INTRODUCTION


Previous analyses of crisis management research literature have revealed some general similarities (Normandin and Therrien, 2016, Lalonde, 2004). Normandin and Therrien examined the complementarity of order and disorder connected with resilience and Lalonde examined archetypes in crisis management.

A crisis can be defined as; “a threat to core values, the safety of people, or the functioning of critical infrastructure that must be urgently addressed under conditions of deep uncertainty” (Rosenthal et al. 1989; Boin et al. 2005). There are different challenges according to the type of crisis and its extent and consequences. Some crises are natural disasters, others have social causes. Some crises are a bolt from the blue, others are results of latent conditions. With such variety one can expect crisis management to take different paths.

However, there are institutional prerequisites like laws, regulations and guidelines that act to unify crisis management paths. In an emergency plan, the minimum requirement according to Norwegian civil protection law (Law, 2010) is to have crisis management, a warning plan, an overview of resources, an evacuation plan, and a plan for informing the public. Perry and Lindell’s guidelines for emergency planning processes can also be a prerequisite before a crisis occurs (Perry and Lindell, 2003).

Although there are many differences in crisis management, the focus of this paper is to search for similarities. The research question is; what similarities can be found in municipal crisis management? This is a preliminary work; further research needs to be done to map the relevance and extent in more municipalities.

CONTEXT

Municipalities (at least in Norway and Sweden) have responsibility for crisis management in their jurisdiction and geographical area. In Norway, there are 426 municipalities (01.01.2017) of which about 50% have 5,000 inhabitants or less. This means that many staff in emergency management positions do not have this as a full time responsibility. There are four main principles in the Norwegian crisis management system; responsibility, parity, proximity, and the requirement for cooperative measures. The first three principles are common with the Swedish crisis management system. “The first principle specifies that those responsible for an activity in normal conditions also have the responsibility during a crisis. This means that many staff in emergency management positions do not have this as a full time responsibility. There are four main principles in the Norwegian crisis management system; responsibility, parity, proximity, and the requirement for cooperative measures. The first three principles are common with the Swedish crisis management system. “The first principle specifies that those responsible for an activity in normal conditions also have the responsibility during a crisis. The second principle states that the activities should, as far as possible, be organized and located in the same way during a crisis
as they are under normal conditions. The third principle declares that crises should be managed at the lowest possible level” (Nilsson and Eriksson, 2008:36). The fourth principle about collaboration of resources between different levels was included after the solo terrorist attack in Norway on 22.07.2011 (77 dead due to the bombing of government buildings and shooting at a political youth camp on an island). This paper’s empirical focus is on crises at the municipal and County Governor level. The County Governor is responsible for inspections of the emergency work in the municipalities in their area.

3 THEORY

3.1 Crisis management

A shorthand definition of crisis management is “management practices concerning non-routine phenomena and developments” (Rosenthal et al., 2001:15). In this section, we will examine surprises, different typologies, preparedness and crisis management.

3.2 Varieties of surprise

According to Brian J. Kylen cited in (Weick and Sutcliffe, 2001:36-38), there are at least five categories of the unexpected. The first is when phenomena occur as “a bolt from the blue”, with no prior model or hint of what is coming. The second category is when a surprise “is recognized, but the direction of the expectation is wrong”. The third category is when you know what will happen, but the timing is off. The fourth category is when the duration of the event is wrong and the fifth and final category when a phenomenon is expected, but its amplitude is not. All of these categories concern expectations that are not fulfilled by the unexpected event.

3.3 Typology of crises

Crises have been classified in different ways. t’Hart and Boin used timeframe (t’Hart and Boin, 2001). Gundel has a matrix according to predictability and influence (Gundel, 2005:109). A crisis is predictable if “place, time or in particular the manner of its occurrence are knowable to at least a third competent party and the probability of occurrence is not to be neglected” and can be influenced “if responses to stem the tide or to reduce damages by antagonising the causes of a crisis are known and possible to execute” (Gundel, 2005:109). The matrix has four categories; conventional, unexpected, intractable and fundamental crises. Unexpected and fundamental crises occur seldom compared to conventional crises. This is a broad classification and can serve as a toolkit for decision makers. It also gives an indication of where influence can be difficult, e.g. an intractable crisis like global warming, where international collaboration is called for.

