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THE REFERENCE SITE COLLABORATIVE NETWORK OF THE EUROPEAN INNOVATION PARTNERSHIP ON ACTIVE AND HEALTHY AGEING

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Abstract

Seventy four Reference Sites of the European Innovation Partnership on Active and Healthy Ageing (EIP on AHA) have been recognised by the European Commission in 2016 for their commitment to excellence in investing and scaling up innovative solutions for active and healthy ageing. The Reference Site Collaborative Network (RSCN) brings together the EIP on AHA Reference Sites awarded by the European Commission, and Candidate Reference Sites into a single forum. The overarching goals are to promote cooperation, share and transfer good practice and solutions in the development and scaling up of health and care strategies, policies and service delivery models, while at the same time supporting the action groups in their work. The RSCN aspires to be recognized by the EU Commission as the principal forum and authority representing all EIP on AHA Reference Sites. The RSCN will contribute to achieve the goals of the EIP on AHA by improving health and care outcomes for citizens across Europe, and the development of sustainable economic growth and the creation of jobs.

Abbreviations

AHA: active and healthy ageing EIP: European Innovation Partnership EIP on AHA: European Innovation Partnership on Active and Healthy Ageing EU: European Union EC: European Commission RS: Reference Site RSCN: Reference Site Collaborative Network

Key words

Active and healthy ageing, European Innovation Partnership on Active and Healthy Ageing, EIP on AHA, DG CONNECT, DG Santé

I. INTRODUCTION

As populations continue to grow older it is important to support the process of ageing well, active and healthy, that is a priority objective ^[1]. The broad concept of active and healthy ageing (AHA) is the process of optimizing opportunities for health and social care to increase healthy life expectancy, healthy life years and quality of life for all people as they age ^[2,3]. AHA allows people to realize their potential for physical, social and mental wellbeing throughout the life course ^[4]. AHA also contributes to the sustainability of our health and social systems, reducing dependency and disability.

To tackle the potential and challenges of ageing in the EU, the EC - within its Innovation Union policy- launched the European Innovation Partnership on Active and Healthy Ageing (EIP on AHA)^[5,6] in 2012. It continues to pursue a triple win for Europe (https://webgate.ec.europa.eu/eipaha/):

- Enabling EU citizens to lead healthy, active and independent lives while ageing.
- Improving the sustainability and efficiency of social and health care systems.
- Boosting and improving the competitiveness of the markets for innovative products and services, responding to the ageing challenge..

The EIP on AHA brings together public and private stakeholders to accelerate the deployment of major innovations by committing them to undertaking supply and demand side measures across sectors and the entire innovation chain. EIP on AHA does not replace existing decision-making processes. However, regional commitments to EIP on AHA can influence and inform policy decisions, support change management strategies and service delivery models, and therefore identify opportunities, and potential partners, under a range of funding programmes for the development of evidence based innovative solutions.

The EIP on AHA is a distinctive opportunity to help deliver on the policy objectives of the Europe 2020 flagships. Its objectives and approach are also in line with the principles and goals of the EU Health Strategy "Together for Health".

II. REFERENCE SITES OF THE EUROPEAN INNOVATION PARTNERSHIP ON ACTIVE AND HEALTHY AGEING

Reference Sites (RS) are "ecosystems which comprise various players (including regional and/or local.

government authorities, cities, hospitals/care organisations, industry, SMEs and/or start-ups, research and innovation organisations including universities and civil society), that jointly implement a comprehensive, innovation-based approach to AHA, and can give evidence and concrete illustrations of the impact of such approaches on the ground" (<u>https://ec.europa.eu/eip/ageing/reference-sites_en</u>).

