



Status of Implementation Humanitarian Demining

ECUADOR

*WE INVITE YOU TO BE PART OF OUR GOAL: TO DECLARE
ECUADOR A LANDMINE-FREE COUNTRY BY 2022.*



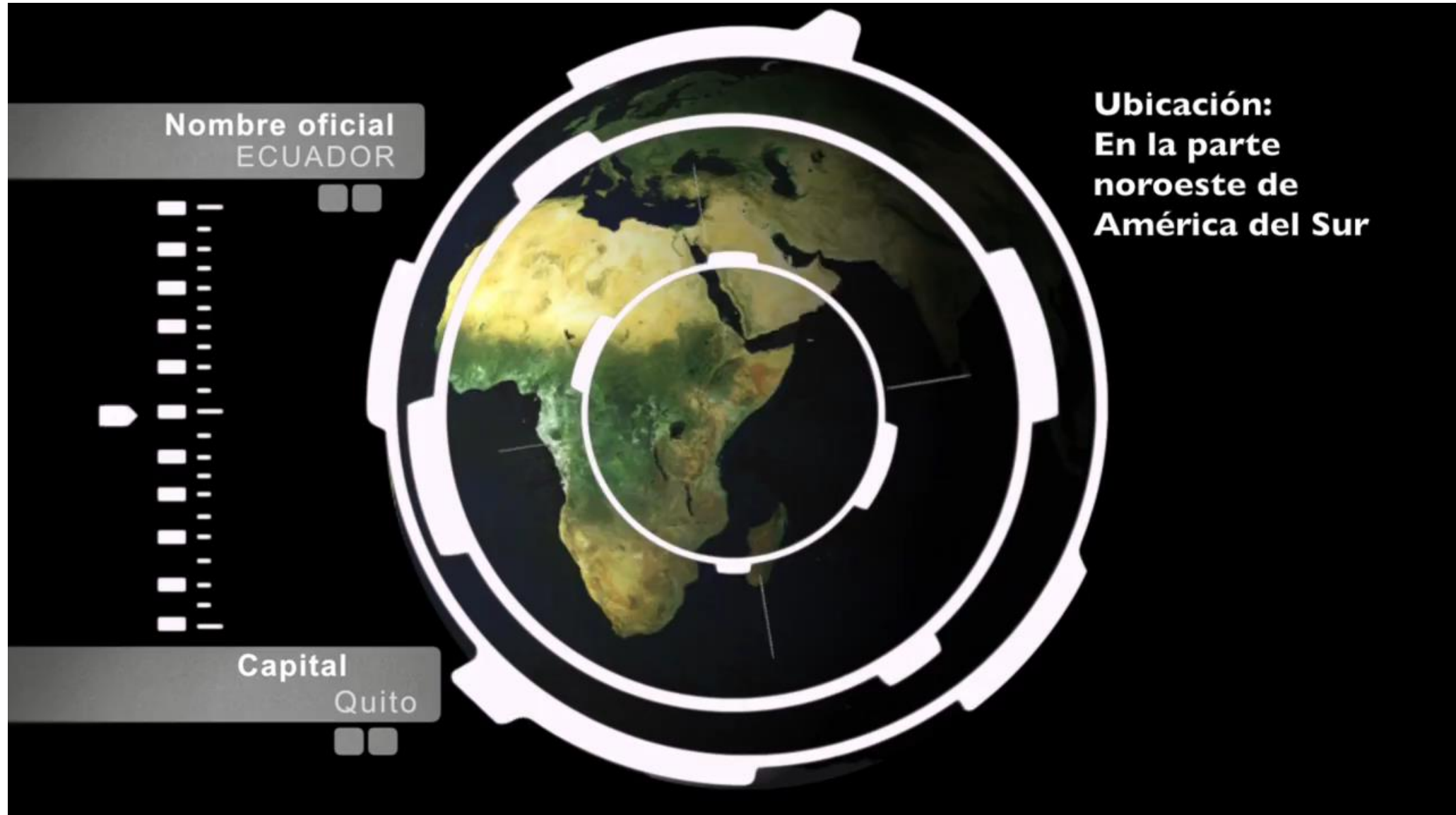
SUMMARY



1. Geographic Location
2. Background
3. Situation of the AP mine problem
4. Social, Environmental and Economic Implications
5. Humanitarian Demining Process
6. Results and progress
7. Required budget
8. Work plan
9. Remaining Challenges
10. International cooperation and assistance
11. Conclusions



