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Real-time foresight : preparedness for dynamic innovation networks

Weber, C.R.M.

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Appendices

The list of Appendices consists of six parts, viz. Appendix A to F.

Three Appendices are further subdivided.

Below we list the Appendices together with their subdivision (if applicable).

- Appendix A1: CIT questionnaire
- Appendix A2: Complementing central questions
- Appendix B: List of data sources
- Appendix C1: List of complete CIs in CI code-families
- Appendix C2: CI-chart 2 Keniparam
- Appendix C3: CI-chart 3 Kanni
- Appendix D: Codebook
- Appendix E: List of code families of the codes actor (ACT)
and critical incident (CI)
- Appendix F1: Cross-tabulation of CIs and LNGOs/DINs in Ayam
- Appendix F2: Cross-tabulation of CIs and LNGOs/DINs
in Keniparam
- Appendix F3: Cross-tabulation of CIs and LNGOs/DINs in Kanni

Appendix A1: CIT questionnaire

Interview outline for narrative interviews

1. Recording permission
2. Remembering Fukushima 2011 – which memories come up related to disaster management in Japan/in Germany/in India
3. Remembering Tsunami 2004 and disaster management of the NGO
4. Reading aloud the introduction
5. Pen and paper offer to scribble and visualize thoughts

Introduction

When disasters hit communities, a large number of people and organisations become active in disaster management. Your organisation became active after Tsunami 2004 hit Tamil Nadu. Activities of response and recovery were a long dynamic process. Most activities related to the Tsunami are finished now, but some might continue, even today.

We are asking you to think back to the disaster and to the ad hoc actions taken in the beginning, then in the following weeks, months, and years. Much new collaboration with old and new partners was started in your organisation.

1. Which most relevant events in real-time disaster management, beginning with the Tsunami itself, do you remember, and

2. Which events changed the plans and ongoing disaster management of your organisation?

Please take your time before you answer. Try to remind slowly the months and years of your collaboration with different partners, and the disruptions by supportive or difficult things. Please use the timeline below to make notes.

Disaster



Dec 2004

Appendix A2: Complementing central questions

Single Incidents

Before - Help me to understand what it was like to do disaster management in this moment? What were the concerns of your organisation at the time?

Do you recall special events preceding the incident?

During - Who reacted to this critical incident?

What did others do? What was important at that time? Why?

How could it be communicated? What questions of your own organisation do you remember, and which ones from partners?

How were you informed? Did most people hear it that way?

Did you feel well informed when the incident happened?

How did your organisation react (alone – with other organisations)?

Who decided?

What kind of resources was needed?

After – what was changed by this incident?

How did the network of your organisation change after this incident?

Did the incident change disaster management inside your network?

Did the incident change disaster management outside your network?

Organisation

When did your organisation start, what were and are its main activity fields?

In how many places did and does your organisation operate?

How are decisions made in your organisation (central, decentral)?

How is information spread usually within your organisation (channels, events, technical tools)?

Why did your organisation engage in disaster management after Tsunami 2004?

What other fields is your organisation working on?

What prepared your organisation for disaster management?

What is important to your organisation?

Partners

Who have been the partners of your organisation in disaster management?

How did you find and relate to them?

Did their number change over time?

Which partners are most important to your organisation?

Is your organisation looking for new partners?

How does your organisation communicate with partners (priorities, channels, events)?

Are there reasons for your organisation to say “No” to a partnership?

What are, in your opinion, differences between local and international partners regarding information/decision making/technical standards/routines/expectations/activities?

Innovation

In disaster management and reconstruction after Tsunami 2004, which things and processes were considered new by your organisation? How were they brought up?

Which things and processes were considered new by your partners?

If you think of innovation, did it come from organisational partners? From own activities? Or, from external actors?

Did you see any health care processes or products for the first time, in disaster management?

Are there, in your opinion, technical innovations related to disaster management after Tsunami 2004?

Are there social innovations related to the disaster and recovery process?

Competition

Within a multitude of actors, at which points will competition grow?

Did your organisation come into competitive situations with other actors?

How were the situations solved?

What is a typical resource, or thing, or place that in response to competition did arise?

Communication and coordination

In which events or at what calendar times did your organisation take part?

What did your organisation do to coordinate activities with partners?

