## **1** Communities and Narratives in Neglected Spaces: Voices from SMASHfestUK

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3 4 Abstract: Many people are under-served by existing informal science learning (ISL) 5 provisions and under-represented in STEAM (Science, Technology, Engineering, Arts, Mathematics/Medicine) study choices and careers. This paper reflects upon 6 SMASHfestUK which was established, as both a STEAM festival and research 7 8 platform, to explore methods and approaches for lowering the barriers to engagement 9 with ISL in marginalised communities. To do this SMASHfestUK located its events in the heart of communities and worked with those communities to create those events. 10 11 This paper tells their story through the voices of participating communities.

Keywords: Science communication: theory and models; Social inclusion; Informallearning

## 14 The Story of SMASHfestUK

- 15 Many people, including families living with multiple deprivations, and black, black-
- 16 heritage, and black mixed-heritage families, are under-served by existing informal
- 17 science learning (ISL) provisions and under-represented in STEAM study choices and
- 18 careers [Archer, 2013; Neelands, 2015]. SMASHfestUK is a science and arts festival
- 19 that was established in 2015 specifically to engage underserved and under-
- 20 represented communities, and its approach to community engagement was a co-
- 21 design lead iterative prototyping of the festival and the events within it. This approach
- 22 was developed into a model for inclusive engagement called "SCENE"
- 23 (STEAM/Community/Entertainment/Narrative/Enquiry). SMASHfestUK was delivered in
- 24 Deptford, South East London from 2015-2019, but also delivered "pop-up" events in
- other areas of England and Wales including Colindale, Woolwich, Gloucester,
- 26 Bradford, and Neath.

This co-design process involved the active participation of stakeholders, including 27 28 target communities, collaborating organisations and funding bodies. This determined that each festival would be driven by the story of a fictional natural disaster; a 'unifying 29 threat to humanity'. The story was adapted for each location so that it became specific 30 and meaningful for each participating community; an approach we describe as 31 'hyperlocal'. SMASHfestUK has a focus on the use of ordinary, everyday, accessible 32 33 locations in town-centres, community halls, libraries and other public spaces. Spaces 34 which have a high public footfall and a low barrier to access for marginalised communities. The overarching "disaster narratives" used in the festival create 35 36 scenarios for performances, demonstrations and interactive experiences that 37 encourage communities to understand the impact and importance of the STEAM that underpins our everyday lives by exploring what would happen if they lost their housing, 38 39 habitats and infrastructure. It calls on participants to "save the world" or to rebuild

40 civilisation, or even colonise space. This commentary explores the various

- manifestations of the approach and principles in differing community settings. These 41
- 42 include a local community library and social space (The Deptford Lounge), a
- community theatre (The Albany, SE8), a central town library (Gloucester). a central 43
- 44 public town square (Centenary Square, Bradford), a "Market Square" at the centre of
- the main town shopping zone (Neath), and in Colindale, it was open ground at the 45
- 46 centre of the Grahame Park Estate, one the UK's largest social housing schemes. All
- 47 events were well-attended with a good representation from groups normally
- 48 marginalised by science festivals. This commentary explores the reasons why local
- communities who are socio-economically disadvantaged can be found in neglected 49 spaces, using the voices of that community to tell their story, and illustrating the power 50
- 51 of listening, locality and co-design to empower and engage underserved audiences.
- 52 This is the story of SMASHfestUK through the words of the people who co-designed,
- co-produced it, and shaped it: the participant community [McKenzie, 2015; Jarvis, 53
- 54 2016; Simons, 2017, 2018].
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#### 56 > "Nobody ever comes here..." <</p>



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Figure 1A Figure 1B Figure 1C Figure 1 Examples of audiences attending SMASHfestUK events in Woolwich (Figure 1A), Colindale's Grahame Park Estate (Figure 1B) and Neath town centre in Wales (Figure 1C).

#### Listening: People, places, insights, stories, a process. 59

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Co-design in the context of SMASHfestUK was considered as a form of participatory 61

- 62 action research, processes that have been found to be effective in the successful
- 63 creation of effective end "products" or "services" as well as empowering citizens and
- positively affecting policy [Bardill et al., 2010; Sanders and Stappers, 2014; Voorberg 64
- 65 et al., 2014; Conway, Masters and Thorold, 2017]. The early co-design process
- 66 showed a gravitation by young people we worked with towards excitement,
- adrenaline and adventure. With the process providing prompts, we asked; "What 67
- if...?" Answers and ideas flowed freely "A news reporter tells us...", "that perhaps 68
- there's a ...?" "Disaster!", "Fire!", "Earthquake", "Plague!", "There was another 69



