



TECHNIUM
SOCIAL SCIENCES JOURNAL

Vol. 38, 2022

**A new decade
for social changes**

www.techniumscience.com

ISSN 2668-7798



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Policy Content Analysis of Rawapening Lake Management Team

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Abstract. Rawapening lake is one of multifunction lake in central java province. It is one of the priority lake in Indonesia. Rawapening Lake has been degraded due to its function. The most visible impacts are the decreasing of physical and chemical quality of the lake water and the decreasing of the lake carrying capacity. There have been several policies of Lake management in Indonesia, but most of lakes condition in Indonesia are still degrading. The Governor Decision number 610 was issue in 2019. This policy is about establishment of Rawapening Lake management team form multi stakes holder which consist of steering team, implementing team which consist of five working groups. Since the establishment of Rawapening lake management team, reportedly there has been positive changes in Rawapening condition. The content of this policy can be the key to sustainable lake management in Indonesia. The content analysis of the Rawapening management team is subjected in to three focuses as follows: the duties of steering team, the duties of implementing team, what have the working group done as part of the implementing team.

Keywords. Rawapening Lake, Rawapening Lake management team, Policy, Content Analysis

1. Introduction

Lakes are very important in creating ecological balance in water management. Indonesia has a very large natural resources of lakes. Indonesia has the fifth largest freshwater country in the world with the potential water availability of 3.221 billion m³/year and there are around 840 lakes (1). From water management point of view, lake is viewed as water storage and can be utilized for fisheries, irrigation, water resources, energy, etc. Multifunctional used of lakes in such ways will commonly cause negative impact to the environment surrounding the lake (2).

Multifunctional usage by human have caused the lake in Indonesia degraded (3). The most visible impacts are the decreasing of physical and chemical quality of the water in the lake and the decreasing of carrying capacity of the lake. Lake management in Indonesia started with Bali Agreement in 2009 which stated 15 priority lakes in Indonesia are Toba, Maninjau, Singkarak, Kerinci, Limboto, Poso, Tempe, Matano, Cascade, Mahakam, Sentarum, Sentani, Rawa, Rawapening, Batur (4).

Rawapening is one of the priority lake in Indonesia located in Central Java

Province. Rawapening lake surrounding area have historical value in term of social, economy and ecological functions that plays important role in improving people's welfare. The Governor Decision No 610/2019 is about Rawapening Lake management team (5). Since it was issued in 2019, the condition of Rawapening lake has been improving as the water hyacinth in lake water body have decreased rapidly (7). This research is aimed to analyse the content of Rawapening lake policy. Rawapening lake management team is necessary as part of comprehensive integrated and sustainable management effort (8). The team consist of relevant agencies, experts, and community. This research is aimed to analyse the content of Rawapening lake policy.

2. Literatur Review

Grindle (2008) stated that implementation dictated by the content of policies. The activation of monetary plan, as an example, generally relies on a restricted variety of key choice devices in the national resources, such as top-level stars in the money ministry as well as the reserve bank. Decisions made during policy formulation may also show that is to be charged with implementing numerous programs, and such decisions can affect how the plan is pursued. Whether objectives are stated plainly or ambiguously and also whether political and also management officials are in agreement regarding what the objectives are will be shown to have been crucial for the implementation of certain programs in several of the situation studies (9).

Nakamura (2021) stated about IWRM framework and technique acknowledge that complementary aspects of a reliable water resources monitoring system must be created as well as enhanced concurrently, including the enabling environment, the institutional functions as well as functions of the different management levels and stakeholders, as well as administration tools such as effective guideline, tracking, and enforcement. IWRM is a procedure that advertises the worked with growth and management of water, land and also associated sources, to make best use of the resultant economic as well as social welfare equitably without endangering the sustainability of crucial ecological communities. IWRM also states the demand for integration of human system components, consisting of cross-sectoral combination in nationwide plan advancement; macro-economic effects of water advancements; standard principles for integrated policy-making; influencing financial market decisions; integration of all stakeholders in the preparation and choice process; and also integrating water and also wastewater administration (10).

3. Methodology

This paper analyzed the content policy of Rawapening lake management team using Atlas ti software. The content analysis of Rawapening management team subjected in to three focuses as follows: the duties of steering team, the duties of implementing team, what have the working group done as part of the implementing team. Descriptive approach is used in this study as it is a qualitative study. The data were collected through informant interview, documents, literature review.

