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TITLE: Posthuman co-production: becoming response-able with what matters

Introduction: storying a 'problem space'

In this paper, we introduce *posthuman co-production* as a post-qualitative research praxis that decentres the human and re-centres matter. It is a praxis informed and inspired by new materialist posthuman feminisms in education, or *phEmaterialism*ⁱ for short (see Strom, Ringrose, Osgood and Renold 2019). In our version of post-qualitative inquiry (St. Pierre, 2017, Murriss 2020) a research 'problem' is a kind of posthuman co-production that comes from a being-with others (e.g. people, place, objects). As the papers in this special issue illustrate, inter-disciplinary co-productive methodologies have long offered researchers multiple ways in which participatory processes complicate how a problem becomes a problem – that is, how a problem is noticed, shared and acted upon (Banks et al. 2019). Problems do not arise in advance of a project and methodologies are not only developed to respond to a problem. Rather, methodologies are deeply implicated in creating problems, and in conducive contexts they carry the potential to transform a problem and the world. Celia Lury and Nina Wakeford (2012) have, for example, demonstrated how becoming inventive with methodologies can create what Lury (2020) theorises as a 'problem space' - a space that composes the problem, again and again, itself forever changing, and with each return or revolution something new might unfold. It is in the capacity to both create and attune to the yield of a 'problem space' that gives co-productive methodologies their constitutive force and capacity to 'contribute to the generative circulation of a problem' (Lury 2020, 203). How problems form and transform, and how we draw upon the arts to cultivate a living ethics for becoming 'response-able' (Barad 2007) with what unfolds lies at the heart of our praxis.

A co-produced posthuman praxis of problem-surfacing is indebted to and in dialogue with “indigenous scholars who have been engaging in knowledge production practices emphasising more-than-human relational ontologies for millennia” (Strom et al. 2019, 5 - see for example Todd, 2016, King et al. 2020, Truman 2019). It is a praxis that *moves* research into a more direct and ethical engagement with the multiple worldings that we become entangled in. We use the term ‘move’ here to emphasise that a phEmaterialist post-qualitative praxis is always affective and dynamic (Dernikos et al. 2020). For scholars new to the ethico-political ontologies of doing entangled research, it’s a praxis that challenges what counts as research, how it unfolds and how it matters (Taylor, Oulton and Franklin-Phipps 2020). The explicit attention to the ethical, political, affective and entangled nature of ‘research’ means that research ‘data’ are simultaneously personal, performative and full of transformative potential. A posthuman co-production of being and making-with others, as Isabelle Stengers (2019, 19) writes, is not a process in which ‘academics’ critique from a ‘safe distance’, it is an ‘ontological engagement all the way down’, a situated entanglement of being there in the thick of things.

The research praxis we share in this paper has been developed through a deep emersion in place. Our site of engagement is Wales/Cymru. We map moments in a process of attuning to the potential of a lively Relationships and Sexuality Education (RSE) policy and practice terrain, where EJ (Author 1) is deeply embedded and becoming more and more implicated with what unfolds. It is beyond the scope of this paper to chart what Tess Lea (2020, 12) might describe as the ‘wild’ forces of Wales’ RSE policy ecology, with its ‘natural incoherence’ made up of complex interactions of multiple human and nonhuman actors. EJ has written elsewhere of the unruly, dispersed and fitful stutters and meanderings of how a wild RSE policy assemblage is taking shape in Wales (Renold 2018; Renold 2019; Renold, Ashton and McGeeney 2020). Our praxis dialogues with a growing scholarship of phEmaterialist gender and sexuality education policy and practice in schools (see Allen, 2018; Allen, 2020; Allen and Rasmussen, 2017; Alldred and Fox 2019; Renold and Ringrose 2017; Ferfolja and Ullman 2017; Quinlivan 2018; Osgood and Robinson 2019; Robinson Garland-Levett 2020; Ringrose 2020; Pasley 2020; Marston 2020; Wolfe 2021; Timperley 2021; Zarabadi 2021; Mohandas 2021). It is a shared praxis which we, EJ and Gabrielle (Author 2), share and theorise regularly.

The next three sections of the paper open up the processual ontology informing our praxis and our core concepts of 'queer response-ability' (Barad 2007) and 'dartaphact' (Renold 2018). What then follows are three 'fugal figurations' each crafted to provide glimpses into post-qualitative journeys of collaborative phEmaterialist praxis. Each fugal figuration hints of slow co-production with dartaphacts as key players transforming what matters in unexpected ways across micro and macro political force-fields of an RSE to come. The ethical-political praxis of slow posthuman co-production is further expanded in the final *Coda*.

