Case Study Series: Learning from Innovative Civil Servants

Case Title:

Using Efficient Technology for Environmental Surveillance

Dr. Rizwan Khair, Md. Parvez Hasan Yousuf and Dr. Hasan Muhammad Baniamin

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The cases for this series are collected by interviewing the civil servants working in different South Asian countries. This collection initiative is an attempt to document different innovative initiatives taken by different civil servants and encourage other civil servants to be more proactive and innovative through the ideas of these cases. If you know of any innovative case, then please send us an email (farin.ritu@northsouth.edu), we will communicate with you for further details.

Case 7: Using Efficient Technology for Environmental Surveillance

Rizwan Khair, Md. Parvez Hasan Yousuf and Hasan Muhammad Baniamin

Lack of environmental surveillance

Illegal timber smuggling, hill cutting, and stone fetching are detrimental to the environment. The remote hilly forest areas of Bangladesh bear the brunt of such anthropogenic environmental degradation. For years, this problem has been lingering as law enforcers cannot apprehend the perpetrators due to faulty environmental surveillance.

Mr. X is a civil servant. He was once posted in a remote hilly forest Upazila (sub-district) as an Upazila Nirbahi Officer (UNO). After his posting, he came to know from the locals about various problems like cutting trees and hills and collecting stones illegally. He tried to stop them by conducting various in-person operations, but most of the time the perpetrators used to evade the officials and escape the scene, so he could not apprehend them.

Personal initiative to use technology

After a few days, Mr. X bought a drone camera for personal use. It had a range of 8 KM and could fly about 800 feet high. A thought came across his mind that he could use that drone camera for environmental surveillance. So, to test its efficacy, he started flying the drone in areas notoriously known for tree and hill

Problem

For years, due to faulty surveillance, some perpetrators have been damaging the environment by cutting down trees, destroying hills and collecting stones illegally.

Solution

The civil servant used an efficient technology, i.e., his personal drone camera, for environmental surveillance.

Outcome

Technology-based surveillance system can reduce environmental degradation.

cutting. The perpetrators became afraid after seeing the drone camera due to its sound while it flies. Then they escaped that area due to the fear of being caught. One day he also seized some stacks of stones dug by them from hill cutting.

So, after some successful test attempts, he started to fly the drone regularly out of his personal initiative to increase vigilance. He informed his higher authority (District Administration) about the purpose of using the drone and also made the general people aware of its activities. He used to fly it thrice a day, morning, noon, and evening to intimidate the culprits. In this way, during the 3 years of his tenure, he continued the surveillance

using drones. The drone surveillance, particularly, the sound of it and the pictures captured by it. helped him to monitor crime, enforce law and order in his area and save the environment. In this way, he was able to reduce the amount of deforestation and hill cutting to some extent in that area This kind of self-initiated technology-based surveillance system can be used to increase environmental surveillance and reduce environmental damage. It can be replicated in other areas of Bangladesh too.

Declarations

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About the Authors

Dr. Rizwan Khair is an Associate Professor at the South Asian Institute of Policy and Governance (SIPG), North South University, Bangladesh. He obtained a Ph.D. from the University of New England in Australia. He published a number of books and journal articles He is also the current Managing Editor of the South Asian Journal of Policy and Governance. Before joining NSU he worked as the Director of the Bangladesh Public Administration Training Centre (BPATC) and as a Member Directing Staff (P&S) of BPATC. Prior to that he also worked as Director of the Institute of Governance Studies (IGS) at BRAC University. His teaching areas include Public Administration, Public Sector Management, Public Sector Reforms, Public Policy Analysis, Managing Development, Strategic Management, HRD and Negotiation, and Conflict Management. His research interests include new Public Management and government organizations, Public Policy Making, Gender and Governance, Sustainable Development, E-Governance, State Society Relations, NGOs, Administrative Ethics and Accountability, Bureaucratic Politics, and Development Management. One of his recent publications is; Khair, R. (2020), Participatory Policy Process in Bangladesh: Efforts in Search of Participatory Governance" in Nizam U. Ahmed (ed) Parliament, Public Policy, Local Government and Public Service Delivery in Bangladesh, University Press Ltd., Dhaka.

Email: rizwan.khair@gmail.com

Md. Parvez Hasan Yousuf is a Research Associate at the South Asian Institute of Policy and Governance (SIPG), North South University, Bangladesh. He obtained his BSS and MSS degree in Disaster and Human Security Management from the Bangladesh University of Professionals (BUP), Bangladesh. Mr. Yousuf's interest lies in the field of disaster management, climate change, refugee crisis, human security, peace and conflict, public policy, and governance. He has been working on various research projects under SIPG that includes the Rohingya refugee crisis, climate change, and rivers of South Asia. He has also been a member of the Center for Peace Studies (CPS) of SIPG, where he is engaged in research on peace and conflict studies.

Email: parvez.yousuf@northsouth.edu

Dr. Hasan Muhammad Baniamin is an Assistant Professor at the South Asian Institute of Policy and Governance, North South University, Bangladesh. He obtained Ph.D. from the Department of Administration and Organisation Theory, University of Bergen, Norway. His research interests include e-governance, health policy, refugee crisis, institutional performance, and trust, and he has published articles on these issues in journals such as Public Administration, Public Organisation Review, International Political Science Review, and International Journal of Public Administration. Some of his recent publications are:

Baniamin, H. M., & Jamil, I. (2021). Effects of representative bureaucracy on perceived performance and fairness: Experimental evidence from South Asia. *Public Administration*.

Baniamin, H. M., Jamil, I., & Askvik, S. (2020). Mismatch between lower performance and higher trust in the civil service: Can culture provide an explanation? *International Political Science Review*, 41(2), 192-206.

Email: hasan.baniamin@northsouth.edu