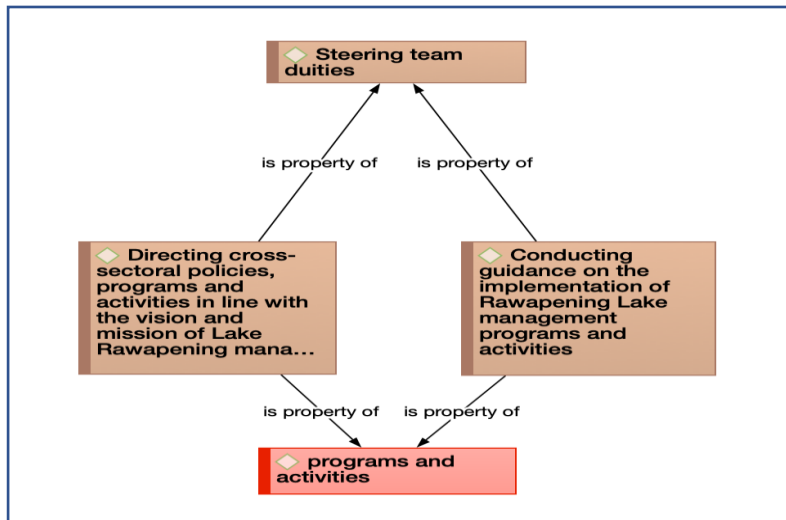
4. Result And Discussion

4.1 Steering Team

The governor decision no 614/2019 is about the establishment of Rawapening lake management team. Mapping the duties of the Rawapening lake management team will describe the carry out action to repair the lake condition by going in to depth interview with the team representative member which consist of the steering and implementation team.

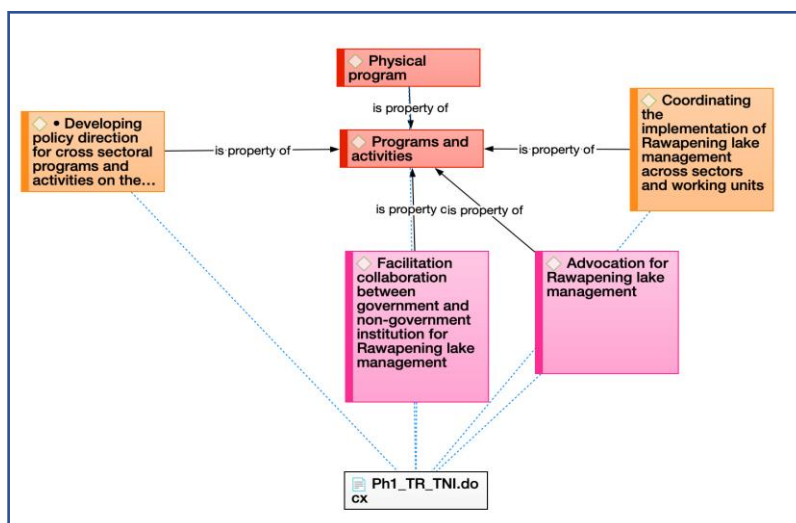
Content analysis of Rawapening Lake management team is based on three focuses: duties of all steering team member, duties of all implementing team, what has been done by all the working group as part of the steering team.

The duties of steering team are directing and guiding cross sectoral policies, programs, activities that are in line with the vision and mission of Rawapening lake management. The steering team member consisted of 10 members.



