natural environment itself, in addition to the work done by the workforce and company to decrease environmental impacts of their industry. SSAB's furnaces no longer blacken the land with soot; Preemraff use earth-like colours and has planted a forest so as to blend the refinery into the surrounding landscape; and Cementa allow recreational hiking and biking trails to flourish around its perimeters. All representatives were aware that their towns, both historically and at present, rely on strong ties between the industry and the place as a means to survive relative isolation and peripheral position with regards to Swedish industrial centres. Local companies sub-contract each other's services, establish education programmes that nurture new generations of industry workers, and sponsor community building with social activities and sports.79 Instead of relying on recruiting white-collar personnel from elsewhere, blue-collar workers are reskilled to take on white-collar jobs. Beyond the workplace, residue heat from the industrial production help power local infrastructures and housing. In sum, the company and trade unions help reuse both manpower and resources within the town and region so as to retain loyalty of the workforce, their families and communities.

There are, however, a number of challenges that hinder a local industry from decarbonising. Educational programs are not significant enough to reskill or refill the workforce since many are close to retirement. Whereas employees in the past would work fifty years in the same industry and town, that figure have by the 2020s dropped to five years, primarily as a result of people finding new positions elsewhere. Local representatives in Luleå and Slite also raised concerns that the production of renewable energy have to expand regionally, and rapidly, so as to ensure regional transition plans, which at the time appears unlikely. While only a small portion of Preemraff's production include biofuels, and there is a risk of shortages in biomass available for biofuel production, local representatives in Lysekil believe their industry products are crucial to help transition the current fuel-dependent transports towards a decarbonised society.

510 In contrast to the local unions, union representatives at central level are more concerned 511 with the decarbonization of national industries than with the viability of certain industrial 512 towns. It is climate change, not climate transitions policies, that endangers places, and not only 513 in Sweden but all over the world. In addition, central representatives argued, Swedish workers

<sup>&</sup>lt;sup>79</sup> cf. E. Vikström, *Bruksandan och modernismen. Brukssamhälle och folkhemsbygge i Bergslagen 1935–1975* (Stockholm: Nordiska museets förlag, 1998); For examples and overview of literature, see T. Persson, *Den kommunala musikskolans framväxt och turbulenta 90-tal: en studie av musikskolorna i Mörbylånga, Tranås, Kiruna och Borås.* Dissertation (Göteborgs universitet, 2001); cf. U. Hallström, "*Nu började ett märkeligt tutande på bruket*": *om bruksmusiken i Glasriket* (Stockholm: Carlsson, 1997).

are better informed about climate change and less structurally affected by transitions than European colleagues. For this reason, more emphasis should be placed on the national and European rather than on the regional setting of industrial decarbonization. To avoid accusations of favouring one group of union members over another, central union representatives are more concerned with how to increase national energy production and scaling up reskilling efforts for the workforce as a whole. 

While both local and central unions emphasised the need to develop support structures for Swedish industry, they differed in whether it was 'just' to maintain industry in a specific town. For local unions, a just transition entailed building industries that were ethical in terms of keeping local pollutions low and that blended aesthetically with the surrounding landscape. For central unions, the ethics of just transition concerned not these older *environmental* concerns but rather the new *climate* concerns. The only goal was to decrease national carbon emissions. The aesthetics of the climate transition – what a decarbonised industry looked like – played no particular role for union representatives at central level. 

We see here a differing emphasis on *place* by unions at local and central level that raises questions about the viability of the industrial town as model for organising climate transitions. Previously, trade unions promoted industries that were emplaced, since these ensured that politicians, companies, educational institutions, and infrastructures all benefitted each other and contributed towards a high-degree of employment. At present, however, unions at the central level expressed more concern for the technical side of transitioning the Swedish industrial workforce away from fossil-fuel dependence, broadly speaking, rather than for the social side that climate transition policies have on specific industrial towns throughout Sweden. Local unions, conversely, were not keen to support national climate commitments if these risked the preservation of their particular, emplaced, industry. 

To understand the implications of these differing emplaced concerns, we now turn to the relationship between trade union and company. 