1. GEOGRAPHIC LOCATION





2. BACKGROUND

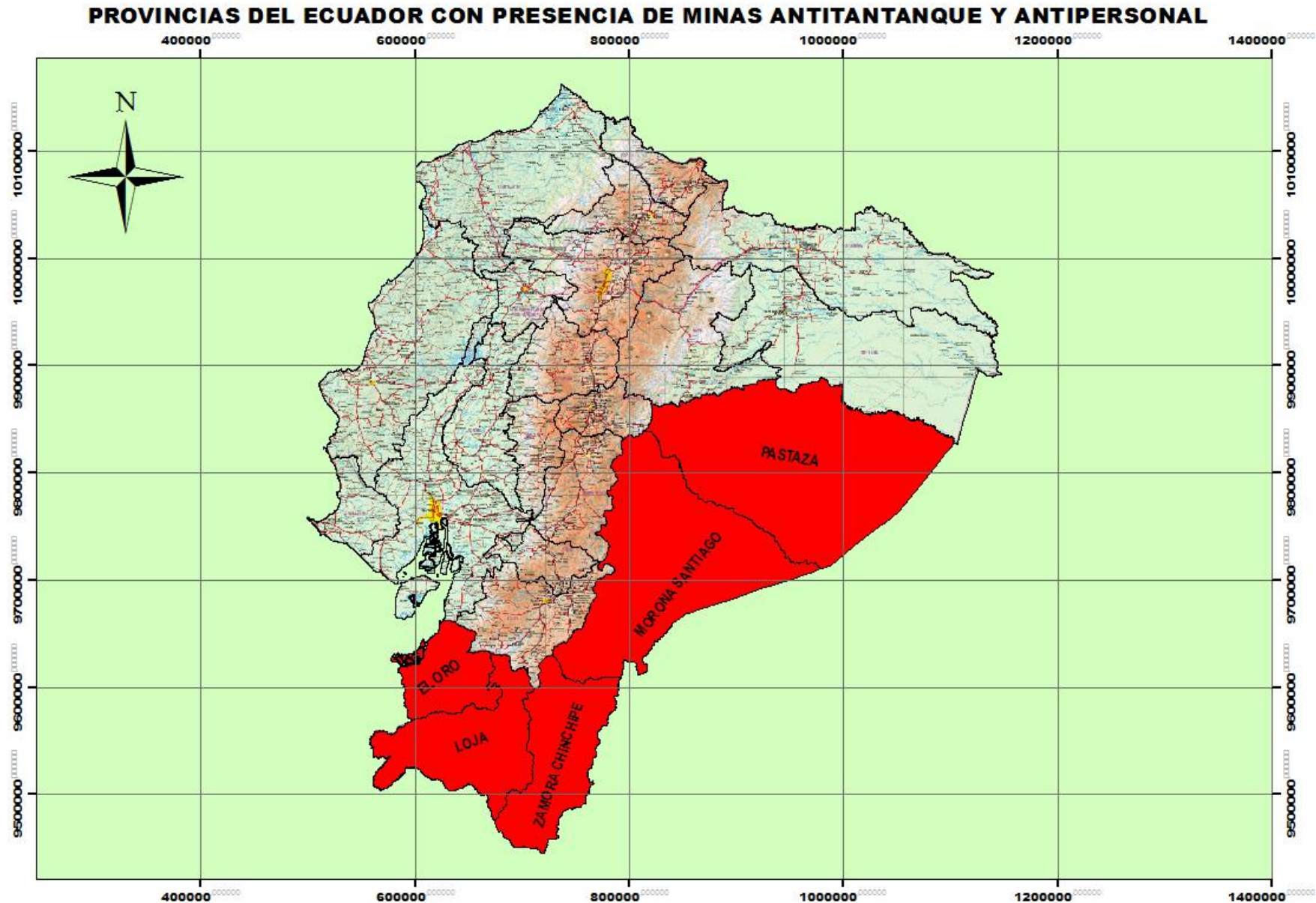


- ✓ Feb 1995: conflict between Ecuador and Peru with AP and AT mine laying
 - Polluted surface: 629.081,06 m².
- ✓ Dec 1998 – May 1999: Execution of military demining for International Political Boundary Setting
- ✓ Oct 1999: The Ottawa Convention enters into force in Ecuador.
- ✓ Jul 2000: Ecuador initiates the humanitarian demining process.
- ✓ Jan 2014: Project "Liberation of land contaminated by landmines known so far in the common border Ecuador - Peru".