3.4 Preparedness and community crises

To be prepared for crises there is a need for emergency planning. Perry and Lindell based their ten guidelines for emergency planning processes on existing research (Perry and Lindell, 2003). They state that the relationship between planning, training and written plans is essential. The planning is a never-ending process, which includes change, complexity and the ability to adapt to different situations. The following list summarises the ten guidelines for emergency planning.

The emergency planning has to:

1. Be based on accurate knowledge. Often by using risk and vulnerability analysis (RAV)
2. Encourage appropriate actions by emergency managers
3. Be flexible in response. Following principles rather than many specific details
4. Address inter-organisational coordination
5. Contain a multi-hazard approach between different external agents
6. Have a training component
7. Test different scenarios
8. Understand that planning is a continuous process
9. Understand that planning is done under conditions of conflicts and resistance
10. Acknowledge that planning and crisis management are two different functions

Planning in advance of a crisis is a state of readiness and community preparedness. Perry and Lindell also underline that small communities with few written plans are more reliant on personal relationships for handling incidents or crises. In bigger communities, more formalities are likely. Finally, they state that planning builds preparedness, but the actual crisis management is a different function.

3.5 Management of crises

Quarantelli has analysed the evaluation of the management of community disasters (Quarantelli, 1997). Although our focus is on crises, we can see some general features that can be of relevance; warnings, evacuation, sheltering, emergency medical care, protection of property, and search and rescue. In addition, coordination and restoring essential public services must be adequately carried out. The mobilisation of personnel and resources should be effective and the delegation of tasks and division of labour should be appropriate. There should be a good balance between emergent and established organisational behaviour. A
well-functioning emergency operation centre is essential. The main point in the article is to have good management and be able to use the best tactics for handling the specific crisis that occurs.

4 METHOD

Two methods were used to find information about similarities in crisis management. A literature review and interviews.

4.1 Search for research literature

A database and journal search was conducted at the end of December 2016. The search was to look for similarities in crisis management in municipalities/communities within the social sciences from 2004 and later, to find newer research than Perry and Lindell’s review from 2003. The following search terms were used:

1. Municipality, crisis management, similar
2. Community, crisis management, similarity

The following were searched:
- Database Web of Science (16 hits), this resulted in 3 relevant articles, from the Journal of Risk Research and the Journal of Public Relations and Physical Geography.
- Scopus (34 hits), 2 of the same articles as in Web of Science were relevant.
- Journal of Contingencies and Crisis Management (70 hits), 10 articles were relevant. This gave a total of 13 relevant articles.

The articles were assigned to one of two main categories for analysis; general findings or specific topics. This is further described in the results section.

4.2 Interviews

Interviews covering experiences and reflections about crisis management were conducted with key personnel in three municipalities and one representative from a County Governor (Nilsen, 2013). Two interviews were conducted after the 2013 report, one in 2013 and one in 2016. This gave six relevant interviews for analysing similarities and challenges in crisis management.

5 RESULTS

The presentation of the literature review comes first, thereafter the empirical findings.

5.1 Research literature categories

The general category covers reflections on crisis management as a whole. The specific category covers more detailed articles on specific elements.

<table>
<thead>
<tr>
<th>Table 1. General articles.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topic</td>
</tr>
<tr>
<td>Culture</td>
</tr>
<tr>
<td>Archetypes</td>
</tr>
<tr>
<td>Overall coordination</td>
</tr>
<tr>
<td>Complexity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Table 2. Specific articles.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topic</td>
</tr>
<tr>
<td>Learning</td>
</tr>
<tr>
<td>Crisis information</td>
</tr>
<tr>
<td>Psychology research</td>
</tr>
<tr>
<td>Reflective</td>
</tr>
</tbody>
</table>

5.2 Findings from interviews

5.2.1 What do the municipalities have in common?

Every municipality in this study has risk and vulnerability analyses (RAV). They have a crisis staff and
an emergency plan covering warning, evacuation, re-
source oversight, and informing the public. This is the
minimum requirement in the civil protection law. The
principles of responsibility, parity and proximity are
foundation stones in how to organise Norwegian
emergency preparedness. The main aim is to secure
life and health for inhabitants in the municipality.