Coproducing what matters with queer response-ability

Karen Barad's (2007) queering of Donna Haraway's (1991, 2006) portmanteau *response-ability* has the potential to reconfigure co-productive methodologies. We unpack this generative concept by exploring the ethical onto-epistemological implications for our phEmaterialist praxis. Barad's concept of 'queer response-ability' has three major strands. First is the recognition that the researcher is always already part of the phenomena being investigated. A posthuman co-productive praxis thus requires a processual ontology that dissolves the Cartesian boundaries between human and non-human matter, subject and object and researcher and researched, and puts matter into dynamic motion. Accordingly, epistemology is entangled with ontology as "onto-epistem-ology – the study of practices of knowing in being" (Barad 2007, 185). Second, what 'matters' is an on-going and dynamic process of differentiation in which agency is not restricted to humans. In this posthumanising of agency, what happens or what comes to matter is not causal or sequential, but involves researchers making an 'agential cut' which has implications for what becomes visible or knowable as 'data'. This leads to the third component. Barad's onto-epistemology, is an ethical-onto-epistemology. Matter comes to attention through an agential cut that will always involve issues of in/justice and in/equity where "matters of concern and matters of care are shot through with one another" (Barad, cited in Kleinman 2012, 69).

Barad conceptualises ethico-onto-epistemology as a 'queering' of response-ability. Response-ability, she cautions, is "not about the right response, but rather a matter of

inviting, welcoming, and enabling the response of the Other” (Barad, cited in Kleinman 2012, p.81). Queer response-ability, she argues, involves paying attention to the ways in which phenomena are always becoming Otherwise, what she terms the ‘queer-ness of phenomena’ (ibid). The queerness of enabling and welcoming Other ways of being-knowing-responding in the field of relationships and sexualities education (RSE) has multiple implications for us. The response-ability of becoming Otherwise in this context involves cultivating the ‘ability’ to make space and time for conducting research-engagement-activist projects designed to attune and communicate the experiences of children and young people in ever changing micro and macro political contexts. As we go on to illustrate below, this involves entangling with the often complex, volatile and ever-differentiating world of how gender and sexuality education is mattering for diverse publics (Talburt 2018; Blaikie 2021, Martino et al. 2021, Mamo et al. 2021). Implicit in our research praxis is an ethical and political responsibility to call out practices which subjugate, silence, sensationalise and simplify children and young people’s experiences (see Gilbert 2021) and ‘stay with the trouble’ that comes to matter (Haraway 2016) as events unfold (Renold and Ringrose 2019; Renold and Ivinson 2019).

Dartaphacts: making way for what might come to matter

We have many years of experimenting with different art materials and artists on methodologically funded projects designed specifically to problematise participatory (Renold et al. 2008) and co-productive methodologies (Ivinson and Renold 2013; 2016; Renold et al. 2020). Over time, we have noticed how events can sometimes unfold in generative ways with and for young people. We have learned to become more inventive in crafting ethico-political spaces, techniques and materials that enable a form of co-productive participation where the proto possibilities of feelings and ideas flow and are transformed through words, artefacts and new events.

Erin Manning (2016) refers to the medieval notion of art as ‘the way’. Manning argues that to conceive of art as the manner of *how* we engage helps us glimpse “a feeling forth of new potential” (ibid p. 47). In doing so, it subverts and scaffolds accountability on the journey of coming to know differently through creativity as a *way* to notice the always already queerness of the world and imagine Otherwise. This is not about utilising arts-based

methods for 'data' that is waiting to be collected. Like many post-qualitative arts-based youth research/ers (see for example Coleman et al. 2019, Hickey-Moody et al. 2021, Huuki et al. 2021), the art in our praxis is a processual and transformational notion of art-as-way (Manning 2020, p.22) - a process of creating ethical-political spaces for surfacing what matters. Barad's call to become response-able has enabled us to recognise how our research praxis matters and to work with the affective politics of what comes to matter (see Meissner 2014, Massumi 2015). Our concept of the 'dartaphact' has accompanied us on this journey.

Massumi argues that 'art is about constructing artefacts—crafted facts of experience so that experiential potentials are brought to evolutionary expression' (2013: 57). The concept 'dartaphact' mixes data, art and act/ivism in processes that make the mattering 'facts of experience' visible to wider publics. The concept is deliberately ambivalent about being an object (artefact) and a verb; the artful making of experiential facts. The first half of the concept – darta - (hybrid of data and art) is an explicit intervention to trouble what counts as social science data which emphasises and values the speculative process of what comes to matter through arts-based research. As mentioned above, the second half of the concept – phact - signals the explicit posthuman ethico-political activist potential of what matter can do. The 'ph' at the heart of the concept replaces 'f' in dartaphact, to register the posthuman forces of art-ful objects as potential political enunciators and to encourage a move away from the illusion of objective, fixed, knowable and measurable social science facts. In making this paper, we have extended our previous use and understanding of dartaphact to include any matter (human and more-than-human, from visual arts objects to research reports and websites) which operate in this way and carry transformative potential to agitate and enact change. Indeed, darta and dartaphact have become useful post-qualitative concepts-for-praxis both within and beyond the academy as they re-animate what research can do when ethico-political creativity is folded into the mix (see Renold et al. 2021, 21-22).