STATUS OF IMPLEMENTATION - AFFECTED PROVINCES





PROVINCE OF LOJA



- Completed the humanitarian demining process in 2012.
- Released area of 63,314.18 m².
- Destruction of 68 AP mines and 04 AT mines.
- Increased perception of security.
- Generation of conditions for development.





LOJA

LAND USE FOLLOWING DEMINING OPERATIONS



PRESERVATION OF FLORA AND FAUNA, PODOCARPUS NATIONAL PARK



AGRICULTURAL ACTIVITIES

DEMINING OPERATIONS HAVE ENABLED



LIVESTOCK ACTIVITIES



LOCAL TOURISM





PROVINCE OF EL ORO



- Completed the Humanitarian Demining process in 2012.
- Released area of 103,472.25 m2.
- Destruction of 203 AP mines and 70 AT.
- Increased perception of security.
- Generation of conditions for development.





EL ORO

LAND USE FOLLOWING DEMINING OPERATIONS



PRESERVATION OF FLORA AND FAUNA, ARENILLAS NATURAL RESERVE



AGRICULTURAL ACTIVITIES

DEMINING OPERATIONS HAVE ENABLED



FISHERIES LOCAL AND COMMERCIAL



LOCAL TOURISM





PROVINCE OF PASTAZA



- Completed the Humanitarian Demining process in 2015.
- Released area of 31,070.00 m².
- Destruction of 12 AP mines.
- Increased perception of security.
- Generation of conditions for development.





PASTAZA

LAND USE FOLLOWING DEMINING OPERATIONS



PRESERVATION OF FLORA AND FAUNA, YASUNI NATIONAL PARK OF



AGRICULTURAL ACTIVITIES

DEMINING OPERATIONS HAVE ENABLED



PROTECTION OF DIFFERENT ETHNIC GROUPS IN THE REGION



LOCAL TURISM





PROVINCE OF MORONA SANTIAGO



- Completed the Humanitarian Demining process in 2015.
- Released area of 232,248.95 m².
- Destruction of 9912 AP mines.
- Increased perception of security.
- Generation of conditions for development.





MORONA SANTIAGO LAND USE FOLLOWING DEMINING OPERATIONS



**PRESERVATION OF FLORA AND FAUNA, SANGAY
NATURAL PARK**



AGRICULTURAL ACTIVITIES

DEMINING OPERATIONS HAVE ENABLED



**PROTECTION OF DIFFERENT ETHNIC
GROUPS IN THE REGION**



LOCAL TOURISM





PROVINCE OF ZAMORA CHINCHIPE



- It is still in the process of Humanitarian Demining.
- Area released so far 78,284.50 m².
- Destruction of 1146 AP mines.
- It is considered the most difficult sector to access for this type of operations due to its geographical and meteorological conditions.



Area to be released		
Province / Sector	Area m ²	# Estimated mines
Zamora Chinchipe	40.056,00	2.941
Grand total	40.056,00	2.941



ZAMORA CHINCHIPE LAND USE FOLLOWING DEMINING OPERATIONS



COMMUNITIES IN PROXIMITY OF MINED AREAS



SURVEY AND CLEARANCE OF MINED AREAS





4. SOCIAL IMPLICATIONS



14 communities and 5 ethnic groups live in the eastern border sector and are located near the different mined areas.

Minefields limit free access to resources for their livelihoods (water, hunting, fishing, agriculture).

Child mobility at risk during recreation and educational periods.





ENVIRONMENTAL AND ECONOMIC IMPLICATIONS



Preserve the different species in Ecuador's protected areas and national parks.



Allow the development of mined areas through economic activities such as agriculture and ecotourism.





5. HUMANITARIAN DEMINING PROCESS



- ✓ National Demining Center of Ecuador (CENDESMI): national demining authority.
- ✓ Army Corps of Engineers (C.E.E) and Engineer Battalion No. 68 "COTOPAXI" (B.E 68): humanitarian demining operations since 2000.



B.E 68 "COTOPAXI"

- ✓ Project "Liberation of land polluted by landmines known so far in the common border Ecuador - Peru" in its final stage.
- ✓ Declaration of mine-free territory until Dec - 2022.





METHODS EMPLOYED.



Manual Demining Technique

Output of 3 to 5 square meters/an hour under normal conditions.

Output of 1 – 1.5 square meters in jungle conditions.