In 2012, 32 RS were awarded by the EU. Networking is a fundamental part of the EIP on AHA. RSs are pioneering together some of the most advanced innovative solutions to improve the lives of its ageing populations and through the partnership. Through "maturity assessment", referred to the extent to which the local ecosystem for AHA is developed, integrated and established, joint projects [7-^{14,15,16,17,18]}, meetings ^[3,11,19-22], scaling up activities ^[23], (www.whinn.dk and workshops conferences and https://syddansksundhedsinnovationeipaha.wordpress.com /news/ and

http://www.southdenmark.be/media/1701/dacob-

upscaling-workshops-introduktion.pdf) and study-visits (http://www.syddansksundhedsinnovation.dk/service-menu/aktuelt/2016/juli-dec2016/500-gaester-fra-20-

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i-2016/) collaboration has allowed RS to share good practices and build cross border activities in a way that maximizes outcomes and reduces risks associated to investing in innovation to deliver a holistic approach to the achievement of the EIP on AHA objectives.

Revised criteria were introduced in 2016 to define and evaluate the RS (<u>http://ec.europa.eu/research/innovationunion/pdf/active-healthy-ageing/2016_call_rs.pdf</u>). One of the cornerstones within this was the requirement for the RS to build, and demonstrate that cross sectoral coalitions/alliances/partnerships have been implemented at regional level which support the research, development and adoption of new solutions and enable the scaling up and transferability of good practices within their region.

Seventy four RSs have been recognised in 2016 for their commitment to excellence in investing and scaling up innovative digital solutions for AHA (Table 1). Together the 74 RSs have committed to invest over \in 4 billion in the next three years in the deployment and scaling up of digital innovation for AHA. This investment is expected to benefit over 5 million people in the next 3 years. It will also lay the foundations for a scalable EU market for digital innovation services and products meeting the needs of Europe's ageing population and their carers.

Cumulatively, the RS commit to invest in specific main areas of digital innovation:

Health promotion through personalised coaching and citizens empowerment;

Disease prevention through big data and risk stratification; Digitally-enabled platforms for chronic disease management:

Tools for integrating hospital care and community/social care;

Programmes for upgrading tele-health and tele-care

solutions to support independent living and quality of life of the ageing population;

Multidisciplinary education, training and life-long learning innovative programs.

(Table 1. List and contacts of Reference Sites)

III. REFERENCE SITE COLLABORATIVE NETWORK

It is beneficial to contribute to a continuous and constructive dialogue among the RS. Such a dialogue takes place participating in a collaborative network on an equal basis, regardless of their political and administrative structure. The Reference Site Collaborative Network (RSCN) brings together all EIP on AHA regions given RS status by the EC, and Candidate RS into a single forum.

A. Vision

The RSCN aspires to be continually recognised by the EC as the principal forum and authority representing all EIP on AHA RS, and to establish connections with and across the Actions Groups (AG) in order to promote AHA. Our vision is to help our members accelerate the development, deployment and adoption of innovative health and social care solutions, proven AHA delivery models and digital solutions that provide real impact and contribute towards sustainability of services.

B. Strategy

The overarching goals of the RSCN are to promote cooperation, share and transfer good practice in the implementationand scaling up of health and care strategies, policies and service delivery models. More specifically the RSCN will:

- Facilitate members to develop, share and adopt good practice and innovative solutions and technologies at scale;
- Influence and provide strategic input to bodies such as the EC, WHO, building on the knowledge and expertise of our regional members;
- Provide thought leadership through expert working groups;
- Provide a range of advisory and management services to members.

C. Governance

Reference Sites have elected an RSCN Executive Board (EB) composed 8 Strategic Members and 2 Full Members appointed by the General Assembly (GA). All RS are eligible to participate in the GA, and one vote is allocated to each RS when conducting business. The EB has appointed two co- Chairs, two Deputy Vice Chairs and a Treasurer (Table 2).

(Table 2. RSCN Executive Baord)

EB Members are elected for 3 years and may be re-elected for one additional term. No Member may serve more than 2 consecutive terms. The EB meets at least twice per year. The EB determines the strategies and actions of the RSCN. It will identify specific thematic Working Groups aimed at producing common operational projects in support of the EIP on AHA objectives.

The Secretariat of the RSCN will inform RS of new policy and funding developments; co-ordination of twinning and knowledge sharing events; establishing and maintaining links with candidate RS and Regions, the EU institutions and other organisations supporting EIP on AHA. The Secretariat shall be agreed and appointed by the EB. The secretariat is currently based in Montpellier (MACVIA France <u>go.rscn@outlook.com</u>)

D. Membership

There are 5 categories of RSCN members (Table 3).