Posthuman co-production with RSE agendas in Wales: three fugal figurations

Becoming able to respond to 'what matters' is an embodied and embedded ethical practice that will always take place within "specific histories of particular practices of engagement" (Barad, in Kleinman 2012, 81). The journey we chart in this paper also pays attention to how

the politics of place matters (Tuck and McKenzie 2014) including: the politics of devolution in Wales/Cymru since 1999ⁱⁱ; the lively history of third sector feminist and LGBTQ+ partnershipsⁱⁱⁱ; a national Futures and Well-being Act (Welsh Government 2015)^{iv}; a national Violence Against Women, Domestic Abuse and Sexual Violence Act (Welsh Government 2016)^v; a progressive political legacy that legislates for children's rights, equity and social justice^{vi}; a children's rights-based approach to Sex and Relationships Education (Welsh Government 2010) and a radical overhaul of a national curriculum which involves teachers, pupils, stake-holders and academics (Donaldson 2015). Over time and in different ways these terrains entangle to open up and close down the fields of potential for dartaphacts to form and in-form the field of RSE in Wales. They have operated as vital forces that at times we, as researchers, could align with and at other times were propelled from. Together they mark out a dynamic 'problem space' that circumscribed our praxis.

We share the unfolding of a creative praxis over six years as an emergent art-ful theory-doing as situations developed and became available. It is a praxis that opens up research to its more-than, rupturing individualistic, linear and neo-liberal research impact agendas (Bell and Pahl 2017; Facer and Pahl 2017; Taylor, Quinn and Franklin-Phipps 2020). We trace the journey of how dartaphacts in the three fugal figurations below have become and continue to become micro-political enunciators, carrying what matters, and en-abling and enacting change. Drawing on EJ's musical background, we take inspiration from the Renaissance fugue, as a contrapuntal composition of multiple voices built upon a subject which, unfolds and recurs in improvised form. In our story, the subject of the fugue is the emergent field of RSE in Wales and the multiple voices are the dartaphacts that attune to and traverse the terrains of the problem space. Haraway captures the process of doing co-productive research as 'figuring' that is "practice and process: a becoming-with each other in surprising relay" (Haraway 2016, 3). Lury (2020: 40) drawing on Haraway writes,

"methodologically speaking figuring involves the activation of methodological potential in a process that is neither teleological nor mechanistic" and where a problem does not proceed "from givens to goals, but instead is a becoming-with".

Each fugal figuration provides a glimpse into the *polytical*, *resourceful* and *living* potential of dartaphacts in the making and their mattering. We have written the fugal figurations to describe the affordances of human and more-than-human becomings that coalesce into dartaphacts. We include images and references to publications (e.g. academic papers, research reports, films and resources) to enable readers to glimpse the many players, terrains and discourses circumscribing this research-activist praxis. These citations can also be drawn upon by readers unfamiliar with the field of RSE and point to the various research and engagement projects that yielded the dartaphacts in the figurations that follow.

Polytical dartaphacts

“Matter makes itself felt ... matter feels, converses, suffers, desires, yearns and remembers” (Barad, in Kleinman 2012, 14)

The first fugal figuration starts in a secondary school in an ex-mining valleys town in south Wales. During a project designed to explore feelings of safety growing up in a post-industrial place (Renold et al. 2020), the research team^{vii} became aware that some young people had knowledge of sexual violence. Some of the girls were keen to participate in a more activist phase of the research to explore this theme further. EJ set up a lunchtime meeting and a group of six girls began to work with the anonymised interview transcripts where sexual violence surfaced (Libby et al. 2018). Part of this work included a tentative aim to see how the data might inform political change and lend support to the education amendments of the new Violence Against Girls and Women, Domestic Abuse and Sexual Violence bill which happened to be progressing through Welsh Government at the time. The emergent praxis unfolded into what became the *Relationship Matters* lunchtime project (see Renold 2018). It gives the first heART beat of what a phEmaterialist co-productive praxis feels like.