Mechanical Demining (ROBOT MV-4)

Output of 100 - 150 square meters per hour in favourable conditions in terms of weather and slope

Output of 40 - 50 square meters jungle conditions and minor slope of 4%.



Mine Dog Detection

Output of 500 square meters a day

Quality control





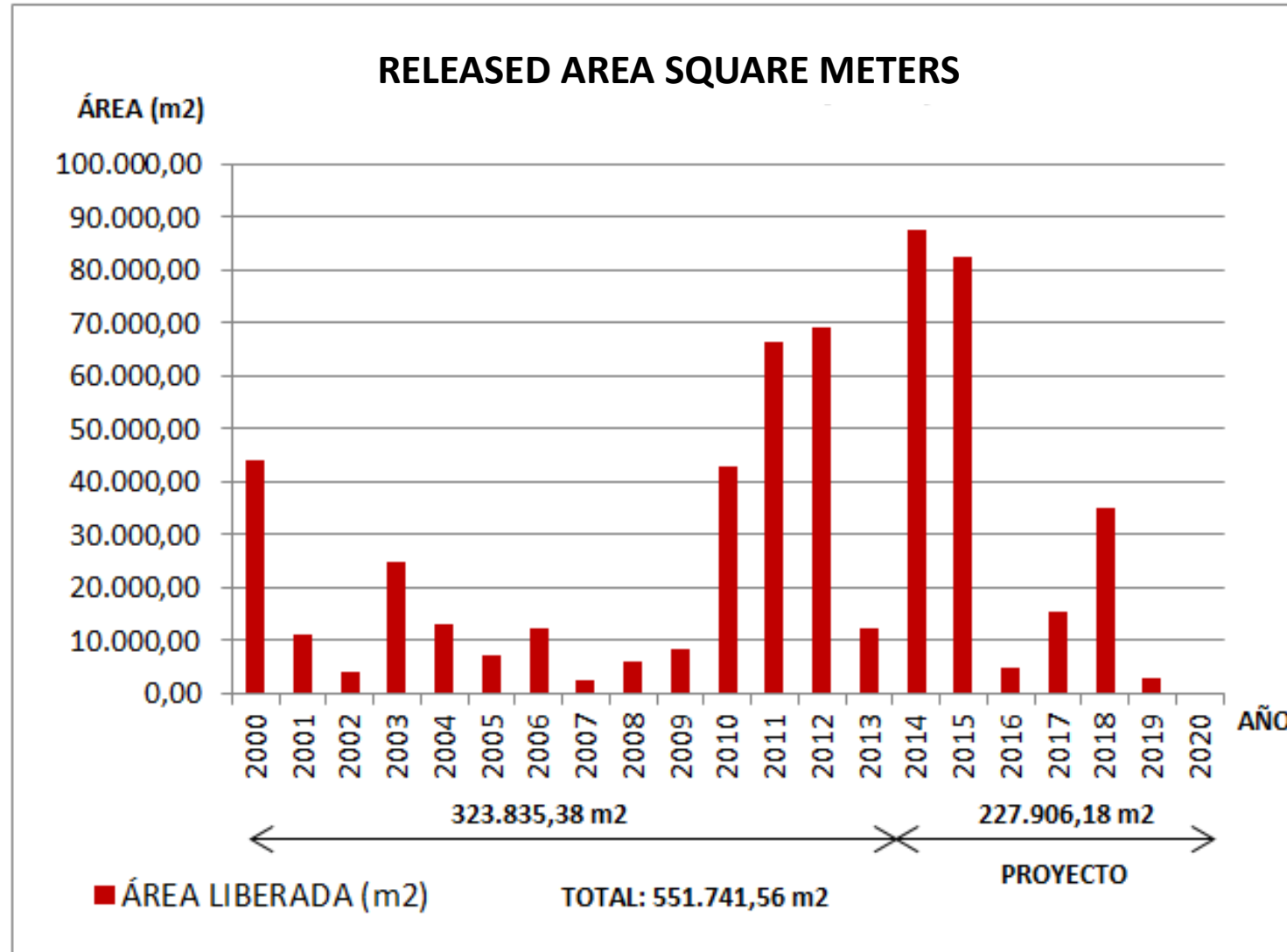
6. RESULTS AND PROGRESS



Year	Area cleared (square meters)	Area cancelled (square meters)	Area reduced (square meters)	Total area released	Number of AP Mines destroyed	Number of AT Mines destroyed	Number of UXO destroyed
2000	43.956,50			43.956,50	2.699	23	
2001	11.021,00			11.021,00	1.469		
2002	3.999,00			3.999,00	135	37	1
2003	24.971,19			24.971,19	60	1	1
2004	12.990,00			12.990,00	35	3	
2005	7.122,20			7.122,20	32		3