Have there been special meetings for coordination?

Have you been able to decide on your own strategies in recovery?

At which points did your organisation face problems in coordination with other actors?

What was the tool or rule to solve coordination problems?

In the course of disaster response, have new members been included into your network?

Has ICT played a role in response activities after Tsunami 2004?

Where was it used?

Did your organisation miss more communication with some partners at some times?

When are expectations communicated between partners - in the very beginning of cooperation or at special events?

Issue rising

How did your organisation raise issues in the project network?

What issues have been raised?

What issues did your partners raise?

What issues have been left behind in disaster management? Why?

Which techniques helped in issue rising?

Which elements from “outside” raised issues for disaster management?

How were interorganisational issues tackled?

Visibility and media

How did your organisation find right partners?

What did your organisation do to be visible?

Who should see your organisations activities?

Who should see your partners' activities?

What kinds of things were used to make organisations visible?

What have been problems in making organisations and activities visible?

What kind of media was involved? At which occasion?

Has media involvement been useful or harmful to your organisation/ your partners

What media channels is your organisation using?

Were these already used before Tsunami response activities?

Appendix B: List of data sources

	DIN 1	DIN 2	DIN 3
Primary Data			
Interview local NGO	X	X	X
Interview transnational NGO	X	X	X
Interview intermediary NGO	X	X	X
Interview donor NGO	X	X	
Interview governmental actor		X	X
Participant observation	X	X	X
Control Case data: Fukushima 2011 – Hayan 2014	X		
Secondary Data			
Annual Reports Local NGO	X	X	X
Governmental Documents	X	X	X
Sectorwise NGO list	X		
Evaluation Report	X	X	X
Project contract	X	X	X
Project fotobook ⁶⁷			X
Control case data: Fukushima 2011 – Hayan 2014	X		
Additional data on Tsunami 2004			
Newspaper clippings THE HINDU 2005-2006	X		
Tsunami evaluation reports	X		
Governmental disaster act	X		
Magazine articles on disaster management in global relief 2010-2015	X		
Global risk reports, Hyogo framework of action	X		

⁶⁷ Photographies by Sutera, P. 2007. *Die Kinder des Tsunami*.

Appendix C1: List of complete CIs in CI code families

Code-Family	N=39	Code
CI conflict	N=5	CI child trafficking CI doubling self-help groups CI legal barriers CI opposition to government CI skilled labor fluctuation
CI netdyn	N=14	CI competition CI contact overload pressure CI contract CI cooperation CI cooperation need assessment CI decision making CI different goals in reconstruction CI distribution CI donor travel CI lack of coordination CI lack of information CI local people disaccord CI new partner CI punctdirdis
CI psysoc	N=4	CI fear of sea CI medicare CI money spoiling self reliance CI visibility
CI resource	N=6	CI duplication CI lack of management capacity CI lack of resources CI money overload CI boat repair CI rising market prizes
CI success	N=3	CI innovative action CI solution CI LFT workshop
CI temp	N=7	CI ending relief action CI NGO Influx CI starting relief action CI starting workshop CI time pressure housing delay CI urgent CI inauguration

Appendix C2: CI-chart Keniparam

12 actors N=166	2004 Disaster	2005	2006
Local NGO	CI competition CI lack of management capacity CI starting relief action CI cooperation CI lack of resources	CI lack of information CI lack of management capacity CI contract CI local people disaccord CINGO Influx CI competition CI distribution CI solution	CI contract CI contact overload pt. CI local people disaccord CI competition CI money spoiling self reliance CI lack of management capacity CI rising market prices
Transnational NGO 1	CI new partner CI cooperation need assessment CI competition	CI competition CINGO Influx CI lack of resources CI new partner CI punctdirdis	CI lack of information CI competition CI distribution
Transnational NGO 2	CI cooperation need assessment CI competition	CI new partner CI contract CI cooperation need assessment CI duplication CI different goals in reconstruction	CI skilled labor fluctuation CI opposition to government CI local people disaccord
TNGO 3		CI new partner CI money overload	CI punctdirdis
Intermediary NGO	CI cooperation need assessment	CI new partner CI punctdirdis CI donor travel CI distribution CI lack of information CI fear of sea	CI lack of information CI skilled labor fluctuation CI lack of management capacity

