

Participants

ICENSO is held in the umbrella of UMY's ICOSI (International Conference on Sustainable Innovation). The records of the participants in the past four years are as follow:

Year	Number of Participants	Website
2022	1100++ participants	https://icosi.umy.ac.id/2022
2021	1200++ participants	https://icosi.umy.ac.id/2021
2020	1100++ participants	https://icosi.umy.ac.id/2020
2019	1050++ participants	https://icosi.umy.ac.id/2019

Committee of ICEnSO 2023

Scientific Committee

Editor in Chief

Prof. Dr. Dyah Mutiarin

Universitas Muhammadiyah Yogyakarta, Yogyakarta, Indonesia

Editors:

Minhaj Alam

Luleå tekniska Universitet, Sweden

Desmond Cahill

Royal Melbourne Institute of Technology, Australia

Assoc. Prof. Dr. Juwaidah Sharifuddin

Department of Agribusiness and Bioresource Economics, Universiti Putra Malaysia, Malaysia

Prof. Masateru Senge

United Graduate School of Agricultural Science, Gifu University, Japan

Dr. Anidah Robani

Institute of Technology Management & Entrepreneurship, Universiti Teknikal Malaysia Melaka, Malaysia

Dr. Pakapon Saiyut

Department of Agricultural Economics, Khon Kaen University, Thailand

Prof. Achmad Nurmandi

Universitas Muhammadiyah Yogyakarta, Indonesia



Organizing Committee

Advisory Board Prof. Dyah Mutiarin

General Manager Abdul Rasyid Ghazali, M.Sc.

Secretary Bunga Rizkia Nanda

Publication Aulia Nur Kasiwi, M.IP.

Event Manager Essa Rahmadhani, S.IP

Titin Resiana, S.P.

Administrator Nasikhun Imawan

Nuraini Luthfi Istiqomah

Contact

Below is the main gate for ICEnSO correspondence.

Website : www.icenso.umy.ac.id/2023

Email : <u>icenso@umy.ac.id</u>

Phone : +62 812 1205 0858 (Admin)

□ Ope

Design of Public Service Transformation in Kulon Progo Regency Towards Agile Governance Through Sistem Informasi Penanganan Stunting (Si Penting) Program 02003

Awang Darumurti, Muhammad Eko Atmojo and Vicky Alfitra Perdana

Published online: 01 November 2023

DOI: https://doi.org/10.1051/e3sconf/202344002003 Abstract | PDF (1.339 MB) | References | NASA ADS Abstract Service

Dpen Access

The Digitalization Approach in The Paddy Sector To Achieve The Self-Sufficiency Level In Malaysia 02004

Ahmad Zubir Ibrahim

Published online: 01 November 2023

DOI: https://doi.org/10.1051/e3sconf/202344002004

Abstract | PDF (2.425 MB) | References | NASA ADS Abstract Service

Open Access

Bridging the Urban-Rural Divide: Exploring the Potential of Smart Technologies for Rural Micro-Enterprises in Yogyakarta City, Indonesia 02005

Muhammad Eko Atmojo and Helen Dian Fridayani

Published online: 01 November 2023

DOI: https://doi.org/10.1051/e3sconf/202344002005

Abstract | PDF (1.361 MB) | References | NASA ADS Abstract Service

Open Access

Controlling Forest and Land Fires in Riau Province using Collaborative Governance: Support for Smart Environment 02006

Dita Fisdian Adni

Published online: 01 November 2023

DOI: https://doi.org/10.1051/e3sconf/202344002006

Abstract | PDF (1.804 MB) | References | NASA ADS Abstract Service

Controlling Forest and Land Fires in Riau Province using Collaborative Governance: Support for Smart Environment

Dita Fisdian Adni^{1*}

Abstract. Riau Province is one of the provinces with the largest areas of forest and land fires in Indonesia. Therefore, a collaboration between agencies is needed, both government agencies and non-government organizations at the national, provincial and district/city levels, to control forest and land fires. This research aims to explore forest and land fire control in Riau Province using collaborative governance. This quantitative research is analyzed with structural equation modeling (SEM) techniques using SmartPLS to analyze data and test hypotheses. Data were obtained from 150 questionnaires distributed to multi-actors consisting of five (5) organizations involved in collaborative land and forest fire control in Riau Province. The results showed that controlling forest and land fires in Riau Province can be done using collaborative governance. This is evidenced by the hypothesis results, where culture significantly influences trust in collaboration. Furthermore, trust also has a positive effect on the output of collaboration, and output also affects the outcome of collaboration. However, facilitating leadership and institutional design does not significantly impact trust in collaboration to control forest and land fires in Riau Province. The collaborative governance model by Ansell and Gash was developed by adding culture and output indicators. In addition, this research also considers the application of a smart environment in discussing collaborative governance to support environmental sustainability in the future.

