

A suite of evaluation resources for Dementia Friendly Communities: Development and guidance for use

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Abstract

Objectives: In the context of a growing number of dementia friendly communities (DFCs) globally, a need remains for robust evaluation, and for tools to capture relevant evidence. This paper reports the development of a suite of evaluation resources for DFCs through a national study in England. **Methods:** Fieldwork took place in six diverse case study sites across England. A mixed methods design was adopted that entailed documentary analysis, focus groups, interviews, observations, and a survey. Participants were people affected by dementia and practice-based stakeholders. A national stakeholder workshop was held to obtain input beyond the research sites. A workshop at the end of the study served to check the resonance of the findings and emerging outputs with stakeholders from the case study DFCs.

Results: The study had three key outputs for the evaluation of DFCs: First, an evaluation framework that highlights thematic areas to be considered in evaluating DFCs. Second, a Theory of Change that presents inputs into a DFC and short, medium and longer term outcomes. Third, a matrix for assessing a DFC's degree of maturity, which enables a sense of the kinds of outcomes a DFC might realistically aspire to. These three outputs form a suite of interlinking and complementary evaluation resources for DFCs.

Conclusions: The study has contributed evidence-based resources for monitoring and evaluation that complement existing frameworks. They can be applied to arrive at a detailed assessment of how well a DFC works for people affected by dementia, and at insights into the underlying factors that can guide future policy and practice.

Keywords

dementia friendly communities, evaluation, monitoring, people affected by dementia, mixed methods

Introduction

In the global context of greater numbers of people living with dementia (Alzheimer Europe, 2019; Prince et al., 2015; World Dementia Council, 2020), dementia friendly communities (DFCs) have become an increasingly visible response. While there is no universally accepted definition of DFCs, they share a concern with ensuring that people affected by dementia (people living with dementia, and carers and supporters) can live well and continue to be active and valued citizens. In England, backed by government policy (Department of Health, 2012, 2015) and an official recognition process (Alzheimer's Society, 2013, 2014-15, 2018; British Standards Institution, 2015; World Dementia Council, 2020), the number of DFCs has grown extensively in recent years (Buckner et al., 2019a). At the time of writing, there were 351 officially recognised DFCs (Dementia Friends, 2020). Community-based dementia friendly initiatives have also expanded across the world (see e.g. Alzheimer's Disease International, 2016, 2017), and dementia friendly activities can be identified in over 90% of OECD (Organisation for Economic Co-operation and Development) countries (OECD, 2018). The development of dementia friendly initiatives globally is being promoted by the World Health Organization (WHO), which has published a practical toolkit to support relevant efforts (WHO, 2021).

As recent international reports illustrate (Alzheimer's Disease International, 2016, 2017; World Dementia Council, 2020), DFCs come in different shapes and sizes. A scoping study by the authors has identified a wide variety of origins, organisational characteristics, and ways of operating among DFCs in England. While the majority are defined by their geographical location, some are

Communities of Interest organised around shared identities, interests and places (e.g. churches, shopping centres, airports, national high street banks). Their activities differ, although for many, raising awareness of dementia is a priority. Many location-based DFCs have their origins in Dementia Action Alliances (Dementia Action Alliance, 2020) – local agencies and businesses working together to raise awareness and promote best practice in dementia care and support.

Robust evaluation and the development of appropriate resources to facilitate monitoring of impact has not kept pace with the proliferation of DFCs. Evaluations of DFCs have often concentrated on the process of becoming a DFC, barriers and facilitators, and perceived benefits. They are largely descriptive, with a focus on numbers of DFC initiatives and levels of participation in activities (Hare & Dean, 2015; Hebert & Scales, 2017; Shannon et al., 2019). Despite notable exceptions (Coyle, 2018; Fleming & Bennett, 2017; Fleming et al., 2017), a need remains for evidence on DFC effectiveness and sustainability, and for tools that can capture such evidence. Evaluation tools need to accommodate the diversity and context-specific nature of DFCs. At the same time, they need to offer categories for assessment and indicators whose relevance is shared across DFCs.

This article is based on a national study in England. The study asked how different types of DFCs enable people affected by dementia to live well, what is needed to sustain them, and how their work can be monitored and evaluated. It was a mixed methods study in three phases: mapping of DFCs in England and an online scoping study of 100 sample DFCs (Phase 1); pilot testing in two DFCs of an existing evaluation tool that had been adapted from a tool for Age-Friendly Cities (Phase 2); application of the evolving evaluation tool in six case study sites (the two pilot DFCs, and two further DFCs) (Phase 3) (Buckner et al., 2019a; Darlington et al., 2020; Woodward et al., 2018).

Reported here is the development of the evaluation tool (later called 'framework'; see below), and of two complementary evaluation resources for DFCs - a Theory of Change and a matrix for assessing DFC maturity. This involved a process of testing and co-production that benefited from the expertise of people affected by dementia and practice-based stakeholders (Phases 2 and 3).

DEMCOM initially drew on an evaluation tool that had its origins in an instrument developed for assessing Age-Friendly Cities, in line with WHO's Age-Friendly Cities initiative (Buckner et al., 2017; Buckner et al., 2019b; WHO, 2007a, 2007b). While age-friendliness and dementia friendliness are related, they are not the same (Buckner, 2017; Turner & Morken, 2016). The Age-Friendly Cities tool had undergone minor modifications to ensure a dementia-specific focus in a small pilot study of a DFC prior to the DEMCOM study (Buckner et al., 2018): The focus of the original Age-Friendly Cities tool on 'older people' and 'age-friendliness' had been replaced by a focus on 'people affected by dementia' and 'dementia friendliness' – as obvious adjustments that could be made before an evidence base for the design of a fully dementia-specific instrument was available. The resulting tool in the pilot study consisted of ten strategic and operational areas or 'domains' - the latter had been identified as areas in which evidence was required for assessing a DFC (Figure 1). While the original Age-Friendly Cities tool also integrated data quality assessment, a scoring scale, and a mechanism for visual representation of findings (see Buckner et al., 2018; Buckner et al., 2019b), the DEMCOM study concentrated on utilising the ten domains only. These were compatible with other frameworks that outline key features and building blocks of DFCs: the importance of involvement of people affected by dementia, and the significance of the environment, key stakeholders, resources and networks to increase awareness, create supportive structures and sustain services (e.g. Alzheimer's Disease International (n.d.); Alzheimer's Society, 2014-15; British Standards Institution, 2015; Crampton et al., 2012; Heward et al., 2017; Imogen Blood & Associates Ltd and Innovations in Dementia, 2017; Lin, 2017; Wisconsin Healthy Brain