Appendix C2 (continued 1)

2007	2008	2009	2010
<p>CI punctdirdis</p> <p>CI opposition to government</p> <p>CI local people discord</p> <p>CI distribution</p> <p>CI money spoiling self reliance</p> <p>CI contact overload pressure</p>	<p>CI houses</p> <p>CI cooperation</p>	<p>CI money overload</p> <p>CI local people discord</p> <p>CI opposition to government</p> <p>CI contact overload pressure</p>	<p>CI end of relief</p>
<p>CI lack of management capacity</p> <p>CI skilled labor fluctuation</p> <p>CI punctdirdis</p>	<p>CI houses</p> <p>CI donor travel</p> <p>CI lack of information</p> <p>CI visibility</p>		<p>CI lack of information</p> <p>CI decision making</p>
<p>CI opposition to government</p> <p>CI skilled labor fluctuation</p> <p>CI solution</p> <p>CI distribution</p>	<p>CI houses</p> <p>CI donor travel</p>	<p>CI money overload</p> <p>CI punctdirdis</p>	<p>CI money overload</p>
	<p>CI end of relief</p>		
<p>CI houses</p> <p>CI visibility</p>	<p>CI houses</p> <p>CI donor travel</p>		

Appendix C2 (continued 2)

	2004	2005	2006
Local Government	CI different goals in reconstruction CI cooperation need assessment CI lack of coordination CI NGO-Influx CI contact overload	CI contract (Disaster Act; Coastal Regul Act) CI NGO Influx CI punctualdiridis CI fear of sea CI opposition to government	CI cooperation need assessment CI money overload CI time pressure housing delay
Local Media	CI starting relief action CI lack of information CI visibility	CI local people discord CI skilled labor fluctuation CI fear of sea	CI ending relief action
Global Media	CI starting relief action CI lack of information	CI NGO influx CI Lessons Learned Workshop	CI ending relief action
Local Community	CI lack of resources CI lack of information CI distribution CI competition	CI local people discord CI donor travel CI fear of sea CI competition CI donor travel	CI donor travel CI local people discord CI opposition to government CI duplication
Local Houses		CI starting relief action CI rising market prices	
Contract		CI starting relief action CI new partner CI lack of resources CI rising market prices	CI cooperation
Mail	CI starting relief action		

Appendix C2 (continued 3)

2007	2008	2009	2010
CI time pressure housing delay CI money overload CI local people disaccord CI distribution	CI time pressure housing delay CI local people disaccord CI gender CI rising market prices	CI rising market prices CI NGO influx	CI time pressure housing delay
	CI solution		
	CI solution		
CI donor travel CI medicare CI child trafficking CI cooperation CI legal barriers CI contact overload	CI houses CI competition CI innovative activity	CI distribution CI opposition to government CI duplication	
CI opposition to government	CI solution		
CI cooperation	CI ending relief action		
			CI ending relief action

Appendix C3: CI-chart Kanni

11 actors N= 133	2004 Disaster	2005	2006
Local NGO	CI child trafficking CI starting relief action CI opposition to government CI cooperation need assessment	CI NGO Influx CI contract CI legal barriers CI new partner CI time pressure housing delay CI rising market prices CI cooperation need assessment	CI punctual diridis CI time pressure housing delay CI solution CI medicare
Transnational NGO	CI cooperation need assessment	CI competition CI NGO Influx CI different goals in reconstruction CI rising market prices CI contract CI new partner	CI lack of information CI competition CI cooperation need assessment CI NGO Influx CI solution
Intermediary NGO	CI decision making CI cooperation need assessment CI competition	CI distribution CI lack of coordination CI contract CI contact overload pressure CI LessLearn Workshop	CI punctdiridis CI donor travel CI cooperation need assessment CI NGO Influx CI solution
Local Government	CI different goals in reconstruction CI cooperation need assessment CI lack of coordination CI NGO-Influx CI contact overload	CI contract (Disaster Act; Coastal Regul Act) CI NGO Influx CI punctual diridis CI fear of sea CI opposition to government	CI cooperation need assessment CI money overload CI time pressure housing delay CI rising market prices

Appendix C3 (continued 1)