Pic 1. Steering Team Duties

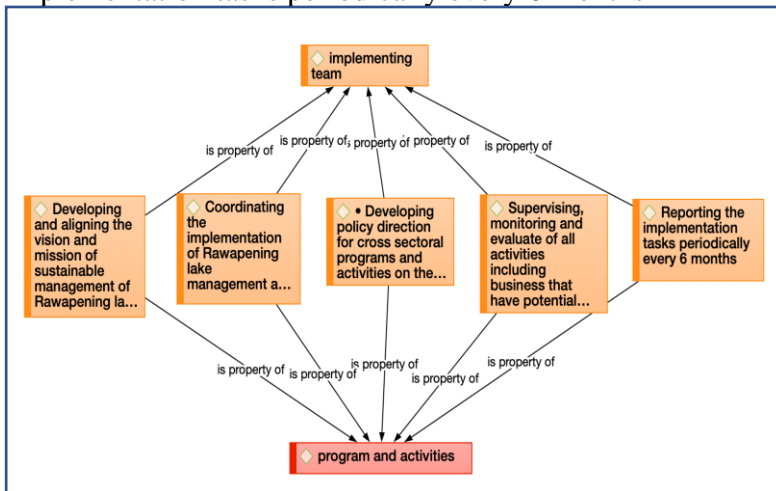
Informant from steering team stated that since 2020 they have collaborated with Pemali Juana River basin organization to support the maintenance of Rawapening lake. They help to solve the social problem as the result of the lake management. Cooperation is aimed to maintain Rawapening lake sustainability so that its function continually beneficial to the people. Furthermore, the informant stated that they have also carried out physical activities such as cleaning water hyacinth, garbage and fish floating cages. Engagement in the form of socialization and coordination with the community have become the first priority in Rawapening lake management.



Pic 2. Statement of Steering Team Informant

4.2 Implementing Team

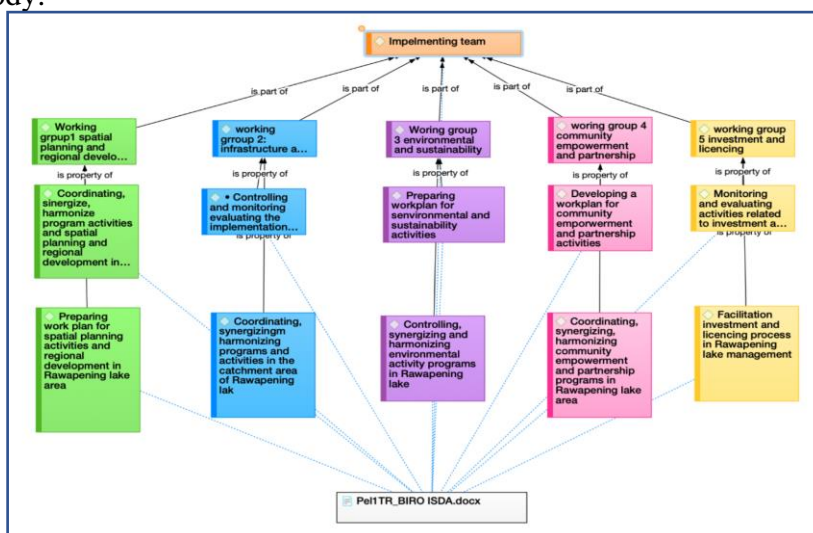
The implementing team duties are developing and aligning the vision and mission of sustainable management of Rawapening lake, coordinating the implementation of Rawapening lake management across sectors and working units, developing policy direction for cross sectoral programs and activities on the lake, supervising, monitoring and evaluate of all activities including business that have potential damage to the lake, reporting the implementation tasks periodically every 6 months



Pic 3. Duties of Implementing Team

The informant stated that basically they are only coordinators who facilitate the meeting and monitor the overall implementation that have been carried out by the 5 working groups. They conducted meetings every month and each of working group will provide written report related to their work in Rawapening lake management.

They also stated that each working group have prepared working plans and carried out coordination for all of the field work as well as conducting monitoring and evaluation. The informant said that the program implementation in Rawapening lake management have been Successful and one of them is measured from the decreasing level of water hyacinth in the lake water body.

