One step ahead of the law: The net effect of anticipation and implementation of Colombia’s illegal crops substitution program

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Short communication

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Abstract

Pre-announced policies often generate unintended consequences due to individuals’ acting to take advantage of the policy conditions. Little is known about the extent to which unintended consequences from the early announcement of a policy can be larger than the implementation effect, especially in contexts of weak state capacity. We use detailed 1 km grid square data on coca cultivation to estimate the net effect of the announcement and implementation of coca crop substitution payments in Colombia. Our fine-grain data also enable us to estimate geographical spillovers of the program to non-targeted neighboring areas. Using a difference-in-differences empirical strategy, we find that program recipients reduced coca acreage. Surprisingly, the reduction in neighboring grid areas is of a similar magnitude. However, the effectiveness was reduced by half, because farmers increased coca cultivation in order to be eligible for the program after the announcement and before implementation. But the policy’s net effect is negative: due to weak state capacity, the program could not be implemented in every region of the country.

1. Introduction

Unintended consequences can reduce the benefits of public programs or, in extreme cases, may undo the intent of those programs altogether. These issues can be particularly severe in contexts where there is weak state capacity. A government might pay individuals to divert them from a prohibited activity without achieving the intended result, as happened with “gun buyback” programs (Ferrazares et al., 2021). However, there are worse situations, in which government payments incentivize people to take actions contrary to those the government seeks to prevent.

In this article, we study unintended consequences and policy effectiveness in the context of PNIS, a program of payments for illegal crop substitution in Colombia. The program grew out of peace negotiations between the government and the Fuerzas Armadas Revolucionarias de Colombia (FARC) guerrillas. FARC, the most prevalent illegal armed group in the country at the time, used coca crops for cocaine production and trafficking to fund their operations. The PNIS program includes subsidies to individual coca growers of up to USD 10,000, conditional on eradication of their crops. PNIS was announced years before its implementation, generating incentives for individuals to grow coca to increase the chances of getting the subsidies (Lopez et al., 2019; Prem et al., 2021). In this article, we compare the magnitude of the coca increase after the program was announced with the program’s effectiveness in reducing coca cultivation once implemented.

The anticipation to policy implementation (announcement effects) can happen under three conditions: when individuals (i) have access to information about future treatment, (ii) can benefit from acting before the treatment, and (iii) are forward-looking.2 Malani and Reif (2015) provide an illustrative description of these conditions and real-world examples of each.