2007	2008	2009	2010
CI skilled labor fluctuation CI punctdirdis CI local people disaccord CI different goals in reconstruction	CI skilled labor fluctuation CI donor travel CI local people disaccord CI medicare	CI innovative action CI donor travel CI local people disaccord CI skilled labor fluctuation	CI innovative action CI local people disaccord CI medicare
CI skilled labor fluctuation CI innovative activity	CI different goals in reconstruction		
CI donor travel CI punctdirdis	CI punctdirdis		
CI time pressure housing delay CI money overload CI local people disaccord CI distribution	CI time pressure housing delay CI local people disaccord CI gender CI rising market prices	CI rising market prices CI NGO influx	

Appendix C3 (continued 2)

	2004	2005	2006
Local Media	CI starting relief action CI lack of information CI visibility	CI local people disaccord CI skilled labor fluctuation CI contact overload pressure	CI innovative action CI punctured CI solution
Global Media	CI starting relief action CI lack of information	CI NGO influx CI Lessons Learned Workshop	CI ending relief action
Gl. Donor NGO		CI starting relief action	CI solution CI contact overload
Gl. Private Company		CI starting relief action	
Local Community	CI lack of resources CI lack of information CI lack of management capacity CI contact overload	CI medicare CI time pressure housing delay	CI medicare CI cooperation
Contract		CI starting relief action CI starting relief action CI new partner	CI starting relief action CI ending relief action CI rising market prices
Green Bus	CI starting relief action		

Appendix C3 (continued 3)

2007	2008	2009	2010
CI innovative actionr	CI innovative action	CI innovative action	CI innovative action
		CI innovative action	
CI innovative action CI punctdardis			
CI ending relief action			
CI medicare	CI medicare CI different goals in re- construction	CI medicare	CI medicare
CI time pressure hous- ing delay	CI different goals in re- construction	CI different goals in re- construction	
CI ending relief action			

Appendix D: Codebook



Number of Codes: 123, commented: 120

Code Info		Comment
ACT	■	Element of an heterogeneous actor-network; a socio-technical hybrid.
ACT-boats	■	Fisher boats destroyed/restored as livelihood item
ACT-coastal regulation act	■	Indian Governmental Act issued in 2005 following Tsunami 2004
ACT-contract	■	Contract of relief programme
ACT-disaster management act	■	Indian Governmental Act issued 2005 following the disaster of Tsunami 2004
ACT-donors	■	Organizations und humans that transfered money to support disaster management after Tsunami 2004
ACT-global NGO	■	Non-governmental organization of global operational structure in reach of activities, standards and resources
ACT-gov	■	Actors that belong to the Indian Government, here often district collectors in Tamil Nadu state districts
ACT-houses	■	Houses destroyed by Tsunami and then under reconstruction attracting the interest of a majority of relief actors
ACT-intermediary NGO	■	NGO that has an intermediary position between global and local Indian NGO
ACT-local NGO	■	NGO routet in a local region culturally and economically

ACT-local-people	■	Actors from local communities
ACT-mail	■	Material actors in electronical or postal mail form
ACT-media	■	Material actors being media devices f.ex. newspaper, radio, social media
ACT-military	■	Military units in relief activities
ACT-NGO	■	Non-governmental actors in heterogeneous relief networks aligning with governmental, military, for-profit and technical actors.
ACT-police	■	Human and non-human actors belonging to local police structures
ACT-private company	■	Corporate network actors with a for-profit orientation
ACT-reports	■	Documents carrying relief information within heterogeneous actor-networks
ACT-telephone	■	Technical actor enabling ad hoc and mobile communication, a cellphone or a landline telephone.
CI	■	Critical incident which changes activities and plans in real-time.
CI medicare	■	Incident or activity adressing medical needs
CI-boat repair	■	Incidental problems with quality of produced boats and catamarans
CI-child trafficking	■	Incidental local occurrence of child trafficking
CI-competition	■	Incidental competition of actors in real time disaster management
CI-contact overload pressure	■	Incidental pressure on actor by contact overloads (IT and physical communication)
CI-contract	■	Incidental contract signing for relief and rehabilitation projects between relief actors

