

C S B Consorci Sanitari de Barcelona



Agència de Salut Pública

Concept mapping for the evaluation of public policies. Application to the effects of the Spanish Dependence Act on informal caregivers

María Salvador Piedrafita, Davide Malmusi, Roshanak Mehdipanah, Cristina Pérez-Vázquez Agència de Salut Pública de Barcelona

Background: Informal care and the Spanish Dependence Act (Ley de Dependencia)

In Spain, it is estimated that there are 2 million dependent people¹.

In 80-88% of the time the care they receive is informal, i.e. done by their relatives or friends, who don't receive any payment².

Informal caregivers are usually women, aged 45 to 65, with a low educational level and mostly unemployed 1 .

Informal care has a cost in the quality of life of caregivers^{3,4} and because of its unequal social distribution, it acts as a determinant of health inequalities⁵.

The Act's goal: universal rights and access to services and social care for individuals requiring long-term care. Passed by the Spanish goverment in 2006, it has been a paradigm shift in public services and facilities for dependents and recognition of informal caregivers.

¹Esparza C. Discapacidad y Dependencia en España. Madrid: Informes Portal de Mayores,Nº108; 2011.

²IMSERSO. Libro Blanco. Atención a las personas en situación de dependencia en España. Madrid: Ministerio de Trabajo y Asuntos Sociales e IMSERSO, 2005.
 ³Pinquart M, Sorensen S. Differences between caregivers and noncaregivers in psychological health and physical health: a meta-analysis.Psychol Aging 2003;18:250-267.
 ⁴Schulz R, Sherwood PR. Physical and mental health effects of family caregiving. Am J Nurs 2008 Sep;108(9 Suppl):23-7; quiz 27
 ⁵Larranaga I et al. Impact of informal caregiving on caregivers' health and guality of life: analysis of gender inegualities. Gac Sanit 2008 Sep-Oct;22(5):443-450.









STUDY OVERVIEW



Object of study: The impact of the Dependence Act on informal caregivers' quality of life

Research Questions

•Caregivers' and Primary health care professionals' perceptions towards the mechanisms of how the Dependence Act affects the caregivers' quality of life.

•Assessment of the perceptions of importance, satisfaction and frequency of these mechanisms.

•What the differences between caregivers' and professionals' perceptions are.

Objective of the study: To assess the mechanisms through which the Dependence Act can influence the caregivers' quality of life, according to their own perceptions and those of the Primary Health Care professionals.



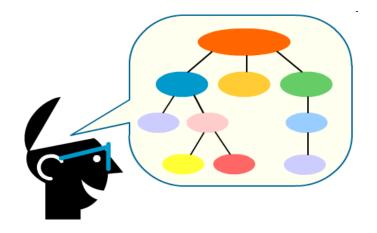




CONCEPT MAPPING



- Non-traditional qualitative approach.
- Developed in the late eighties by William M. K. Trochim as a management tool in organization.
- It was later adapted and modified for public health in the early 2000s.
- Allows for a more objective and reliable analysis of data
- It provides a conceptual framework that depicts how a group or a population perceives a particular situation.



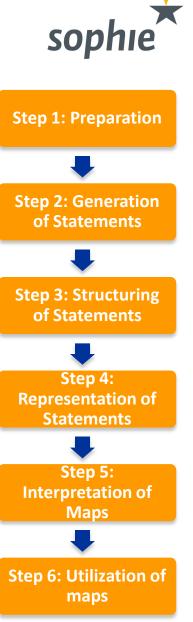
Trochim, W.M.K., Kane, M. (2007) Concept Mapping for Planning and Evaluation. USA: Sage Publications. CRICH Survey Research Unit. (2011) 3 Day Concept Mapping Training Course. Canada: St. Michael's Hospital.

