MAKING MULTISECTORAL COLLABORATION WORK

Improving psychosocial services for vulnerable families with young children: strengthening links between health and social services in Germany

Ilona Renner and colleagues describe cross-sectoral collaborative efforts in Germany to enhance the skills of parents to care for young children

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In Germany, a priority within health and social care for over a decade has been improving parents’ interactions with and care for their children. This was in response to a large study in 2007 of children's health and development¹ that identified 20% of children aged 3 to 17 years were at risk of a mental health disorder.² Furthermore, gaps in the child protection system were becoming obvious, with high profile cases of child neglect leading to public demand for urgent action. Burdened families were slipping through the net of social support and welfare and being driven towards susceptibility to negligent parenting and in worst cases child maltreatment.

Low socioeconomic status is closely linked to poor child health and development outcomes, as well as increased risk of adverse experiences in early childhood.³ For example, in Germany, 26.0% of children living in families of low socioeconomic status show symptoms of mental health problems, compared with 9.7% of children in families with high socioeconomic status.³ Poverty is associated with a broad range of psychosocial burdens, including early parenthood and parental adverse childhood experiences.⁴ These problems might lead to lower parental capabilities, potentially acting as mediators for children’s poorer health and development, as well as higher risk for maltreatment.

Germany’s Early Childhood Intervention (ECI) programme, implemented in 2006, supports the goal of providing equal opportunities for all children to develop their full potential. Subsequent expansion has been driven by the increasing proportion of children living in families receiving social benefits, rising from 12.5% in 2011 to 14.6% in 2017.⁵ Despite overall prosperity and strong economic growth in Germany, the need for ECI is greater than ever.

The German programme (Frühe Hilfen) comprises prevention oriented, voluntary psychosocial services offered to all pregnant women and families with a child aged 0-3 years, with additional support for those in difficult circumstances. This approach is aligned with the evidence based Nurturing Care for Early Childhood Development Framework, launched during the 71st World Health Assembly in May 2018.⁶

One major challenge to improving psychosocial care for families is the “prevention dilemma”⁷; voluntary preventive services are used more by families with a lower level of need than by those who would benefit more. To overcome this challenge cross-sectoral collaboration is needed, especially between health and social services sectors. In Germany the use of social welfare services, and especially child and youth welfare services, is often highly stigmatised, as it can be seen to acknowledge or expose parental deficits. In contrast, healthcare services are highly valued: nearly all children, 98%, are born in a maternity clinic⁸ and 99% attend regular well-child visits in a paediatric practice.⁹ This creates a valuable opportunity to identify and
deal with the psychosocial needs of pregnant women and parents of young children in a sensitive and non-stigmatising way and refer them to adequate support measures in the child and youth welfare sector.

We describe Germany’s ECI programme and implementation between 2006 and 2017, analyse the factors enabling cross-sectoral collaboration to achieve programme goals and objectives, and examine the opportunities and challenges inherent in this collaboration. This case study was developed according to a methods guide produced by WHO Partnership for Maternal, Newborn and Child Health.12 Methods included reviewing available data, interviewing 21 key informants from four municipalities, producing a working paper, and holding a stakeholder workshop to review the working paper and gather additional inputs (see supplement 1 on bmj.com).

Programme description

Germany’s ECI programme established municipal cross-sectoral collaborative networks across the country as well as developing and implementing diverse voluntary psychosocial measures. Although most municipalities provided some preventive measures to support families with young children before the programme, systematic cooperation between the health sector and the child and youth welfare sector was often lacking.13 Following a pilot phase between 2006 and 2011,14 scale-up ran from 2012 to 2017; the federal ECI programme is now operating at scale and in a consolidation phase (fig 1). In January 2018, with the establishment of the Federal Foundation for Early Childhood Intervention, federal funding for ECI became mandatory, with all municipalities eligible to apply for financial support to further develop their ECI networks and measures. Since 2012, the federal government has committed around €51m (£45m; $59m) a year to bolster funding provided by federal states and municipalities.