All RS are full members of the RSCN and one of their representatives will be a voting member at the GA. This representative will sit on the RSCN GA and will act on behalf of all the stakeholder organisations within the RS and ensure their views are represented. They will also be responsible for disseminating communications from the RSCN within their RS.

(Table 3. RSCN Membership categories)

IV. CURRENT ACTIONS

A. Transfer of innovation: Twinning support scheme The 2016 Transfer of Innovation Twinning Support Scheme was a pilot scheme launched by the EC with the support of the ScaleAHA Team (<u>http://www.scaleaha.eu/home.html</u>) to support regional deployment of innovation by partners of the EIP on AHA through the reimbursement of expenses incurred in the transfer of innovative practices. Under this scheme, twenty pairs of RS (Table 4) have been provided with financial support for study visits between experts in the adopting and originator organisations. Twinning project represents an opportunity for both patients and healthcare professionals, cause it facilitate the assessment of impact of digitally enabled innovations in a uniform way.

(Table 4. List of Twinnings)

MThe first results are promising, and the process should be further refined taking into consideration lessons learnt and recommendations by the pilot twinning organisations. The final report (http://www.scaleaha.eu/fileadmin/scaleaha/documents/sc aleaha_d5.4_finalstudyreport.pdf) presents interim results of the twinning activities, which include discussions about barriers and challenges faced, success factors leveraged, plans and strategies on moving forward, and recommendations for the future. It also presented twinning archetypes (Figure 1).

(Figure 1. Twinning archetypes)

The ScaleAHA team also provided a number of recommendations coming from the RS and the twinning

activities for policy makers, and for better organisation of future initiatives such as a second call for transfer of innovation. Other recommendations concerned future calls for RS, funding utilization support and the assessment of impact of digitally enabled innovations in a uniform way.

B. Interactions with the Commission

The RSCN is registered at the EC Transparency Register (ID: 583454420450-89) since January 2016. The Transparency Register has been set up to answer core questions such as what interests are being pursued, by whom and with what budgets. The system is operated jointly by the European Parliament and the EC. The RSCN is a member of the eHealth Stakeholder Group (eHSG), set up by DG SANTE and DG CNECT through a call for expression of interest in January 2016. Currently Andalusia (representing RSCN as its vice-chair) is rapporteur for the working group on Care Continuum within the eHSG. RSCN is responding to public consultations and contributing to the decision-making process at the EC level.

C. Interactions with the CSA

The WE4AHA Coordination and Support Action (CSA is aimed at advancing the effective, large-scale uptake and impact of Digital Innovation for AHA, mobilizing relevant stakeholders to help develop and implement three EU guided activities: Innovation 2 Market, Blueprint on Digital Transformation of Health and Care for the Ageing Society, and EIP on AHA. Hence, the RSCN has a bidirectional connection with the CSA: is supported by the CSA for some specific horizontal activities and ensures that the EU guided activities are developed by taking advantage of the contributions of all partners of the EIP on AHA.

Within the WE4AHA CSA, the RSCN will be responsible for some actions:

- 1. Twinning programs for large scale-up digital solutions;
- 2. Organize at least 6 thematic workshops including:
 - a. Health Tourism Brussels, 27 February 2018): leader: PROMIS,
 - b. POLLAR (CoP 2019),

c. Thematic workshops in collaboration with EUREGHA,

d. A call will be opened each year to obtain topics and locations from RS members. Part of funding will be available for these events;

- 1. 3. Support for event of regional stakeholders to be replicated across the EU;
- 2. 4. Help to launch the next call for RS;
- 3. 5. Identification of the key elements to map the quadruple helix ecosystem;.
- 4. 6. Evaluation of RS progress;
- 5. 7. Release content for dissemination activities.

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D. Interactions with the other EU Organisations

The RSCN recognizes the benefit to be achieved from working closely with other EU networks and partners, particularly those whose aims, and goals overlap with its own. Nick Batey (RSCN) connects the work of the RSCN with that of EUREGHA. The RSCN also works with the ECHAlliance as part of the Coalition of the Willing (CoW).