/+B

CONCEPT MAPPING

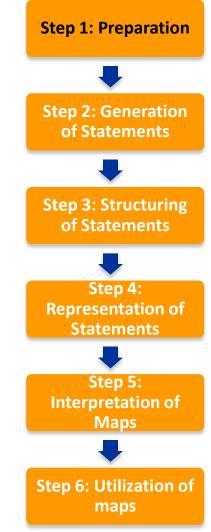
Data Collection and Analysis Procedure:

- Step 1: Development of focus question.
- **Step 2**: Brainstorming session to generate as many statements in relation to the focus question.
- Step 3: Scoring and grouping of statements.
- **Step 4**: Data analysis consisting of three stages, multidimensional scaling, hierarchical cluster analysis and the generation of cluster maps.
- **Step 5**: Further analysis of statements and groups leading to the creation of the concept map.
- **Step 6**: Discussion of maps and their contribution to the focus question.



Step 1: Preparation

sophie



/+B

Define the issue
What are informal caregivers' and Primary Health Care professionals'

perceptions of the Dependence Act effects on the caregivers' well-being?

Develop the focus question

• "A way in which the Dependence Act has affected my quality of life is..."

Develop the rating questions

•For caregivers : importance for their well-being and satisfaction

•For Primary health professionals: importance for the caregivers' well-being and frequency (how often it has happened)

Selection of participants

•Women caregivers of dependent people who have received benefits from the Act

- Primary Health Care professionals
- •Both caregivers and professionals had developed their work before and after the Act was passed.

"Dependence Act". Participants' description



Four groups were created within 2 Primary Health Care Centers in Barcelona.

Caregivers (N=16 women)

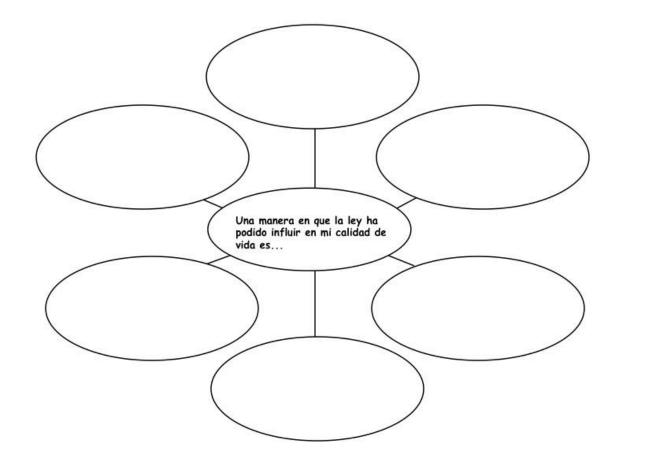
Health Professionals (N=21)

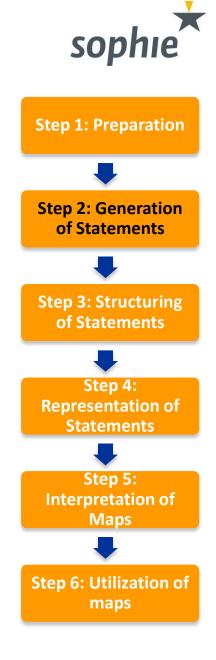
Age (mean)	65,7 years (range: 46-79)						
		Age, mean (range)	42,2 years (28-57)				
Education	31,3% Literate						
	50% Primary school	Sex	76% women				
	18,8% Secondary school						
Employment	12,5%	Profession	57% Doctors				
Time of care			38% Nurses				
	6,1 years (mean, range: 2-15);		5% Social workers				
	81,25% care 24 hours/day	-	40.0 (4.00)				
	93,8% care 7 days/week	Time working, mean	12,6 years (4-30)				
Relationship *	56,3% father/mother	(range)					
	50% couple						
	6,3% Father/mother in law						
	(12,5% more than one person)						
Reciving beniefits from the Act	1,8 years mean (range 0,5-6)						
Benefits**	50% Economic help linked to family care	*There were participants who care for more than one person ** There were dependent persons who receive more than one benefit					
	31,3% Home help						
	25% Economic help linked to the service						
	12,5% Telephone helpline						
	6,3% Day Center						



Step 2: Generation of Statements

- Brainstorming session.
- Participants receive a «brainstorming sheet» in order to start thinking individually and take notes during the session.