Keywords: adoption of collaborative governance, smart environment, forest and land fires, environmental sustainability

1 Introduction

Forest fires are caused either naturally or by man. Only 20% of forest and land fires occur naturally, while most other fires are caused by human actions [1]. Human actions that cause forest and land fires include the habit of people who clear land by burning, which is even worse than the clearing and clearing of forests and land carried out by plantation companies

© The Authors, published by EDP Sciences. This is an open access article distributed under the terms of the Creative Commons Attribution License 4.0 (https://creativecommons.org/licenses/by/4.0/).

¹ Department of Islamic Politics-Political Science, Universitas Muhammadiyah Yogyakarta, Bantul; Universitas Islam Riau, Pekanbaru, Indonesia

^{*} Corresponding author: ditafisdianadni@soc.uir.ac.id

[2].Riau Province is one of six provinces in Indonesia besides Jambi, South Sumatra, West Kalimantan, Central Kalimantan, and South Kalimantan Provinces worst affected by fires in 2016 [3]. Riau Province has a large area of forest and land fires and is located in a peatland area prone to fire [4]. The total area of fires in Riau Province is reported to be around 90,709 km2, which is about 19.02% of the total fire area on Sumatra Island [5].

Many efforts have been made to control forest and land fires [6]. Several attempts were made to incorporate elements of technology in controlling forest and land fires [7]. The technology used includes weather modification technology, a human intervention in forming rain in clouds [8]. In addition, another form of technology is a Web-based dissemination system of Geographic Information Systems with the Geonode application, where this system is used to facilitate the dissemination of information on the distribution of hotspots [9].

Regardless of the use of technology in controlling it, forest and land fires are a problem that requires cooperation or collaboration from various institutions, both at the national, provincial, and district/city levels. The involvement of these institutions requires an organizational system that works in an integrated and harmonious manner so that it is effective and efficient [10]. Controlling forest and land fires in Riau Province involves many institutions, such as the central government, regional governments, non-governmental organizations, and other professional parties [11].

This shows that involving many human resources must be well coordinated so that sectoral differences and ego in collaborating institutions do not become an obstacle in controlling forest and land fires [12]. Researchers developed a collaborative governance model by Ansell and Gash (2008) to test hypotheses related to forest and land fire control in Riau Province by using collaborative governance by adding cultural and output indicators.

2 Method

Data was collected by distributing questionnaires to actors controlling forest and land fires in Riau Province. A population sample was drawn using the Slovin formula with one hundred and fifty (150) people. In addition, interviews were also conducted to find out how to control forest and land fires in Riau Province using collaborative governance. The collected data were analyzed using structural equation modeling (SEM) techniques and measurement models through statistical tools, namely SmartPLS, to analyze data and test hypotheses. Measurement models are used to test validity and reliability, while structural models are used to test quality and hypotheses.

Table 1. Population and Samples

THE TYT OF WHATCH WHO SWITTED				
Population	Sample			
45	40			
35	33			
32	30			
30	28			
20	19			
162	150			
	45 35 32 30 20			

Source: processed from primary data in 2021

3 Literature Review

The concept of governance has developed over time [13]. There are several variants in the concept of governance which include good governance [14], network government [15],

partnership governance [16], new public governance [17], sound governance [18], to collaborative governance. Conceptually, collaborative governance studies highlight the characteristics of cooperation among the three pillars, namely government, private sector, and society [19].

For more than two decades, collaborative governance has attracted the attention of academics and practitioners in various disciplines [20]–[22]. According to Klijn and Koppenjan, in practice, collaborative governance requires complex interactions between a large number of actors who are interdependent on one another. However, this interaction is more complex and spontaneous, requiring management and network constitution to achieve a certain degree of success [23].

Collaborative governance is a concept that is often used to address various public problems in several fields, such as the problem of disaster mitigation [24], food security [25], prostitution and human trafficking [26] and countermeasures Covid 19 [27]. Likewise, issues regarding forest and land fires can be controlled using the concept of collaborative governance [28].

Forest and land fires cause several adverse effects, the first of which is haze which threatens public health due to acute respiratory infections, destroys plant vegetation and natural resources, closes offices and schools, and incurs substantial firefighting and rebuilding costs [29]–[31]. Systematic and orderly management of forest and land fires is required to control forests and land fires successfully [32].

According to Wirawan, curative efforts to control forest and land fires have been considered ineffective and wasteful and have not provided a deterrent effect [33]. Seeing the ineffectiveness of efforts to control forest and land fires, the President issued Presidential Instruction Number 11 of 2015 concerning Strengthening Forest and Land Fire Control, renewed in 2020 in Presidential Instruction Number 3 of 2020.

The Presidential Instruction emphasizes strengthening control through multi-sectoral collaboration and instructs Regional Heads, as administrators of government affairs in the forestry sector, to compile regional regulations regarding the system for controlling forest and land fires [34]. However, even though regulations and laws related to forest and land fires have been issued, these incidents continue to recur [35].

3.1 Culture in Collaborative Governance

The result of the collaboration is networking and purpose. The formation of networks will form a collaborative process [15]. The network formed from the collaboration will develop an organizational culture that will further affect the sustainability of the collaboration [36], as stated by Djumara [37] who described that one of the components of collaboration is Collaborative Culture. Meanwhile, according to Schein, culture is the attitude, behavior, habits, and values that determine how the organization works [38].