During one of the sessions some of the girls talked about how their own and others' experiences of sexual harassment and violence left them with 'lumps' in their throat, a 'turned stomach' or 'just numb' and speech-less. They talked about wanting to keep their 'feelings in' and simultaneously wanting to express them outwards. Attuning to their desire to both feel and express, EJ invites the girls to communicate not through words but through

marking a pile of paper from a previous workshop - pieces of paper that had been printed with multiple images of rulers. Why rulers? Because in the earlier session, the comment, 'sometimes boys lift up girls' skirts with rulers' prompted a dartaphact made up of paper rulers on which girls had written messages calling out the 'cat calling' they experienced. They called this dartaphact, the 'shame chain'. Later they used acrylic rulers which they turned into a ruler-skirt (Renold 2018, Figure 1).

<Insert Figure 1>

The girls seemed puzzled but intrigued by the invitation to work with paper. Like the making of the ruler-skirt, what followed was a process where meaning, matter and affect entangled in ways that none of us could have predicted. They immediately began scrunching and ripping up the ruler-lined paper, talking about how 'it's better to get your anger out on something' and the 'sense of relief' they felt in doing this. One of the girls corrects EJ in describing how her feelings (are literally) matter –a moment of 'empirical attunement' (Stewart 2014, 126) that has stuck with EJ and will forever capture young people's awareness of how "matter makes itself felt" and where the 'thing felt is fringed by an expanding thought-pool of potential that shades off in all directions' (Massumi, 2013, 50):

It's like a sense of relief for me.

EJ: A sense of relief?

Yeah ... how you react like ... your feelings ... rips them up and crumples them up until there's practically nothing left and you're left in pieces. And I reckon using paper is actually a good way of expressing that.

EJ: So you're thinking about your feelings inside the paper?

My feelings ARE the piece of paper.

EJ: Are the piece of paper?

Like crumpled up, torn up into little tiny pieces.

In the space of a few minutes a large pile of torn pieces of paper materialised: the ruler(s) were ripped to shreds. Staring at the pieces they discuss what to do with them. Some girls wanted to keep them. Others wanted to 'chuck them away'. The idea of binning the shredded papers alarmed the girl in the extract above who shrieked, 'but that's chucking my

feelings away!’ EJ wonders out loud ‘what else might we do with the pieces’, and the same girl glances at the green recycling bin. ‘Recycle them!’. They decide to make a heart, with the words: *slag, fake, how much do you charge?, wolf whistling, rumour, grabbing your bum, stuck up, youth mother’s a MILF, bitch, fatty, sket, beeping, look at her arse, ruler-like, fanning out from the heart* (Figure 2).

<insert Figure 2>

They decorated the outside with cracked clock faces. Later they reflect on this process, and drawing on an audio-transcript from the session co-authored chapter with EJ writing:

“We didn’t want to throw our feelings away. Instead, we collected them all up and decided to make a heart. We drew clocks on the heart to show that time can heal. But the clocks also have cracks on them, to show that time can’t heal everything. We put the hurtful words on the outside of the heart – we didn’t want to hide what happens to girls any longer” (Libby et al. 2018).

The Tagged HeART joined the other dartaphacts, including the *ruler-skirt*, the *shame-chain* the *runway of disrespect* and the poem, “Speak Out”. These were used in two school assemblies they delivered on the theme of ‘healthy relationships’ in which they invited other young people to “feel what we feel”. Indeed, the school assembly was a pivotal moment in which EJ and the girls were learning together how to create what Stengers (2019) calls a ‘sensible event’ with dartaphacts as participants. A sensible event involves “allowing oneself to be touched, and allowing what touches you the power to modify the way you relate” (Stengers 2019, 16).

At the end of the two school assemblies, students were invited by the girls to take-part in a piece of political activism. Each student had the opportunity to complete the sentence: ‘We need a healthy relationships education because ...’ printed on one side of a paper ruler and create darta to inform the draft Violence Against Girls and Women, Domestic Abuse and Sexual Violence (VAWDASV) bill. Keeping the heART in play, three paper rulers were glued inside a cut-out heart of a tri-folded red card (Figure 3). Every assembly member (AM) in Wales (60 in total) received a hand delivered valentine card (see Renold 2018 for further

details). The minister in charge of the bill, received a specially large card with the image of the Tagged HeART on the front cover and over 20 paper rule(s) attached (Figure 4) – another moment of empirical attunement which he remembered three years later when he and EJ shared a platform in a panel on research and policy impact.

<insert Figure >

<insert Figure 4 >

EJ tweeted each AM's professional twitter account to see if they received their card. This led to a number of retweets and responses from across the political spectrum with comments that supported the recommendations detailed in the cards. The AMs were touched by the creative delivery and although we can not know how or why the dartaphacts moved them, a passage was created, something was indirectly evoked that put them in touch with what mattered. We can speculate that the dartaphacts opened out the usual parliamentary processes and supported AMs to take a stand on a difficult subject. A 'sensible event' (Stengers 2019) was forming and in-forming a policy field in the making.