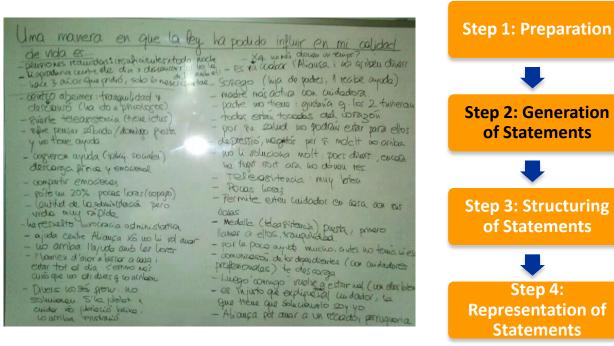




Step 2: Generation of Statements



 One person from the research team moderates the session and another one writes down the ideas on a visible sheet or whiteboard.



 After the session, the draft list is reviewed and converted into a list of statements with unique ideas for the next steps of the process.

	Caregivers	Professionals
Final # of Statements	27	32



Step 5:

Interpretation of Maps

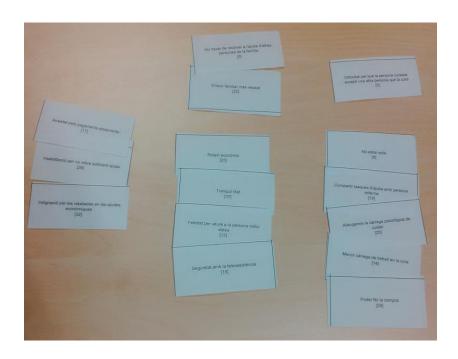
Step 6: Utilization of

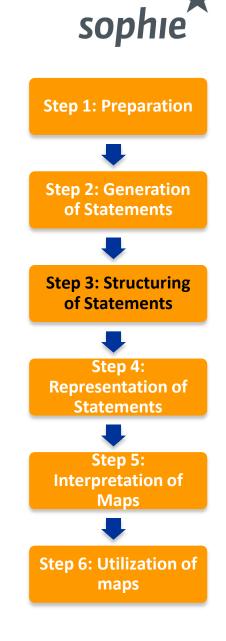
maps

Step 3: Structuring of Statements

1. Sorting statements

- Participants were asked to sort statements into groups that made sense to them based on a common theme.
- No statement could be left alone and participants were encouraged to maintain groups with less than 7 or 8 statements if possible.







Step 3: Structuring of Statements



2. Rating statements

- Caregivers were asked to rate the statements based on importance for their well-being and also their satisfaction.
- Primary Health Professionals were asked to rate the statements based on importance for the caregivers' well-being and also its frequency.

Aquí hay un listado de maneras en las que la Ley de Dependencia ha podido influir su salud y calidad de vida. Por favor, valoren según su opinión cada una de ellas del 1 al 5 siguiendo dos criterios, primero en función de la **importancia que tiene para su salud y calidad de vida y segundo su grado de satisfacción con cada uno de ellos**

	Importante					Satisfacción					
	Poce	o Algo	Importa	nte Basta	nte Muy	Poco	Algo	Satisfe	cha Basta	ante Muy	
1. Poder contratar a otra persona	1	2	3	4	5	1	2	3	4	5	
2. Continuar sintiéndose la principal responsable del cuidado	1	2	3	4	5	1	2	3	4	5	Likert-like scaling system
3. Frustración por los atrasos en el pago	1	2	3	4	5	1	2	3	4	5	
4. Realizar tratamientos de salud propios	1	2	3	4	5	1	2	3	4	5	
5. Poder dejar a la persona dependiente al cuidado de profesionales (personas o centros)	1	2	3	4	5	1	2	3	4	5	
6. Dedicar tiempo al cuidado de una misma	1	2	3	4	5	1	2	3	4	5	

Step 3: Structuring of Statements



Images from a Sorting and Rating session







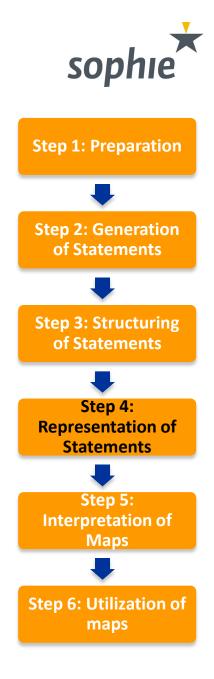
Data analysis phase (Concept Systems Software):