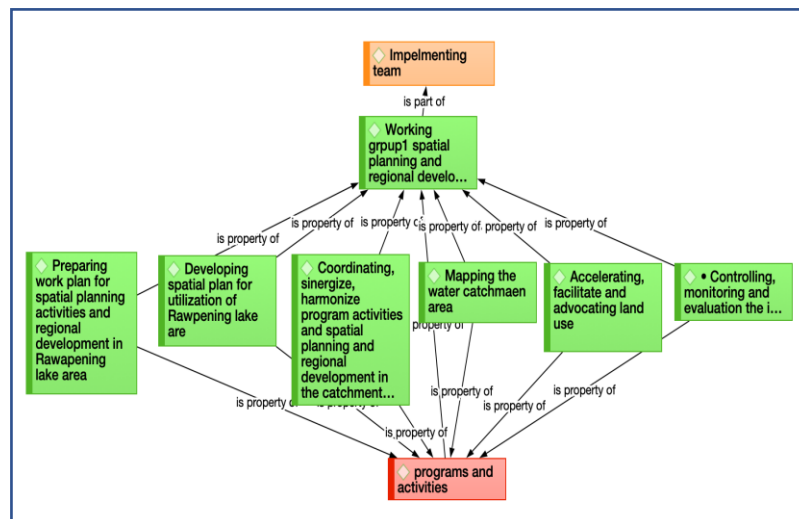


Pic 4. Implementing Team Statement

They are 5 working groups under the implementing team, spatial planning and regional development, infrastructure development, environmental sustainability, community empowerment and partnership, investing and licencing.

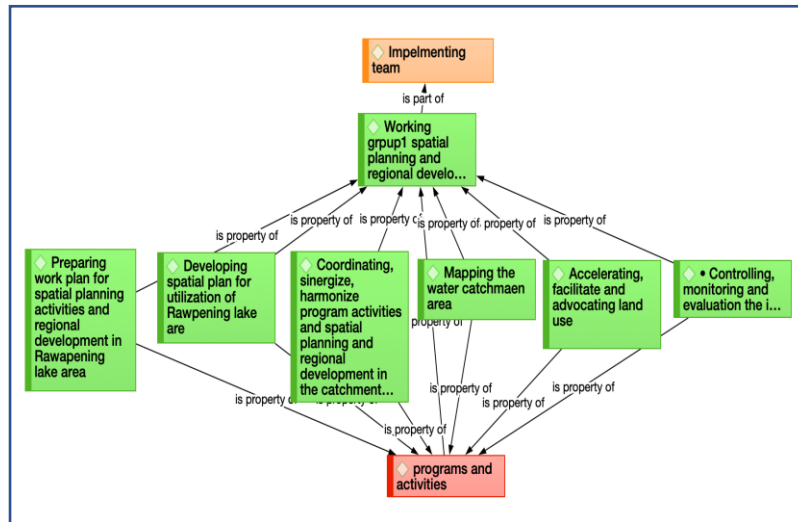
4.3 Working Group 1

The duties of working group 1 of spatial planning and regional development are: developing spatial plan for Rawapening lake utilization, preparing work plan for spatial planning activities and regional development in Rawapening lake area, developing spatial plan for utilization of Rawapening lake area, coordinating, synergize, harmonize program activities and spatial planning and regional development in the catchment area of Rawapening lake, mapping the water catchment area, accelerating, facilitate and advocating land use, controlling, monitoring and evaluation the implementation of spatial planning programs and activities in Rawapening lake area.



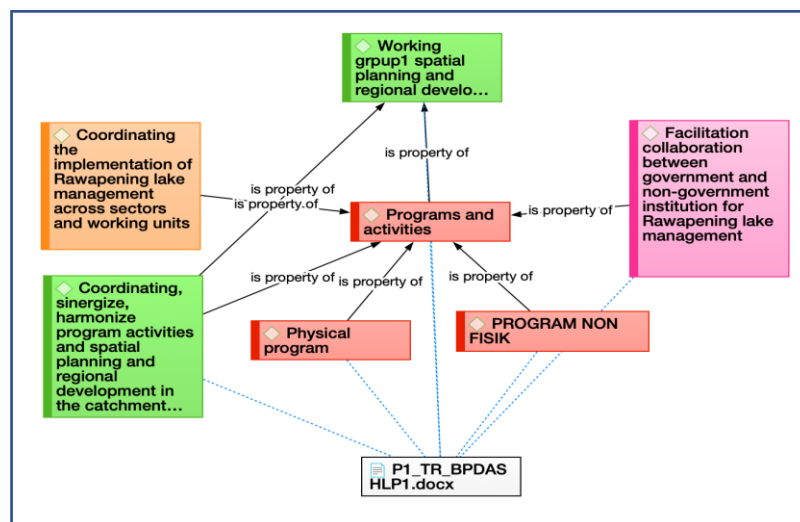
Pic 5. Duties of working grup 1

The duties of working group 1 of spatial planning and regional development are: developing spatial plan for Rawapening lake utilization, preparing work plan for spatial planning activities and regional development in Rawapening lake area, developing spatial plan for utilization of Rawapening lake area, coordinating, synergizing, harmonize program activities and spatial planning and regional development in the catchment area of Rawapening lake, mapping the water catchment area, accelerating, facilitate and advocating land use, controlling, monitoring and evaluation the implementation of spatial planning programs and activities in Rawapening lake area.