### Union allegiance – Local jobs or Trade union movement?

... to do something for the other members, so that it turns out for better, so that you do not end up worse off than you currently are but instead protect and, at least, maintain status quo - Local union rep.80

... the company itself should defend its activities. And we defend our member's relationship to the

<sup>&</sup>lt;sup>80</sup> Original in Swedish: "Och det är ju att vara med i diskussioner för att påverka och för de andra medlemmarna så att det blir till det bättre, så att man inte får det sämre än vad man har det idag utan att man slår vakt om och, åtminstone, har status quo." Cited from Interview with Slite 4.

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production. We are happy to help our members have decent jobs, but decent also from a sustainability perspective. It is not about jobs *at any* price – Central union rep.<sup>81</sup>

547 In all three of the industrial towns, local unions consider it their role to help the company become 548 as competitive as possible. Competitiveness is perceived as crucial for sustaining present-day levels 549 of employment, and salaries, for union members. In return, the companies promote union 550 involvement and supports the recruitment of new representatives. In times of crisis, like during 551 the COVID pandemic, local unions help set up flexible employment arrangements for work so as 552 to alleviate layoffs of the workforce. In sum, local unions describe a relationship of co-dependence 553 between them and the company.

With regards to Sweden's fossil-free transition, local representatives are primarily concerned with securing relevant resources for the company: regional energy production, infrastructure for transports and storage, resources for reskilling workers. Unions in Luleå anticipate competing industry consortiums emerging – like Hybrit, which SSAB is a part of, or the nascent H2 Green Steel (H2GS). Both companies plan to produce fossil-free steel and do so in the same region.82 Hence, they will during the 2020s be competing for similar resources - energy, material, and manpower - over which the government is the final arbiter. Also in Lysekil and Slite, union representatives anticipated a need for the government to set up priorities in the use of available resources, i.e. dedicating Swedish biomass to biofuel production or rapidly expand energy production and transmission so as to enable use of CCS-technologies.

Local unions also serve as players for regional rivalry within the company itself. When meeting with company leadership at headquarters in Stockholm, unions can make more direct demands on behalf of their specific facility and town than can the local mid-level management staff. In this capacity, local representatives seek to promote local employment with respect to other parts of the company as a whole. Preemraff in Lysekil have long carried development costs for Preem's newer and smaller facility in Gothenburg. SSAB Luleå pushes the headquarters to make Luleå the main site for continued development of Hybrit. And Cementa in Slite do little to stave off the dismantling of Cementa's factories on Swedish Öland or in Estonian Kunda.

Another example of the close relationship between local unions and company management is how Preemraff's unions supported the now abandoned plans to expand fossil fuel production,

<sup>&</sup>lt;sup>81</sup> Original in Swedish: "...det är företaget självt som ska försvara sin verksamhet. Och vi försvara våra medlemmars relation till produktionen. Vi hjälper gärna till för att våra medlemmar ska ha schysta jobb, men också sjyssta jobb från ett hållbart perspektiv. Det är inte jobb till vilket pris som helst." Cited from Interview with Central union rep 1.

<sup>&</sup>lt;sup>82</sup> cf. H2GreenSteel. "Press Conference February 2021"; Affärsvärlden, "<u>H2 Green Steel satsar på fossilfri ståltillverkning</u>," February 23, 2021; Svenskt näringsliv, "<u>Positivt besked om yrkesutbildning</u> [Positive news on vocation training]," January 27, 2022; cf. SVT, "<u>Vi ska inte bli en konkurrent utan ett komplement till LKAB och SSAB</u> [We will not become a competitor but a complement to LKAB and SSAB]," February 23, 2021.

which upon completion would have doubled the refinery's annual carbon emissions. During 2020– 21, it was Preemraff's unions – not management – that debated against environmental organisations and the media in an attempt to defend the refinery's plans for expansion. Preemraff's unions also question why the unions at central level and LO have been unwilling to publicly defend the Swedish biofuel industry, in general, and Preemraff, in particular.

With regards to the three companies' decarbonization strategies, however, local unions see few means for influencing these, nor any need to do so. SSAB's Hybrit, Preemraff's biofuel facilities, or Cementa's CCS-facility are initiatives that unions leave for company leadership and management to develop as these see fit. Locating new facilities, or unionising the new workforce, are matters to be dealt with once the companies have made their decisions. Instead, local unions approach climate transition projects through the long-term goal of Swedish trade unions, namely, to reskill workers and thereby compete through know-how. For example, unions help companies to staff decarbonisation initiatives and their demonstration campaigns, which also serves retraining the workforce. Unions also use their political contacts to promote the company's transition projects, serving as ambassadors at external meetings and as facility guides during visits by politicians, government officials and the media. But other than this, unions primarily sought to influence climate transition projects through company board meetings, in which unions are represented and where transition initiatives are regularly discussed. 

