

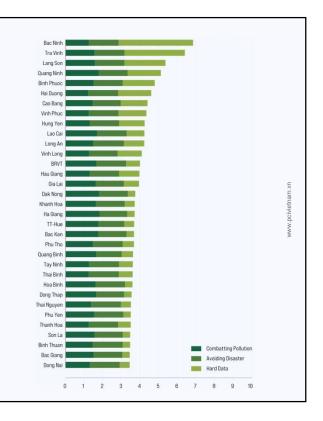
# Subindex 1:

## Minimizing the Risk of Climate Hazards

Measures the basic infrastructure and public services provided by provincial governments to reduce the risk to their businesses of pollution and climate change.

We measure these responsibilities in three dimensions

#1	#2	#3
Firm assessments	Efforts to reduce or	Hard data on these
of provincial efforts	mitigate the	approaches (air
to combat pollution	negative effects of	quality monitors per
	natural disasters.	10,000 citizens)



## Subindex 1:

## **Minimizing the Risk of Climate Hazards**

Indicator	National Average	Minimum Score	Maximum Score
PGI 1: Minimizing the Risk of Climate Hazards (to Firms).	3.73	3.07	6.85
PGI Dimension 1.1. Combatting Pollution	1.38	1.06	1.83
PGI Dimension 1.2. Avoiding Environmental Disaster	1.57	1.34	1.65
PGI Dimension 1.3. Hard Data	0.78	0.40	4.00
Environmental quality is good or v. good (%)	51.2%	27.1%	76.3%
No or low pollution (% agree)	30.5%	12.2%	57.9%
Pollution is no problem (% agree)	37.2%	19.2%	71.8%
Enterprises cause pollution (% agree)	59.1%	28.1%	84.7%
Chose location to avoid natural disasters (% agree)	0.6%	0.0%	2.7%
Natural disasters are an obstacle (% agree)	6.8%	0.9%	23.6%
MONRE: Air Quality Monitors per 10,000	0.06	0.00	0.52

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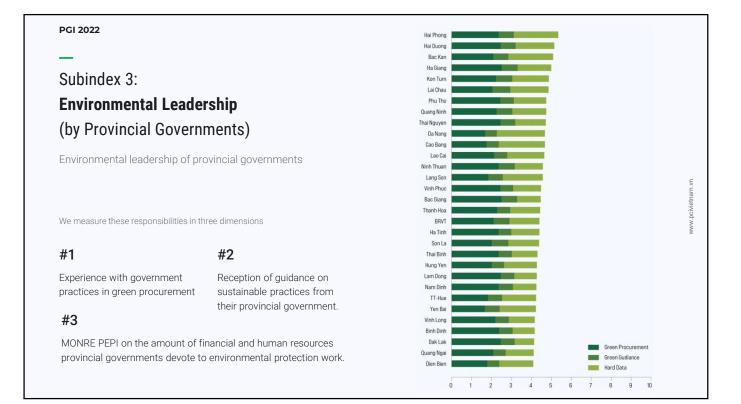
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## Subindex 2:

## **Maintaining Minimum Environmental Standards**

Indicator	National Average	Minimum Score	Maximum Score
PGI 2: Maintaining Minimum Environmental Standards (by Firms)	5.07	4.03	6.74
PGI Dimension 2.1. Enforcement Against Polluters	1.54	1.07	1.78
PGI Dimension 2.2. Satisfaction w/ Environmental Regulation	1.28	1.21	1.41
PGI Dimension 2.3. Hard Data - Waste Water	1.16	0.51	1.99
PGI Dimension 2.4. Hard Data - Solid Waste	1.09	0.20	2.00
Province has measures to prevent pollution (% agree)	74.0%	47.8%	87.3%
Province takes timely action to address pollution incidents (% agree)	72.9%	47.8%	87.3%
Province punishes pollutors (% agree)	75.9%	50.0%	89.2%
Selected environmental protection as a troublesome procedure (%)	5.2%	0.0%	11.9%
Environment Inspectors	6.1%	1.4%	13.4%
Informal charge for Environment Inspectors	1.8%	0.0%	6.8%
MONRE: Urban domestic wastewater treated in compliance with regulations (%)	15.8%	0.0%	88.2%
MONRE: Business establishments that have a wastewater treatment system (%)	88.3%	0.0%	100.0%
MONRE: Domestic solid waste that is separated at source (%)	15.5%	0.0%	80.0%
MONRE: Domestic solid waste treated in compliance with regulations (%)	80.0%	0.0%	100.0%