- "Zombies", "People were turning into zombies..." We could...? "Go on an adventure!"
- For some co-designers the follow-on effects of these types of comments from young
- 74 people seemed clear: "I just realised that if we introduce STEM subjects to these
- children especially the very young ones. We can inspire them to be more interested
- in them. We can let them know that these subjects shouldn't be things that we grow
- 77 up to avoid or develop a fear for."
- And for the designers and artists who would work with the festival the insights were
- equally important; "Being able to carry out co-design workshops in the primary
- 80 school we visited as a team of designers it allowed me to understand the thought
- 81 process of the children as well as how they communicate and interact with each
- 82 other and the grown-ups around them."83



84 85

Figure 2A

Figure 2B



Figure 2 Co-design workshops and activities in Deptford, SE London (Figure 2A), Figure 2B Deptford, Pepys Estate, Riverside Youth Club drama and story development workshop with Uncover Theatre Group and UCL research engineer, Michael Sulu and Figure 2C a co-design workshop involving Lewisham's Young Mayor's office and Pupil Ambassadors.

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#### 88 More listening: Where? Who?

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Various studies from health and public engagement settings have shown that there 90 is "distance from university penalty" for engagement activities and that researchers 91 92 travelling to community spaces was an effective (if resource-heavy) way to reach people who were historically dubbed "hard to reach" [Bonevski et al., 2014; 93 McCracken, 2017; Audience Agency, 2018]. For this reason it was decided that the 94 festival would create events in the heart of the communities we wanted to reach. 95 96 When Swansea Science Festival asked us to participate, we asked "which local 97 communities won't you reach?" Neath was the answer and so the festival went to Neath. Neath is among the most disadvantaged areas in Wales. Any activities they 98

- said, "that can be taken to the region would have a hugely beneficial impact."
- 100 Nevertheless we received warnings from some quarters. "Whatever you do, don't go

to the Grahame Park Estate," but these warnings were eclipsed by expressions ofsurprise by visitors at events; "No-one ever comes here...", "Why are you here?",

103 "What are you doing here today? No-one ever comes here".

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# The premise: neglected communities, excluded groups and access to Informal Science Learning

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108 Although it has been reported that the barriers to inclusion are many [Dawson, 2014, 109 2019; Whitaker, 2016; Audience Agency, 2018], it was important to hear the voices 110 of our audiences in telling us their experiences. Audiences shared the reasons why it 111 was important to reach their communities. "Often people in deprived areas feel that 112 arts and science is not accessible to them", they stressed that "being free is so important, because people in this area really struggle". There was an emphasis in 113 114 comments on cost-based exclusion, "parents from Deptford cannot always afford it [the cost of entry to paid-for activities] - ordinary working mums. They need things 115 that they can do in half term". There were "not many opportunities in Deptford for 116 117 kids [that are affordable]".

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119 Participants also expressed sadness that the lack of activities was linked to, what they perceived as, low community cohesion: "Nothing, like this happens where I live 120 and there is no real sense of community. But it is hard, you know, to engage people 121 122 from deprived areas". Others commented "so many parents said that usually there is nothing in Deptford for children." SMASHfestUK illustrates arguments for the role of 123 124 "placemaking". Placemaking uses arts and culture to underpin revitalisation and promote community cohesion, however there are also arguments that placemaking 125 simply underpins neoliberal ideologies and that "placeguarding" through arts activism 126 is a more equitable approach to promoting arts and culture in marginalised 127 128 communities [Markusen, 2014; Thomas, Pate and Ranson, 2014; Pritchard, 2018] . As such, in Deptford, the thoughts of parents and carers were echoed by younger 129 130 participants who are aware of the exclusionary and divisive effects of "regeneration" 131 and had linked the presence of arts and culture with that same gentrification: 132 133 "It's important that SMASHfestUK is in Deptford because there's a lot of gentrification and new development. What was a 'bad' area is being sorted out and it's great that 134 135 there are events like this that bring a chance to people who wouldn't usually 136 engage."

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One particular demographic group marginalised by many forms of ISL are Black,
Black heritage and Black mixed-race communities [Archer, 2013; Dawson, 2018]. A
young adult contributor to the festival noted the importance of the event to his

141 community personally; "to get STEM to underprivileged and low-income areas and

142 families is something that is absolutely needed. As someone from a BAME

- 143 background myself, I see the importance of making STEM exciting and creative as
- 144 well as informative as I was often put off and not interested by STEM as a child."