Central union representatives, by contrast, view the relationship between unions and companies as contradictory. On the one hand, local unions have a natural loyalty towards their employer and products developed. On the other hand, the trade union movement cannot allow itself to be reduced to mouthpieces for particular company interests. "One should not forget," as a central representative stated with regards to transition initiatives, "these companies are environmental polluters, not protectors."<sup>83</sup> The solution is not to slow down the pace of Sweden's climate transition but to develop collaborations abroad, in other European member countries. The European Transition Fund, for example, can be used to foster education programs for reskilling the Swedish workforce. According to central union representatives, it is such international educational collaborations that alleviate bottlenecks when implementing new technology and that also strengthens the position of trade unions as a whole. 

Here we see that the relationship between union and company, again, illustrates *place* as a crucial tension in the Swedish discourse on just transition. Notably, local unions aligned their interests with those of the local company itself. They were willing to fight for their local facilities, even if this meant prolonging climate transition schedules. In Lysekil, for example, this commitment

<sup>&</sup>lt;sup>83</sup> Interview with Central union rep 1.

involved participating in public debates against the environmental movement, even criticising unions at central level for not providing sufficient backup, in addition to influencing politicians on behalf of the company. By contrast, central union representatives aligned with the overall environmentalist critique that industrial decarbonization was necessary and imminent. To the extent it was possible, central unions hoped to bypass and alleviate conflicts at the local level through stronger union collaborations at the European or international level. 

Another indication of how local and central unions perceived climate transitions through different geographical scales was the role they ascribed to unions influencing transition technologies. Whereas local unions expressed hope to reskill its members through participation in and support for company initiatives, central unions emphasised the need to set up joint educational programs at the European level, funded through European Just Transition Fund, so as to reskill the Swedish workforce as a whole. However, no level of the trade unions strove for union-influenced transition technology initiatives. In this regard, Swedish trade unions as a whole presume that the fossil-free transition will be company-led. This brings us to the fourth theme, the role of politics in making the transition just. 

#### Politics and Policy – National priority or European coordination?

[now]...it is carbon, carbon, carbon that we decisively work with pushing down. And that is a challenge in an industry that lives on the emission of carbon. That is our business idea, to cork up carbon from chalk. That is what we do - Local union rep.84

This type of discussion surfaces every now and then, that we should be allowed to emit more since we are comparatively better. Our steel emits less [carbon] per ton than they emit in India, thus it is better if India closes its steel industry while we keep going. I mean, that is never going to work. It is a kind of nationalistic argumentation. But I do not think it works - Central union rep.85

All union representatives describe how a reduction in carbon emissions during the last few years has become an overriding environmental demand. For SSAB, Preemraff and Cementa, companies that now have large non-Swedish owners, this means assessing which facilities should transition or dismantle. In 2019, for example, Cementa began closing down its factory at Degerhamn on Swedish Öland because it would not be compatible with CCS-technology.

Since it is climate politics and policy-making, rather than the market, that at present forces

<sup>&</sup>lt;sup>84</sup> Original in Swedish: "...det är koldioxid, koldioxid, koldioxid som vi jobbar stenhårt med att få ner. Och det är en utmaning i en industri som lever på att släppa ut koldioxid. Det är vår affärsidé, korka ut koldioxid ur kalksten, det är vad vi gör." Cited from Interview Slite 4.

<sup>&</sup>lt;sup>85</sup> Original in Swedish: "Den typen av diskussion dyker ju upp titt som tätt, att vi borde få släppa ut mer eftersom vi är ändå relativt sett bättre. Vårt stål släpper ut mindre per ton än vad det gör än om det kommer från Indien. Så därför är det bättre att Indien lägger ner sin stålindustri och vi matar på. Alltså, det kommer ju aldrig funka. Det är ju typ en sådan här nationalistisk argumentation." Cited from interview with Central union rep 5.

companies to reduce carbon emissions, local union representatives believe it is up to politicians and policy-makers to provide solutions. At present, however, union representatives could not see a clear national political consensus to would motivate industries to keep operating in Sweden. In Lysekil and Slite, this is partly experienced through a decreasing and ageing populations, the closing of stores. But the lack of political will to support industrial development is also experienced, as is the case also in Luleå, through tedious administrative processes. To the local union representatives, these are all signs that the Swedish Government lack any effective transition plan for industrial towns. That some Swedish politicians in media depict Swedish industry as climate culprits only adds insult to injury.