On the 10th March 2015 the bill gained royal assent as the VAWDASV Act (Welsh Government 2015a). It included many of the Relationship Matters' campaign's education amendments for mandatory teacher training on relationships education and a whole school guide for educational practitioners which was published later that year, and included the Ruler-HeART story as an example of 'good practice' (Welsh Government 2015b, 9-10). However, making RSE mandatory was postponed for the new curriculum (we return to how the valentine card activism has continued to matter, below). The ways in which the emergent praxis in the Relationship Matters project directly informed the making and mattering of the Valentine Card HeART activism marked another significant moment for EJ's experiential understanding of the force of dartaphacts in co-productive processes. EJ recognised the limits to academic 'critique' given that a year of written and oral submissions of evidence had been futile in materialising Article 12 of the UNCRC which states that all children should be part of decision-making processes. The dartaphacts created passages and ruptures in the usually acceptable modalities of how academics and politicians work uncovering a new 'problem space' for how to communicate what matters.

Massumi (2013, 173) has argued that ‘politicality’ as distinct from conventional political platforms, programs and parties, ‘is always on its leading edge, *affective*’. Our re-working of poly in political (polytical) is to emphasise the fugal quality of a praxis that was ‘gaining a foothold in multiple political registers’ (Guatarri 1995/2006, 128), in a lunch-group, a school assembly and community arts-activism. Dartaphacts carrying what mattered were traversing micro and macro political contexts. The next figuration traces how injecting some ethical vertigo into the UK’s research council’s ‘impact’ agenda enabled the emergent praxis to continue on its way.

Resourceful dartaphacts

The passing of the landmark VAWDASV Act was a rare a moment when micro and macro alliances were forged with ‘processual reciprocity’ (Masumi 2015, 81). A grassroots movement was proliferating ‘without being confronted with major obstacles’ (ibid.). An opportunity emerged as the new whole education guide for healthy relationships was celebrated on twitter by the minister in charge of the Act and who had received the Tagged HeART Valentine Card. EJ seized the moment and tweeted ‘how about a guide for young people?’ The minister tweeted an immediate affirmative response. EJ carefully crafted a speculative proposal for co-producing a guide with young people.

A lively exchange of emails between Welsh Government and two key agencies, Welsh Women’s Aid and NSPCC Cymru, garnered enough support to secure funding from the Economic and Social Research Council’s (ESRC) ‘impact’ stream. Over the next nine months, EJ co-produced the Safe To Act, Right To Engage and Raise (stARTer) project. The acronym, stARTer, registered the beginning of an artful praxis with an advisory group of 12 young people from three different schools including two of the members from the original Relationship Matters project. During the process, well over 50 young people participated in what eventually became ‘AGENDA’: *a young people’s guide to making positive relationships matter* (see www.agenda.wales).

AGENDA is the title of Wales’ first bi-lingual (Welsh-English) national resource addressing gender-based and sexual violence co-produced with young people over a year. The process involved three days of meetings with the young people and the wider team (see

www.agenda.wales, p.73), between six and eight site visits to three core schools, and over 15 site visits to other schools and youth groups. The young advisory group did not want to be 'told' in an authorial voice what they needed to know, feel, do, become, or act (see Coll et al. 2019). Rather, they wanted a process that allowed them to experiment and explore their own matters of concern and connect with the concerns of others. They wanted to include a diverse range of experiences, such as LGBTQ+ rights to misogyny in the music industry (Renold, 2019).

AGENDA's explicit activist philosophy draws on the ethical-political aesthetic yield of making what matters come to matter. The Latin roots of the term agenda mean 'a doing – a driving force and an impulse' (Renold 2019, p.21). The co-production praxis was developed in the Relationships Matters project (Figure 5) and invites participants to keep what matters lively and open to change as daptaphacts touch and connect experiences.

<Figure 5>

While many of the activities in the resource combine arts-based methods (e.g. drama, poetry, visual arts, dance etc) it is AGENDA's approach to creativity, as the processual 'making' of 'matters' which functions as the beating heart of this fugal resource. Each case-study opens up a range of issues to multiple variations (see Figure 6) and includes DIY activities for others to adapt and make their own.