H-1: Culture influences Collaborative Process, which is focused on trust.

3.2Trust-Building

Some literature states that the collaboration process is about negotiation and building trust among stakeholders [39]–[42]. It was found that building trust is often the most salient aspect early in the collaboration process and is difficult to grow [43].

H-2: Trust affects the output of collaboration.

3.3Facilitative Leadership

The literature finds that facilitative Leadership is important to bring stakeholders together and engage them in a collaborative spirit [44]. Lasker and Weiss argue that the facilitative leader should "give participants a meaningful voice" and encourage participants to listen to one another. Leaders must stimulate creativity by "synthesizing the knowledge of diverse participants so that the group can generate new ideas and insights" [45].

H-3: Facilitate Leadership has a significant influence on trust.

3.4 Institutional Design

Institutional design refers to basic rules and procedures and transparency in the collaboration process [19]. Institutional designs are agreed-upon rules based on consensus among stakeholders [46]. In collaborative governance, consensus is seen as a way to promote the representation of individual viewpoints and encourage cooperation [47]. However, consensus rules are often criticized for leading to "most unequal" results [48].

H-4: Institutional Design has a significant influence on trust.

3.5Output and Outcome in Collaborative Governance

One of the core questions regarding the performance of collaborative governance is the extent to which they produce outputs and outcomes. Does it provide benefits to society [49]? Collaboration contributes to outcomes, for example, facilitating planning and policy development and increasing the effectiveness and efficiency of that collaboration [50] by spurring innovation and novelty [51], [52] or enhancing the delivery of services that effective [53], [54].

H-5: The collaboration output produces outcomes through policies, controlled forest fires and forest restoration.

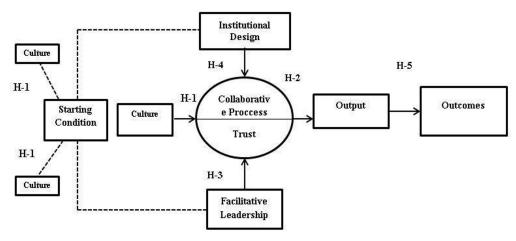


Fig. 1. Conceptual Framework

4 Findings and Discussion

4.1 Structural Model Validity test

The first and second criteria, namely Convergent and Discriminant Validities, can be seen from the results of the outer model value, namely the AVE value. The validity of AVE data has a limit value and is valid or invalid if the value is above or below 0.50. Data validity seen from cross-loading also has a valid limit value. The cross-loading value is said to be valid and invalid if the cross-loading value is above or below 0.50, respectively.

Table 2. Validity Test

Variables	Indicators (Questionnaire Question)	Loading Factor	AVE	Des
Culture	Cul 1	0.844		Valid
	Cul 2	0.864		Valid
	Cul 3	0.874		Valid
	Cul 4	0.899	0.688	Valid
	Cul 5	0.849	0.088	Valid
	Cul 6	0.833		Valid
	Cul 7	0.746		Valid
	Cul 8	0.711		Valid
Trust	Tr 1	0.863		Valid
	Tr 2	0.804		Valid
	Tr 3	0.875		Valid
	Tr 4	0.836	0.686	Valid
	Tr 5	0.855	0.080	Valid
	Tr 6	0.819		Valid
	Tr 7	0.789	1	Valid
	Tr 8	0.779		Valid
Facilitate	FL 1	0.759		Valid
Leadership	FL 2	0.749	1	Valid
	FL 3	0.830		Valid
	FL 4	0.737	0.637	Valid
	FL 5	0.790	0.037	Valid
	FL 6	0.830		Valid
	FL 7	0.831		Valid
	FL 8	0.848		Valid
Institutional	ID 1	0.557		Valid
Design	ID 2	0.909		Valid
	ID 3	0.807		Valid
	ID 4	0.579	0.534	Valid
	ID 5	0.597	0.334	Valid
	ID 6	0.905		Valid
	ID 7	0.597		Valid
	ID 8	0.787		Valid
Output	OP 1	0.804	_	Valid
	OP 2	0.811	0.525	Valid
	OP 3	0.798	0.323	Valid
	OP 4	0.823		Valid

	OP 5	0.714		Valid
	OP 6	0.563		Valid
	OP 7	0.672		Valid
	OP 8	0.549		Valid
Outcome	OC 1	0.835		Valid
	OC 2	0.821		Valid
	OC 3	0.819		Valid
	OC 4	0.837	0.605	Valid
	OC 5	0.819	0.003	Valid
	OC 6	0.818		Valid
	OC 7	0.651		Valid
	OC 8	0.573		Valid

The results of the validity test in Table 1 show that all questions in each research variable consisting of culture, trust, facilitating leadership, institutional design, output and outcome have a loading factor value above 0.500. Therefore, all questions in all the research variables above are valid or meet convergent validity.