Pic 6. Duties of working grup 1

The informant from working group 1 stated that they carried out conservation activities in the upstream area of Rawapening watershed area from 2015. They have planted agroforest for 10 hectares, 116 water treatment plan, cliff reinforcement in 13 poin area with potential landslide, 114 infiltration wells. It is quite difficult to find area to plant trees because almost the entire upstream area has been planted with annual crops. Working grup 1 is indeed focused on watershed management. The upstream area of Rawapening lake is planted with seasonal crops that require ploughing the land which can caused erosion (6). Unlike perennial crop that have strong deep root system protecting the land from erosion.

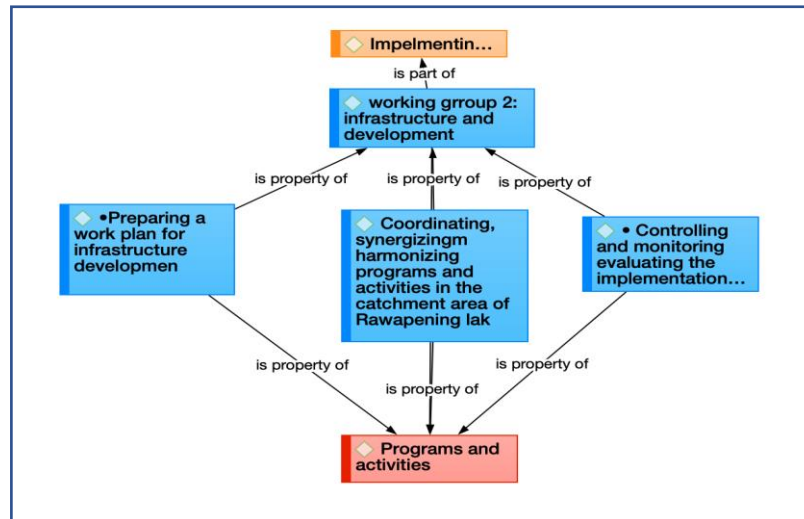


Pic 7. Informant Statement of working grup 1

4.4 Working Group 2

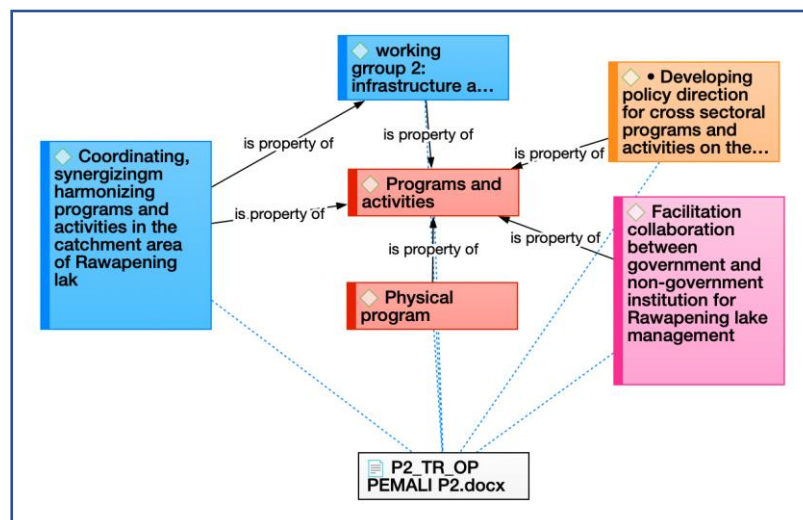
The duties working group 2 of infrastructure development are: preparing a work plan for infrastructure development, coordinating synergizing, harmonizing programs and activities

in the catchment area of Rawapening lake, controlling and monitoring evaluating the implementation of infrastructure development in Rawapening lake area,