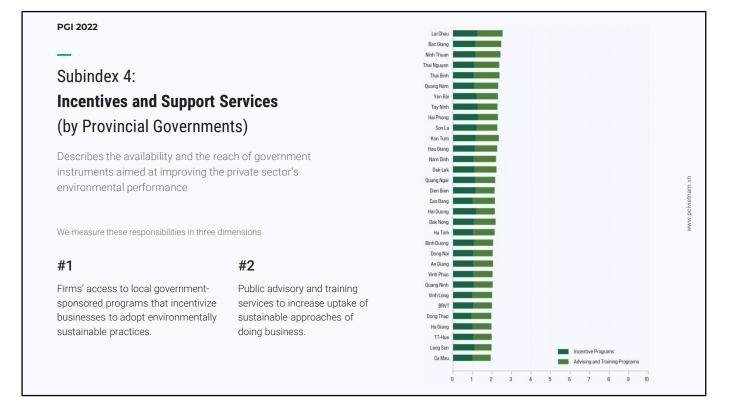
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## Subindex 3:

## **Environmental Leadership**

Indicator	National Average	Minimum Score	Maximum Score
PGI 3: Maximizing Green Benefits from Core Provincial Government Activities	4.11	2.98	5.35
PGI Dimension 3.1. Green Procurement	2.01	1.19	2.60
PGI Dimension 3.2. Green Regulatory Guidance	0.67	0.46	0.89
PGI Dimension 3.3. Hard Data	1.43	0.68	2.41
Provincial government prioritizes purchasing from green firms (%)	66.1%	34.0%	85.2%
Provincial government pays premium for green goods//services (%)	60.5%	29.0%	85.2%
Received guidance on environmental regulations (%)	43.2%	13.5%	83.4%
Received guidance on conserving energy (%)	12.5%	6.1%	24.6%
Received guidance on using renewable energy (%)	8.6%	3.5%	19.5%
Received guidance on producing renewable energy (%)	5.4%	1.6%	16.9%
Received guidance on minimizing plastics (%)	10.4%	2.6%	19.1%
Received guidance on investing in solid waste management (%)	5.1%	0.6%	10.5%
Received guidance on limiting water pollution (%)	16.5%	4.8%	31.2%
Received guidance on using water economically (%)	17.2%	4.3%	29.0%
Received guidance on reducing air pollution (%)	13.4%	3.2%	27.0%
Received guidance on reforestation (%)	6.0%	0.6%	21.0%
MONRE: Proportion of state budget alloted to environmental protection work (%)	1.8%	0.2%	6.2%
MONRE: Governmental officials in protection work/1 Million	147.01	44.43	380.39

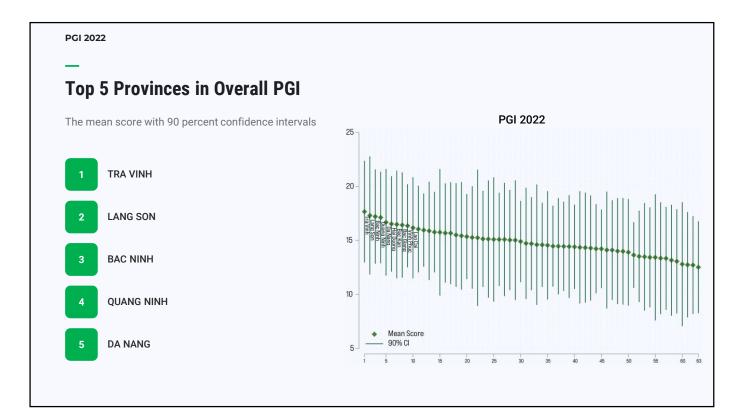


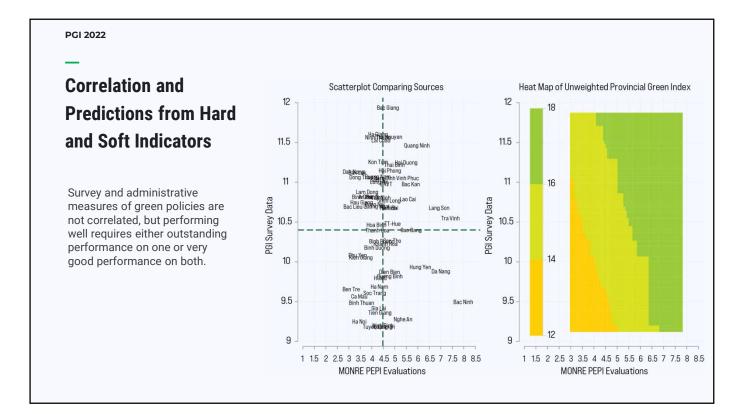
## Subindex 4:

# **Environmental Incentives and Support Services**

Indicator	National Average	Minimum Score	Maximum Score
PGI 4: Environmental Incentives and Support Services (by Prov. Government)	1.92	1.39	2.59
PGI Dimension 4.1. Incentive Programs	0.97	0.70	1.28
PGI Dimension 4.2. Advising and Training Programs	0.95	0.68	1.34
Incentive program for energy saving and efficieny (0-4)	1.03	0.31	2.02
Incentive program for clean\renewable energy (0-4)	0.31	0.07	0.74
Incentive program for air pollution mitigation (0-4)	0.54	0.17	1.15
Incentive program for water pollution mitigation (0-4)	0.46	0.19	1.07
Incentive program for water plastic reduction (0-4)	0.40	0.13	0.73
Incentive program for waste recycling (0-4)	0.24	0.06	0.50
Incentive program for disaster resilience (0-4)	0.17	0.04	0.46
Incentive program for reforestation (0-4)	0.18	0.00	0.59
Province offers advisory services to improve environmental performance (0-4)	0.54	0.22	1.23
Province offers training services to improve environmental performance (0-4)	0.25	0.09	0.61

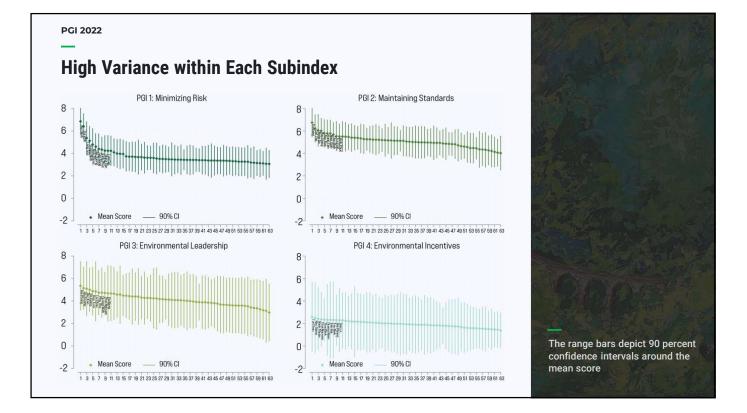
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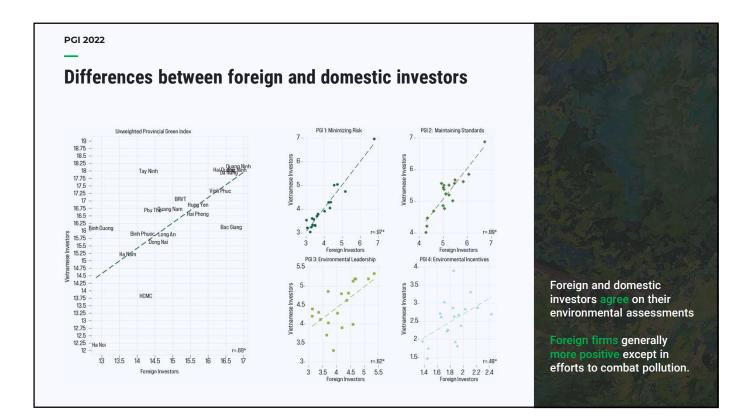