4.2 Reability Test

Reliability is an index that shows how much a measuring instrument can be trusted or relied upon. This study uses composite reliability to test variables. According to research, the Rule of thumb, the alpha or Composite reliability value must be greater than 0.7, although 0.6 is still acceptable.

Tabel 3. Composite Reliability dan Cronbachsalpha

Variables	Cronbach's Alpha	rho_A	Composite Reability	Average Variance Extracted (AVE)	Ket
Culture	0.935	0.939	0.946	0.688	Realible
Facilitate Leadership	0.934	0.737	0.933	0.637	Realible
Institutional Design	0.932	0.925	0.898	0.534	Realible
Outcome	0.944	0.909	0.923	0.605	Realible
Output	0.866	0.868	0.896	0.525	Realible
Trust	0.903	0.937	0.946	0.686	Realible

Based on the output of composite reliability and Cronbach alpha in Table 3 above, each construct's value is above 0.70. The culture variable has Composite Reliability and Cronbach's Alpha values, namely 0.935 and 0.946. Meanwhile, the trust variable has Composite Reliability and Cronbach's Alpha values of 0.934 and 0.946. Furthermore, Facilitate Leadership has Composite Reliability and Cronbach's Alpha values of 0.930 and 0.936. Furthermore, the institutional design variable has Composite Reliability and Cronbach's Alpha values of 0.944 and 0.898.

The Output variable has Composite Reliability and Cronbach's Alpha values of 0.866 and 0.896. Finally, the outcome variable has Composite Reliability and Cronbach's Alpha values of 0.903 and 0.923. Based on the explanation above, the value or output of composite reliability and Cronbach alpha in the table above shows that the value of each construct is

above 0.70. So it can be concluded that each construct in the estimated model has good reliability.

4.3 Regression Analysis

Regression testing was carried out to determine the relationship between constructs, significance value, and R-square of the research model.

 Table 4. Regression Results

Variables	R Square
Outcome	0.696
Output	0.638
Trust	0.688

The table above shows the R-square values of forest and land fire control using collaborative governance on the outcome, output, and trust variables, respectively, 0.696, 0.638, and 0.688. Based on the table above, it can be concluded that forest and land fire control uses collaborative governance, the variables consisting of outcome and trust have a good level because the R-square value is greater than 0.670. At the same time, the output has a moderate level of influence because the R-square value is above 0.330.

4.4 Research Implication

Based on testing the model of the aggregate and comparative research results, this research proposes a theory of collaborative governance in controlling forest and land fires in Riau Province. Therefore, based on regression weighting, path coefficients, and testing the hypothesis on the relationship between variables, culture and output are determining factors that complement Ansell & Gash's collaborative governance theory. This relationship is shown in the figure and table below:

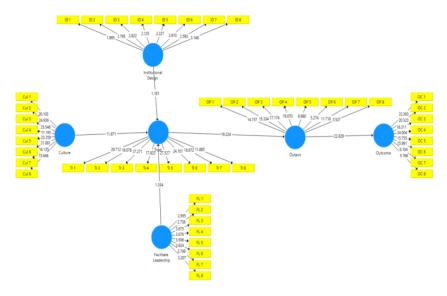


Fig. 2. Bootstrapping Output

Table	5.	Hypothesis	Test	Results
-------	----	------------	------	---------

Variabel	T Statistics	P Values	Penilaian Hipotesis
Culture -> Trust	11.871	0.000	Accepted
Facilitate Leadership -> Trust	1.334	0.183	Rejected
Institutional Design -> Trust	1.181	0.238	Rejected
Output -> Outcome	22.829	0.000	Accepted
Trust -> Output	19.224	0.000	Accepted

4.5 Discussion

Figure 2 and Table 5 above show the results of testing the hypothesis in this study. The hypothesis is accepted with the assumption that the T-statistic value in the figure is greater than 1.96 (<1.96). Therefore, based on the figure above, the variables that facilitate leadership and institutional design do not significantly influence trust in collaborative governance.

H1. Figure 2 and Table 5 show that culture positively and significantly influences trust in implementing collaborative governance in controlling forest and land fires in Riau Province. The culture maintained in collaboration in controlling forest and land fires is also the reason for the lack of collaboration because there is still dominance from the government, which needs to carry out agreements based on cooperation. This finding is similar to previous research that culture influences trust in collaboration positively and negatively [55].

H2. Figure 2 and Table 5 show that facilitating leadership has a negative and insignificant effect on trust. The leadership possessed by the forest and land fire control task force in Riau Province has yet to be able to foster trust among the institutions that join the task force. This finding is similar to another insignificant effect of facilitated leadership on trust in this study [56].

H3. Figure 2 and Table 5 show that institutional design has a negative and insignificant effect on trust. Overlapping institutional designs will affect the effectiveness of collaborative governance in controlling land and forest fires in Riau Province, making it impossible for trust to grow between the actors involved in the collaboration. These findings are similar because there is a significant relationship between institutional design influencing trust in implementing collaborative governance [57].