Strategic and operational areas (domains) in which evidence is required for assessing a DFC	Definitions (areas of focus in each domain)
Political support	Backing (verbal and/or practical) from key political players locally – e.g. mayor, councillors, political parties
Leadership & governance	Structures & roles for strategic overview & management
Financial & human resources	Commitment of funding, material means, staff, volunteers, investment in staff & volunteers
Involvement of people affected by dementia	Instrumental roles and contributions from people affected by dementia (those living with the condition and their supporters and carers). Includes available structures, nature of structures, nature of contributions, impact of contributions
Priorities based on needs assessment	Initiatives have been prioritised on the basis of a Joint Strategic Needs Assessment and/or other ways of assessing needs
Application of existing frameworks for assessing dementia friendliness	Use by the city of existing guidance, e.g. by Alzheimer's Society, to inform its work on dementia friendliness
Provision	Availability of relevant services and facilities, including consistency (e.g. geographical coverage) and continuity (availability and personnel), and consideration of issues around uptake
Interventions rooted in evidence	Scientific evidence has been consulted and interventions have been based on the available evidence
Co-ordination, collaboration & interlinkages	Partnership working across sectors, co-ordination of relevant activities, and interlinkages between different areas of focus
Monitoring & evaluation	Monitoring and evaluation of ongoing and completed work, including plans for future monitoring and evaluation and allocation of resources. Nature of monitoring and evaluation. Translation of findings into policy & practice

Figure 1. Evaluation tool for DFCs based on an instrument for evaluating Age-Friendly Cities at the outset of the DEMCOM study (Buckner et al., 2018).

Initiative, (n.d).). The ten domains informed data collection in DEMCOM, and provided the basis for the development of evidence-based and co-produced evaluation resources for DFCs.

Methods

Study site selection

The selection of two pilot sites for Phase 2 was informed by the insights from the Phase 1 scoping study. The latter had provided an overview of the diversity of 100 sample DFCs in terms of their histories, populations served, activities, and organisational models. From a shortlist of three of the 100 sample DFCs, which varied on key characteristics and were invited to take part in the study, two welcomed the invitation.

The first pilot site (Site A) was a city with an above average Black and Minority Ethnic population. It had a recently formed Dementia Action Alliance, a cross-sector network of organisations committed to improving the experience of living in the city of people affected by dementia. The DFC initiative worked closely with the Alzheimer's Society. A local dementia centre served as a hub for most of its activities. The second pilot site (Site B) was a city with a culturally diverse population that was geographically distant from the first site. Its DFC had grown out of an established Dementia Action Alliance. The DFC had weak links with the Alzheimer's Society. Its

activities were dispersed across the city and its neighbourhoods. They built on a history of community engagement and activism with older populations.

The six case study sites in Phase 3 included the two pilot sites, plus four geographically defined DFCs from the sample of 100 DFCs in Phase 1 (Sites C-F). The latter were purposively selected to ensure diversity in terms of location (region in England), socio-demographic makeup, underpinning values and motivations, operational approach, and distinctive features (e.g. serving a diverse community). DFCs in London were excluded from the sampling for Phase 3, as the Mayor's Office at the time was co-ordinating cross-borough initiatives to establish the first dementia friendly capital. Out of 33 shortlisted DFCs, 13 responded to an invitation for expressions of interest. Consideration of the opportunities for learning offered by the 13 different DFCs led to a consensus among the research team on five DFCs as potential sites. Renewed contact with the latter resulted in the recruitment of the four sites whose commitment to participating appeared strongest. They included one borough that in turn incorporated a growing number of spatially concentrated DFCs, one city, one large town, and one market town and parish.

Data collection

In Phase 2, the evaluation tool described above was pilot tested in two sites. The aim was to develop it into a DFC-specific evaluation framework. The ten tool domains, together with the findings from Phase 1 on key DFC characteristics, guided data collection.

At this stage, mainly qualitative information was collected through diverse methods (Figure 2), with an emphasis on input from people affected by dementia and practice-based stakeholders. In each site, five working group discussions took place that involved professionals in policy and commissioning roles, voluntary sector workers, staff from local services, representatives of minority groups, volunteers, and people affected by dementia. Participant numbers in the group discussions ranged from two to 16. The discussions focused on the relevance of the ten tool domains, potential data sources, and emerging findings.

Documentary analysis of evidence that was obtained through online searches and local stake-holders was carried out. A total of 23 and 106 documents collected in Sites A and B respectively included health needs assessments, minutes of Dementia Action Alliance meetings, timetables of DFC activities, and evaluation reports of interventions. The substantially higher number of documents in Site B is attributed to proactive information sharing by a key stakeholder there, as well as the site's longer history of working as a DFC.

In Sites A and B, semi-structured interviews with stakeholders in policy and practice were conducted by telephone or face-to-face. The participants included representatives from the public, voluntary and private sectors, as well as self-employed individuals, elected local representatives, and volunteers. The interviews focused on strategic and operational aspects of the DFCs. While interviews with persons living with dementia had not been envisaged for Phase 2, in Site A an opportunity arose, leading to one semi-structured interview on the participant's experience of living in a DFC.

People affected by dementia participated in focus groups in each site. In one instance, a person living with dementia acted as facilitator. Additional evidence was collected through observations, for example, of Dementia Action Alliance meetings.