A. Similarity matrix from sort data

- Square symmetric matrix that shows the number of participants who sorted each pair of statements together in accomplishing their sorts.
- B. Multidimensional scaling:
 - Scaling of similarity matrix to locate each statement as a separate point on a two-dimensional (x,y) map (ie. Point map)
- C. Hierarchical cluster analysis:
 - Analysis of multidimensional scaling (x,y) coordinates to partition the points (statements) on this map into groups. (ie. Cluster maps)

D. Pearson Correlation analysis:

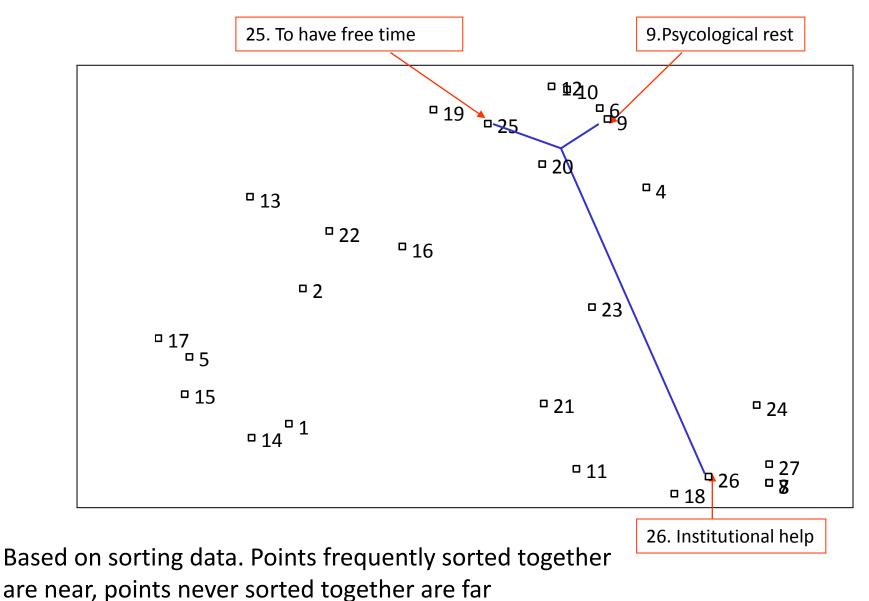
• Bivariate plots, divided into four quadrants using the axes of two rating scales for the project (i.e. Go-zone)







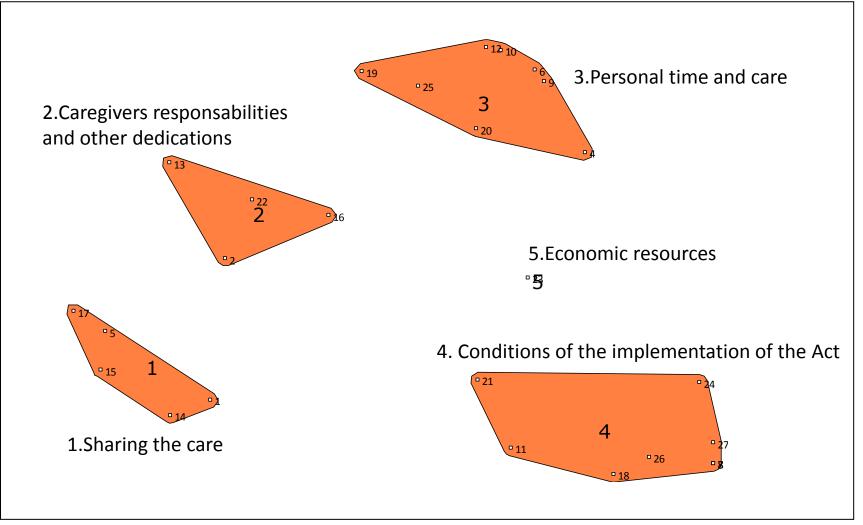
Point map of perceptions towards the Dependence Act by the caregivers