2006	12.219,00			12.219,00	68		2
2007	2.586,50			2.586,50	123	1	1
2008	6.215,25			6.215,25	176	4	
2009	8.191,38			8.191,38	85	3	
2010	33.438,72	9.500,00		42.938,72	5	2	
2011	60.110,30	6.166,54		66.276,84	29		
2012	21.910,80	47.106,00		69.016,80	813		5
2013	12.331,00			12.331,00	183		
2014	39.660,50	47.744,50		87.405,00	4.181		9
2015	66.414,00	16.177,00		82.591,00	773		2
2016	1.410,00	3.267,00		4.677,00	565		2
2017	15.476,39			15.476,39	453		5
2018	14.068,00		20.790,29	34.858,29	247		3
2019	2.898,50			2.898,50	62		1
2020							
Total general	400.990,23	129.961,04	20.790,29	551.741,56	12.193	74	35

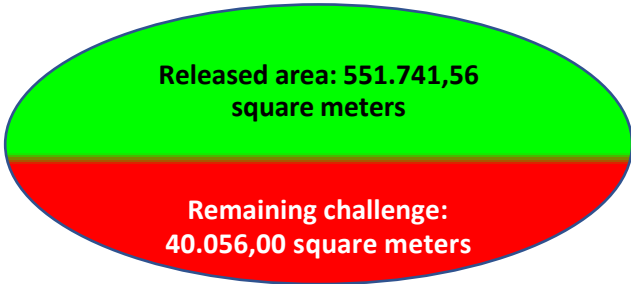
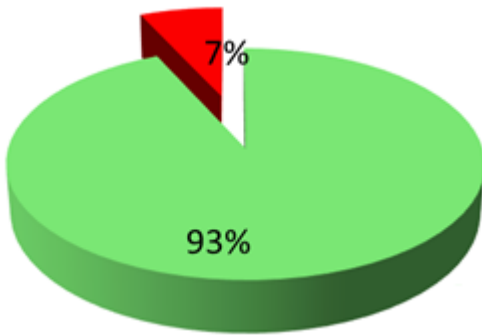
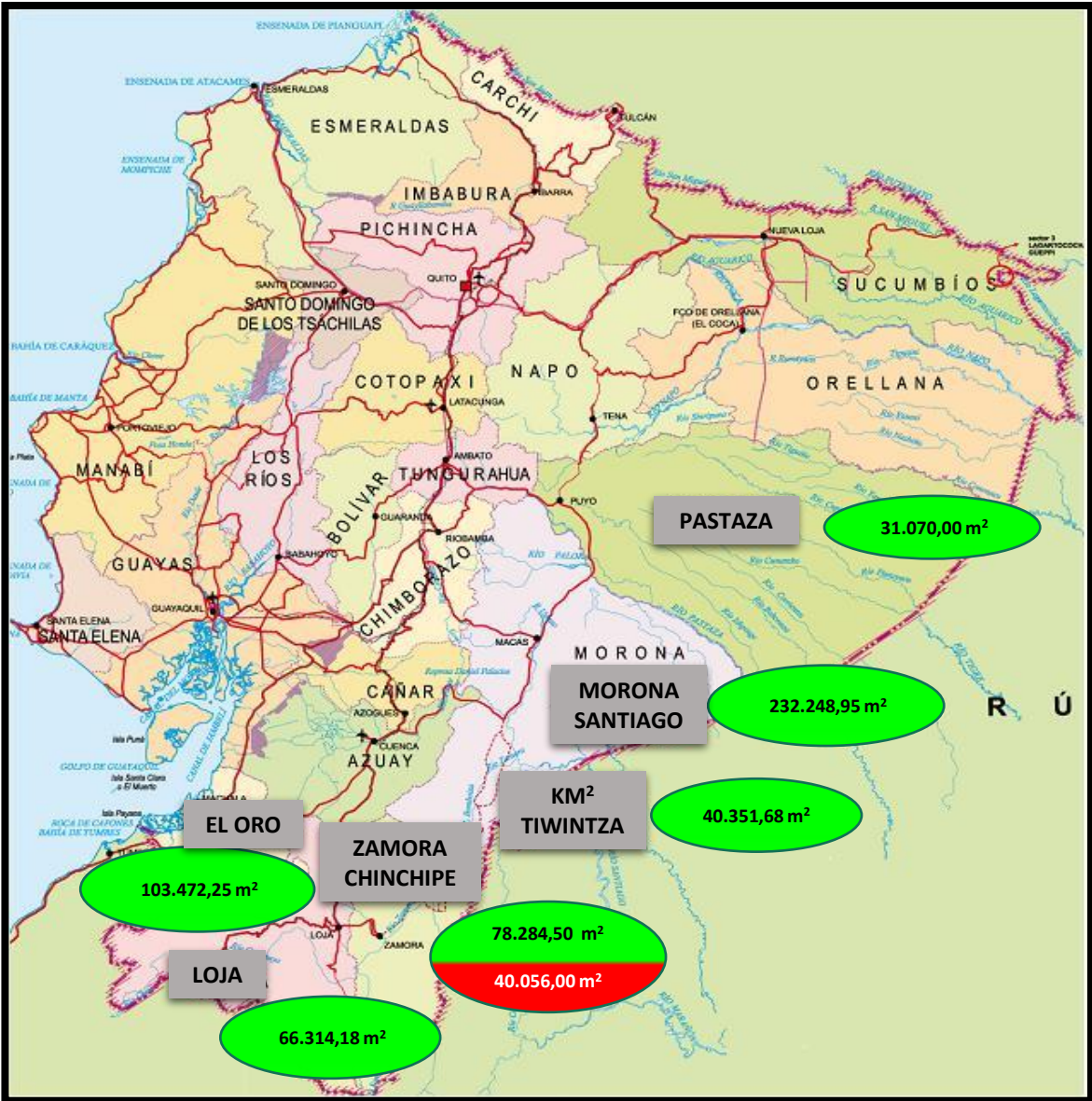