CI-cooperation	■	Cooperation activity or incident impacting one or more organizations
CI-cooperation need assessment	■	Incidental investigation in local and cooperation needs
CI-decision making	■	Incident of decision making impacting ongoing plans
CI-different goals in reconstruction	■	Incidental appearance of different goals of heterogeneous actors
CI-distribution	■	Incidental distribution problem or solution
CI-donor travel	■	Incidental visit of global donor organization at local site
CI-doubling self-help groups	■	Incidental appointment of parallel self-help structures doubling existing activities
CI-duplication	■	Incidental replication of relief activity in a place where it already exists
CI-ending relief action	■	End of one or more relief components
CI-fear of sea	■	Occurrence of post traumatic stress in fisher families
CI-inauguration	■	[no entry]
CI-innovative action	■	Incident of an innovative action undertaken by network-actors
CI-lack of coordination	■	Situation of absence of coordination impacting actors activities
CI-lack of information	■	Situation of absence of information impacting actors activities
CI-lack of management capacity	■	Situation of absence of management capacity impacting relief activities
CI-lack of resources	■	Situation of absence of tangible or intangible resources

CI-legal barriers	■	Incidental confrontation between legal structures and actors activities
CI-LFT workshop	■	[no entry]
CI-local people discord	■	Incidental situation of dissaccord between local community and other relief actors
CI-money overload	■	Incidents related to an overload of funds and donations
CI-money spoiling selfreliance	■	Behaviour or perception that financial input changed behaviour in affected villages
CI-new partner	■	Inclusion and change of new partners in a dynamic network
CI-NGO influx	■	Incident of high influx of NGO in a local region
CI-opposition to government	■	Incidental dissaccord between governmental and non-governmental actors
CI-punctual dirdis	■	Punctual directedness and distance to implementing network-actors
CI-rising market prices	■	Issues and incidents related to rising market prices in reconstruction
CI-skilled labour fluct	■	Incidents of real time fluctuation of skilled labour in relief
CI-solution	■	Incidental solution for a problem in the reconstruction process
CI-starting relief action	■	Incidental beginning of a relief activity
CI-starting workshop	■	Incidental start-up inauguration in relief network 1
CI-time pressure housing delay	■	Issues related to delay in housing reconstruction or prolonged life in temporary shelters
CI-urgent	■	Time sensitive ad hoc action

CI-visibility	■	Issues related to visibility practices
COLLAB-CHALLENGE	■	Real-time challenge for multiple actors that have to collaborate under goal uncertainty and without central management.
COLLAB-CHALLENGE-competition	■	Collaboration challenge involving competition between actors
COLLAB-CHALLENGE-confusion	■	Collaboration challenge due to or provoking confusion
COLLAB-CHALLENGE-long-term	■	Collaboration challenge related to long-term relief
COLLAB-CHALLENGE-rel	■	Collaboration challenge involving interreligious question
DIMA	■	All activities related to expected, occurring or past disasters.
DIMA-effects	■	Effects and outcomes of global-local disaster management
DIMA-exp	■	Experiences of organizations and networks in disaster management
DIMA-interest	■	Interest actors or networks pursue in disaster management.
DIMA-limits	■	Limits of disaster management by one or more actors or networks
DIMA-resources	■	Resources enabling disaster management
DIMA-stages	■	Activities in and perceptions on disaster management related to phases in long-term relief
DIS-effects	■	Disaster impact of Tsunami 2004
DIS-exp	■	Real time experiences of different actors
HEALTH-phys	■	All accounts on health issues that relate to physiological problems

HEALTH-psy	■	All accounts of health issues in disaster management related to psychological problems
INNOACT	■	Innovative activities in real-time disaster management.
INNOACT-distribution	■	Innovative activity related to distribution problems in relief
INNOACT-eshiporient	■	Innovative activity in relief increasing entrepreneurial orientation
INNOACT-forprofit	■	Innovative activity in relief related to business
INNOACT-gender	■	Innovative activity in relief related to gender aspects
INNOACT-learning	■	Innovative activities related to learning processes in relief
INNOACT-medicare	■	Innovative activities in relief related to the medical field
INNOACT-NGOactivity	■	Innovative activity by a non-governmental actor
INNOACT-startup	■	Innovative activity involving start-ups
NETDYN	■	Network dynamic between actors in real time collaboration
NETDYN-capBuild	■	Network relations between actors that foster capacity building on institutional level
NETDYN-capBuild-Housing	■	Network relations fostering capacity building in housing
NETDYN-capBuild-Res	■	Network relations providing resources for capacity building
NETDYN-capBuild-Train	■	Network relations contributing to training and capacity building
NETDYN-churchNGO	■	Network relations between religious and NGO actors