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Figure 3AFigure 3BFigure 3CFigure 3 Intergenerational engagement in community spaces. Figure 3A a young<br/>mother with two children in Gloucester library, Figure 3B engaging a local family<br/>who were out shopping in Neath town centre, Wales, and Figure 3C engaging a<br/>large family group including adult females in a caring capacity.

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### 149 Equity, representation and inclusion

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151 Recurring themes described neighbourhoods in which communities who felt

152 excluded from cultural institutions or higher educational establishments. These

153 communities were empowered by the presence of people representing these

organisations in their own space: "it [SMASHfestUK] gets people excited. It is a

155 gateway to a sense of something different that opens up ideas beyond the everyday.

- Bringing experts in from universities as well as creative arts people is an inspiring and imaginative approach to engaging people in science and empowering them to
- 158 think more about their world."
- 159

There is evidence regarding the importance of role models in STEM engagement [Herrmann *et al.*, 2016; Shin, Levy and London, 2016], so ensuring diversity in staffing of the festival was important and this was noted by audiences. "Seeing different people from different backgrounds coming together for one cause was quite beautiful". Audiences brought absolute clarity to the necessity of this approach:

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"For people of colour, the yardstick [for science and engineering] is very much white
males – so to see women and women of colour in leadership and in engineering
roles here - they are being influenced by that and it is a big confidence boost. In the
UK we are always seen as the minority – 'other than' – and I don't want my children
to feel this...I know how much representation matters in making choices and seeing
yourself in a role"

173 Equitable representation of ethnicity was extremely important, but it was

also important for the building of strong science identities in girls [Steinke,

175 2017], that we had broadly equal representation of women scientists:

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177 "Lots of adults and young people coming together to have fun and learn.

178 And it's free! Affordable activities that have thrilled my daughter throughout

179 her holiday. A local event for friends and family. Inspiring my daughter that

180 science is fun, is artistic and is for girls."

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	Figure 4A Figure 4 Engagement empo and a father and son (Figure Figure 4C shows staff and v London.	Figure 4B owerment featuring e 4B) at events in volunteers at a SM	Figure 4C a mother with 2 children (Fig 4A) Colindale and Deptford, SE London. ASHfestUK event in Woolwich, SE
184 185			
186	Other visitors reported on the	e importance of the	e festival in encouraging
187 188 189	intergenerational learning and rekindling a love of science in adult visitors, who were mostly parents or carers:		
190 191 192 193	"I actually like doing these activities myself, I used to know how to do this – but I forgot – so it is good to learn these skills again. I do actually work with children"		
194 195 196 197 198 199 200 201 202	Intergenerational learning, leaknown to be another effective also sustains progression in lipossible this was fostered an visitorsThey described, "we ta remembered what we had do how "[SMASHfestUK] sparke as looking into qualifications	ading to discussio e way of embeddir learning [Dou <i>et a</i> ad seemed to have alked about it [the one and which our ed many conversat and career routes	ns with family members is ng science in families, and 4, 2019], and so where a positive effect with festival] quite a bit and favourite bits were" and ions amongst usas well ".
203 204 205 206 207	"My son wrote about it in his learned on the day in daily ac events in future activities. He experiment papers so is learn	journal and we bri ctivities. We will re continues to show ning by retelling it	ng up things we heard and fer back to Smashfest v others his science each time"
207 208 209	Personal, community and c	collaborative futu	res
210	For some young adults, the e	experience of SMA	SHfestUK crystallised their intentions
211	to follow a STEM career: "I m	net science expert	s- Seeing what other people do was
212	mind-blowing as I'd never actually met people who work in such scientific fields or		
213	pursue academic careers 'if they can do it - why can't I do it too?". The		

experiences also highlighted to young adults the possible opportunities for youngerparticipants, including siblings:

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"They don't see these sorts of things in the rigid environment of school and they can't
explore these sorts of ideas for free which is important in an area with a lot of poverty
and where kids get limited exposure to opportunities. This has a knock-on effect
because it means as kids progress they can't recognise opportunities or have the
skills to know what to do even when opportunity is facing them – and they are unsure
how to engage."

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224 The collaboration-based approach to the festival also provided the beginnings of a community of practice amongst researchers and practitioners engaging with the co-225 226 design and inclusion principles. One said: "I feel SMASHfestUK has had a direct 227 benefit on me as a local resident as well as a practitioner. It's enormously important 228 that all communities have a place to congregate and moments in the year which lift 229 us out of the ordinary and give us cause to think about who we are as people and as 230 a society". Another reflected upon the effect of SMASHfestUK's approach on their personal practice saying; "Collaborations are useful for creativity as you see other 231 232 people's interpretations and views, so can learn a lot and can develop something 233 even better." In some cases the effect of participation was to change pedagogical 234 practice, with a Senior Lecturer noting: "These events have really underpinned for 235 me the importance of tangible, easily explored examples to motivate and understand engineering problems. Physical manipulation of a problem is a really powerful way of 236 237 fostering engagement, and I'm looking now to apply this principle to the purer ends 238 of the mathematics I teach." But, the importance of the co-design process also 239 conferred a sense of ownership to visitors: "Because they are making or doing things 240 themselves the children have a personal investment with the arts and science 241 because it is tangible - they can take it home".