H4. Figure 2 and Table 5 show that the output positively or significantly influences the outcome. The intended output is the discovery of a coordinated and integrated pattern of controlling forest and land fires in Riau Province. Afterward, the outcome that will be realized is controlled forest and land fires that occur in Riau Province. This finding is supported by previous research conducted by [58], [59], which states that when the output is successfully realized, the outcome will immediately follow.

H5. Figure 2 and Table 4 show that trusts positively and significantly affects output. The growing trust between institutions collaborating on forest and land fires in Riau Province will certainly accelerate the achievement of medium or short-term output or results. This finding is similar to previous research that trust will influence collaboration output [60].

Trust, an important factor in this study, also has implications relevant to the smart environment concept. In a smart environment, trust between the various actors and institutions is essential for establishing effective cooperation and ensuring the successful implementation of smart solutions. Trust that grows between institutions, government, communities and other stakeholders will strengthen collaboration and coordination in controlling forest and land fires. With high trust, various parties will be more likely to share data and information, coordinate efforts to prevent and deal with fires and take sustainable actions to maintain environmental sustainability. In the context of a smart environment, building strong trust will support closer collaboration between people and technology and accelerate the adoption and implementation of smart solutions that can improve forest and land fire management.

5 Conclusion

This research aims to explore forest and land fire control in Riau Province by using collaborative governance through the development of Ansel & Gash's model. In this study, the authors added two variables, namely culture and output, followed by other variables, namely trust building, facilitating leadership, institutional design and outcomes. The results show that collaborative governance can be used in controlling forest and land fires in Riau Province, although the results could be more optimal. This can be proven by the results of the hypothesis, which shows that culture significantly influences trust in collaboration. Furthermore, trust also positively affects output, and output also influences the outcome of collaboration. However, facilitating leadership and institutional design have no significant effect on trust. Furthermore, collaboration results will be maximized if it is accompanied by technologies that can control or even prevent forest and land fires in Riau Province.

This research has strong relevance to the smart environment concept. The implementation of collaborative governance in controlling forest and land fires in Riau Province can be integrated with technology and the smart environment concept. For example, advanced technology such as fire sensors, remote sensing, and data analytics can detect forest and land fires early and monitor environmental conditions in real time. This needs to be considered in the future to overcome existing problems. With collaboration between various institutions and stakeholders in managing forest and land fires, the data and information collected can be used effectively to make the right decisions and coordinate efforts to deal with fires. In the context of a Smart Environment, technology-supported collaborative

governance can improve efficiency, accuracy and response speed in overcoming forest and land fires.

References

- [1] S. P. Vasudeva, "Disastrous Forest Fires: Management and Control," *Indian J. Public Adm.*, vol. 64, no. 2, pp. 237–253, 2018, doi: 10.1177/0019556117750900.
- [2] F. Asteriniah and Sutina, "Implementasi Kebijakan Pengendalian Kebakaran Hutan dan Lahan Gambut Di Ogan Komering Ilir," *Abdimas Mandiri*, vol. 1, no. 2, pp. 165–186, 2017.
- [3] H. L. Tata, B. H. Narendra, and Mawazin, "Forest and land fires in Pelalawan district, Riau, Indonesia: Drivers, pressures, impacts and responses," *Biodiversitas*, vol. 19, no. 2, pp. 494–501, 2018, doi: 10.13057/biodiv/d190224.
- [4] B. H. Saharjo and W. A. Velicia, "Peran Curah Hujan Terhadap Penurunan Hotspot Kebakaran Hutan Dan Lahan Di Empat Provinsi Di Indonesia Pada Tahun 2015-2016 the Role of Rainfall Towards Forest and Land Fires Hotspot Reduction in Four Districs in Indonesia on 2015-2016," *J. Silvikultur Trop.*, vol. 9, no. 1, pp. 24–30, 2018.
- [5] J. Miettinen, C. Shi, and S. C. Liew, "Fire Distribution in Peninsular Malaysia, Sumatra and Borneo in 2015 with Special Emphasis on Peatland Fires," *Environ. Manage.*, vol. 60, no. 4, pp. 747–757, 2017, doi: 10.1007/s00267-017-0911-7.
- [6] E. Çolak and F. Sunar, "Evaluation of forest fire risk in the Mediterranean Turkish forests: A case study of Menderes region, Izmir," *Int. J. Disaster Risk Reduct.*, vol. 45, no. September 2019, p. 101479, 2020, doi: 10.1016/j.ijdrr.2020.101479.
- [7] S. V. Razavi-Termeh, A. Sadeghi-Niaraki, and S. M. Choi, "Ubiquitous GIS-based forest fire susceptibility mapping using artificial intelligence methods," *Remote Sens.*, vol. 12, no. 10, 2020, doi: 10.3390/rs12101689.
- [8] S. Nuryanto, F. H. Widodo, and R. D. Goenawan, "Peran Teknologi Modifikasi Cuaca Dalam Penanggulangan Bencana Hidrometeorologi Kebakaran Hutan Dan Lahan Di Provinsi Kalimantan Barat Tahun 2019," in *Prosiding Seminar Nasional Pendidikan Geografi Uhamka 2020*, 2020, pp. 60–71.
- [9] T. Hidayat, M. Priyatna, A. Sutanto, A. Alkhudri, and R. Khomarudin, "Informasi Sebaran Titik Panas Berbasis WebGIS untuk Pemantauan Kebakaran Hutan dan Lahan di Indonesia," *J. Teknol. Lingkung.*, vol. 20, no. 1, p. 105, 2019, doi: 10.29122/jtl.v20i1.2961.
- [10] K. Sengdara, A. Sukendro, and Heridadi, "The Role of the Government of Riau Provincial in Dealing with Forest and Land Fires," in *3rd International Conference on Disaster Management*, 2023, pp. 1–9, doi: 10.1088/1755-1315/1173/1/012063.
- [11] Suhendri and E. P. Purnomo, "Penguatan Kelembagaan Dalam Pencegahan dan Pengendalian Kebakaran Hutan dan Lahan di Kabupaten Muaro Jambi Provinsi Jambi," *J. Gov. Public Policy*, vol. 4, no. 1, pp. 174–204, 2017, doi: 10.18196/jgpp.4175.
- [12] A. R. Hakim, E. Larasati, S. Suwitri, and I. H. Dwimawanti, "Factors That Affecting Collaborative Governance in Peat Restoration in Ogan Komering Ilir Regency, South Sumatera Province," in *Section 5. Environmental Economics*, 2021, pp. 63–73.
- [13] Y. Keping, "Governance and Good Governance: A New Framework for Political Analysis," *Fudan J. Humanit. Soc. Sci.*, vol. 11, no. 1, pp. 1–8, 2018, doi: 10.1007/s40647-017-0197-4.
- [14] J. Joseph, "Resilience as embedded neoliberalism: a governmentality approach," *Resil. Int. Policies, Pract. Discourses*, vol. 1, no. 1, pp. 38–52, 2013, doi: 10.1080/21693293.2013.765741.
- [15] Provan, Keith and Kenis, Patrick, "Modes of Network Governance: Structure, Management, and Effectiveness," *J. Public Adm. Res. Theory*, vol. 18, no. 2, pp. 229–252, 2007.