E. Current RSCN involvement in EC projects

The RSCN is currently (December 2018) involved in three European Projects. VIGOUR, a 3rd Health Programme project, seeks to support care authorities in progressing the transformation of their health and care systems to provide sustainable models for integrated care. DigitalHealthEurope, a H2020 CSA project, will provide comprehensive, centralized support to the digital transformation of health and care (DTHC) priorities of the Digital Single Market. The project will support large-scale deployment of digital solutions for person-centered integrated care. EURIPHI, also a H2020 CSA project, has as its vision to build out around the Most Economic Advantageous Tender (MEAT) Value Based Procurement framework which will be made accessible with adaptions necessary to support the cross-border PPI leading to "MEAT Value Based PPI".

The inclusion of the RSCN in these projects highlights the strategic position of the organisation within the consortiums, acting as a catalyst to foster scaling-up across regions and countries. With the RSCN, the projects have first-hand access not only to regions which are innovation leaders, but also to regions who are less mature in their person-centred integrated care. The RSCN closely support tasks related to identifying best practices by helping to assess the characteristics and the impact of the innovative approach. It will facilitate partnerships with other regions for the updating of existing guidance material, the conduction of twinning activities and wider scaling-up guidance.

The RSCN is aiming at answering to the need for a collaborative approach to facilitate joint reflection and action in sharing and transferring best practices in the development and scaling up of health and care strategies, policies and service delivery models.

IV. SOME EXAMPLES OF RSCN ACHIEVEMENTS

A. Programma Mattone Internazionale Salute

Established in 2013 as a project of the MoH in 2016, Programma Mattone Internazionale Salute (ProMIS) became an institutional structure aimed at creating a permanent dialogue and synergies among Italian Regions, as well as with the EU health policies and systems. ProMIS provides opportunities of information and discussion, organizing workshops and conferences, satisfying the needs jointly expressed by Italian regions. It also disseminates European calls, stimulating the participation of Italian clusters to the consortia and supporting the regions in the coordination for the participation to the calls. The program has developed preparatory activities to support the Regions in their application to become a RS and to submit commitments, explaining the details of the calls, facilitating the access to the useful information in order to prepare the proposal, thus making the Italian Regions collaborate at their best with the other European Regions ^[24]. Among the 74 RSs awarded by the EC in 2016, 11 are Italian Regions that have been assigned one or more stars according to the maturity: Campania, Emilia Romagna, Friuli Venezia Giulia, Lazio, Liguria, Lombardy, Piedmont, Puglia, Tuscany, Veneto and the Autonomous Province of Trento. In order to define a common RS "model" and give Regions a structure to assess the effectiveness/validity of their strategies, Italian Regions agreed to draft a document "Methodology for the Italian Reference Sites: Which organizational structure?" where RS management, methods and tools are described, supported by validation elements of the RS model at European level. Every year the updated version of "EIP-AHA Italy: the Italian experience in the framework of the European Innovation Partnership on Active and Healthy Ageing" is also published, which is the focal document describing Italian RS activity and all the relevant European and national initiatives linked with EIP-AHA.

B. Global Alliance Chronic Respiratory Diseases Regional Network (Turkey)

The Global Alliance Chronic Respiratory Diseases Regional Network is the National Control Program of Turkish MoH on chronic airway disease with 64 collaborating parties which can be used as a model for EIP on AHA RS^[25,26].

C. Coimbra activities of the RSCN

Instituto Pedro Nunes, a member of Ageing@Coimbra reference site, was the local organizer of the Ambient Assisted Living Forum 2017 (2-4 October, 2017)^[27]. The program of the meeting included the workshop "Bridges between Europe - integrating health and social care towards innovation" with representatives of RSCN (Maddalena Illario and João Malva). The RS Ageing@Coimbra has been leader of the innovative activity joining senior citizens and innovators in the Forum. From local Third Age Universities and nursing homes, 120 +65 people have been invited to visit the technological exhibitors in the Forum and to perform the evaluation of the technologies. At the end of this exercise, the most favorite technologies were ranked and a winner was selected. All the exposed technologies received an assessment report, including recommendations provided by the end-users ^[28].