Pic 8. Duties of working grup 2

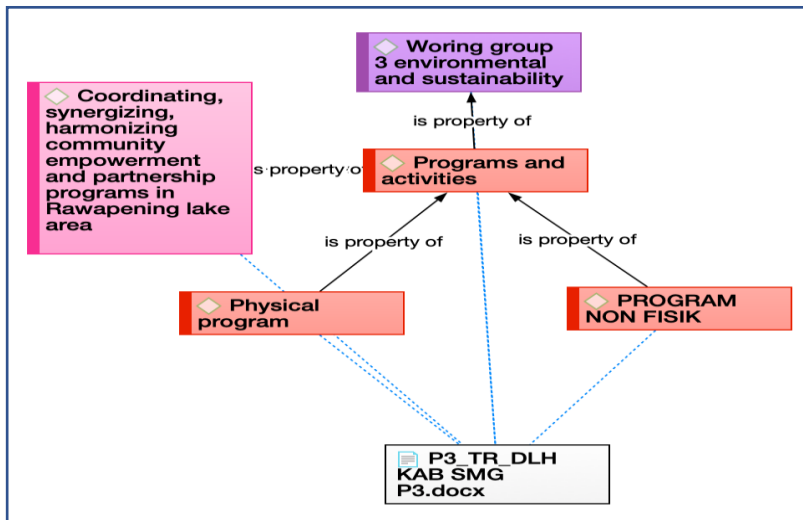
Informant in working grup 2 said that they have performed several routine activities such as cleaning Rawapening lake water body from water hyacinth and floating fish cages, constructed check dams to prevent sediment from entering the lake. The informant also stated that the sustainability of lake management is closely related to fund social commitment of all relevant agencies in Rawapening lake management. Social free resistance also plays important factor in project implementation as it can hinder project execution.



Pic 9. Informant Statement of Working Group 2

4.4 Working Group 3

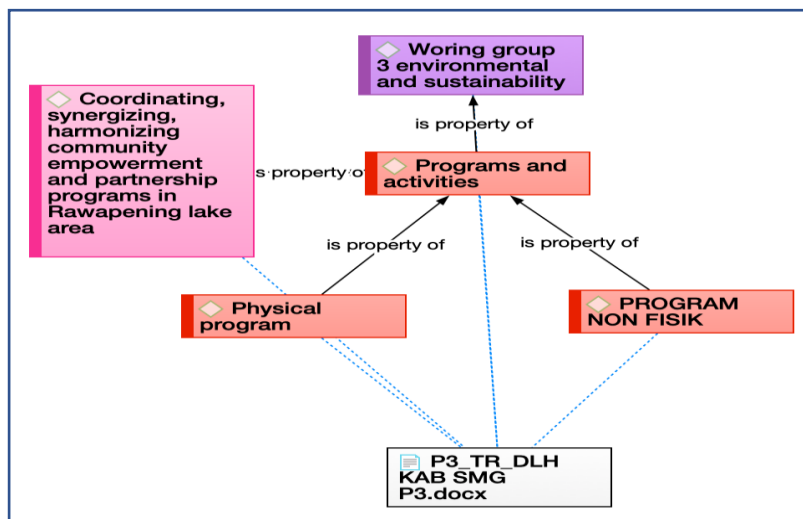
The duties working group 3 of environment and sustainability are: preparing workplan for senvironmental and sustainability activities, controlling, synergizing and harmonizing environmental activity programs in Rawapening lake, controlling and monitoring and evaluating the implementation of environmental programs and activities in Rawapening lake areas.



Pic 10. Duties of working grup 3

According to the informant currently many landfills are overloaded here in Semarang so they provide education and encourage the establishment of waste banks. They have carried out clean river program and this program is quite helpful in preventing garbage from entering the lake to prevent the garbage entering the lake water body.

Regarding the management of Rawapening lake they also stated that it is still currently done separately in sectoral. Several agencies were taking water sample from 13 different sample points and end up with 13 different results. This picture given an impression that each agencies only concerned about their own institutional respective interest.