- [16] H. A. D. Munro, M. Roberts, and C. Skelcher, "Partnership Governance and Democratic Effectiveness: Community Leaders and Public Managers as Dual Intermediaries," *Public Policy Adm.*, vol. 23, no. 1, 2008, doi: https://doi.org/10.1177/0952076707083286.
- [17] S. P. Osborne, *The New Public Governance?: Emerging perspectives on the theory and practice of public governance*. 2010.
- [18] A. Farazmand, *Sound governance: policy and administrative innovations*. Praeger Publishers, Westport, Conn., 2004.
- [19] C. Ansell and A. Gash, "Collaborative governance in theory and practice," *J. Public Adm. Res. Theory*, vol. 18, no. 4, pp. 543–571, 2008, doi: 10.1093/jopart/mum032.
- [20] L. B. Amsler, "Collaborative Governance: Integrating Management, Politics, and Law," *Public Adm. Rev.*, vol. 75, no. 5, pp. 700–711, 2016, doi: 10.1111/puar.12605.Collaborative.
- [21] C. Doberstein, "Designing Collaborative Governance Decision-Making in Search of a 'Collaborative Advantage," *Public Manag. Rev.*, vol. 18, no. 6, pp. 819–841, 2015, doi: 10.1080/14719037.2015.1045019.
- [22] K. Emerson and A. K. Gerlak, "Teaching Collaborative Governance Online: Aligning Collaborative Instruction with Online Learning Platforms," *J. Public Aff. Educ.*, vol. 22, no. 3, pp. 327–344, 2016, doi: 10.1080/15236803.2016.12002251.
- [23] C. Bianchi, G. Nasi, and W. C. Rivenbark, "Implementing collaborative governance: models, experiences, and challenges," *Public Manag. Rev.*, vol. 23, no. 11, pp. 1581–1589, 2021, doi: 10.1080/14719037.2021.1878777.
- [24] S. Riadi, "A Collaborative Governance Study in the Mitigation of Post-Earthquake, Tsunami, and Liquefaction Disasters in Palu City, Indonesia," *Management*, vol. 13, no. 9, pp. 499–512, 2020.
- [25] M. D. Hikmawan, A. Hamid, B. Nurrohman, G. Ramadhan, and Y. M. Mayrudin, "Collaborative Governance Model on Agricultural Business in Banten, Indonesia," *J. Transform.*, vol. 6, no. 2, pp. 176–201, 2020, doi: 10.21776/ub.transformative.2020.006.02.3.
- [26] J. Erikson and O. L. Larsson, "Beyond client criminalization: Analyzing collaborative governance arrangements for combatting prostitution and trafficking in Sweden," *Regul. Gov.*, vol. 16, no. 3, pp. 818–835, 2022, doi: 10.1111/rego.12259.
- [27] I. Y. F. Huang, "Fighting COVID-19 through Government Initiatives and Collaborative Governance: The Taiwan Experience," *Public Adm. Rev.*, vol. 80, no. 4, pp. 665–670, 2020, doi: 10.1111/puar.13239.
- [28] S. Roengtam and A. Agustiyara, "Collaborative governance for forest land use policy implementation and development," *Cogent Soc. Sci.*, vol. 8, no. 1, 2022, doi: 10.1080/23311886.2022.2073670.
- [29] R. B. Edwards, R. L. Naylor, M. M. Higgins, and W. P. Falcon, "Causes of Indonesia's forest fires," *World Dev.*, vol. 127, pp. 1–13, 2020, doi: 10.1016/j.worlddev.2019.104717.
- [30] E. P. Purnomo, R. Ramdani, Agustiyara, A. Nurmandi, D. W. Trisnawati, and A. T. Fathani, "Bureaucratic inertia in dealing with annual forest fires in Indonesia," *Int. J. Wildl. Fire*, vol. 30, no. 10, pp. 733–744, 2021, doi: 10.1071/WF20168.
- [31] N. H. Wolff, Y. J. Masuda, E. Meijaard, J. A. Wells, and E. T. Game, "Impacts of tropical deforestation on local temperature and human well-being perceptions," *Glob. Environ. Chang.*, vol. 52, no. July, pp. 181–189, 2018, doi: 10.1016/j.gloenvcha.2018.07.004.
- [32] T. Maylani and D. Mashur, "Collaborative Governance Dalam Pencegahan Kebakaran Hutan Dan Lahan Gambut," *J. Kebijak. Publik*, vol. 10, no. 2, p. 105, 2019, doi: 10.31258/jkp.10.2.p.105-110.