A national stakeholder workshop was hosted in London at the end of Phase 2 (February 2018). The 39 delegates included people living with dementia (n = 9), carers and supporters (n = 6), policy and practice stakeholders and members of advocacy groups (n = 7), and researchers (n = 17). In

Meth	od	Site A (pilot)	Site B (pilot)	Site C	Site D	Site E	Site F	Total
Working Group discussions (n meetings) Documentary analysis (n documents)		5	5	-	-	-	-	10
		23	106	47	31	70	27	304
Interviews (n participants)	Practice- based stakeholders	11	8	8	8	9	9	53
	People affected by dementia	1	-	1	-	6	1	7
Focus Groups (n participants	Practice- based stakeholders	-	-	8 (1)	8 (1)	7 (1)	-	23 (3)
(n group discussions))	People affected by dementia	14 (2)	3 (1)	8 (2)	16 (2)	12 (1)	6 (1)	59 (9)
Observations (n meetings/ever	nts)	5	9	2	1 (4 day site visit)	3	1	21
Survey (n questionnaires people with dementia)		73	22	9	78	35	23	240

Figure 2. Overview of data collection in Phases 2 and 3.

facilitated group sessions, the participants discussed whether the different tool domains were sufficiently well defined, and what the key criteria for a 'good' DFC were in each domain. Their input informed the next iteration of the evolving evaluation tool.

In Phase 3, the revised tool guided data collection in the six case study sites. Mixed methods were used (Figure 2). DFC activities and meetings were observed in each site, and documentary evidence was collected. Semi-structured interviews with stakeholders in policy and practice were carried out, and in Site E, opportunities for semi-structured interviews with people affected by dementia arose spontaneously. Focus groups with people affected by dementia took place. In Sites C-E, focus groups were run where key stakeholders in policy and practice discussed the findings presented in site-specific interim reports.

A survey of people living with dementia who were not actively involved in the running or planning of the local DFC was conducted in Phase 3 across the six sites. The aim was to gain insights into the reach of the DFCs, and how participants experienced living in a DFC. Questionnaires were distributed in partnership with Local Clinical Research Networks, and through Join Dementia Research, research databases held at memory clinics, and medical practices. In one site, questionnaires were distributed through the Alzheimer's Society. Responses were collected by post or over the phone (Darlington et al., 2020).

Consent was sought from the participants for the interviews and group discussions to be audio-recorded and transcribed. Particular attention was paid to ongoing consent from participants living with dementia (Dewing, 2007). With the exception of one interview, where the participant agreed to notes being taken, consent for audio recording was obtained in all instances.

Data analysis

The qualitative data from Phases 2 and 3 were analysed thematically, supported by the use of NVivo V12 for data management. Data from different sources enabled triangulation. Analysis was guided by the domains of the evolving evaluation tool. A coding tree was created a priori with nodes that matched the domains, and sub-nodes for each domain that allowed for a more refined analysis. As more data became available, the nodes and sub-nodes were revised, and data were coded and recoded iteratively. This in turn shaped the further development of the evaluation tool.

The coding was split between six researchers, and regular cross-checking occurred. Disagreements were discussed and resolved within the team. At an advanced stage of the analytic process, individual researchers were allocated different domains of the evolving evaluation tool for which to prepare a preliminary account of findings. A workshop with all team members was held to discuss coding and interpretation of findings, and implications for the evaluation tool.

The survey data were managed and analysed in SPSS V25. Descriptive statistics were produced. Data from open questions were analysed thematically in line with the above (Darlington et al., 2020).

Stakeholder feedback

At the end of the study, a workshop was held with 30 delegates linked to the case study DFCs. The aim was to check the resonance of the study findings and the usability of the emerging evaluation resources. The participants mainly included professionals and volunteers working in and with the DFCs. While people affected by dementia were also represented, most of the participants in this group were carers and supporters. Only one participant was living with dementia, although several people living with dementia had been invited.

Results

This section demonstrates how the emerging findings have shaped the development of a suite of interlinking evaluation resources for DFCs: an evaluation framework based on the initial evaluation tool, a Theory of Change, and a matrix for assessing DFC maturity (Figure 3).

Evaluation framework

Analysis of the data from the two pilot sites in Phase 2 led to initial revisions to the evaluation tool (see Figure 4). Of the original ten domains, two ('Involvement of people affected by dementia'; 'Monitoring & evaluation') remained unaltered. Three ('Financial & human resources'; 'Provision'; 'Co-ordination, collaboration & interlinkages') were renamed without altering their content substantially, in order to make the domain names more concise and intuitive. Five were merged into two new domains: Political support' became part of 'Leadership and governance', as the emerging evidence had shown the relevance of political support for the strategic direction and way forward for a DFC. 'Priorities based on needs assessment', 'Interventions rooted in evidence' and 'Application of existing frameworks for assessing dementia-friendliness' all were subsumed under a new domain called 'Basis of DFC'. The latter was designed to capture anything that provided a foundation for a DFC's work (e.g. motivations; needs and assets assessments; local priorities; official guidance by the Alzheimer's Society on creating DFCs; scientific evidence) in one single domain.

Analysis of the pilot site data also resulted in the addition of two broader domains that were relevant across the seven redefined and discrete domains of the tool. The first of these 'cross-cutting

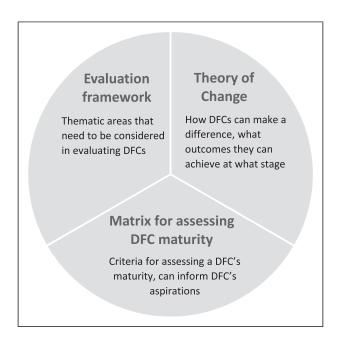


Figure 3. Suite of evaluation resources for DFCs.