The county governor interview revealed that their
county holds regular joint exercises with the munici-
palities. The County Governor’s aim is to test the mu-
cipalities’ emergency preparedness. The three mu-
cipalities confirmed that they have participated in
such exercises. This shows that the municipalities
carry out exercises on a regular basis.

One of the municipalities made a general plan for
large incidents (crises). “For us it plays no role
whether it is terror, sabotage, dangerous goods, a
huge chain collision or extreme weather, for that mat-
ter. We made a plan for 7-8 large incidents (crises).
This decided the capacity according to crisis planning
and management”.

5.2.2 Common understanding of challenges in mu-
cipalities

Norway has many small municipalities, which have
limited resources and emergency planning compe-
tence. Although a municipality is small, it still has the
same demands from governmental laws and regula-
tions. One of the municipalities underlined the diffi-
cult balance between using many resources to plan for
a crisis, when the likelihood of occurrence is very
small. The municipalities in this study still find coor-
dination with external institutions a bit challenging.

Huge and unexpected crises are challenging to
both plan for and tackle. “We can tackle 80%, but the
remaining 20% will be beyond our scope of experi-
ence” - quote from emergency leader. This shows an
awareness about the unexpected.

5.2.3 Positive experiences

One of the municipalities evaluated their long time
experience in working with emergency planning and
incident handling. They found that they improved
communication with their inhabitants, they had a bet-
ter foundation for decisions, they had good map solu-
tions and had improved coordination with others.

The ability to act is a hallmark for many of the
small municipalities. Although their plans might be
incomplete, they have good control of human and ma-
terial resources in a crisis. This impressed the County
Governor who was interviewed.

The crisis management staff’s understanding is
that as long as the municipality is prepared, has com-
pleted exercises and has a good emergency plan, there
are more similarities than differences in municipal
危机管理。

6 DISCUSSION

This paper focusses on the municipal and County
Governor level. The focus is on crises and not disas-
ters. The extent of a crisis is beyond everyday inci-
dents handled by the main emergency services. We
will first focus on similarities in practice and common
challenges, thereafter elaborate theoretical dimen-
sions.

6.1 Similarities

Every municipality deals with small incidents in eve-
day services, for instance leaking pipes, traffic inci-
dents or fires. This means that they have some expe-
rience that can be of relevance in a crisis. Even if a
危机 escalate, it is still related to ordinary services,
but on a much larger scale. The Civil Protection law’s
prerequisites for emergency management and the four
Norwegian principles for emergency preparedness
have similarities to theory in emergency planning
processes (Perry and Lindell, 2003) and hallmarks in
crisis management (Quarantelli, 1997).

We will elaborate some of our empirical findings
and connect to the relevant guidelines for emergency
planning. Municipalities use risk and vulnerability
analysis (RAV) as a tool to try to find accurate
knowledge. Having oversight of all relevant data in a
complex and changing environment is difficult, be-
cause it is not an area of instrumental rationality.
Perry and Lindell recommend seeking for the best
available knowledge, including using experts. The
municipalities often use external experts in their
RAVs to help with specific topics. However, having
oversight over every possible incident or crisis that
can occur is impossible, but it is important to seek
new knowledge and be open for emerging signals.

The municipalities train on a regular basis. The
emergency plan needs to be used in training to find
weaknesses and uncover the need for updating. The
internal coordination, roles, and responsibilities can
also be tested. This training can be important when a
危机 occurs, because they have experience using the
plan.

Scenario planning is a way to think through chal-
lenge in advance. The municipalities in this study
stated that most of the unwanted incidents or crises
are handled in similar ways. They said that general
principles like responsibility, parity and proximity are
a way to a uniform response.

The main aim is to secure life and health of the in-
habitants. Also to have an emergency plan which ful-
fills the requirements of the Civil Protection Law.
Perry and Lindell state that guiding principles are bet-
ter suited as prerequisites in a crisis than specific de-
tails. These give the ability to adapt to changing con-
ditions.