<insert Figure 6>

In collaboration with multiple partners who share AGENDA's vision to 'Be Creative^{viii}' in how to 'Make Voice Matter Differently' (see www.agendaonline.co.uk/agenda-information) and tapping into various impact and engagement funding streams, AGENDA has evolved into a practitioner guide for primary and secondary schools. Over the years, the guide has become resource-ful for both distilling and expanding a praxis, yet also event-ful in platforming a praxis that continues to make a thousand tiny daptaphacts that carry traces of what matters to young people in relation to gender and sexualities (see www.agendaonline.co.uk). Indeed, since its launch, we have been learning how to enable daptaphacts to touch,

move, inform and transform multiple local and national political agendas^{ix} through AGENDA outreach workshops, conferences (Renold, Edwards and Huuki 2019, see Figure 7) and professional learning events (Renold et al. 2020):

<insert Figure 7

However, lifting the silence on what matters for children and young people with an explicit rights-based, activist, curious and creative praxis brings risks. Each year since AGENDA's launch, twitter, social and news media and public attacks have been directed at EJ, Welsh Government, key stakeholders, participating schools, youth groups and at the AGENDA text itself. Each time, we are alerted to how surfacing what matters creates trouble. While such attacks rattle us and temporarily still or flatline a flow, the more-than-human dartaphacts generated though AGENDA's praxis remain in the world and continue to have impacts. AGENDA takes root in new sites and flourishes like a living organism, attracting attention with known and unknown effects and affects while continuing to inform policy and practice as the final fugue describes.

Living Dartaphacts

Six months after the launch of the AGENDA resource in March 2017, EJ was invited by the Minister for Education to chair a panel of experts examining the current and future status of the Healthy Relationships Education curriculum in Wales. At that time the policy context for the then, 'Sex and Relationships Education' (SRE, Welsh Government 2010) was non-mandatory. We were learning fast from the AGENDA conferences that SRE was reaching a tipping point. The gulf between school-based SRE provision and what young people wanted from their SRE and their lived experience was widening. Accordingly EJ requested a change in the terms of reference so that the original focus on Healthy Relationships Education included Sex Education. This was agreed by the minister and the expert panel on Sex and Relationships Education was announced (<https://www.cardiff.ac.uk/news/view/592589-new-expert-healthy-relationships-group-to-advise-on-curriculum>)

This first meeting with the expert panel was crucial. It became clear that the Welsh Government's understanding of 'expertise' and 'co-production' were firmly rooted in a neo-

liberal notion in which ‘academics’ in universities are plucked from their ivory towers to assemble ‘evidence’ that informs a policy or practice (in this case both). The process of chairing an ‘expert panel’, when the key experts, on ‘what matters’ are notably absent from the process, and in a time-frame that could not meaningfully engage children, young people (or their parents, carers and communities), was deeply unsettling. EJ’s status as ‘chair’, both as a professor and as the leader of the panel, became fraught and in danger of betraying the collective and more-than-human, co-productive praxis through which EJ had been hailed as an ‘expert’ in the first place. The problem-space, pre-defined by the government, needed re-defining.

The panel met five times over a seven-month period. Each meeting was carefully crafted by EJ to enable the group to slowly re-imagine what else SRE could become. ‘Evidence’ included dartaphacts created in local AGENDA workshops (e.g. objects and films), a reading list made up of traditional research reports, academic papers, books from around the world, and a series of presentations^x (see appendix 6, Renold and McGeeney 2017a). Only a short report outlining the panel’s rationale and recommendations was expected (40 pages). However, with support from Dr. Ester McGeeney (an experienced youth practitioner and sexualities researcher) an additional and much longer 160 page report was written (Renold and McGeeney 2017b). This report expanded the 12 recommendations in the short report and provided examples of praxis and a future vision. As Massumi (2017, 105) argues, “what is needed in political action is not a hope, but a way”.

At the end of the process, a vision for a new ‘living curriculum’ emerged. A living curriculum, as Snaza and Mishra Tarc (2019: 2) argue, is the very opposite of “the dead, established and revered text, not as a set of facts, a subject area to be studied, but as onto-epistemological”. The panel had a vision of a rights and equity based, creative, transformative, holistic, inclusive and co-produced RSE. The longer report included a meta synthesis of international research as well as case studies from the AGENDA resource, replete with images of dartaphacts foregrounding young people’s experience. We came to realise that reports are dartaphacts as they explicitly signal what matters. EJ purposefully selected an image of the ruler heART valentine card to adorn the recommendations page and an AGENDA dartaphact

indicating what young people want to ‘stop and start for a better SRE’ on the front page (Figure 8).

<Insert Figure 8 Dartaphacts Reporting What Matters>

The images carry haunting legacies of ‘what matters’ to young people. While most ‘chairs’ of expert panels return to the ivory tower after their parliamentary work is over, EJ persists in actively creating the conditions through which dartaphacts continue to be meaningful through on-going work with teachers, young people and third sector organisations. This on-going work propagates the panel’s vision, enabling the emerging and newly named Relationships and Sexuality Education (RSE) curriculum to take root in schools across Wales and beyond.