The National Centre for Early Prevention (NZFH) was established by the Federal Ministry for Family Affairs, Senior Citizens, Women, and Youth in 2007 to steer and provide technical monitoring and support for the ECI programme. NZFH is hosted by the Federal Centre for Health Education and works in collaboration with the German Youth Institute.

Germany’s federalist structure is a diverse cluster of shared and divided legislative power and managerial responsibilities across the national level, 16 federal states, and about 600 municipalities (supplement 2 on bmj.com). The ECI programme therefore requires collaboration at all three administrative levels to ensure that all relevant services provided by the health sector, the social services sector, and others are networked as effectively as possible (box 1).

Box 1: ECI programme stakeholders at national, state, and municipal levels

National level

- Office of the Federal Foundation for Early Childhood Intervention—Manages the ECI Foundation assets and verifies states’ use of provided funding
- National Centre for Early Prevention (NZFH)—Technically supports and monitors the ECI programme and is responsible for quality development, research, publicity, and cooperation
- NZFH advisory board—42 members (in 2018), representing various scientific disciplines and professional institutions and associations, including the national association of municipal authorities

Federal state level

- Political and public stakeholders (eg, coordinating offices for ECI, State Ministry of Health, State Ministry for Family Affairs, and leading municipal associations)
- Representatives and practitioners from relevant disciplines in health and social services
- Representatives from non-governmental organisations, such as welfare work agencies

Municipal level

- Key political and public stakeholders (eg, coordinators for municipal ECI networks, municipal steering committees, child and youth welfare offices, public health departments, local education authorities, job centres, and public childcare centres)
- Representatives and practitioners from relevant disciplines in the health system (eg, resident paediatricians, social paediatricians, paediatricians working in the public health system, paediatric clinics, obstetric clinics, midwives, and resident gynaecologists)
- Representatives and practitioners from relevant disciplines in the social services system (eg, family centres, independent providers of youth welfare services, counsellors for parents with mental illness, drug and addiction counselling), and from ECI programmes operating in the health system
- Representatives from non-governmental organisations (eg, welfare organisations and foundations)

The ECI programme offers services to all pregnant women and families with young children and additional psychosocial support services to families in need, an estimated 13% of young families15 and about 300 000 children aged 0-3 years (box 2). Use of ECI measures is voluntary, and there is no screening to identify families in need as this could contribute to further stigmatisation of the target group. Other programmes and services exist for the relatively small number of cases (1-2% of families) in most need of support—that is, families for which state intervention or control is mandatory, including the possibility that the child is taken into care.

Box 2: Risk inventory to identify families in need of psychosocial support in Germany

The risk inventory is based on a systematic review of national and international long-term developmental studies and systematic reviews.16-18 Four or more of the following risk factors—experienced by 12.9% of German families with children aged 0-3 years—indicates the need for additional support to prevent adverse health outcomes or maltreatment:

- Single parent
- Unplanned pregnancy
- Infant regulatory problems related to sleep, feeding, or crying
- High parental stress
- High parental impulsivity or explosiveness
- Intimate partner violence (current or former)
- Symptoms of parental anxiety or depressive disorder
- Parental adverse childhood experiences
- Frequent conflicts in the current romantic relationship
- Young mother (< 21 years at birth of the child)
- Poverty (family receiving social benefits)

ECI networks in each municipality design and implement services to fit with and respond to specific local circumstances
and community needs, within a country-wide framework that supports the institutionalisation of quality standards, professional training and qualification, and accountability, with the ultimate goal of ensuring fast and effective services for families (box 3; suppl 3 on bmj.com).

Box 3: ECI programme components implemented at municipal level

Cross-sectoral ECI networks
- A network coordinator for each municipality with roles and responsibilities related to building and maintaining the ECI network and expanding and strengthening ECI activities and partnerships
- Network members, made up of stakeholders from the health, social services, and other sectors