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243 Using stories and immersion encouraged visitors to create personal narratives, and 244 in doing so, through the process of narrative transportation, they built a positive and 245 sustainable science identity [Green and Brock, 2000; Gallagher, 2011; Keith and 246 Griffiths, 2020] and their responses in evaluation suggest this may be effective. Asked what they had learnt as a result of the experience, our young audiences 247 248 responded, positively: "I AM a scientist!" and "I saved the world!", "Science is 249 Awesome!", and "I am a HERO!" Whilst, adult visitors were more contemplative; "I did the immersive Montserrat volcano experience - listening to the kids reveal their 250 251 volcano stories made me ponder and imagine that I was there." Some ascribed the 252 learning to the story and immersion directly; "I think the immersive aspect was the 253 most important. The kids were constantly engaged and it helped get the message 254 across". At an event in February 2020, which told the story of a novel disease causing a pandemic, one adult said "...almost as weird as real life!" and again, made 255 256 a link to the future of the audience members: "I truly believe that the work 257 SMASHfestUK do...allows children to understand concepts in an engaging manner.

It is the work of organisations such as this that will see young children want to go into
a STEM career whilst still being creative and considerate." And even those who did
not enjoy it themselves, saw some benefits; "I'm not a fan of 'immersive' events - I
find it claustrophobic. But I think my children enjoyed it!"

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The specificity of being immersed in local stories, that felt personal and bespoke, was recognised:

"The activities give them an insight into how they would cope if there was a flood and what could be done...The issue of growing things after a flood, we had a discussion about back at the kid's club, because all of the soil would be flooded – so you could grow some plants just in water – the children were really interested in that and it started a really interesting conversation with them."

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Figure 5AFigure 5BFigure 5CFigure 5 ISL interactive activities with overarching storylines: In Figure5A from SMASHfestUK 2017 "Supervolcano". Figure 5B shows a youngvisitor engaging with planetary scientist Dr Hannah Sargeant inColindale, 2017, and Figure 5C shows a young visitor in Gloucesterlearning how to become an astronaut.

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#### 274 Concluding for the next cycle

- 275 The SMASHfestUK approach is to consider each event an iterative
- 276 prototype, always changing and always improving and always requesting
- 277 feedback,. Future suggestions include "more themes", "even more
- storytelling", "extra activities", "more for under 6's", and "crib sheets...to
- take away" and to "be [available] at home".
- 280
- Having explored the advantages of the SCENE model for engagement
- through live events and festivals, our next iteration of the model will be
- 283 engaging through digital means. The development of SCENE
- 284 (STEAM/Community/Entertainment/Narrative/Enquiry) has interwoven with
- and driven the festival and co-design programme cycle. The headline
- 286 components interdisciplinary/cross-sectoral, "in the community, with the
- 287 community", lead on entertainment, the narrative drives all levels of the
- experience, and the engagement is active and enquiry-based are

289 illuminated through the reflections of the participants in this commentary. 290 The next, digital, iteration will be within a videogame, exploring how these 291 model components and the effect of building positive science identities 292 through narrative transportation might be replicated online and at home. 293 This intends to deepen the relationship with 'narrative transportation', but 294 critically, will continue to embed each player's experience locatively in their 295 own community. Personalised, localised digital engagement offers the 296 potential to reach more communities, for longer, more repeatedly, 297 providing more content, and more experiences than the resource-heavy live experience model, however, issues surrounding digital exclusion bring 298 299 their own addition challenges and these will have to be addressed.

300

301 In summing up, we point to a critical study of exclusion in science

- 302 engagement which ended with a call to arms: "We could commit ourselves
- to a total radical alternative to the types of everyday science learning that
- 304 currently exist. It may be hard to imagine what this could look like...but
- together we can envision and manifest this alternative" [Dawson, 2019].
- 306 We have co-designed with our collaborating communities for six years
- resulting in a set of principles underpinning a new model for inclusive
- 308 engagement, "SCENE" and exploring how we might make SCENE work in
- the digital space is our next step in trying to understand this challenge.
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