	Original (Buckner et al., 2018)	Revised	
Unaltered	Involvement of people affected by dementia	Involvement of people affected by dementia	
Unaitered	Monitoring & evaluation	Monitoring & evaluation	
	Financial & human resources	Resources	
Renamed	Provision	Activities & environments	
	Co-ordination, collaboration & interlinkages	Collaboration	
Merged	Leadership & governance	Landaushin Canananan	
	Political support	Leadership & governance	
	Priorities based on needs assessment		
	Interventions rooted in evidence	Basis of DFC	
	Application of existing frameworks for		
	assessing dementia friendliness		

Figure 4. Initial revisions to the evaluation tool based on analysis of Phase 2 data.

domains' was labelled 'Inequalities'. It was based on evidence that indicated the need to pay attention to potential imbalances within a DFC. For example, the geographical locations of services affected access to DFC activities. In one site, DFC activities predominantly took place in a dedicated venue, which meant they were less accessible to users who lived further afield and/or did not have access to private transport. Also, data from both pilot DFCs suggested a very limited reach of specific groups:

... with [involvement group for people affected by dementia] ... we're getting people, mainly white, mainly that can get on the bus into town, mainly that come to other events, so hear by word of mouth, so we know that we're missing people from BAME communities, ... people that are frail ...

(Site B; practice-based stakeholder)

The second cross-cutting domain, 'Sustainability', was developed on the basis of data that suggested that consistency and continuity regarding different aspects of a DFC was important. For instance, both pilot sites had experienced funding insecurity, and loss of key staff and volunteers. This had interfered with the planning and delivery of DFC activities. The data also highlighted the critical importance of continuity in strategic leadership, and in formalised and practical support from the local authority and other centrally funded local services:

... [the Dementia Action Alliance was] progressing at an incredible rate with [name] who was the council employee heading us up ... it was his part of his role and his job. And then he got another job ... and at that point the council said, 'You're on your own, we're all in favour of it but we won't be putting a council employee into place.'

... the council involvement is the thing that we really are striving to get back.

(Site A; Dementia Action Alliance Vice Chair)

The evaluation tool developed on the basis of Phase 2 findings is presented in Figure 5.

These tool domains broadly resonated with the participants in a national stakeholder workshop. At the same time, there was a consensus among the participants on the need to adjust the crosscutting domains. It was suggested that 'Inequalities' should be renamed 'Equalities', as the use of positive language would be consistent with the message of DFCs and the tone of the study. Also, 'Sustainability' was viewed critically, as it was felt to have connotations of maintaining a status quo. 'Evolution' was advocated as a less restrictive alternative that reflected the dynamic nature of DFCs and was better suited to capturing aspirations and development beyond existing levels of achievement. Workshop participants also argued that 'Involvement of people affected by dementia' needed to be a cross-cutting domain, reflecting the fact that all aspects of a DFC are fundamentally about people affected by dementia and require their contributions. The proposed changes were compatible with the emerging findings, and they resonated with the researchers' understanding of DFCs.

Evidence from the case studies in Phase 3 suggested further modifications to the tool. The researchers noted that data on inclusion could sit comfortably with data relating to equality issues.

Cross-cutti	ng domains
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	Cross-cutting Inequalities

Figure 5. Revised evaluation tool based on Phase 2 findings.

Accordingly, the cross-cutting domain 'Equalities' was renamed 'Equalities and inclusion'. They also agreed that the domain 'Collaboration' was redundant. Relevant evidence tended to be readily accommodated in other domains where it had, in fact, often been coded additionally, particularly in 'Leadership and governance' and 'Activities and environments'. For example, the following statement can be seen as relating to both collaboration and leadership and governance:

The Dementia Steering Group continues to go through from strength to strength with a wide variety of statutory and non statutory organisations being members. The most recent organisation to join is the [regional] Ambulance Service. Other representatives who attend come from housing, health, third sector, CEC partnerships, procurement and Trading Standards amongst many others.

(Site E; documentary evidence)

Finally, it became apparent that while the evaluation tool was strong at identifying processes and structures, it was not capturing outcomes from DFC work in a sufficiently explicit way. This had been observed by the researchers during data collection, and it had also been raised at the stakeholder workshop. The data highlighted that DFCs' work had outcomes that related to the different tool domains. In order to ensure a systematic way of capturing outcomes, it was decided that they needed to be considered explicitly under each of the domains.

The process described has resulted in an evidence-based and co-produced evaluation framework for DFCs (Figure 6a). The areas of focus of each framework domain (Figure 6b), which indicate issues to be considered in evaluating a DFC, have been shaped by the findings from the research sites and supported by the literature. For example, the findings suggested the importance of DFCs simultaneously making mainstream services more inclusive for people living with dementia ('dementia-inclusive'), and providing 'dementia-only' services ('dementia-specific') – a point also raised by Dean et al. (Buckner et al., 2019a; Dean et al., 2015a, 2015b). In addition, the areas of focus for evaluation have been shaped by a consensus among the participants of the national stakeholder workshop on key criteria for a 'good' DFC that evaluation needs to capture. The latter include that i) people affected by dementia are involved in all aspects of the DFC (strategic leadership; operational; evaluation); ii) the DFC provides a range of services and activities that cover all stages of people's dementia journeys; iii) there is strong local political engagement with the DFC; and iv) there is continuity of resources.

Theory of Change

The evaluation framework works in conjunction with a Theory of Change for DFCs that was developed as part of the study. The case study DFCs operated in different contexts, and they were at different stages of development. These factors – local context, and stage of development – played a critical role in shaping the outcomes of their work and their aspirations for the foreseeable future. The insights from the case studies, together with literature that highlights personal- and collective-level outcomes from the work of DFCs (e.g. Alzheimer's Disease International (n.d.); Harding et al., 2019), have informed a Theory of Change that presents inputs into a DFC and short, medium and longer term outcomes (Figure 7/Appendix I).