Voluntary targeted psychosocial support measures
- Long term home visiting services for families with a child aged 0-3 years mainly by healthcare professionals who have additional qualifications related to psychosocial care (family midwives or nurses). Services provided include confidential interviews to assess family needs, care giver counselling, and help accessing additional professional support. Interdisciplinary collaboration with other institutions and professional groups is an integral part of this work; international evidence supports effectiveness of this service model21
- Volunteers, usually trained and supervised, also provide home visiting services, often to complement those provided by professionals. The services provided vary widely from municipality to municipality. For example, volunteers can care for children, help with household management, or recommend support measures.
- More intensive professional support is offered to families with high needs who are not subject to indicated (non-voluntary) support. For example, the STEEP (Steps Towards Effective and Enjoyable Parenting) programme supports the development of secure infant-parent attachment (a powerful predictor for child social and emotional outcomes) 22-24

Other ECI services
These “pilotage services” include information, early identification of mothers or families in need, counselling, and referral to appropriate support services
- Maternity clinics—Pregnant women with potential psychosocial burdens are offered voluntary assessment by trained professionals (eg, social worker or midwife), who determine families’ need for support. Mothers or families with high needs are offered an in-depth diagnostic interview and joint development of plans for appropriate support measures and referrals. After the family leaves the maternity clinic, these professionals monitor whether the family receives the planned support and remain available for further consultation
- Practice based paediatricians and gynaecologists—Similar strategies are being piloted in some municipalities with social workers offering regular needs assessment and counselling in the practices of paediatricians and gynaecologists, who recommend this service to families they think would benefit from it
- Home visits—“One ‘welcome’ visit after birth, usually by a social worker, to provide information on support measures offered in the municipality

Progress towards implementation objectives
The ECI programme is based on four steps to achieve effective outcomes, which also underpins NZFH’s research framework:
- Cross-sectoral networks and support measures are implemented in all municipalities
- Families in need make use of ECI support measures
- ECI support measures are assessed positively by target group
- ECI support measures are effective at enhancing families’ competencies

During the scale-up phase from January 2013 to December 2017, progress on each of these steps was monitored at the federal level using various methodological approaches (box 4). NZFH collaborated closely with research institutions and universities to ensure methodological standards and critical assessment of research to identify achievements and areas where progress could be accelerated, and to tackle the challenges faced in evaluating complex interventions.21

Box 4: Monitoring progress during 2013-17, selected examples
- Municipal surveys in 2013 and 2015 focused on the structural development and expansion of the ECI programme and collecting data from network coordinators, who are mainly located in the social services sector but some are in public health authorities
- From 2013 to 2015 an observational longitudinal study was conducted to estimate the effectiveness of long term home visits on parental capabilities (n=937)
- A nationwide representative study from 2014 to 2015 involving more than 8000 mothers and fathers with a child aged 0-3 aimed to gain insights into the psychosocial stressors in families in Germany, how often they occur, associated contextual variables, and the extent to which families from different social groups use the professional support currently available, including ECI measures
- In 2015, 1019 mothers, selected from a register based random sample, were interviewed to explore their perceptions of, and satisfaction with, the ECI support provided by (family) midwives and nurses
- In 2016, a research cycle was launched to systematically monitor how maternity clinics (n=385) and paediatricians (n=815) and gynaecologists (data collection ongoing in 2018) with their own practices cooperate with the social services sector. Research questions concern both the intensity and quality of case related cross-sectoral cooperation. Baseline investigations (mixed method design combining quantitative and qualitative data collection) were carried out from 2017 to 2018, and representative surveys will be conducted at regular intervals for trend analyses.

Table 1 shows some examples of the results of these studies in relation to progress towards nationwide implementation. Survey results also pointed to areas in need of improvement. For example, in the 2015 municipal survey, 36.8% of respondents said their municipal ECI network needed to be further developed, and 53% said the ECI home visiting services in their municipality were insufficient (because of a shortage of professionals, especially midwives and nurses).