- [33] M. O. Damanik and A. Y. S. Rahayu, "Kolaborasi Pencegahan Kebakaran Hutan dan Lahan di Provinsi Riau Ditinjau Dari Model Tata Kelola Kolaboratif," *Publikauma J. Adm. Publik Univ. Medan Area*, vol. 9, no. 2, pp. 44–54, 2021, doi: 10.31289/publika.v9i2.5922.
- [34] D. Ruswandi, "Collaborative Governance on Natural Disaster Management A Study on Forest and Land Fires in Central Kalimantan," *Al Qalam J. Ilm. Keagamaan dan Kemasyarakatan*, vol. 17, no. 1, p. 387, 2023, doi: 10.35931/aq.v17i1.1813.
- [35] I. Kemal Putra, B. Hero Saharjo, and B. Wasis, "Institutional Challenge on Forest and Land Fire Management at the Site Level," *J. Ilmu Pertan. Indones.*, vol. 24, no. 2, pp. 151–159, 2019, doi: 10.18343/jipi.24.2.151.
- [36] R. O'Leary and L. B. Bingham, *THE COLLABORATIVE PUBLIC MANAGER: New Ideas for the Twenty-First Century*. Georgetown Univ. Press, 2009.
- [37] A. S. Muhammad, T. Warsito, U. Pribadi, and A. Nurmandi, "Collaborative Governance Model in Managing International Borders in Riau Islands Province using Partial Least Squares Method," *JKAP (Jurnal Kebijak. dan Adm. Publik)*, vol. 21, no. 2, p. 166, 2017, doi: 10.22146/jkap.28097.
- [38] L. Yang, "Types and Institutional Design Principles of Collaborative Governance in a Strong-Government Society: The Case Study of Desertification Control in Northern China," *Int. Public Manag. J.*, vol. 20, no. 4, pp. 586–623, 2017, doi: 10.1080/10967494.2016.1141812.
- [39] P. Glasbergen and P. P. J. Driessen, "Interactive planning of infrastructure: The changing role of Dutch project management," *Environ. Plan. C Gov. Policy*, vol. 23, no. 2, pp. 263–277, 2005.
- [40] M. T. Imperial, "Using collaboration as a governance strategy: Lessons from six watershed management programs," *Adm. Soc.*, vol. 37, no. 3, pp. 281–320, 2005.
- [41] L. Tett, J. Crowther, and P. O'Hara, "Collaborative partnerships in community education," *J. Educ. Policy*, vol. 18, no. 1, pp. 37–51, 2003.
- [42] S. Vangen and C. Huxham, "Nurturing collaborative relations: Building trust in interorganizational collaboration," *J. Appl. Behav. Sci.*, vol. 39, no. 1, pp. 5–31, 2003.
- [43] B. S. Murdock, C. Wiessner, and K. Sexton, "Stakeholder participation in voluntary environmental agreements: Analysis of 10 Project XL case studies," *Sci. Technol. Hum. Values*, vol. 30, no. 2, pp. 223–250, 2005.
- [44] C. Ansell, C. Doberstein, H. Henderson, S. Siddiki, and P. 't Hart, "Understanding inclusion in collaborative governance: a mixed methods approach," *Policy Soc.*, vol. 39, no. 4, pp. 570–591, 2020, doi: 10.1080/14494035.2020.1785726.
- [45] J. E. Mosley and M. Jarpe, "How Structural Variations in Collaborative Governance Networks Influence Advocacy Involvement and Outcomes," *Public Adm. Rev.*, vol. 79, no. 5, pp. 629–640, 2019, doi: 10.1111/puar.13037.
- [46] S. A. Latif and R. Febrian, "Collaborative Governance: Countering Narcotics Abuse in Indonesia," *J. Gov.*, vol. 7, no. 3, 2022, doi: 10.31506/jog.v7i3.16673.
- [47] R. D. Margerum, "Collaborative planning building consensus and building a distinct model for practice," *J. Plan. Educ. Res.*, vol. 21, no. 3, pp. 237–253, 2002, doi: 10.1177/0739456X0202100302.
- [48] J. Breaugh, M. Rackwitz, and G. Hammerschmid, "Leadership and institutional design in collaborative government digitalisation: Evidence from Belgium, Denmark, Estonia, Germany, and the UK," *Gov. Inf. Q.*, no. January, p. 101788, 2023, doi: 10.1016/j.giq.2022.101788.
- [49] T. M. Koontz and C. W. Thomas, "What do we know and need to know about the environmental outcomes of collaborative management?," *Public Adm. Rev.*, vol. 66, no. Special Issue, pp. 111–121, 2006, doi: 10.1111/j.1540-6210.2006.00671.x.
- [50] N. Ulibarri, "Tracing Process to Performance of Collaborative Governance: A