/+B



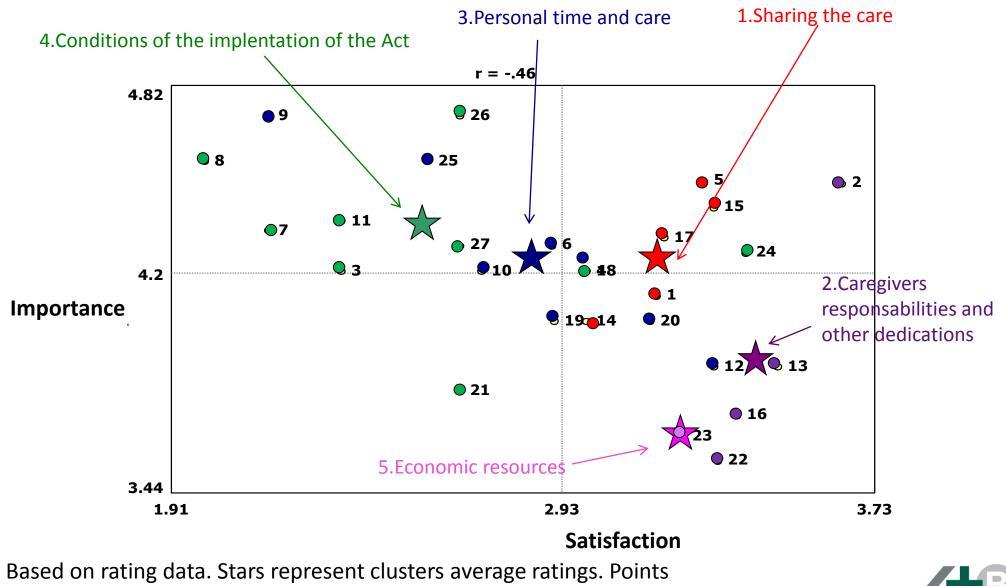
Cluster map of perceptions towards the Dependence Act by the caregivers







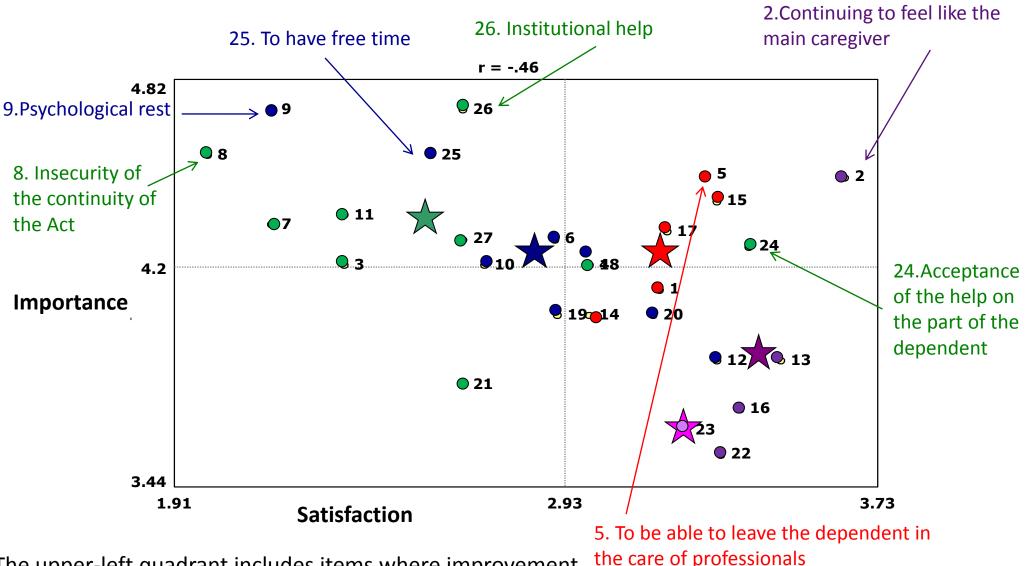
Go-Zone of ratings of statements and clusters by caregivers



represent statements and are coloured by cluster.