It is six years since the Valentine Card activism and four years since the recommendations of the expert panel were accepted by the minister (for a summary, see Renold 2017). EJ has since been choreographing the political at both the macro and micro level simultaneously: as official advisor to the new co-produced RSE curriculum, *and* developing, resourcing and platforming (<https://vimeo.com/416352195>) an evolving, experimental professional learning programme with an AGENDA informed praxis with Dr. McGeeney and more recently, Dr. Leanne Coll (Renold et al. 2020, 2021 - Figure 9). This on-going praxis enables teachers to creatively co-produce dartaphacts with their students to inform a ‘living curriculum’ in their schools in ways that both starts and stays with ‘what matters’ for children and young people (Ollis et al. 2022).

<insert Figure 9, Re-Image-ining What Matters>

Slow co-production matters. As the new curriculum bill (Welsh Government 2020) gained royal assent following the conventional political processes in Wales, the proposed new and statutory RSE (age 3-16) comes under attack. Petitions, social media and street protests marshal a rising post-truth politics. Such events tend to silence how gender and sexuality ‘matter’ to children and young people. EJ was invited to the only evidence session scheduled for RSE and facilitated by the Children and Young People’s Education Committee tasked with scrutinising the bill. When asked about the rationale for why Wales’ new RSE matters, EJ

held up one of the original ruler-bearing valentine-cards and opened it, to open up ‘matters’ (Figure 10).

<insert Figure 10, Dartaphacts Strike Back>

Dartaphacts continue to carry the legacy of what children and young people want from RSE as the bill becomes an Act (Welsh Government 2021). On UK RSE Day (24 June 2021) EJ facilitated Wales’ first online RSE professional learning conference for teachers^{xi} (www.agendaonline.co.uk/agenda_matters/). The ruler-heART returns in the illustrated programme (see figure 11). Ensuring that the conference opens with matter, as soon as participants arrive they are greeted with a 15 minute digital gallery of RSE dartaphacts made with or by children and young people (see <https://vimeo.com/566804714>) – dartaphacts created in over 20 research, engagement and teacher inquiry projects (see Figure 12).

<insert Figure 11, Transforming RSE Online Conference>

<insert Figure 12, Digital Gallery of RSE Dartaphacts>

The sustainability of dartaphacts to communicate and enact change continue to affect and impact. In this way they are participants in a slow praxis of embodied and materially embedded, more-than-human, co-production.

Coda: figuring out how posthuman co-productions come to matter

“Responding to the insistence of the cry ‘it matters’ does not mean justifying its claim....It means intensifying it (...) giving it the power to problematize (...) and make things matter” (Stengers 2019, 16).

In our post-qualitative, posthuman co-productive praxis of engagement, we give prominence to the role of dartaphacts to make things happen. In the three fugal figurations we have shared the unfolding of a creative RSE praxis across six years. Each fugal figuration assembles a dartaphact as “a figure for ongoingness” (Haraway 2016, 2) and together they chart a rhizomatic journey. We have hinted at the power of dartaphacts to create, anchor, register and carry what matters for children and young people through a range of registers;

in micro-political, resourceful, eventful and performative ways. Dartaphacts are emergent phenomena - artefacts/matters 'not of reason but of pure feeling' (Manning, 2020, p 24). The artfulness of doing and making involves a potential that runs through events; a potential that might or might not become actualised. Dartaphacts such as the tagged heart or ruler skirt are layered composites that materialise emergent feelings and concerns with aesthetic yield (Manning, 2020, p. 22). Once launched into the world they continue to affect, move and give rise to further events. Indeed, our RSE dartaphacts have affected, moved and sometimes troubled politicians, policy makers and teachers. As situations developed and became available dartaphacts yield further dartaphacts, such as the Valentine Cards, and the AGENDA resource and become lively in various ways: they re-animate 'evidence' in parliament and governmental expert panels; create RSE practices that enable young people to express what matters to them; and through artful learning conferences inspire teachers to embed a living RSE curriculum as an on-going, creative process – a living RSE pedagogy. In these processes, new problem spaces continuously surface. Collectively the fugues illustrate slow co-production is a becoming-with what matters.

Posthuman co-production is not a matter of adults 'representing' children or young people's experiences or giving the multiplicity of their 'voices' an equal chance to register (Mayes 2019). Rather, it's about inviting, enabling and creating space and time for the multiplicity of what matters to unfold and become materially realised. For us, co-productive research is art-as-way (Manning, 2020, 22); an artful praxis that enables what concerns young people to move into expression. It opens research to the more-than of life in its contingency, rupturing individualistic, linear and neo-liberal research and engagement impact agendas (Bell and Pahl 2018; Facer and Pahl 2018; Pahl 2019; Taylor, Quinn and Franklin-Phipps 2020).