- Comparative Case Study of Federal Hydropower Licensing," *Policy Stud. J.*, vol. 43, no. 2, pp. 283–308, 2015, doi: 10.1111/psj.12096.
- [51] C. Ansell and J. Torfing, *Public innovation through collaboration and design*. London: Routledge, 2014.
- [52] E. Sørensen and S. B. Waldorff, "Collaborative policy innovation: Problems and potential," *Innov. J.*, vol. 19, no. 3, 2014.
- [53] B. Chen and E. A. Graddy, "The effectiveness of nonprofit lead-organization networks for social service delivery," *Nonprofit Manag. Leadersh.*, vol. 20, no. 4, pp. 405–422, 2010, doi: 10.1002/nml.
- [54] J. Schalk, "Linking Stakeholder Involvement to Policy Performance: Nonlinear Effects in Dutch Local Government Policy Making," *Am. Rev. Public Adm.*, vol. 47, no. 4, pp. 479–495, 2017, doi: 10.1177/0275074015615435.
- [55] K. Eckerberg, T. Bjärstig, and A. Zachrisson, "Incentives for Collaborative Governance: Top-Down and Bottom-Up Initiatives in the Swedish Mountain Region," *Mt. Res. Dev.*, vol. 35, no. 3, pp. 289–298, 2015, doi: 10.1659/MRD-JOURNAL-D-14-00068.1.
- [56] J. K. Agbodzakey, "Leadership in Collaborative Governance: The Case of HIV/AIDS Health Services Planning Council in South Florida," *Int. J. Public Adm.*, vol. 44, no. 13, pp. 1051–1064, 2021, doi: 10.1080/01900692.2020.1759627.
- [57] E. Bell and T. A. Scott, "Common institutional design, divergent results: A comparative case study of collaborative governance platforms for regional water planning," *Environ. Sci. Policy*, vol. 111, no. June 2019, pp. 63–73, 2020, doi: 10.1016/j.envsci.2020.04.015.
- [58] J. C. Biddle and T. M. Koontz, "Goal specificity: A proxy measure for improvements in environmental outcomes in collaborative governance," *J. Environ. Manage.*, vol. 145, no. July, pp. 268–276, 2014, doi: 10.1016/j.jenvman.2014.06.029.
- [59] N. Ulibarri, K. Emerson, M. T. Imperial, N. W. Jager, J. Newig, and E. Weber, "How does collaborative governance evolve? Insights from a medium-n case comparison," *Policy Soc.*, vol. 39, no. 4, pp. 617–637, 2020, doi: 10.1080/14494035.2020.1769288.
- [60] B. Ran and H. Qi, "The Entangled Twins: Power and Trust in Collaborative Governance," *Adm. Soc.*, vol. 51, no. 4, pp. 607–636, 2019, doi: 10.1177/0095399718801000.









The 7th International Conference on Sustainable Innovation (ICOSI 2023)

CERTIFICATE OF PARTICIPATION

NO:090/IV-JGP-IC/JKSG/VIII/2023

This certificate is awarded to

Dita Fisdian Adni

in acknowledgement of your participation as

Presenter

The 4th Journal of Government and Politics International Conference (JGP-IC)
held from 9 th 10 August 2023
at the Universitas Muhammadiyah Yogyakarta, Indonesia

CoSI information in Sustainable Provides

Zuhud Rozaki, Ph.D. Chairperson of 7th ICoSI 2023 Awang Darumurti, S.IP., M. Si Chairperson of The 4th JGP-IC

Tile wants

Prof. Dr. Ir. Gunawan Budiyanto, M.P., IPM., ASEAN.Eng. Rector of Universitas Muhammadiyah Yogyakarta