NETDYN-coordination	■	Networked processes of coordination
NETDYN-distrust	■	Network relations showing distrust between actors
NETDYN-emerge	■	Network relations enhancing network emergence
NETDYN-globloc	■	Real-time collaboration in global-local relief networks.
NETDYN-govNGO	■	Real time cooperation in networks between governmental and NGO actors
NETDYN-inklud	■	Dynamic of network inclusion of unusual actors
NETDYN-leadership	■	Network dynamics related to leadership and governance
NETDYN-locNeed	■	Network dynamic arising around local needs
NETDYN-missing local knowledge	■	Network dynamics arising around missing local knowledge
NETDYN-NGOexclusion	■	Network processes that exclude NGO
NETDYN-NGOLocCom	■	Network processes between local community and NGO
NETDYN-NGONGO	■	Network dynamics between different NGO actors
NETDYN-scale-up	■	Network dynamics related to organizational up scaling
NETDYN-trust	■	Network dynamics related to trust between actors
NGO-STRAT	■	The way an organization collaborates and influences the relief process.
NGO-STRAT-advocacy	■	[no entry]
NGO-STRAT-community development	■	Activity advancing NGO relief strategy towards community building

NGO-STRAT-coordination	■	Activity advancing NGO relief strategy towards better coordination
NGO-STRAT-differences	■	Situation marking differences in NGO relief strategies
NGO-STRAT-entrepreneurship	■	Activity advancing NGO relief strategy towards entrepreneurship
NGO-STRAT-equal rights	■	Activity advancing NGO relief strategy towards equal rights
NGO-STRAT-expKnow	■	Activity advancing NGO relief strategy based on expert knowledge
NGO-STRAT-gender	■	Activity advancing NGO relief strategy towards gender rights
NGO-STRAT-media-behaviour	■	Activity related to NGO relief strategy regarding use of media
NGO-STRAT-multiple donors	■	Activity indicating NGO relief strategy of multiple donor inclusion
NGO-STRAT-scale	■	Activity related to will or unwill of NGO to scale up in relief
REAL TIME-plan	■	Account of real time planning in relief
SUSTAINABILITY	■	Sustainable outcomes of disaster management meeting the triple bottom-line.
SUSTAINABILITY-eship	■	Activities that aim at or yield in sustainability and entrepreneurial orientation or activity
SUSTAINABILITY-resilience	■	Activities related to sustainable outcomes of disaster management, especially resilience of local structures
TIMELINE	■	Disaster management activities related to a timeline, chronological orientation of actors
VIS	■	Visibility or invisibility of artifacts, organizational actors and activities