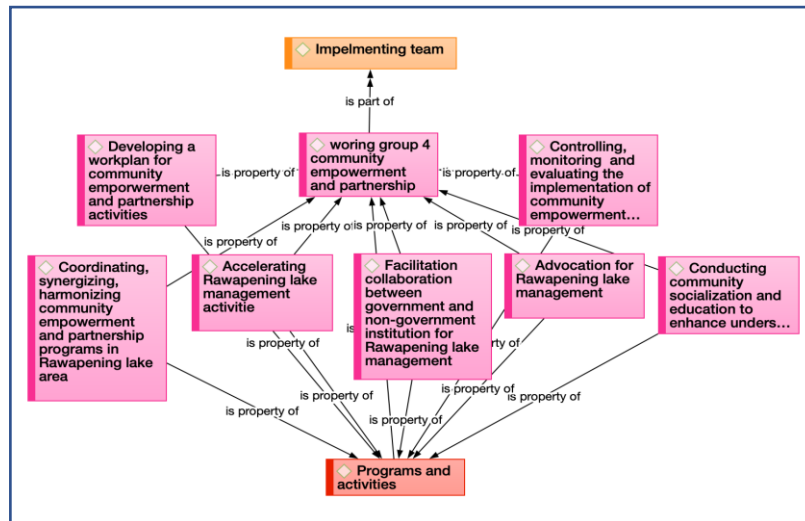


Pic 11. Informant Statement of Working Group 3

4.5 Working Group 4

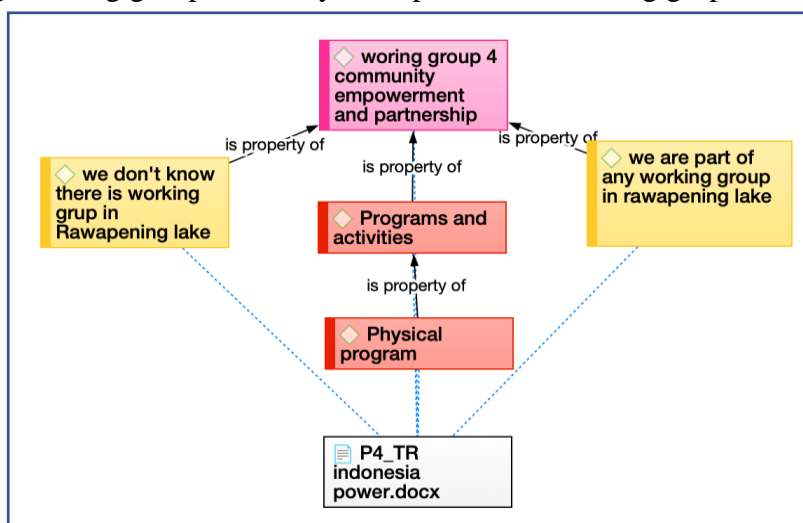
The duties working group 4 of community empowerment and partnership are: developing a workplan for community empowerment and partnership activities, coordinating, synergizing, harmonizing community empowerment and partnership programs in Rawapening lake areas, accelerating Rawapening lake management activities, facilitation

collaboration between government and non-government institution for Rawapening lake management, advocation for Rawapening lake management, conducting community socialization and education to enhance understanding of Rawapening lake activities management. controlling, monitoring, and evaluating the implementation of community empowerment programs and activities in Rawapening lake area.



Pic 12. Duties of working grup 4

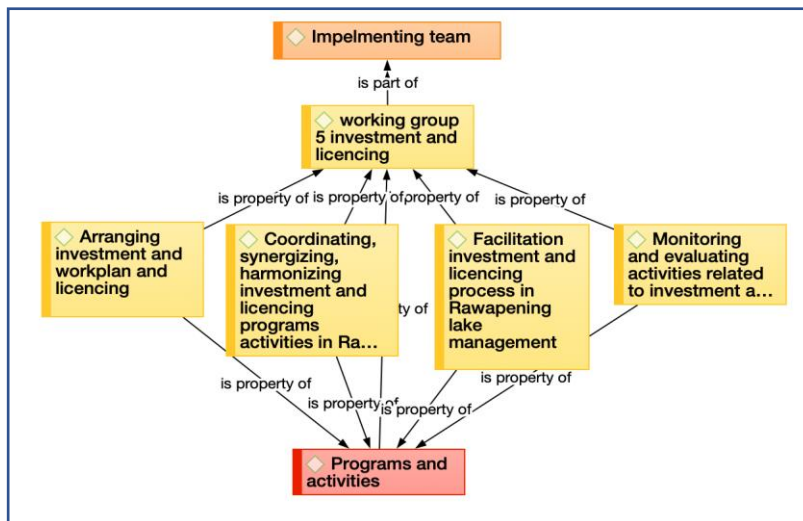
Informant for The working group 4 stated that the water tax is used for Rawapening lake management programs. The programs consist of sediment hauling, water way installation and water hyacinth cleaning Tuntang dam. They also have routine corporate social programs in Rawapening lake management such as conserving the upstream area of Rawapening lake, stocking fish seeds in the lake, and envorinmental socialization to the community. what is quite interesting from the informant statement is that they were not aware of the existence of Rawapening working groups and they were part of the working grup 4 member.