The fugal figurations chart events that would not have happened without EJ's deep immersion in place and ability to shoulder the demands of engagement with partners for whom RSE matters. The urgency is what Temidayo Eseonu and James Duggan (this volume) refer to as a 'non-trivial rationale' for co-production. EJ's long-term engagement as a government and third-sector consultant and advisor has enabled the development of an

embodied and embedded knowledge of working practices across different sectors, organisations, the Senedd and policy and practice contexts in Wales. This has made it possible to mesh with other time scales and rhythms to achieve a processual 'reciprocity' (Massumi 2018, 31). Working in this way requires a high level of anticipation and the ability to respond in an instant (e.g. the tweet that sparked the proposal to develop the AGENDA resource), and in ways that take a long view of what might be possible (e.g. the professional learning programme offering an alternative praxis of coproducing a 'living RSE curriculum'). This dexterity is also possible because we both have permanent positions in higher education institutions. Having a stable income provides security as well as challenges to our para-academic activist practices.

Like the improvisation in the Renaissance fugue, dartaphacts can take root and fly in ways unknown. Art-as-way can 'runaway' and spin off in unforeseen directions. Indeed, none of the fugal figurations in this paper could have been predicted in advance. While fugues, in their repetition, build harmony in the gathering of multiple voices, we have also encountered disharmony as dartaphacts amplify and extend their reach. Dartaphacts have: contributed to toxic media attention; attracted social media trolls; incited visible and invisible protest groups and led to personally targeted attacks. This is when the unwanted more-than-of life's contingency enters co-production as uninvited forces. While participants feel the intensity or attack, posthuman dartaphacts continue to affect even when 'queer response-ability' feels humanly unbearable. Slow co-production demands time, vigilance, fortitude and staying in place with an attitude of openness and a desire not to run from 'the trouble' (Haraway, 2016). Well after this paper is published dartaphacts will continue to sound the cries of what matters for children and young people in RSE creating new fugues. We are attuned to some, and others continue on their way below the radar of conscious awareness, affecting, worlding and living Otherwise. As Manning (2016, 25) suggests, "the unfolding affects us, moves us, directs us, but it does not belong to us". Posthuman co-produced dartaphacts are more-than-human forces for change.

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Footnotes

ⁱ 'PhEmaterialism' (Feminist Posthuman and New Materialisms in Education) was developed by EJ as a Twitter hashtag in 2015 for the network conference, *Feminist Posthuman New Materialism: Research Methodologies in Education: 'Capturing Affect'*. It has since become a network which "brings together a globally dispersed collective of students, researchers, and artists experimenting with how posthuman and new materialism theories to form, in-form and reassemble educational research" (see www.phematerialism.org, and Renold and Ringrose 2019).

ⁱⁱ <https://senedd.wales/how-we-work/history-of-devolution/>

ⁱⁱⁱ <https://gov.wales/consultation-lgbtq-action-plan-html>

^{iv} <https://www.futuregenerations.wales/about-us/future-generations-act/>

^v <https://gov.wales/violence-against-women-domestic-abuse>

^{vi} <https://gov.wales/childrens-rights-in-wales>

^{vii} The title of the project was 'Making, Mapping and Mobilising in Merthyr (4Ms): Using Creative Methods for Engaging Change with Young People. For details of this multi-phase ESRC/AHRC funded project and the Productive Margins programme, see <https://productivemargins.blogs.bristol.ac.uk/projects> (Reference: ES/K002716/1). The full research team for the 4Ms project included: Eva Elliot, Eve Exley, Gabrielle Ivinson, Emma Renold and Gareth Thomas. NB. The first author changed their first name from Emma to EJ in 2020.

^{viii} Co-authored by EJ Renold and Gabrielle Ivinson, this section of the AGENDA resource distils our arts-based praxis and focuses on becoming curious, imaginative, art-ful, multi-sensory, ethical and inclusive.

^{ix} The AGENDA resource has reached over 7000 young people and 3500 educational practitioners between 2017 and 2020. See <https://esrc.ukri.org/news-events-and-publications/impact-case-studies/transforming-relationships-and-sexuality-education/>

^x Gabrielle Ivinson was an invited speaker during Meeting 4 "Exploring Creative and cross-curricular approaches for holistic and inclusive RSE".

^{xi} This online professional learning conference for primary, secondary and special schools was organised by EJ Renold, Ester McGeeney, Keane Coll and Kate Marston. Over 350 teachers and educators joined the conference. For the full programme conference, go to: <https://agendaonline.co.uk/making-agenda-matter/>.