## 1. Introduction

heavy losses or even tosing their lives. Therefore the elite in an autocracy allocate more resources two ards oppression as the greatly wish to prevent regime changeven by force (Congleton, 1992).

To that effect, the autocratic regime censor information flows and directs ecision making in an autonomous fashion resulting in a lack of reporting of environmental degradation by the media to the people (Quan Li, 2006). it fance even suggests nondemocratic governments frequently abuse the human rights of environmentalist pressive regimes are likely to harass, imprison, or otherwise abuse activists working to preserve the rights of indigenous peoples, sustain rainforests, or halt the dumping of hazardous wastes (Payne, 1995).

Democratic governments are accountable to the pulainted therefore, the people have the opportunity tolearn about environmental problems ainsist on the government searching for e

A movement from within the United States sawenvironmental pessure groups successfullymotivate the country's negotiators as well as influence other governments successfullygain agreement on ozone protect(@nayne, 1995)On a global scalenternational criminal law caroffer the opportunity to spark debate among nations and to tackle these issues in a consistent and effective way. Schwe@2017)arguesthat in an autocratic regime, the focus is on minimizing loss even if that entails mmitting ecocide. Therefore, it should be considered an international crime because of its severity, magnitude, and the potentially lasting teffect

The government sells the natural resource at a price of

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democracies (G=1) extraction levelresults from the discrepancy in how each regime values environmental quality which is directly associated with how they value the lives of their people.

practice is likely more difficult than being a singleice setting monopolist. Tables tummarizes the comparative statistics of our findings der the assumption of singleice monopoly behavior.

Table 1: Comparative Statistics

	T =	Table 1. Comparative Otationes		<del></del>
	Solution	Full democracy (€1)	Sign	Full Autocracy( €0)
Price	+ 2	+ 2	>	2
Quantity	2	2		
		2s s	s	3

observations the actual number of country observations is less than 217 in each of our empirical analyses. Our final dataset is a crossectional dataset where all observations are -20020 averages.

Before including our variables in our regressions, we checked their normality and introduced natural log-transformations whenever they improved the distributional characteristics. Table 2 also shows which variable we transformed.

Table 2: Data and Sources

Variable	Abbreviation	Source	Description	Transformation
CO2 emissions	CO2cap	WDI (online)	CO2 emissions (metric tons per capita)	In(CO2cap)

Table 3: Descriptive Summary Statistics

Variable	Mean	Median	Min.	Max.	Std. Dev.	IQR	Missing Obs.
CO2cap	4.26	2.60	0.04	32.44	5.00	5.36	26
NatResDep	3.60	1.10	0.00	32.74	5.74	4.80	37
NRR	6.19	1.57	0.00	57.58	9.74	7.63	9
mortair	92.21	68.60	7.00	324.10	71.93	115.50	34

## Table 6: Regression Results

	<del>-</del>
Independent	Dependent Variables
macpenaciji	Dependent variables
Variables È	
variables 🗅	

This is likely captuing the fact that countries relying heavily on natural resource extraction simply lack the manufacturing industries that trigger urbanization. The absence of industries and manufactures then may also explain why our analysis presents lower CO2 emissions.

## 6. Conclusions

Through election and fremearket activity, democracies more accurately reflect the views of the people Democracies account for higher social costs of environmental degrathation autocracies because the people of a democracy have much more power to enact policy that promotes environmental concernatuocracies ignore social costs associated with environmental degradation to increase national productivatry in turn profits, resulting in the extractiona of natural resource at a price and quartitity might be paradoxically closer to the social optimum depending on the actual magnitude of social marginal cost and level of authoritarianism. However, the citizens of a democracy benefitim a lower level of extractionarther from the social optimum by internalizing a lower social cost attacking advantage of numerous social benefits due to lower levels of natural resource extraction. The seluded of extractional opportunities, educational opportunities that support valuable nationsed, experiential learning, and the ability to build and enhance community through connection to place. This results in increased welfare and works as a buffer that ounteract the opportunity cost of consumer surplices by democracies lower level of extraction

In the literature of regime type related to impact on environmental degradatistinge empirical evidence is mixed and relatively scant. Seeking to contribute to this literature, we focus on natural resource extractions an activity by government that directly damagine environment.

We use anarray of empirical measures of environmental degradativos electing those closely

related to decreased social welfare **qud**lity of human life. The empirical analysis focuses on five important types of environment degradation: CO2 emissions, disability adjusted life years attributed to air pollution, mortality rate by air pollution, natural resource rent, and natural resource depletion.

Our analysis contributes to the literature by empirically testing the net effect of regime type on environmental degradation. Through our researchave found that greatdemocracy is directly correlated with less environmental degradation due to the democratic regimines to better account for the marginal social cost of government activities that directly degrade the environment. The substantive effect of democracy on the environment is considerable, but it varies in size across the aspects of environmental degradas democracy reduces some types of environmental degradation more than othersall cases, a rise in democracy produces a noticeable decrease in environmental degradation.

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