Local union representatives express a need for more active government policies that enables a swift expansion of energy production, transmission infrastructure, and new industrial facilities. The government should also carry the cost for Swedish decarbonisation so that Swedish industry can remain internationally competitive.<sup>86</sup> Local representatives consider this to be necessary both because Swedish industry is less polluting than competitors, but also because it serves to safeguard Sweden's national material sovereignty.<sup>87</sup> If such resources are lacking, all local union representatives agreed, the Swedish Government should secure these through the EU. Local representatives argued that such additional resources would be needed to appease discontent locals in whose backyards the industrial transition takes place.

To achieve these political goals, local unions in Luleå, Lysekil and Slite maintain close political contacts, particularly with the Social Democratic Party, both at the national and municipal level. Local union representatives sometimes move on to become politicians, like in Lysekil, and Preemraff also recruits former politicians to serve as board members or lobbyist. Taken together, local unions and company lobbyists work together to influence interpretations of Sweden's Climate Policy Framework so as to make it less costly for their particular industry to transition.

The unions at central level echo demands from local unions for more political coordination and financing, but with greater emphasis on the EU as arena for collaborations. Central unions also wish to assert their own role in government-sanctioned policy initiatives, like Fossil-Free Sweden, which so far have been hesitant towards involving trade unions in dialogues with industrial representatives. Central unions believe their mandate will grow stronger as climate policies permeate into more policy areas, in which case unions will become the spokesperson for

<sup>&</sup>lt;sup>86</sup> This line of reasoning is also recurring point made in the development of the Swedish Government's Climate Policy Framework. See SweGov, "Ett klimatpolitiskt ramverk för Sverige: Delbetänkande av Miljömålsberedningen [A climate policy framework for Sweden] (SOU 2016:21)."

<sup>&</sup>lt;sup>87</sup> Arguments that steel-, fuel- and cement production is essential for Sweden's material sovereignty are described already in a 2017 report, see L. J. Nilsson et al., "Nollutsläpp i basindustrin – förutsättningar för en ny industripolitik [Zero emissions in the base industry – preconditions for a new industry politics] (Lund: IMES/EESS, 2017)."

Transitioning Unions

the social dimensions of industrial transitions, similarly to how industry served as spokesperson for the transition's technical dimensions.

When contrasting these views, we see a difference in *scope* for the transition. Local unions consider politics and policy-making as a question of nationally prioritising their sector, industry and place, which can be said to be part of a longer history of Sweden's industrial development.<sup>88</sup> Central unions, however, wished to become mediators between various industry interests, partly through policy-discussions at the European level – the level at which new funds were being made available for transition initiatives and could then be used to bridge conflicting transition interests at the national level.

### **Conclusions**

What makes an industrial decarbonization transition 'just' with regards to the imperatives of a nationally defined workforce? I have sought to answer this question by talking with trade union representatives at the local level of three Swedish industrial towns - Luleå, Lysekil, and Slite - and compared their responses to those of union representatives at the central level, in Stockholm. From their differing interpretations of 'just transition', I have identified four main tensions of relevance for continued discussions about trade unions specifically, and transition policies in general.

Firstly, local and central trade unions differed in their interpretation of *recognition*. Local representatives requested that the Swedish industry workers and industry should be recognised for past contributions in making the world market more efficient and less polluting to. Central representatives requested that trade unions be recognised based on future contributions towards decarbonising Swedish industry. Crudely put, the local level emphasised an established environmental identity, whereas the central level sought to foster a new climate identity.

Secondly, trade unions at local and central level differed on the importance of time and *place* for the climate transition. Local representatives had difficulties envisaging their industrial towns, and companies, being decarbonised by 2045. Central representatives believed the Swedish Government's time schedule would hold, provided that the goal was the transition of the Swedish industrial workforce as a whole, rather than specific industrial towns throughout the country. Representatives at central level believed Swedish workers had to lead by example, moving to new regions as part of rebuilding Swedish industry, if needed.