D. Mobile Airways Sentinel network (MASK@Twinning)

The aim of MASK@Twinning is to transfer innovation from an App developed by the MACVIA-France (MASK,

TLR9) [29-35] to other RSs [36]. MASK follows the criteria for Good Practices of the CHRODIS Joint Action [37] and its privacy is in line with the Article 28 EU General Data Protection Regulation (EU-GDPR) ^[38]. The phenotypic characteristics of rhinitis and asthma multimorbidity [39] in adults and the elderly are compared using validated information and communication technology (ICT) tools (i.e. the Allergy Diary and CARAT: Control of Allergic Rhinitis and Asthma Test) in 29 RSs, regions or countries across Europe and beyond. This will improve understanding, assessment of burden, diagnosis and management of rhinitis in the elderly by comparison with an adult population. Specific objectives are to: (i) assess the percentage of adults and elderly who are able to use the Allergy Diary, (ii) study phenotypic characteristics and treatment over a period of one year of rhinitis and asthma multimorbidity at baseline (cross-sectional study) and (iii) follow-up using visual analogue scale (VAS). This part of the study may provide some insight into the differences between the elderly and adults in terms of response to treatment and practice as well as precision medicine ^[40]. Finally (iv) work productivity is examined in adults. The first results of MASK@Twinning are very promising and over 400 patients have been recruited. A pilot study showed that the questionnaire for physicians (EUFOREA-ARIA website, www.euforea.eu/)^[40] is appropriate. This project also allowed MASK to be deployed in the entire country with the national society in France and Germany. Moreover, MASK@Twinning has been endorsed by the European Academy of Allergy and Clinical Immunology (EAACI), the European Respiratory Society (ERS), the International Primary Care Airways Group (IPCRG), two major European patients' organisations (EFA, European Federation of Allergy and Airways Diseases Patients' Associations and ELF, European Lung Foundation) and an international patient's organization (GAAP) [41] . It is WHO Global Alliance against Chronic Respiratory Diseases (GARD) demonstration project. MASK@Twinning centers have been included in a 2018 EIT Health Innovation-by-Design project (POLLAR: Impact of Air Pollution in Asthma and Rhinitis).

E. Participation of RSCN to International Projects

RSCN co-sponsored a WHO-GARD meeting in Brussels on the impact of air pollution in chronic respiratory diseases (10th November, 2018). It is also co-sponsoring an EU Summit held by the Minister of Health of Lithuania on the management of chronic respiratory diseases (Vilnius, 23rd March, 2018) and the consensus meeting on self-management in airways diseases (EIT Health, WHO GARD), December 2018.

V. RSCN CHANGE MANAGEMENT MODEL

The RSCN follows a change management strategy to accomplish its vision and mission. Although theories may seem abstract and impractical, they can help to solve common problems ^[42]. The 3-Step model of the Lewin's approach ^[43] dominated the change management theory

and practice for over 50 years. Although criticized, it is still used ^[44,45] and has great interest in its simplicity ^[46]. The model posits the 3-step sequence of change: unfreezing, moving, and refreezing ^[45,47]. Kotter ^[48] has added to the collective change knowledge to expand upon Lewin's original Theory (Table 5) ^[43].

(Table 5. The Kotter's model of change management Adapted from ^[45])

Many different projects have shown the importance of the EIP on AHA to achieve its goals. It is, however, urgent that the concept of AHA is more widely and rapidly translated into practice. The RSCN is one of the key tools of the EIP on AHA to transfer concepts to practice (Step1).

The 74 RS of the EIP on AHA represent an exceptional group committed to the deployment of AHA in EU regions and beyond. The RSCN represents a guiding coalition lead by its executive board and strategic members (Step2).

The RSCN vision and strategy are clearly defined (Step 3). The change vision is disseminated through a dedicated website and using all means for communication. This paper is an important communication tool. A newsletter will be regularly published (Step 4).