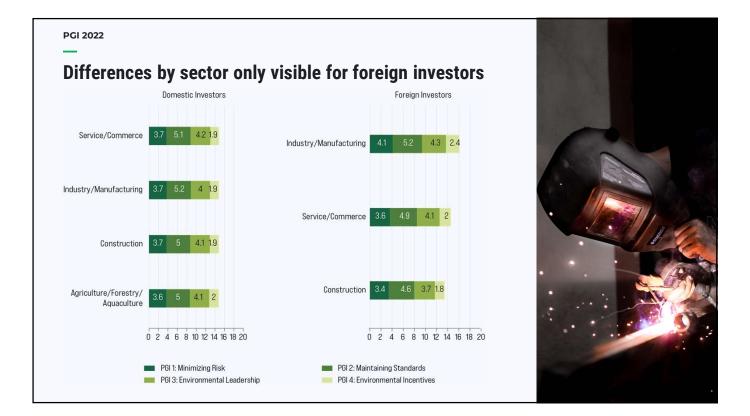


Top 5 in Each PGI Subindex				
	1. Minimizing the Risk of Climate Hazards (to Firms)	2. Maintaining Minimum Environmental Standards (by Firms)	3. Environmental Leadership (by Provincial Governments)	4. Environmental Incentives and Support Services (by Provincial Governments)
1	BAC NINH	DA NANG	HAI PHONG	LAI CHAU
2	TRA VINH	CAN THO	HAI DUONG	BAC GIANG
3	LANG SON	NGHE AN	BAC GIANG	NINH THUAN
4	QUANG NINH	BAC GIANG	HA GIANG	THAI NGUYEN
5	BINH PHUOC	BAC KAN	KON TUM	THAI BINH

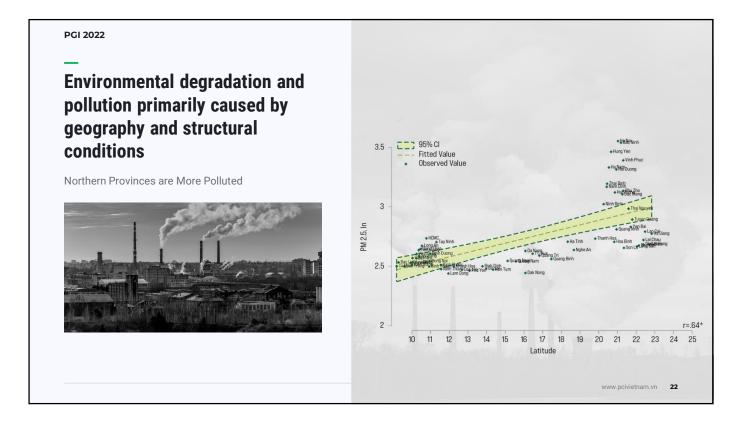






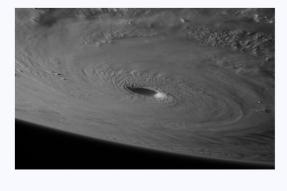


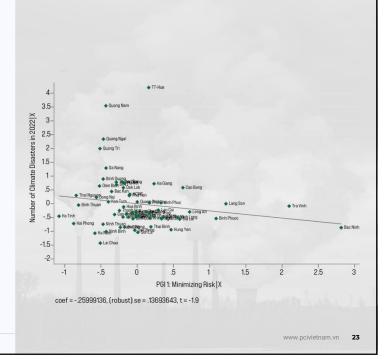


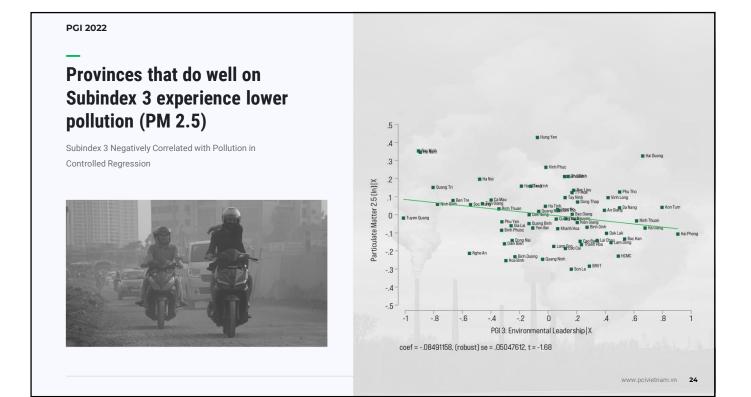


## Provinces that do well on Subindex 1 experienced less climate disasters in the past year

Subindex 1 Negatively Correlated with Climate Disasters in Controlled Regression







# **Summary of Critical Findings**

#2

#5

Provincial Green Index 2022

## #1

The four subindices of the PGI are not strongly associated with one another. The same province can excel in one facet of green policies and lag on another.

### #4

Green perceptions of foreign investors differ widely by broad sector. Foreign manufacturing firms are far more likely to evaluate provincial green standards as positive.

#### Survey and administrative measures of green policies are not correlated, but performing well requires either outstanding performance on one or very

good performance on both.

As this is a baseline measure

find a strong association

any of the measures.

between the overall PGI and

of green policies, we do not yet

#3

are generally more pleased with provincial green policies than their domestic counterparts.

Foreign investors in a province

#### **#6**

Improvements on Subindex 1 are associated with reductions in environmental disasters. Changes in Subindex 3 are strongly correlated with reductions in PM 2.5.