Pic 13. working grup 4 informant statement

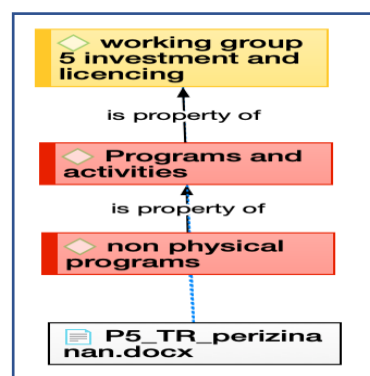
4.6 Working Group 5

The duties working group 5 of investment and licencing are: arranging investment and workplan and licencing, coordinating, synergizing, harmonizing investment and licencing programs activities in Rawapening lake area, facilitation investment and licencing process in Rawapening lake management, monitoring and evaluating activities related to investment and licencing in Rawapening lake area.



Pic 14. Duties of working group 5

The informant related to this working group stated that they gave permits to use water resources in Rawapening lake to certain company such as PT Indonesia Power and Sarana Tirta Ungara. They also gave permit to manage fish resources in Rawapening lake.



Pic 15. informant statement of working group 5

5. Conclusion

The lake management team has brought positive impact in Rawapening lake. Since it was established in 2019, the team had been carrying out some programs to give assistance to Rawapening lake management. The physical programs such as the watershed and the waterbody management, non-physical program such as community lake socialization and education. The result of this programs have been reportedly positive. The change in Rawapening lake condition was shown in the reduction of water hyacinth and floating fish cages in the waterbody of the lake.

But there is still no clear guidance that acting as the directing map for the management team to synergize all of their action programs. Based on informant statement from working group 3 most of the management team are doing the programs based on their own institutional respective interest

References

- [1] Haryani, S.G, Lake Condition in Indonesia and management strategies, Preceding of MLI annual scientific meeting 2(1), (2013)
- [2] Ari Wulandari, D., Kurniani, D., Edhisono, S., Ardianto, F., & Dahlan, D. The effect of small dams in Rawa Pening catchment area on sedimentation rate of Rawa Pening Lake. MATEC Web of Conferences, 270, 04018. (2019)
- [3] Balai Besar Wilayah Sungai Pemali Juana, Preparation of Rawapening Area Management Plan, (2000)
- [4] Ministry of environment, National Lake Priorities 2010-2014, (2010)
- [5] Cwntral Java Governor Decision Number 614/2019 Regarding Rawapening Lake Management Team (2019)
- [6] Aprilliyana, D. The effect of Changes in Rawapening Sub-Watershed Land Use on Lake Rawapening Erosion and Sedimentation. Journal of City and Regional Development, 11(1), 103. (2015).
- [7] Samudra, S. R., Soeprobowati, T. R., & Izzati, M.. Composite abundance and diversity of phytoplankton. Rawapening lake: Biological Scientific Periodic. (2013)
- [8] Jønch-Clausen, T. and Fugl, J.. Firming up the Conceptual Basis of Integrated Water Resources Management. Water Resources Development, 17, (4) 501–510. (2001)
- [9] Grindle, M. S. In Quest of the Political: The Political Economy of Development Policy Making - CID Working Paper, 1–29. (1999)
- [10] Nakamura, M. (n.d.), Sustainable Lake Management and the Role of ILBM.(2021)
- [11] James, M., Mark, A., & Single, M. Lake Level Management. In Lake Managers' Handbook. (2002).
- [12] Djuniawal, I., Salam, S., & Mulyani, S.. Analisis Pemanfaatan Danau Sentani Untuk Pengembangan