Organizational processes and structures are in place and an ASBL is set and will help to remove the obstacles involved in the process of change. The Regional Events will help to empower others (Step 5).

Short term wins have already been obtained (see chapter 4) and a strategy for next year is in place (Step 6).

The goals of step 7 $^{[48]}$ are to achieve continuous improvement by analysing the success stories individually and improving from those individual experiences. The goals of step 8 $^{[48]}$ are:

1. Discuss the successful stories related to change initiatives widely.

- 2. Ensure that the change becomes an integral part of the practice and is highly visible.
- 3. Ensure that the support of the existing as well as the new leaders continues to extend towards the change.

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4	Arsenàl.IT - Veneto's Research Centre for eHealth Innovation	Italy	Claudio Saccavini	
5	Asturias	Spain	Nerea Eguren	Ana Bernardo Suarèz
6	Aust-Agder County and Vest-Agder County	Norway	Rune Fensli	
7	Baden- Württemberg	Germany	Daniel Buhr	
8	Balearic Islands	Spain	Elena Cabeza	
9	Barcelona Province	Spain	Alejandra Millet Pi-Figueras	
10	Basque Country	Spain	Jon Darpón Sierra	Esteban de Manuel Keenoy
11	Campania	Italy	Maddalena Illario	
12	Catalonia	Spain	Antoni Dedeu Baraldes	
13	Centro	Portugal	Joao Malva	Ana Abrunhosa
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15	City of Badalona	Spain	Jordi Piera Jiménez	
16	City of Helsinki	Finland	Sanna Hartman	Mr. Heikki Kallasvaara Arja Peiponen
17	City of Kraljevo	Serbia	Milan Vukovic	
18	City of Kuopio	Finland	Markku Tervahauta	
19	City of Liverpool	United Kingdom	Dave Horsfield	
20	City of Oulu	Finland	Anne Rännäli- Kontturi	Salla Hirvonen
21	City of Sofia	Bulgaria	Yanko Kuzmanov	Stoicho Katsarov
22	City of Terrassa	Spain	Manel Balcells Diaz	
23	City of Zagreb	Croatia	Antonija Balenović	
24	East of France	France	Valentin Ledroit	
25	Emilia-	Italy	Maria Luisa	Papini Donato

	Romagna		Moro	Brigida Marta
26	Federal	Germany	Peter	<u> </u>
	Ministry for		Kupferschmid	
	Family		1	
	Affairs,			
	Senior			
	Citizens,			
	Women and			
	Youth			
27	Flanders	Belgium	Loes Houthuys	
28	Friuli Venezia	Italy	Arrigo	
	Giulia		Venchiarutti	
29	Galicia	Spain	Susana	
			Fernandez	
			Nocelo	
30	Global	Turkey	Arzu	
	Alliance		Yorgancıoglu	
	Chronic			
	Respiratory			
	Diseases			
	Regional			
21	Network	TT ' 1 TZ' 1	4 1 D''	
31	Greater	United Kingdom	Amanda Risino	Paul Mc Garry
32	Manchester	The Netherlands	Doon Dultio	
32	Healthy	The Netherlands	Daan Bultje	
	Ageing Network			
	Northern			
	Netherlands			
33	Heraklion-	Greece	Panayiotis	
55	Crete	Gleece	Mitsias	
34	Île-de-France	France	Louis Potel	
35	Kiev-Zhitomir	Ukraine	Leonid	
		~	Bogatyrchuk	
36	Kinzigtal	Germany	Dirk Günther	
37	Lazio	Italy	Ursula	
20	.	T . 1	Kirchmayer	
38	Liguria	Italy	Lorenzo	
39	Limburg	Polgium	Bertorello Laura Visconti	
39 40	Limburg Lodz	Belgium Poland	Lucyna A.	
40	Province	rotalia	Ucyna A. Wozniak	
41	Lombardy	Italy	Maurizio	
41	Lonioardy	Italy	Bersani	
42	MACVIA	France	Jean Bousquet	
+4	France		Jean Dousquet	
	Network			
43	Madrid	Spain	Teresa	
13		Spain	Chavarria	
			Giménez	
44	Medical Delta	The Netherlands	Agaath Sluijter	
45	Metropolitan	Portugal	Elísio Costa	
15	Area of Porto	1 Oftugui	Linsio Costa	
	(Porto4Agein			
	g)			
46	Milan	Italy	Maria Romano	
	Metropolitan -	,		