<sup>&</sup>lt;sup>88</sup> For more examples, see R. Hildingsson et al. "The green state and industrial decarbonisation," Environmental Politics 28, no. 5 (2019):909-928

Thirdly, transition policies illustrated the conflicting loyalties and *identities* of trade unions, expressed in both material and cultural terms. Materially, local unions identified with keeping local jobs, which were threatened by climate protests as in the case of Greenpeace's blockade in Lysekil. Culturally, local unions identified and redefined the climate movement in terms of production, rather than consumption – and ss producers, the industrial workforce had a long track record of promoting improved environmental standards. In brief, local trade unions viewed the labour movement as the real environmental movement while discarding the legitimacy of climate protestors. By contrast, unions at central level sought to redefine the identity of the labour movement by aligning with demands of climate organisations.

Fourthly and finally, the differing emphasis on politics and policy-making illustrate different scopes for the transition. Both local and central unions believed trade unions should influence Sweden's National Policy Framework, but with local unions pursuing their own, informal, lobbying to benefit their specific industry, whereas the central level sought formal participation in national and international forums and decision-making bodies. Similarly to how industry served as spokespersons for the transition's technical dimensions, unions at central level hoped to become spokespersons for the social dimensions of the transition, thereby reasserting also the relevance of the labour movement as a whole.

While central levels of Swedish trade unions understand just transition in international and intergenerational terms, local level trade unions remain relatively alone in advocating for an emplaced understanding of just transition. This has implications for future scholarship, the organisation of trade unions, and the larger political landscape concerning climate transition.

Of relevance to just transition scholarship is the emerging identity among trade union representatives of being climate actors, of a sort. The degree to which those identities recognise the workforce as inhabitants of a specific place may have less to do with the pace of transition,<sup>89</sup> but more to do with the transition's legitimacy - in brief, the degree to which transitions are deemed to be just. <sup>90</sup> The legitimacy gained from emplacing just transitions, then, is a condition that should be the subject of study beyond the Swedish context and of relevance to ongoing transitions also in other Western countries.

Regarding the organisation of trade unions, if the tensions identified are representative for attitudes also in other industrial towns, or among union members in fossil-intensive sectors

<sup>&</sup>lt;sup>89</sup> For a critique that local transition initiatives are not more legitimate than planetary initiatives, e.g. as agreed upon by the UN, see D. Stevis & R. Felli, "Planetary just transition? How inclusive and how just?" Earth System Governance 6 (2020): 100065.

<sup>&</sup>lt;sup>90</sup> For a recent example following this thread of thought, see N. Räthzel, "Trade union perceptions of the labour nature relationship," Environmental Sociology (2021).

generally, the question is how trade unions overcome such conflicts. One implication is that 'just transition' policies simply remain a principle at central level but with no practical bearing on the everyday conduct of trade unions locally. If LO however aim to pursue an ambitious transition pace, whereby Swedish industry decrease carbon footprint at the expense of production output, the 2020s will be a period of increased conflicts between different segments of trade unions. 

Whether LO can withstand these tensions require not only comparisons between past and present industrial transition policies but in addition an analysis of alternative political actors now professing to represent worker interests. The emergence of labour associations affiliated to the Sweden Democrats<sup>91</sup> provide in this sense yet one more example of working voters decoupling from social democracy. 

In brief, a progressive alliance between the labour- and climate movement is improbable as matters stand at present. For those keen to bridge that jobs vs. climate-divide, the tensions identified in this study could serve as a point of departure as we reassess what is a just transition. 

<sup>&</sup>lt;sup>91</sup> With regards to climate policies, see Johan Gärdebo, "Swedish workers, decarbonisation and the dilemmas of a just transition," Democracy in Action (June, 2022).

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Johan G\u00e4rdebo: Conceptualization, investigation, validation, formal analysis, writing – original
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# 755 Data Availability Statement

756 This article rests upon primary interview material that has been transcribed, anonymized and
757 stored in Linköping University's data repository. For further information about data management
758 and research ethics, please contact project lead: <a href="mailto:eva.lovbrand@liu.se">eva.lovbrand@liu.se</a>

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