Appendix E: List of code families

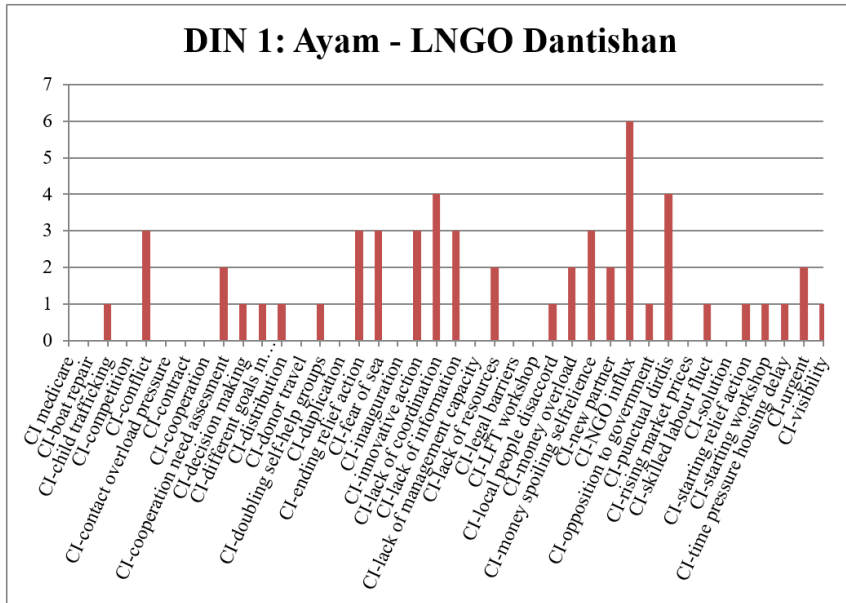


List of 2 code families of the codes ACT and CI

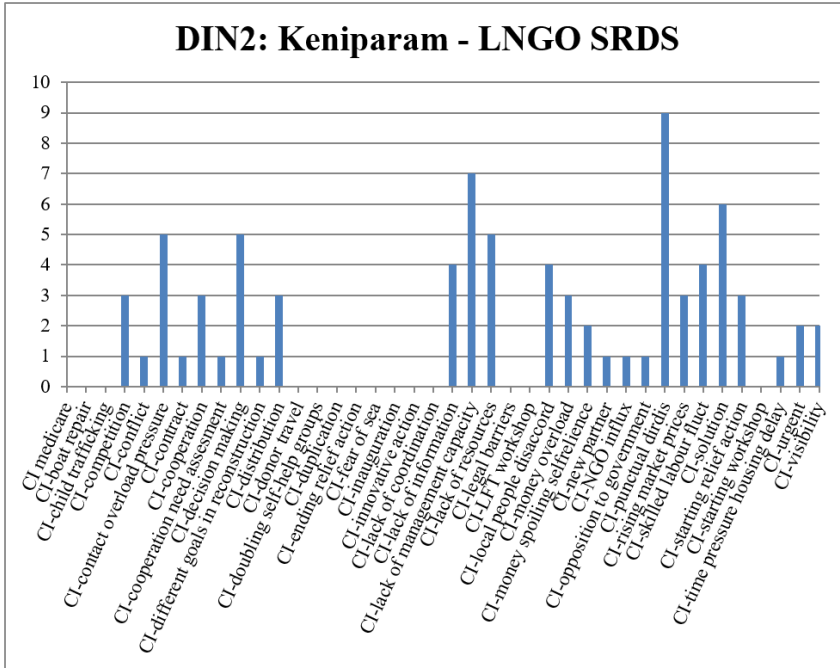
Code Family	Codes
ACT-non-org	<ul style="list-style-type: none">• ACT-boats• ACT-coastal regulation act• ACT-disaster management act• ACT-donors• ACT-gov• ACT-mail• ACT-media• ACT-reports• ACT-telephone
ACT-org	<ul style="list-style-type: none">• ACT-global NGO• ACT-intermediary NGO• ACT-local NGO• ACT-military• ACT-NGO• ACT-police• ACT-private company
CI-conflict	<ul style="list-style-type: none">• CI-child trafficking• CI-doubling self-help groups• CI-legal barriers• CI-opposition to government
CI-net-dyn	<ul style="list-style-type: none">• CI-competition• CI-contact overload pressure• CI-contract• CI-cooperation• CI-cooperation need assesment• CI-decision making• CI-different goals in reconstruction• CI-distribution• CI-donor travel• CI-lack of coordination• CI-lack of information• CI-local people disaccord

	<ul style="list-style-type: none">• CI-new partner• CI-punctual dirdis
CI-psysoc	<ul style="list-style-type: none">• CI medicare• CI-fear of sea• CI-money spoiling selfreience• CI-visibility
CI-resources	<ul style="list-style-type: none">• CI-boat repair• CI-duplication• CI-lack of management capacity• CI-lack of resources• CI-money overload• CI-rising market prices• CI-skilled labour fluct
CI-success	<ul style="list-style-type: none">• CI-innovative action• CI-LFT workshop• CI-solution
CI-temp	<ul style="list-style-type: none">• CI-ending relief action• CI-inauguration• CI-NGO influx• CI-starting relief action• CI-starting workshop• CI-time pressure housing delay• CI-urgent

Appendix F1: Cross-tabulation of CIs and LNGOs/DINs in Ayam



Appendix F2: Cross-tabulation of CIs and LNGOs/DINs in Keniparam



Appendix F3: Cross-tabulation of CIs and LNGOs/DINs in Kanni