How inputs were identified is illustrated by the following excerpt from a focus group discussion among stakeholders in Site E, which drew attention to motivations for becoming dementia friendly:

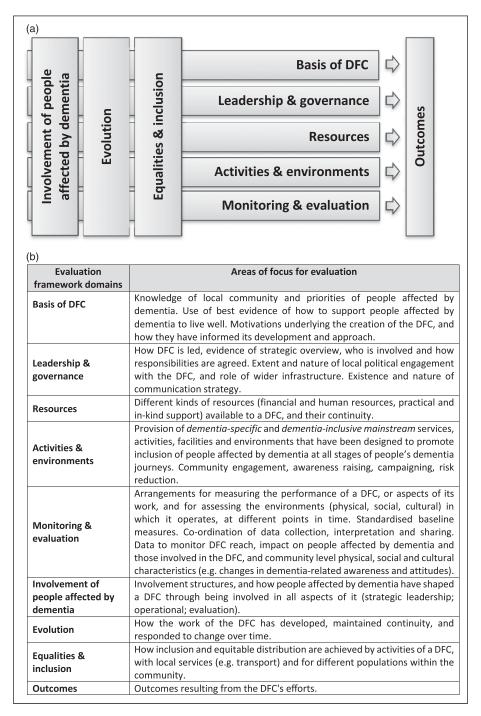


Figure 6. (a) The evaluation framework for DFCs – final iteration. b. Areas of focus of the evaluation framework domains.

P01: ... [the local DFC] calls itself the little town with a big heart and it definitely is, ... so I would say [the motivation is compassion].

P02: ... I have also seen some businesses now starting to appear and they're thinking actually there's a real good business reason for doing this, ... they're interested in their balance sheet ...

(Site E; stakeholder Focus Group)

In the analytic process, 'motivations for becoming dementia friendly' came to be understood as an important consideration in a DFC's development. Captured by the 'Basis of DFC' domain, it can be described as an ingredient, or input, to be reflected in the Theory of Change.

The data also provided evidence of outcomes that are directly attributable to specific interventions or particular aspects of a DFC's work – in this quote, the outcomes are friendship and social connectedness among the members of a social group for people affected by dementia:

... we see a community that are more connected, and whether they're more resilient because of the friendships ... the social interactions. ... [the group for people affected by dementia], that really is a little family now. They organise trips out and different things, that social, the benefits of having somebody to call on, or to understand, or to look after the loved one while they go and do. All of that happens on a daily basis now, and that wasn't there before.

(Site E; practice-based stakeholder)

At the same time, there were outcomes that were linked more broadly to the overall DFC initiative – for instance, enhanced awareness of dementia:

Now when you go around the town now, the dementia friendly signs, they're all over the place. And people who have never been trained will understand if you've got dementia, the carers feel more comfortable taking people out.

(Site D; Focus Group with carers)

The Theory of Change appears to describe linear processes of DFC development. Rather than an accurate reflection of reality, this is a feature of the – necessarily simplified – representation of the inherent complexity of DFCs. The case studies indicated causal mechanisms in the DFCs' evolution that entailed circular processes and feedback loops. For example, as became apparent particularly in Sites A and B, provision of activities for people living with dementia (short-term outcome) led to participants feeling confident and valued (medium-term outcome), which in turn enabled them to voice their views on services and activities and, thus, shape provision (short-term outcome). Investment of resources, particularly in terms of volunteer time (input), preceded the sites' commitment to becoming DFCs (medium-term outcome), which in turn mobilised further volunteer contributions (input).

The Theory of Change indicates what DFCs might achieve at different stages of their journeys. It can thus guide monitoring and evaluation, as well as efforts to identify priorities for policy and practice, while taking account of a DFC's individual circumstances.

Matrix for assessing DFC maturity

The study findings have also enabled the design of a user-friendly resource for DFC (self-)assessment that can complement the evaluation framework and the Theory of Change. This takes the form of a matrix built around the evaluation framework domains (Figure 8/Appendix II). It provides domain-specific criteria to assess the degree of maturity of a DFC. A distinction is made between three levels of DFC maturity – 'early', 'developing' and 'embedding' – that reflect the stages of development observed in the case study DFCs. For example, in the 'Leadership and governance' domain, one of the criteria that would place a DFC in the 'early' category is the presence of a 'local government representative with time allocated to the DFC'. A criterion for the more advanced 'embedding' stage is: 'DFC work embedded in local government plans. DFC shaping local policies'. The matrix was developed on the basis of key characteristics of the case study DFCs, and evidence of the kinds of aspirations and outcomes that these enabled.

Discussion

An issue that continues to emerge in discussions with stakeholders is that DFCs are struggling with assessing their achievements and impact. This is due partly to capacity, but partly also to gaps in knowledge and expertise. From a global perspective, the World Dementia Council has emphasised the need for 'a better understanding of the evidence base for dementia friendly initiatives' (World Dementia Council, 2020, 3). The evidence base will be strengthened by the availability of evaluation resources such as those that have resulted from DEMCOM. While developed in an English context, these resources can be adapted to DFCs beyond England, as appropriate to local contexts. They might be applied in combination with instruments such as the WHO toolkit (WHO, 2021) to support the development of DFCs as well as the building up of a robust evidence base of their impact.

A key output from the study is an evidence-based evaluation framework for DFCs that is based on in-depth case studies and consultation with practice-based stakeholders and people affected by dementia. It identifies strategic and operational areas where monitoring and assessment should focus if DFCs are to work well for people affected by dementia, and if they are to be sustained. The framework has informed, and can be used in conjunction with, further study outputs – a Theory of Change for DFCs, and a matrix for assessing DFC maturity. The combined use of these resources can result in a detailed picture of strengths in a DFC's work and areas for improvement, and insights to guide priority setting and future policy and practice.