Study results indicate that families in need are better reached and have higher uptake of the services targeted towards them than of services offered universally. Both groups assess the ECI services positively, which is critical given all use of ECI services is voluntary (box 5).
Box 5: Progress towards ECI’s objectives with examples

Families in need make use of ECI support measures

In a 2014-15 survey among 8063 families with children aged 0-3 years, 13% indicated they received or had received long term home visits by a family midwife or nurse and 1.4% received or had received visits by a volunteer. Families receiving social welfare benefits were more likely to receive long term visits from a family midwife or nurse (17.8% of families receiving social welfare benefits vs 11.7% of families not in receipt of benefits). In contrast, the families receiving social welfare benefits had much lower uptake of universal support measures than those receiving no social welfare payments, (eg, prenatal classes 33.1% vs 67.1%; midwifery care up to 8 weeks after birth 74.0% vs 96.0%; medical services for mothers after birth (courses teaching postpartum exercises, etc) 27.4% vs 64.7%).

Box 6: Strengths, opportunities, and challenges of Germany’s federalised structural context for the ECI programme

In Germany’s decentralised system, federal and municipal authorities have autonomy to design and develop their ECI networks, services, and initiatives, including those specifically related to cross-sectoral collaboration. This flexibility enables a high degree of responsiveness to diverse and dynamic local conditions and needs. It also fosters local stakeholder ownership and empowerment. 33

The ECI programme, however, must try to implement and guarantee coordination, and a degree of standardisation and coherence, both horizontally between the two sectors at each level as well as vertically across the three federal levels. It can be complex and time-consuming to coordinate with and find agreement across the many stakeholders and representative agencies. Furthermore, federal level instruments (eg, guidelines, initiatives) are subsequently interpreted and operationalised at state and then municipal level, which may differ in terms of their legislative and bureaucratic structures, service provisions, and the individual and institutional vested stakeholders.

Concerns related to confidentiality, data protection, and information sharing can be an additional challenge for cross-sectoral collaboration between professionals for families. While the Federal Child Protection Law provided a greater degree of certainty on such issues, separate and changing codes of law continue to pose problems, and the EU-wide General Data Protection Regulation that came into effect in May 2018 may have increased concerns again.

Considerable demographic and socioeconomic diversity across states and municipalities in Germany influence the population needs and the availability of human, financial, and infrastructural capacity and resources to respond. Insufficient human resources in both the health and social services are a widely acknowledged challenge, affecting the ability and willingness of staff and agencies to implement initiatives and to engage in the cross-sectoral networks specifically.

New national structures, new legislation, and increased federal funding

Sustained high level political commitment to ECI since 2006 resulted in the enactment of new legislation and increased public financing, which together enabled the shift from pilot to scale-up phase, including fostering cross-sectoral collaboration.

The government’s decision to establish a new centre with a clear mandate proved instrumental in translating Germany’s aspiring new ECI approach into reality. Working in the areas of quality development, research, advocacy, and cooperation, the NZFH has contributed to increased visibility and prioritisation of ECI in both public and political domains, and to greater formalisation and systematisation of ECI in Germany. The NZFH’s multisectoral, multistakeholder, multilevel advisory board has fostered a stronger integration of science and practice and provided important legitimacy, critical oversight, and steerage. For example, the 2009 definition of ECI described the conceptual breadth and complexity of this newly established field of action, which resulted in heterogeneous psychosocial services being offered and cooperation structures. The subsequent 2014 mission statement provided guidance to all professionals in ECI, establishing common understanding.

From 2007 to 2008, a systematic legal framework began to be established, with federal state laws on child health and welfare. Collaboration across sectors was instituted as a basic structure within these laws in some federal states (eg, Saarland, Schleswig-Holstein, Rhineland Palatinate), Germany’s Federal Child Protection Act (Bundeskinderschutzgesetz) came into force on 1 January 2012. The experiences of professionals and the results of scientific monitoring of the ECI programme pilots were taken into account during its design. The act institutionalised comprehensive approaches for ECI and child protection in Germany, as distinct but related concepts firmly centred on child protection as well as prevention. It created new powers for those working for children’s wellbeing, with a major objective the strengthening of structural networking and cross-sectoral cooperation. The act acknowledged that responsibility for child wellbeing spans widely across family,
state, and society, contributing to a shift in perspective and commitment by many stakeholders. In particular, it helped to close gaps and clarify the roles, responsibilities, and intersections between health and social services sectors, and supported orientation towards families rather than the goals of institutions or sectors.