RESULTS OF HUMANITARIAN DEMINING OPERATIONS YEAR 2000 - 2020





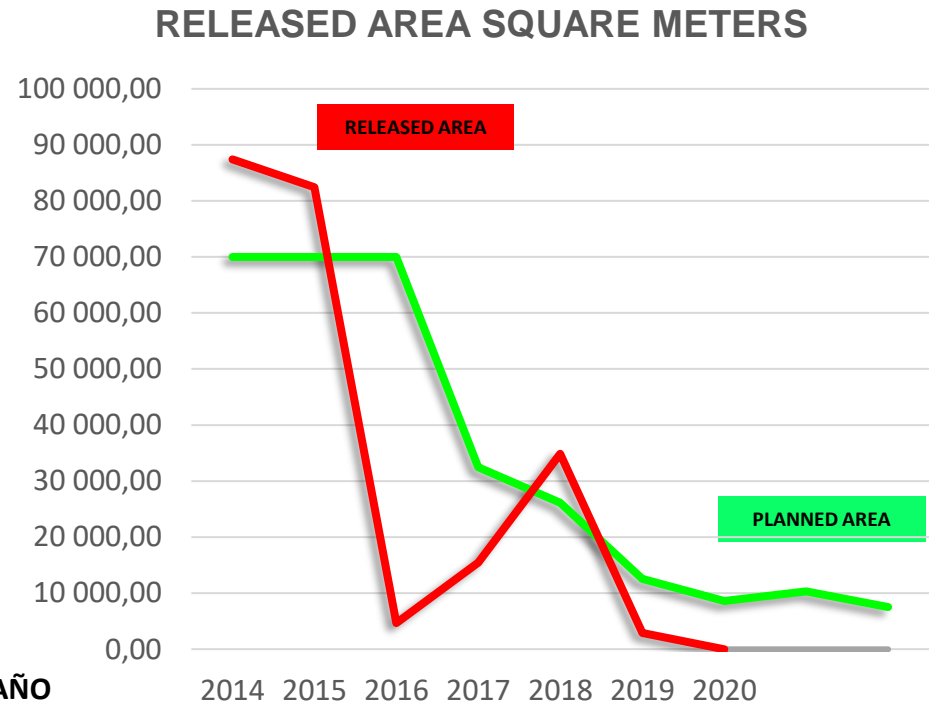
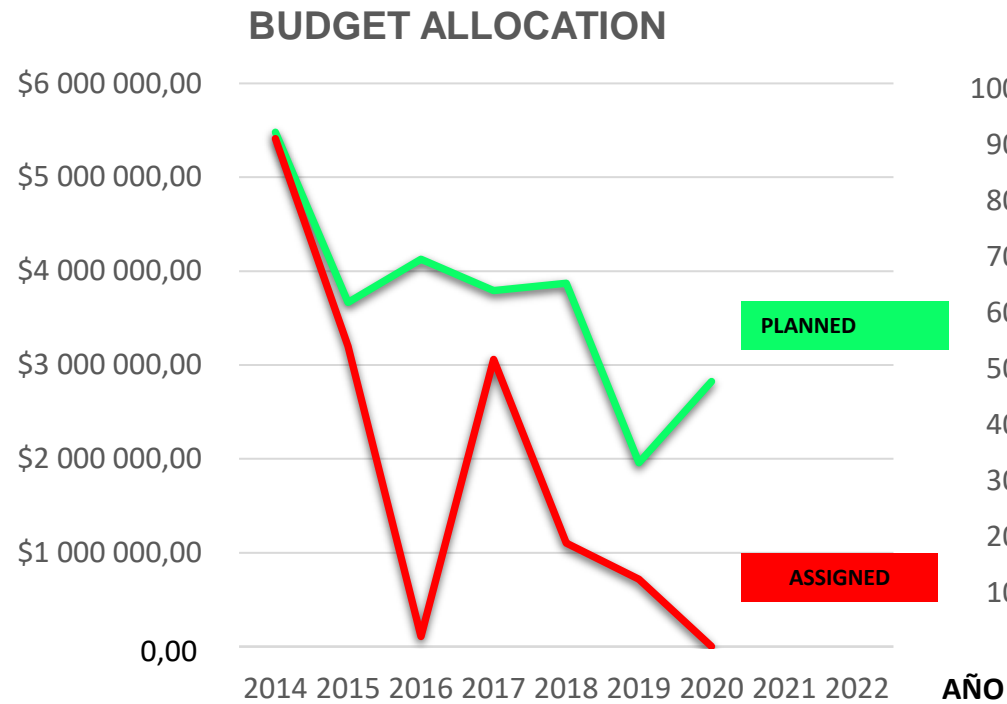
HUMANITARIAN DEMINING OPERATIONS (2000 - DECEMBER 2020)