	Bergamo			
	Province			
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48	Norrbotten	Sweden	Lisa Lundgren	
49	North Brabant Province	The Netherlands	Peter Portheine	
50	North East England	United Kingdom	Graham Armitage	
51	North West Coast of England	United Kingdom	Phil Jennings	Eleanor Garnett- Bentley Andrew Cooper
52	Northern Ireland	United Kingdom	Elaine Colgan	
53	Nouvelle- Aquitaine	France	Carole Doucet	
54	Oberbergische r Kreis	Germany	Wolfgang Goetzke	Judith Brehm
55	Olomouc	Czech Republic	Zdenek Gütter	
56	Pays De La Loire	France	Hajjam Jawad	
57	Piedmont	Italy	Valeria Romano	
58	Pirkanmaa	Finland	Anja Tuulonen	
70	Twente	The Netherlands	Miriam Vollenbroek- Hutten	
71	Valencian Community	Spain	Charo Penadés	Javier Gamez
72	Wales	United Kingdom	Nick Batey	
73	West Flanders Province	Belgium	Inge Taillieu	
74	Yorkshire and the Humber	United Kingdom	Stephen Stericker	
75	Zealand	Denmark	Esther Bülow Davidsen	

Table 1. List and contacts of Reference Sites

Co-chairs	J Bousquet (MACVIA-France), M Illario (Campania)
Vice-Chairs	N Batey (Wales), A Carriazo (Andalucia)
Treasurer	J Malva (Ageing@Coimbra)
Scientific adviser	N Guldemond (Delta Medica, NL)
Members	E Colgan (Northern Ireland), J Hajjam (Pays de la Loire), M Perälä-Heape (Oulu, Finland)
Adviser	J Farrell

 Table 2. RSCN Executive Baord

	Membership	Description	Paying fee*	Participation in GA, WG, conference	Voting right at GA	Ex Board member
1	Full member	Full membership is open to all RS approved by the European Commission	No	Yes	Yes	Yes (up to 2)
2	Strategic member	RS that take active and leading roles in the network	In species	Yes	Yes	Yes (but max 10)
3	Honorary	• Individuals distinguished in	No	Yes	No	No

	member	the fields of AHAThey are appointed by the GA upon proposal from the Executive Board				
4	Affiliate member	 Organisations not part of an existing RS but with an interest in pursuing similar goals Only legal entities duly constituted in accordance with the laws of their country of origin, can become an associate member They are appointed by the GA upon proposal from the Executive Board 	In species	Yes	No	No
5	Observer	 Individuals with an interest in AHA who may contribute to the work of the RSCN They are appointed by the GA upon proposal from the Executive Board Individuals working for lobbying groups or for organisations with a commercial purpose will not be accepted as observers. 	No	Can only participate, in an advisory capacity in the GA, the WG and the conferences upon invitation by the Chair.	No	No

Table 3. RSCN Membership categories

	Originator 2016 RS	Adopter(s) 2016 RS name	Contact person
	name		
1	MACVIA-France	1- Andalucia	Jean Bousquet, MACVIA
	Network (FR)	2- Aragon	jean.bousquet@orange.fr
		3- Campania	
		4- Catalonia	
		5- City of Helsinki	
		6- Coimbra	
		7- Heraklion	
		8- Kohln-Bohn Region	
		9- Life Tech Valley	
		10- Liguria	
		11- Lodz	
		12- Medical Delta	
		13- Milan Metropolitan - Bergamo Province	
		14- NHS 24	
		15- Northern Ireland	
		16- Olomouc	
		17- Pays de la Loire	
		18- Porto	
		19- Puglia	
		20- Regione Piemonte	
		21- Regione Toscany	
		22- Region of Southern Denmark	
		23- Turkey (Global Alliance Chronic	
		24- ARIA Sweden	
		25- ARIA Lithuania	