Implementation of the act led to increased, more stable, funding arrangements. Municipalities can apply for additional resources specifically to fund cross-sectoral activities (e.g., employing ECI network coordinators and staff for pilotage services). Application for funding contains flexibility to allow for adaptation to local needs and contexts (supplement 4).

Although the act’s value is widely acknowledged, challenges remain. The legislation was primarily developed by, and through the lens of, the social services rather than health sector. Some innovative efforts are underway, particularly at state and municipal levels, to reinforce ECI in health legislation, and to strengthen engagement of health authorities. For example, in Dortmund the “Babylotse” scheme (box 8) in maternity clinics is funded by the Berlin Senate Department of Health, Care, and Equality. In the state of North Rhine-Westphalia, research into Babylotsen strengthened engagement of health authorities. For example, in municipal level, to reinforce ECI in health legislation, and to innovative efforts are underway, particularly at state and the lens of, the social services rather than health sector.

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Flexible, cross-sectoral implementation architecture at municipal level

A great strength of the programme is that it allows for flexible implementation at municipal level, anchored around the municipal cross-sectoral networks. This enables innovation to local needs and contexts and a strong sense of local empowerment and ownership. It has also resulted in considerable diversity throughout the country in the implementation and funding of municipal networks (box 7).

Box 7: Examples of diverse implementation and funding at state and municipal levels

Frankfurt am Main, State of Hessen

The ECI network has a declaration specifying the network's structure, partners, and mandate. Collaboration includes information sharing, coordination on structural components, and operational issues, including to address challenges related to issues such as data security. Smaller sub-networks for specific geographical areas in the city facilitate the specific cross-sectoral collaboration needed to ensure that families can access ECI services in their day-to-day social context. The linkages between ECI and child protection services are strengthened through regular meetings between the respective networks for ECI and child protection via a working group on “Children’s rights” in place since 2008. The ECI network in Frankfurt am Main has been able to leverage significant additional funding from well-resourced local charitable foundations that are entrusted to direct finances for population benefit.

Ortenau, Offenburg, State of Baden-Württemberg

A municipality-wide ECI steering group with the most important stakeholders aims to ensure equal standards throughout the municipality. This is complemented by ECI “competence centres” throughout the district which provide direct and coordinated psychosocial care, and sub-municipal “round tables” of relevant actors. Through federal, municipal, and other funding sources, the ECI network in Ortenau directly funds services based on cross-sectoral collaboration (e.g., providing new parents with information about and support to access ECI and other services), which is not the case in all municipalities. A key outcome has been that families in need are identified and provided services much earlier with these structures in place previously support was only offered when it was in fact too late to prevent problems. Local evaluation found that 79% of all 600 families using the ECI system were reached very early (during pregnancy until the first birthday of the child), most of these shortly after birth.

These networks built on local existing conditions, partnerships, and needs. The regular exchange between municipal ECI networks (horizontally) and between municipal, state, and federal level (vertically) creates channels for sharing experiences, innovations, and lessons. This has supported the identification of successful local initiatives, which have then been rolled out in other areas or nationwide (box 8). This “learning by doing” approach was vital in the development of an operational knowledge base for the ECI programme.

Building capacity and generating interprofessional benefits

Capacity building and generating clear benefits for stakeholders have been critical for the implementation of the ECI programme and especially its vision for cross-sectoral collaboration.

The programme has engendered a shared understanding and a sense of common responsibility between stakeholders, and clarified the intersections and boundaries between their respective roles and responsibilities. The definitions and guidelines developed collaboratively by federal, state, and municipal stakeholders have laid out critical milestones in this evolution over the past 11 years. Capacities and skills for cross-sectoral collaboration have also been progressively developed amongst professionals, gradually bringing them out of their separate boxes.23-25 As one network member from Frankfurt am Main said: “We consider ourselves as one unit: as a family, not as an individual service provider.”