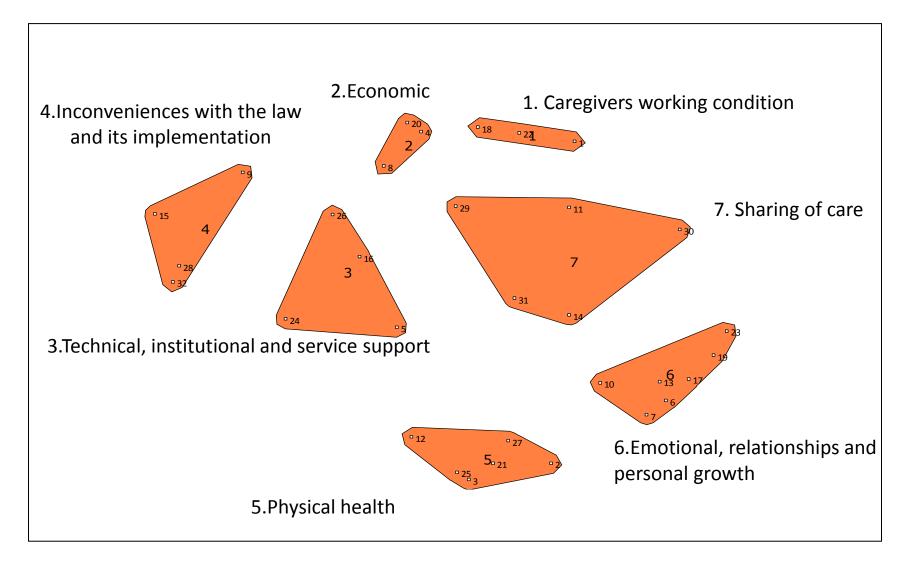
Go-Zone of ratings of statements and clusters by caregivers



The upper-left quadrant includes items where improvement is needed (very important but unsatisfactory).

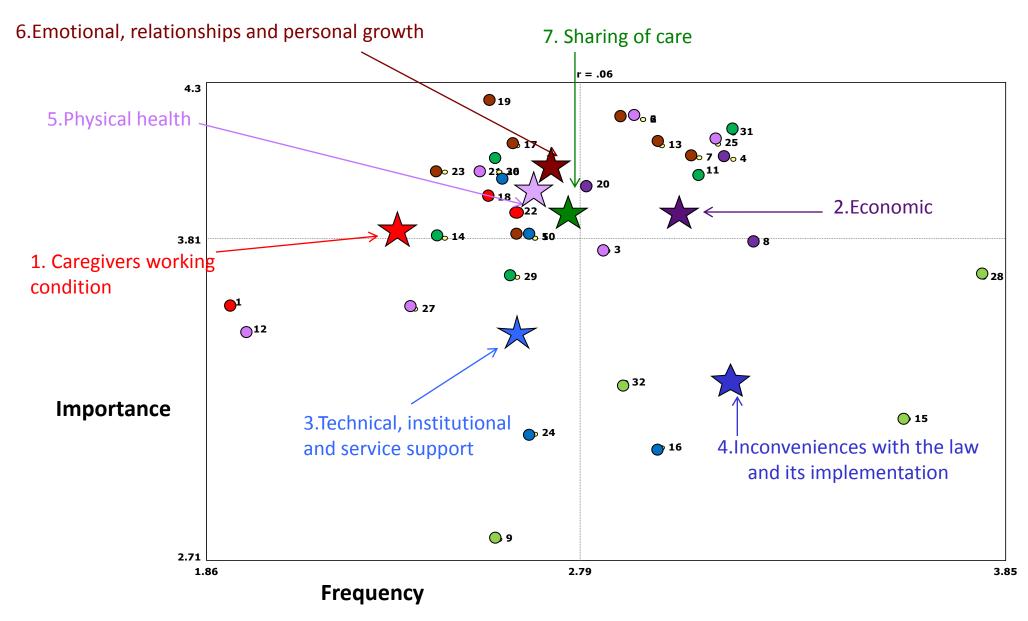


Cluster map of perceptions towards the Dependence Act by primary care professionals