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		26- ARIA Argentina	
		27- ARIA Australia	
		28- ARIA Brazil	
		29- ARIA Mexico	
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3	Northern Ireland	Olomouc (CZ)	Michael Scott, Northern Ireland (UK)
	(UK)		email:
4	Pays de la Loire	Porto Metropolitan Area - Porto4Ageing (PT)	Elísio Costa, Porto Metropolitan Area
	(FR)		emcosta@ff.up.pt
5	Northern Ireland	North West Coast of England (UK)	Michael Scott, Northern Ireland (UK)
-	(UK)	······································	email:
	()		DrMichael.Scott@northerntrust.hscni.net
6	Campania (IT)	Asturias (ES)	Ángel Retamar Arias, Asturias (ES)
Ŭ	Cumpunu (11)		email:
7	Lazio (IT)	Porto Metropolitan Area - Porto4Ageing (PT)	Elísio Costa, Porto Metropolitan Area
'		1 ono Metropontan Area - 1 ono-Agenig (1 1)	emcosta@ff.up.pt
8	Twente (NL)	Campania (IT)	Lex van Velsen
0	I wente (INL)	Campania (11)	email:
0	A. 1.1. (EQ)	$C'_{t} = (7 - 1)$	
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12	Republic of Ireland	Campania (IT)	Rónán O'Caoimh (COLLAGE)
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Table 4. List of Twinnings

Туре	Description	Numb	er Example twinnings
Knowledge exchange & training, digital skills	Focus on knowledge (know-how) exchange and training, a central aspect of the innovatio are the required staff skills		Gastrological approach to mainutrition: Rotterdam - Campania SAT Andalusian Telecare Service: Andalusia – Kraljevo Kaljevo Kaljevo Kaljevo Kaljevo Kaljevo Kaljevo Kaljevo Kaljevo
Adaptation	A mature innovation is being adopted by adjusting it to local conditions (e.g. translation into local language)	6	ADD protection: Campania – Asturias ADD protection: Campania - Olomouc STEPSelect: Northern Ireland – NWCE STEPSelect: Northern Ireland – Olomouc StepSelect: Northern Ireland – Olomouc StepSelect: Northern Ireland – Olomouc StepSelect: Northern Ireland – Olomouc StepSelect: Northern Ireland – Nurvelle-Aquitaine
Partial adoption	Elements or aspects of the innovation (product, service, methodology, strategy) and being implemented using locally available infrastructure	8	VIANUS: Galicia – Zagreb Ving It Up: Scotland – Andalusia Diraya: Andalusia – Zagreb Telerexaldatie.nl: Twente – Campania Living It Up: Scotland – Basque Country Country
Full adoption	The innovation (product, service, methodology, strategy) is being implemented in its full scope by using local infrastructure <i>i.e.</i> the innovation is transferred and manage fully by the adopter	1	✓ ALOHA: Pays de la Loire - Porto
Acquisition	The innovation is being implemented in its fu scope by using the originator's infrastructure (paid for of free of charge), <i>i.e.</i> the originator still has primary ownership, but a license for use is granted to and acquired by the adopte	1	✓ MASK Allergy Diary: MACVIA- France – 10 adopters: Piemonte, Region of Southern Campania, Catalonia, Denmark, GARD Turkey (National Ageing@Combra, Program on Chronic Airway Lodz4Generations, Medical Delta, Diseases)

Figure 1: Twinning archetypes

Lewin	Kotter	
Unfreezing	Step 1: Establish a sense of urgency	
onneezing	Step 2: Create a guiding coalition	
	Step 3: Develop a vision and strategy	
	Step 4: Communicate the change vision	
Moving	Step 5: Empower others to act on the vision	
Moving	Step 6: Generate short-term wins	
	Step 7: Consolidate gains and produce more change	
Refreezing Step 8: Anchor new approaches in the culture and institutiona changes		
Table 5: The Kotter's model of change management - Adapted from		

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