We noted increasing appreciation by professionals of the inherent value of cross-sectoral collaboration. A survey in 2016-17 among maternity clinics and paediatricians showed that health professionals felt increasing pressure to care for families with high needs, perceiving this as a severe challenge. Of the 815 paediatricians who responded (23.1% response rate), 77% said they “perceive ECI as a relief for their work,” as it would help them identify and provide optimal support for families beyond medical care.37

ECI professionals recognise this as supporting a shift towards a more holistic and family centred approach, as reflected in initiatives such as the Interprofessional Quality Circles (box 8).
Programme evaluation and stakeholder perspectives show that the success of formal mechanisms for cross-sectoral collaboration also depends on more informal and interpersonal efforts by network members. The formally established and funded municipal network coordinators serve as important boundary spanners, enabling and strengthening cross-sectoral collaboration. Their success depends largely on their informal brokerage and trust building. Likewise, partners view the interpersonal aspects of the municipal cross-sectoral networks as important. Network members also appreciate being able to discuss new or emerging issues in the network meetings and with other members, including outside the formal meetings. These interactions are an important way of sustaining and strengthening engagement between practitioners.

Lessons for the future

Several key lessons for enabling cross-sectoral collaboration can be drawn from our analysis. Firstly, the mutually reinforcing nature of structural and governance frameworks is critically important. Structural frameworks act as the collaboration’s skeleton, but interprofessional and personal relationships make programme objectives achievable by empowering stakeholders and creating shared understanding and commitment, mutual trust, and respect, and thus strong social connectivity.

The importance of the people who drive cross-sectoral collaboration cannot be overstated. These people have essential roles as champions, bridge builders, and boundary spanners. They find creative and innovative ways to shift and cross the sectoral, administrative, professional, and institutional boundaries to respond to the needs of stakeholders and beneficiaries. Given this vital role, ensuring their continued presence, commitment, and active engagement is essential for programme sustainability.

“Joint agreements take their time, but in the end this results in thorough satisfaction of all partners.”

Network member, Dortmund, April 2018

The process of establishing frameworks, together with professional understanding, capacities, and relationships, is often slow, and not a linear process. Different strategies can be used to foster and enhance collaboration across sectors and levels, using a mix of formal mechanisms (eg, working groups and standards), as well as capitalising on and strengthening interprofessional benefits. This can include fostering a working culture where professionals feel comfortable trusting each other and asking for support or advice.

The wider structural context can offer powerful means through which to mandate or foster cross-sectoral collaboration, but also presents challenges. In Germany, legislative mandates and stable funding for cross-sectoral collaboration provided certainty, which increased network influence in municipal contexts and attracted stakeholder commitment. However, the structural challenges of health and social services sectors strongly affect ECI generally, and specifically cross-sectoral collaboration. Human resource constraints in both sectors are especially problematic. Half of ECI network coordinators reported that the number of professionals employed for home visiting services were insufficient to meet municipality needs. The shortage of midwives and nurses in general, and with specialist ECI training, generates strong competition for employment. Some ECI trained professionals move back to standard midwifery or nursing, which is better paid. Workplace pressure for all stakeholders may also act as a disincentive, discouraging people from working cross-sectorally or engaging in the networks.

Germany’s success in involving health professionals in ECI networks seems at least partly due to a convergence between the progressive establishment of the collaborative structures and the increasing and changing population needs. Professionals could therefore see direct benefits of cross-sectoral collaboration for their work. Better ways to incentivise or enable health insurers to support ECI activities, including payment mechanisms for work spanning traditional sectoral boundaries, also need to be identified.

A strength of the ECI model is the high level of municipal autonomy enabling local adaptation. However, municipalities differ considerably in their overall economic, demographic, and social profiles and in their commitment and capacity to support ECI. Better measurement and evaluation of these equity dimensions and expanding the role of beneficiaries as active participants in the programme could further strengthen Germany’s ECI programme.

A challenge for Germany’s ECI framework and many municipalities might be to include more sectors in the multisectoral approach—for example, early childhood education services (eg, nursery and day care) and the labour market sector. This could strengthen service design and responsiveness and enable the programme to better account for and tackle other factors and social determinants relevant to child and family health and wellbeing.