The depiction of the matrix (Figure 8/Appendix II) is necessarily simplified and thus obscures that there can be considerable overlap between the criteria for the different degrees of DFC maturity. Also, in the messy reality of a DFC's journey, the criteria do not necessarily follow a linear progression. Progress in a DFC's development can stall and even revert to earlier stages as, for example, key players move on, or resources diminish – a fact illustrated by the experiences of the pilot sites. Nevertheless, delineating clear criteria for degree of DFC maturity is useful for analytic purposes, as well as for demonstrating the principle of assessing DFC maturity, and they can enable an enhanced sense of a DFC's stage of development. Assessing a DFC's level of maturity, and considering this in relation to the Theory of Change, can support well-informed and realistic planning by the DFC. It can help with identifying priorities that are appropriate to the DFC's specific situation. It can enable the DFC to focus on further inputs required, and on outcomes that it can realistically aspire to, as well as timeframes for their delivery. These can be integrated into policy and practice. For example, if a DFC's degree of maturity in the 'Activities & environment' domain is 'early', a realistic short-term outcome would be provision of a (growing) number of dementia-related

activities, including raising awareness of dementia. As the DFC reaches the 'embedding' level, one might reasonably expect enhanced awareness and understanding of dementia in the community as a medium-term outcome.

The Theory of Change, together with the matrix, can provide a detailed understanding of DFC achievement. It can guide measurement of outcomes, which can be assessed against a DFC's level of maturity, thus providing an indication of a DFC's performance in relation to its specific circumstances.

The suite of evaluation resources, and the matrix and Theory of Change in particular, focus attention on the complex and dynamic nature of DFCs. By emphasising sensitivity to a DFC's degree of maturity, they promote a realistic approach in DFC planning, target setting, and monitoring and evaluation that reflects the resources and opportunities available.

Within the study, it was possible to use the matrix to establish the maturity of the six case study DFCs in the various domains, identify missing data, and demonstrate how the involvement of key personnel and organisations informed the development and design of dementia enabling work. At a final workshop, findings were presented for sense checking and discussion to participants from the case study DFCs. The participants appreciated the organisation of findings by domain, which meant that they could focus on strengths of the DFCs, on reasons why certain DFC initiatives had not been sustained, and on the kind of data needed to review progress. More generally, the participants agreed that there was an urgent need for user-friendly evaluation resources for DFCs, and that the current study had made an important contribution to addressing this.

Cross-sector and cross-agency collaboration are widely recognised as critical to the success of DFCs (Alzheimer's Society, 2014-15, 2018; British Standards Institution, 2015; Goodman et al., 2019; Green & Lakey, 2013). This entails co-ordination of provision of services, and of monitoring and evaluation activities. DFCs can draw on the evaluation resources developed through the study to structure information exchange, agree on goals, identify indicators, and co-ordinate data collection and analysis among their members.

A recurring issue in discussions of DFC evaluation is the notion of comparison of DFCs, both within and across countries. The study evaluation resources support *intra-DFC* comparison across time. Their consistent use enables a DFC to track its development and achievements. This is important for learning and informing practice, as well as for attracting resources and ensuring accountability to funders.

Comparison across DFCs is more complex. This is highlighted by WHO with regards to Age-Friendly Communities, which have some similarities to DFCs, (Buckner, 2017; Turner & Morken, 2016). WHO's report on core indicators for Age-Friendly Cities (WHO Centre for Health Development, 2015) draws attention to the fact that the contexts and local conditions of Age-Friendly Cities vary, which affects comparability. Noting that core indicators can facilitate comparison across place, the report argues that '[inter-city] comparisons are something to be aspired [sic]' (WHO Centre for Health Development, 2015, 8) while focusing on intra-city comparison across time. The study findings suggest that while different approaches or DFC models work in different settings, there are key features and mechanisms that are relevant across DFCs. The matrix for assessing DFC maturity is based on such features. It identifies key criteria that have been designed to be sufficiently broad and adaptable to be relevant to differing local contexts. This makes it a tool for inter-DFC comparison. DFCs of similar degrees of maturity in similar contexts can aspire to similar kinds of outcomes. However, further testing of the matrix for the purpose of inter-DFC comparison is needed, particularly beyond the context of England, and there is scope for its further development. By applying a system that allows for inter-DFC comparison, different DFCs can generate comparable data. Such meta-data can enable a better understanding of what it is that makes

DFCs work well at scale. Importantly, comparison across DFCs should not be viewed through a competitive lens, but as a mechanism for mutual learning.

A important motivation for DFCs are what Buswell et al. (Buswell et al., 2017) term 'utilitarian' or pragmatic considerations – the economic benefits to be gained from being responsive to the increase in numbers of people living with dementia. These benefits (e.g. cost savings arising from DFCs enabling people living with dementia to defer the use of social care services and/or to stay in their own homes for longer) remain largely speculative, as relevant evidence is scarce (though see Green & Lakey, 2013). There is also a paucity of evidence on the resources needed to sustain DFCs and allow them to do effective work that leads to different kinds of outcomes. While not designed as an economic study, the study created evidence-based scenarios to assess comprehensive resource requirements as well as the broader 'social value' of DFCs – their social, economic and environmental benefits (Goodman et al., 2019; Public Services (Social Value) Act (2012), 2012; Willis et al., 2018). There has so far been no evidence documenting the actual or potential costeffectiveness, cost benefit, and social value of DFCs. The evaluation resources developed through the study can provide the necessary building blocks for relevant evaluations if used strategically at an early phase to structure monitoring efforts. As DFC activities progress, they can also serve to document resources used and outcomes achieved, and to demonstrate longer term impact if an appropriate data collection structure is in place.

The study had some limitations. These include the under-representation of people affected by dementia from diverse groups, and those in the later stages of living with dementia – although this reflects who was involved in the DFCs studied. This limited the ability to ensure that the evaluation resources developed adequately reflect the experiences and priorities of different groups, opening up opportunities for further research.

While the study has delivered a suite of evaluation resources, scope remains for further testing and refinement of these. Of relevance here is the scale and nature of a DFC. The case study sites have covered DFCs of different sizes and administrative geographies, on a scale from borough at one end to market town and parish at the other. Yet although the research sites have incorporated local neighbourhoods and small rural DFCs, the evaluation resources have not been applied independently at this very local level. Similarly, their applicability to DFCs that are not geographically defined (Communities of Interest) remains as yet untested.