A municipality is an organisation with a huge
range of services. As we see in the findings, there is a
of municipalities/communities. They involve and if they are relevant for a wide range be researched further in order to find exactly what (Laere, 2013:24). However, these similarities need to crisis in essence is more similar than different” (Laere, 2013:24). However, these similarities need to be researched further in order to find exactly what they involve and if they are relevant for a wide range of municipalities/communities. From the empirical findings, emergency leaders state that there are many similarities in crisis management. From the literature review, Laere has a hypothesis that “organizing in crisis and organizing in non-crisis in essence is more similar than different” (Laere, 2013:24). However, these similarities need to be researched further in order to find exactly what they involve and if they are relevant for a wide range of municipalities/communities.

Qurantelli discusses generic functions in crisis management as shown in the theory section, for example, warning, evacuation and restoring essential public services. Most of these hallmarks are prevalent in the civil protection law. These are foundations that can be used independent of the kind of crisis. From the specific topics in table 2, we see that many findings are similar to these hallmarks.

What we find is that preparedness and crisis management are two sides of the same coin. They are connected in that being prepared can better the quality of crisis management.

6.2 Common challenges in municipal crisis management

There are challenges related to the scale of a crisis. A major unexpected and unforeseen crisis can escalate into an uncontrollable situation. According to an emergency leader, the challenge is to think through unthinkable, worst-case scenarios in advance and to plan outside the comfort zone.

Another challenge is that private institutions like infrastructure companies are not required to have large-scale exercises together with municipalities and when a crisis occurs, they do not have coordinated experience. Boin and McConnel stress that it is necessary to make contact with private institutions before a crisis occurs, to be better prepared (Boin and McConnel, 2007).

6.3 The general category in crisis management

We can sort the articles in table one into three subcategories; cultural theory, strategic crisis management and complexity theory.

The dominant approaches in cultural theory are individual, fatalistic and state-oriented based on sociocultural factors. The second subcategory maps archetypes in strategic crisis management as collectivist, integrators and reactive.

The last subcategory uses complexity theory, where Normandin and Therrien’s reflections on the dynamics of order and disorder and Stacy’s concepts of stability and chaos are relevant (Normandin and Therrien, 2016, Stacy, 1993). Complexity theory is often described as a set of contradictions, and in our material some of these are; order and disorder, predictability or not, influence or not, top-down or bottom-up coordination, bureaucracy or dynamic organising and the difference between a fixed plan and a continual planning process.

We often see that crisis management is not either or, but a combination of factors that need to be considered. It is a form of contextual rationality, e.g. where some elements from emergency plans can be considered of relevance in a crisis and others not. If we consider coordination, a solution can be collaborative crisis organising that builds on both bottom-up and top-down strategies. Boin and Bynander stress that there is a need for more research to see how these contradictions can reinforce each other (Boin and Bynander, 2014).

To create order out of chaos we can consider some of Stacy’s recommendations that can be relevant in learning to improve crisis management (Stacy, 1993).

1 Managers can encourage self-organising groups under crises. We find this hallmark in HROs, where during a crisis there is a shift from a hierarchical organisation to a flat organisational structure, where the experts handle the crisis at hand.

2 Managers can present ambiguous challenges. This is to enforce a variety of solutions. Exposing a crisis team to challenging situations can be a way to “think through the unthinkable”, as described in the “Common challenges” section above.

3 Improving group-learning skills can be of relevance in enabling a crisis staff to better function together in a crisis. These reflections are a starting point to be further elaborated.

7 CONCLUSION

What we see is that crisis management is not only a management of exceptions as suggested by Roux-Dufort (Roux-Dufort, 2007). There are some similarities in crisis management due to the prerequisites for emergency planning and crisis management theory presented above. Some of these recommendations are found in our study of municipalities. At the empirical level, the crisis management staff’s understanding is that as long as the municipality is prepared, has completed exercises and has a good emergency plan, there
are more similarities than differences in municipal crisis management. These similarities should be further researched as a matter of importance.

Having some similarities in crisis management can raise the confidence of the individuals performing in a crisis, but it must be balanced with awareness of the unexpected.

REFERENCES