The €51 million federal funding secured by the Federal Child Protection Act in 2012 may not be sufficient. The funding does not take account of inflation and must be distributed to around 600 municipalities. Moreover, the proportion of vulnerable families in need of early psychosocial support is expected to continue to increase. In 2017, the total number of births increased for the fifth consecutive year, and this trend is expected to continue. This dovetails with increased needs from recent high levels of inward migration, including of refugees, many of whom are young and may be traumatised, and other immigrants with low socioeconomic status.

Key messages

- Germany’s early childhood intervention (ECI) programme aims to improve psychosocial care for families, promoting equal opportunities for all children to grow up healthy and safe
- It offers services to all pregnant women and families with a child aged 0-3 years, with additional voluntary psychosocial support services to those families most in need
- Since 2007, building on existing structures at state and municipal level, the national government has supported cross-sectoral ECI networks between health and social services sectors
- Cross-sectoral collaboration has been systematically enhanced through network coordinators, with a mutually reinforcing system of formal structures involving legislation, resourcing, professional capacity building and exchange, and standardisation
- Flexibility ensures programmes can adapt to changing local contexts and fosters ownership

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### Table

#### Table 1 Progress towards implementing cross sectoral networks and ECI measures, in 2015

| Target                                                                 | % of municipalities implemented (n=432) |
|------------------------------------------------------------------------|----------------------------------------|
| ECI network established                                                 | 98.4                                   |
| Maternity clinics are part of the ECI network                          | 76.9                                   |
| Paediatricians with their own practice are part of the ECI network      | 76.4                                   |
| Binding agreement on cross-sectoral collaboration for the ECI network   | 60.0                                   |
| Concept or mission statement on collaboration between network members   | 62.3                                   |
| A document with an overview of all ECI measures available in the municipality | 76.6                                   |
| Long term home visiting services by (mainly) health professionals such as (family) midwives and nurses | 87.9                                   |
| Welcome visits                                                         | 63.2                                   |
| Long term home visiting services by volunteers                          | 61.8                                   |

* 432 municipalities with only one ECI network and funded by the federal initiative. Municipalities with more than one network were excluded because each of their networks may differ. Total number of municipalities in Germany is 579; number that applied for federal ECI funding is 566; number that responded to the survey is 555.
**Figure**

**Programme pilot phase**  
*2009-11*  
*Annual budget: €11m*

**Since 2006:** 10 pilot projects located in all 16 federal states. These projects received additional funding from each federal state.

**2007:** Establishment of NZH as the federal coordinating agency for ECI with a clear mandate to progressively design, pilot, and scale-up the national ECI programme. NZH coordinates scientific monitoring of 10 pilots projects.

**2011:** Discussion, interpretation, and publication of results from pilot projects.*

**Programme scale-up and implementation phase**  
*2012-17*  
*1 January 2012: The Federal Child Protection Act came into effect, which includes the Federal Initiative for Early Childhood Intervention*

*Annual budget: €51m*

**2012-17:** Implementation of the Federal Initiative for Early Childhood Intervention, including establishment of cross-sectoral municipal networks and ECI measures.

- Effectively run to test programme and funding architecture to inform the design of the Federal Foundation for Early Childhood Intervention.
- NZH research framework further developed and evaluation of the progress of ECI fostered by the funding architecture undertaken.

**Programme consolidation phase**  
*2018 onwards*  
*1 January 2018: Establishment of the Federal Foundation for Early Childhood Intervention, representing an evolution into a mandatory national programme under the Federal Child Protection Act*

*Annual budget: €51m provided since 2006 by the Federal Ministry for Family Affairs, Senior Citizens, Women and Youth. Federal state and municipal authorities allocate additional resources for ECI measures*

The Federal Foundation permanently secures annual financial resources and funding architecture dedicated to ensure ECI cross-sectoral networks and measures at the municipal level.

*E.g. see: Renner I, Heimeshoff V. Pilot projects in the German Federal States. Summary of results. Cologne: National Centre for Early Prevention (NZH-F) within the Federal Centre for Health Education; 2011. Available: https://www.fruuehilfen.de/fileadmin/user_upload/frueuehilfen.de/pdf/NZH_Pilotprojekte_ENG_09_11.pdf*

**Fig 1** Timeline for Germany’s ECI programme