While the Theory of Change is presented in a format that is often used for Logic Models, its evidence-informed nature distinguishes it from the latter and their hypothetical character (Sharp, 2021). It is, however, worth remembering that the evidence base from the case studies is not exhaustive. The Theory of Change could thus benefit from further collection of research and practice evidence that can inform appropriate revisions.

Given the origins of the evaluation framework in a tool designed for Age-Friendly Cities, the question arises whether the suite of evaluation resources for DFCs may in turn inform Age-Friendly City assessment toolkits. In the context of population ageing, work to explore this would be timely.

Conclusion

The continuing growth of DFCs in England and internationally needs to be supported by up-to-date evidence on their effectiveness and on how they can be sustained. This calls for well-designed evaluation resources. The study has contributed evidence-based resources for monitoring and evaluation that complement existing frameworks. They can be applied to arrive at a detailed assessment of how well a DFC works for people affected by dementia, and at insights into the underlying factors that can guide future policy and practice.

There is value in using evaluation resources to track DFCs' progress and identify indicators of impact over time. Both internal monitoring and, ultimately, comparison of outcomes achieved by DFCs of similar degrees of maturity in key areas of work will demonstrate how DFCs are changing the environment and everyday experience of people affected by dementia. Efforts to ensure that the necessary tools and approaches are available must continue with some urgency.

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Ethical approval

The National Research Ethics Committee (REC) London Queen Square provided ethical approval for this study (ref: 17/LO/0996). Ethical approval was also obtained from the University of Hertfordshire Health Sciences Engineering & Technology ECDA (Protocol number: HSK/SF/UH/02728), and the University of Cambridge Ethics Committee for the School of the Humanities and Social Sciences identifiable, F020Where identifiable, references to the authors' previous work have been removed.

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Appendix I

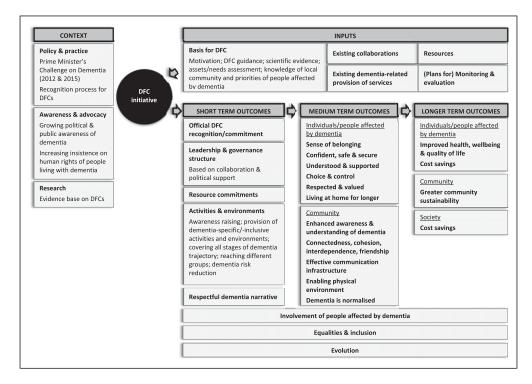


Figure 7. Theory of Change for DFCs.