Area to be Released		
Province /Sector	Area Square meters	Estimated number of mines
Zamora Chinchipe	40,056.00	2,941



AREA RELEASED WITH STATE RESOURCES





7. DETAIL OF THE BUDGET REQUIRED FOR THE EXECUTION OF HUMANITARIAN DEMINING OPERATIONS

BUDGET	
2021	2022
\$ 3.672.062,66	\$ 3.672.062,66
TOTAL	\$ 7.344.125,32



8. WORK PLAN

HUMANITARIAN DEMINING PROGRAMMING 2021 - 2022

ANNUAL MINE CLEARANCE PROJECTIONS 2021 - 2022				
PROVINCE	REMAINING CHALLENGE	2021 (m2)	2022 (m2)	TOTAL (m2)
Zamora Chinchipe	Number of objectives to be addressed	23	30	53
	Area to be cleared	21.010,00	19.046,00	40.056,00
	Subtotal	21.010,00	19.046,00	40.056,00
TOTAL				40.056,00



LAND DELIVERY PROGRAMMING 2021 - 2022 (IN CHARGE OF CENDESMI)



ORD	PROVINCE	YEAR OF DELIVERY	AREA TO BE DELIVERED m2	TOTAL m2
1	EL ORO	2021	103.472,25	200.856,43
2	LOJA		66.314,18	
3	*PASTAZA		31.070,00	
4	MORONA SANTIAGO	2022	272.600,63	350.885,13
5	ZAMORA CHINCHIPE		78.284,50	
TOTAL				551.741,56

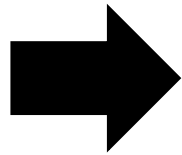
* Pastaza pending certification of a minefield of 1000 m2



9. CHALLENGES



Communities close to these contaminated areas require continuous awareness campaigns to reduce the impact caused by living surrounded by this type of artifacts in their different locations.



As a fundamental part of this last phase of the humanitarian demining process in Ecuador, it is necessary to have the necessary economic resources for the normal execution of the operations that are planned until 2022.

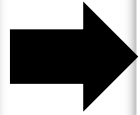


IMAS
International
Mine Action
Standards

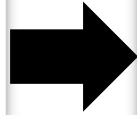


9. CHALLENGES

Guarantee the integrity and development over time of the different ethnic groups that exist throughout the eastern region, avoiding any risk to them from land contaminated by mines.