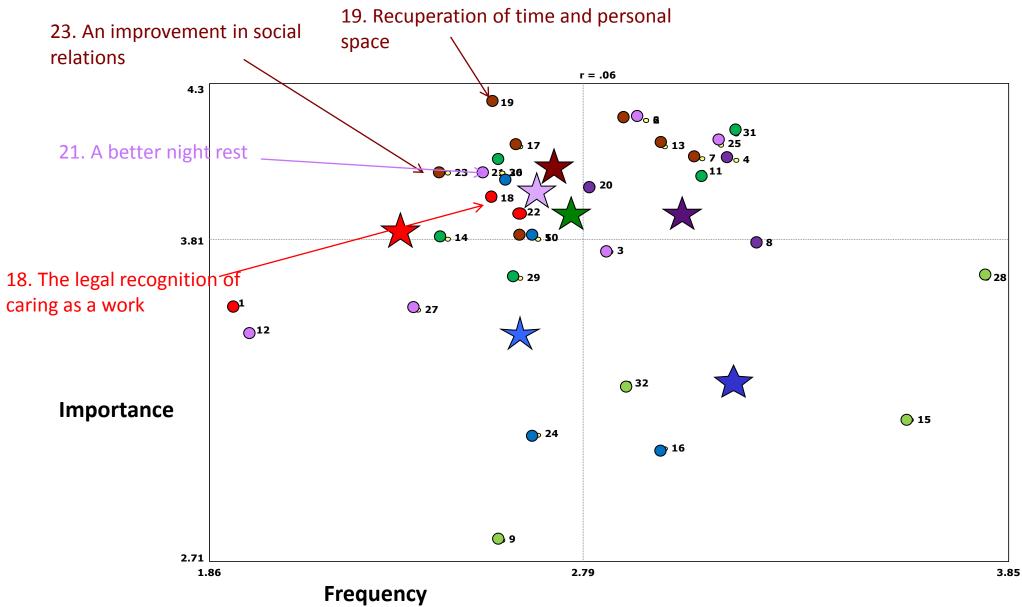


Go-Zone of ratings of statements and clusters by health professionals





Go-Zone of ratings of statements and clusters by health professionals



Step 5&6: Interpretation & Utilization of maps

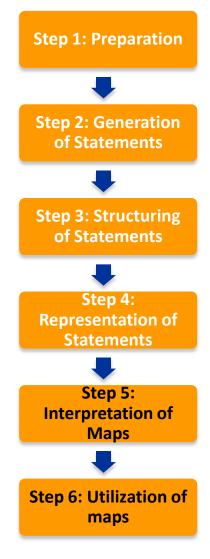
Step 5: Interpretation of maps by participants:

- In a third session, participants are shown the maps.
- Clusters boundaries can be redrawn and names can be assigned to clusters.
- Part of the validation process as the maps are the result of participants' ideas.

Step 6: Utilization of maps:

- Usage of maps for reports and presentation to community, stakeholders and government.
- Go-zone useful for identifying areas for improvement (high importance, low satisfaction/frequency).







Strengths and Limitations



Strengths:

- Usage of quantitative analysis to produce maps that illustrate how a group views a specific topic or issue (and compare groups).
- Easy to interpret and useful for displaying factors that are perceived by participants and their importance relative to the issue at hand.
- Incorporation of participants in the development and interpretation of the research data.
- Relatively fast process and analysis.

Limitations:

- Participation burden three sessions (although not all participants need to participate to all of them).
- Activities can be challenging for individuals with reading difficulties.
- Intensive preparation activity before and between sessions.
- Limited to one focus question.



Some Methodology Tips



- Participant recruitment and retention is easier with an already established group.
- Piloting focus and rating questions is useful. Be clear with definitions.
- Materials for structuring session are time consuming.
- "Recommended" 50-70 statements is too much for community groups.
- Time period between sessions should not exceed 3-4 weeks.
- Incentives are useful when working with specific populations.







C S B Consorci Sanitari de Barcelona



Agència de Salut Pública

For more information: info@sophie-project.eu