Appendix 2

	EASIS OF DEC	DFC level of readarity Early	Sections	Inhetine
		Awareness of hew many people tiving with dementia there are in the EFC, and where	Awareness of hew many people living with domentia there are in the DFC, where, and their cultural badground.	Priorities and rights of people affected by
	Knowledge of local community and priorities of people offected by domentia	Linking of DPC's werk with local policies or		Priorities and rights of people affected bidementia are discussed in local policy an action plans for transpart, but environment and service providers been on feedback from local people affected bidementia on priorities and preferences.
Areas of focus for evaluation	demostic Use of best	Linking of DPC's week with local pelisles or community initiatives concerning people affected by dementia and older populations	Sharing of information and resources with local organisations and services about the priorities and needs at people affected by	on feedback from local people affected be dementia on priorities and preferences
evaluation	Use of best evidence of how to support people affected by demorals to live well	Use of evidence on the experience of living with demonstra at different stages of the trajectory.	dementia	DPC is working with local partners to promote awareness of risk reduction
	wol		People affected by dementic are actively	People affected by demonstra are active involved at strategic levels
	Insolvement of	People affected by dementia involved in setting up the DFC; there is a designated person to enable involvement of people affected by dementia.	People affected by dementia are actively supported to lead on DFC priorities and on how DFC effectiveness is defined.	involved at strategic levels Novale affected by dewestia who as
	Involvement of people affected by demostics	affected by demential Orawing on evidence of what people affected by dementia identify as important.	Opportunities for people affected by dementia to review and comment on the DFC's basis	People affected by dementia who a unable to participate in meetings a involved is priority setting
		affected by dementia identify as important.	prcs bass	People affected by dementia are active organisations involved in the DFC
_	Evalution	Articulation of what the DFC will be achieving and its principles, linked to action places	The basis of the DPC is being shaped by monitoring and evaluation	Shared sursative within the SPC of what means to be demontia enabling, all challenges to arganizations and senso shat fell to comply with this
		Awareness of the different groups of people affected by demortio lear, by	Work with different groups of people affected by demonsts to identify their priorities and seeds	that fall to comply with this Addressing the access rights and needs people affected by dementia is integral local organizations, and service plannis and implementation
	Equalities & inclusion	Awareness of the different groups of people affected by demontia log, by cultural background, functional ability) in the EPC, and all specific barriers and enabless for them to be included and		local organisations, and service plannin and implementation
		participate	Public seniors address priorities of different groups of people affected by dementia (a.g. transport, emergency seniors, adult social care)	
		Website sets out DFC basis and alms Awareness among people affected by dementia that they like in a DFC, and knowledge of what it is trained to achieve	Changes to local system and environment, linked to prierities of people effected by domentia	Local policies and practice reflect prioritie of people affected by demonsto
	Outsines	knowledge of what it is trying to achieve	Improvement in diagnostic rates and public owineness of risk factors	Rights of people living with dementia or known and routinely considered across th DFC (e.g. in retail, letters, education)
				People affected by dementia know that it their right to be a part of their communit without stigms or feer
	GOVERNANCE		1	
Areas of facus for evaluation	Local political engagement with DFC	Local government representative with time efforated to the EPC Person(c) identified as OFC lead(c)	BFC working doorly with local government, to link respective priorities and initiatives	DFC work embedded in local government plans. DFC shaping local policies Laudenship of DFC as a resource an reference point for when new services an initiatives are planned sorces the loc community.
		OFC members have farmal and informal	Leadership roles identified in key DFC areas (e.g. everences raising with larget groups, securing funding)	reference point for when new services an initiation, any planted arross the law
	Designated Isodership	OFC receibers have farmed and informal methods of keeping in souch log- recessings, email, social receils)	Established online presence and opportunities for interaction	community
	Communication strategies in place	1	- Approximates reviewed loss	DFC priorities are known acress the community
	Inaplayment of	People Sving with dementia are part of E4C leadership. Their contributions are identifiable.	People living with dementia are supported to lead on key DFC initiatives	involvement in DFC is offered to people living with dementia from diagnost
Cross- cutting issues	Involvement of people affected by demonstra	Identifiable		commanity truckersent in EGC is effected to people sing with dementia from diagnosi Opportunities for people falling with dementia to lead and comment on E- arginaturion of all stages of dementi- trajectory.
inues	Evalution	Core group of leads identified. Terms of reference agreed, with plan for meetings over teeling months.	Strategy and terms of reference are informed and shaped by work of DFC	trajectory totating leadership to ensure representation from different group Succession planning
	- removed		Meetings and information exchange are o regular feature of the DFC	
	Equalities *	OFC has reviewed who should be invited to join the leadership group/DFC	OFC is targeting under-represented or harder-co-much groups to be involved in	DFC is Identifying where organisations an services invalved in the DF
	Equalities & Inclusion	OFC his reviewed who should be invited to join the leadership group/DFC collaboration. Decisions reflect the composition of the local community.	DTC is terpeting under-represented or harder-to-mach groups to be involved in the leader-ship of the DFC (e.g. faith groups, LOBTO, cultural groups).	CFC is identifying where organisations an services involved in the DS involved in the DS inclusive of hardent-reach groups, an supports there is addressing this
		People effected by dementia know who is involved in the DFC in a leading or strategic	Growing numbers of people lising with dementia are known to DFC leads	Continuity of DEC's appeared
	Outcomes	copacity Local government are actively supporting the DEC	DFC leadership includes people living with dementia and reflects composition of local population	and local initiatives and services Priorities and interests of people affects
		Awareness of the DFC among local organisations and services (including MHS)	population SFC plans, activities and echievements are widely known within the SFC	DFC work is integrated with other publi and local militatives and services. Priorities and interests of people affects by dementia and diverse group systematically addressed in DPC's ongoin and planned work.
	RESOURCES			
	Financial and	Dedicated partitine past of DFC sead, funded or valunteer DFC has reviewed its priorities and plans.	Post in the local authority and/or other public services with pretected time to work with the DPC. Funding for additional DPC Co-ordinates:	Sustained funding for partial with DF nomit, and to support demonsta inclusive initiatives across the demonsta trajectory
Areas of focus for evaluation	frantan resources Practical and in- kind support	OFC has reviewed its priorities and plans against available practical and in-bind support	Co-ordinators Access to data management and budgetary of anning support	Majority of local businesses and service linked with the DPC are providing practic
				Majority of local businesses and sensor linked with the DPC are providing practic and in kind support to promote demonst inclusion and support of people offected to demonstra.
	Involvement of people affected by demonstra	People affected by dementia enabled to participate in DFC (expenses paid, transport arranged)	DFC funds post(s) to enable and support people lining with dementia to participate in planning, delivery and review of DFC work	Pold roles for people living with derecell in DPC
Dross- cutting			work An increasing number of OFC members are	DFC work is included in the budgets of th
	Evalution	DFC invests resources in community engagement and activities that promote enumerous of dementia investment of resources to maintain	An increasing number of OFC members are investing resources (e.g. staff or valunteer time) in premoting angagement with people lining with demantal that supports demantal inclusion locally.	DFC work is included in the budgets of th local authority and other statutor services, and local community groups. It included in the portfulio of funded posts.
		communication acress the DPC	DFC is dedicating resources to involving,	
	Equalities & Inclusion	OFC is reviewing how resources (individuals' time, services, etc.) are allocated across the OFC	and promoting inclusion at, under- represented or harder-to-reach groups	done to ensure resource allocation inclusive and equitable, and is involved in relevant action.
		know what work the DPC is doing.	Growing numbers of people fising with dementia actively insolved in DFC	People affected by domentia are coefider of being accepted, having a purpose, as being able to contribute
	1	Local government is actively linking DFC with community services. Awareness of DFC's work among local organizations and services (including MHS)	Consideral engagement across the local community with the needs and priorities or people affected by discordia	Corers are feeling supported
	Outcomes	organisations and services (including Meti)	people affected by denentia SFC work taken up by local public initiatives	Bediction in records of cricis related event for people effected by dementia (e.g missing persons, accidents)
	1	Opportunities for includuals and organizations to become involved in the DFC	OFC work taken up by local public initiatives and services to support inclusion of people living with clementia	missing persons, accidents)
		GPC		1
	ACTIVITIES &	Leveraging in additional funds when gaps in resources evident		
	ACTIVITIES & ENVERONMENTS	Leveraging in additional funds when gaps in resources evident.	OfC working with local government	Individual interactions with people living with departs accomposite.
		Leveraging in additional funds when gaps in resources evident. Local government and MIS activity involved in supporting and pomocing DIC estate(s), and leving (DIC with stellators.	DEC working with local government. Strangues, energency services, business, culture and linkure to enable progate affected by demental to account local	Individual interactions with people livin with dementa accommodate the person dementia clapmon and are guided by th importance of valuing the person
tow-1	Community engagement	Leveraging in additional funds when gaps in resources evident. Local government and MIS activity involved in supporting and pomocing DIC estate(s), and leving (DIC with stellators.	DFC working with local government transport, energiency sentimes, business, cellular and listuar to enable people affected by demental to scoom local services and facilities.	Individual Interactions with people livin with dementia accommodate the person dementia despreads and are guisted by the importance of valuing the person. Majority of local businesses and service here DE's recognition and organize sectors.
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Figure 8. Matrix for assessing DFCs maturity.

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