Establish and implement at the national level an efficient victim assistance plan, cooperating in a significant way with the people who are exposed to this type of threat.



Promote the development of a reforestation activity in the worked areas to restore the stability and normal functioning of the different environments to the environment and its varied fauna.





10. INTERNATIONAL COOPERATION AND ASSISTANCE



ORD.	DETAIL OF REQUIRED EQUIPMENT	VALUE
1	Humanitarian Demining Equipment	\$ 400.000,00
2	Equipment for the destruction and deactivation of explosive devices in a state of risk.	\$ 700.000,00
3	Training and coaching	\$ 350.000,00
4	Coupled vehicles for transporting personnel and explosives and initiators (4x4)	\$ 150.000,00
5	Level 3 ambulance equipped to support humanitarian demining operations and destruction and deactivation of explosive devices at risk.	\$ 70.000,00
TOTAL		\$ 1.670.000,00

Of the total amount of US\$ 1'670,000, depending on the resources allocated by the Ministry of Economy and Finance to Humanitarian Demining, Ecuador would only be able to assume approximately 30% of the total amount.



REQUIREMENT 2021



ORD	ACTIVITY	VALUE
1	LAND RELEASE OPERATION	\$ 3'672.062,66
2	DOK-ING ROBOT EXTRACTION	\$ 131.977,60
3	ROBOT MAINTENANCE	\$ 150.000,00
TOTAL		\$ 3'954.040,26

REQUIREMENT CENDESMI

ORD	ACTIVITY	VALUE
1	QUALITY CONTROL OPERATIONS	\$ 2'321.568,41





11. CONCLUSIONS



Ecuador is committed to complying with the Ottawa Convention (year 2022).

The humanitarian demining process is fundamental to guarantee security in polluted areas, as a key element to generate ideal conditions for development.

Equipment and training are essential for the continuity of operations in the final phase of humanitarian demining.

International collaboration and support is essential for the successful completion of this process in Ecuador.

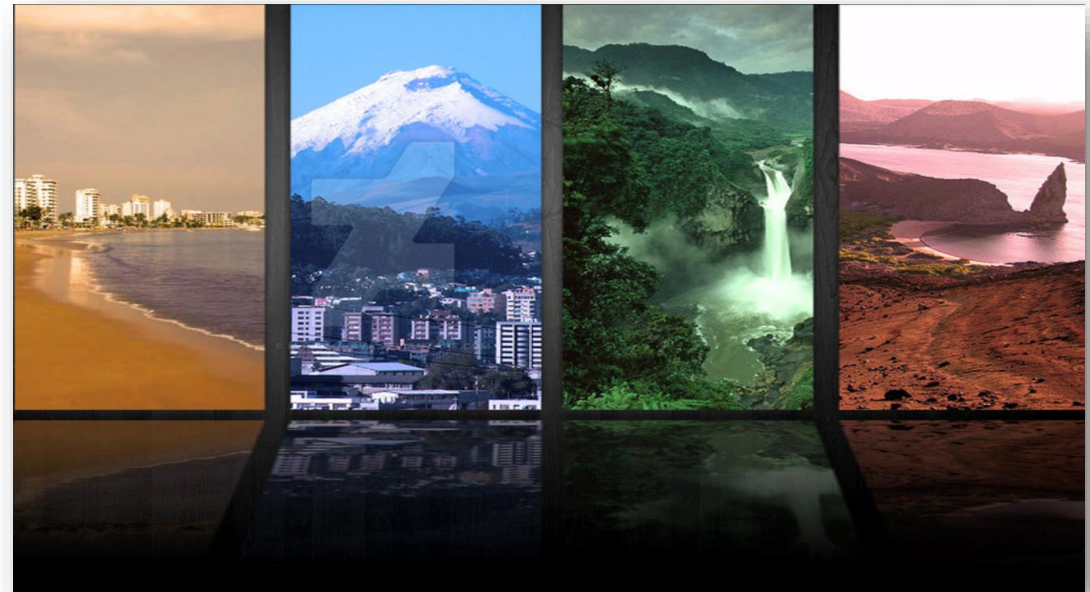




INVITATION



Invitation to all donor countries to visit Ecuador to verify the humanitarian demining operations and continue with the process of Humanitarian Demining.





SUPPORT US TO REACH OUR
OBJECTIVE

ECUADOR

A MINE-FREE COUNTRY BY 2022
THANK YOU VERY MUCH