



National online workshop:

Generating climate change and disaster indicators for policy decision-making in Belize
09 – 11 Nov 2022

A teal-colored map of Belize is shown in the background. Overlaid on the map are several circular icons with dashed borders: a green water drop, a green palm tree, a blue fish, a red person with a gear, a yellow recycling symbol, and a pink person with a gear.

RECOMMENDATIONS FOR THE GENERATION OF STATISTICS AND ENVIRONMENTAL INDICATORS WITH THE USE OF NON-CONVENTIONAL SOURCES

WORKING GROUP ON ENVIRONMENTAL STATISTICS - CEA CEPAL 2020-2021

Georgina Alcantar, Chief of the Environment and Climate Change Statistics Unit

Statistics Division / Economic Commission for Latin America and the Caribbean (ECLAC)



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Introduction

The document "***Recommendations for the generation of environmental statistics and indicators with geospatial information and the use of non-conventional sources***" is aimed at creating new statistics and/or improving existing ones in the countries of the region.



14 countries and 2 international organizations

- Bolivia
- Brasil
- Chile
- Colombia
- Costa Rica
- Cuba
- Ecuador

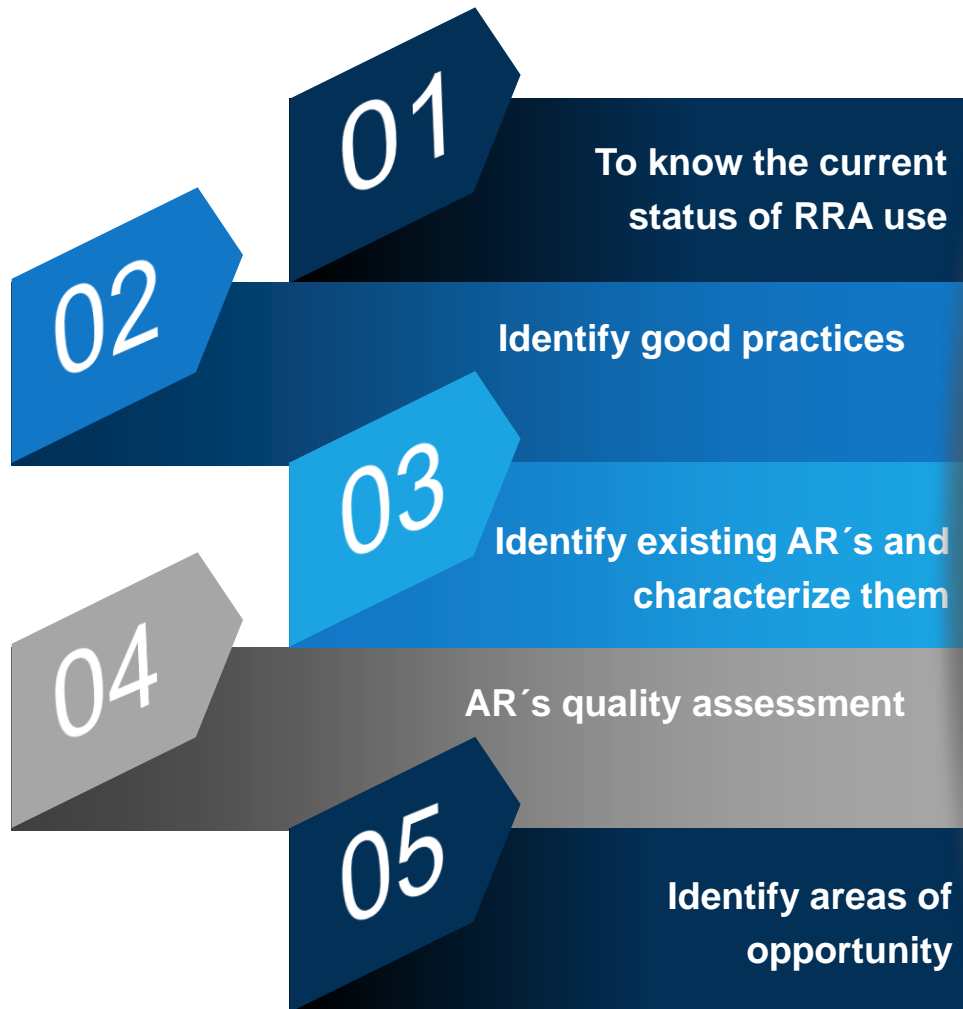


- El Salvador
- México
- Nicaragua
- Panamá
- Paraguay
- Perú
- República Dominicana
- PNUMA
- PNUD

Coordination.- INEGI Mexico

Technical Secretariat.- ECLAC Environment and Climate Change Statistics Unit

Diagnostic tool design



NSO's questionnaire:

- 23 questions; 14 of them on the use of AR's and 9 on EO.
- Topics covered:
 - Legal framework
 - Human Resources
 - Financial resources
 - Information technology

EM's questionnaire :

- 26 questions; 16 of them on the use of AR's and 10 on EO.
- Topics covered:
 - Legal framework
 - Human Resources
 - Financial resources
 - Validation
 - Use of the AR's
 - Management of the AR's
 - Information technology

Conditions for AR's harnessing

- Unique identifier
- Legal framework
- Conceptual design
- Collection instrument design and filling instructions
- Coordinate fields of the observation unit
- Statistical quality of the information.

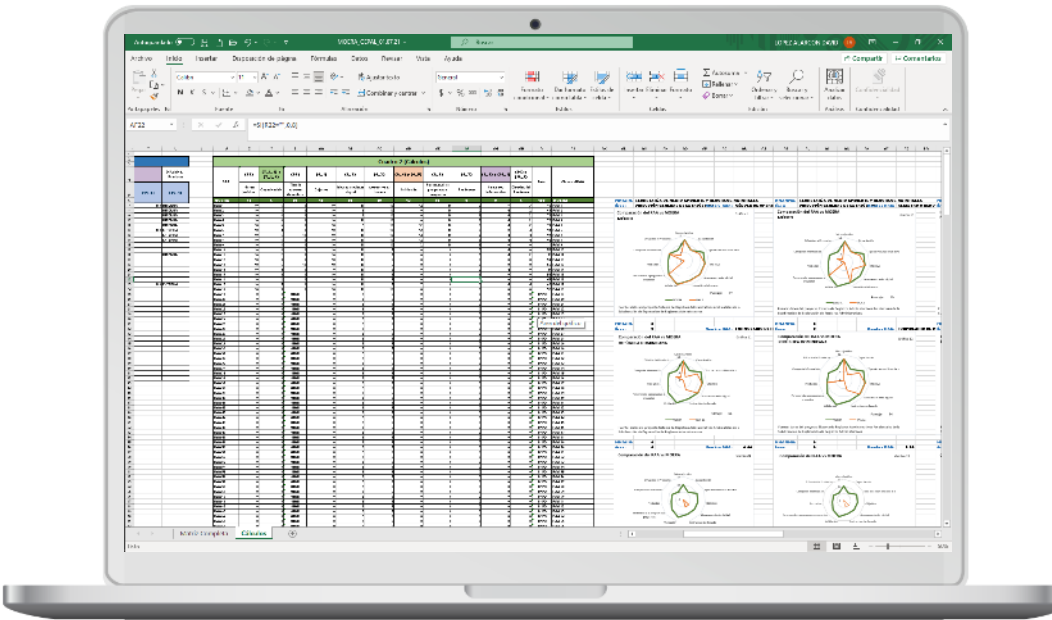
Optimal Model for the Evaluation of Administrative Records (MOERA)



A tool that assigns a score to AR's based on the presence of certain characteristics



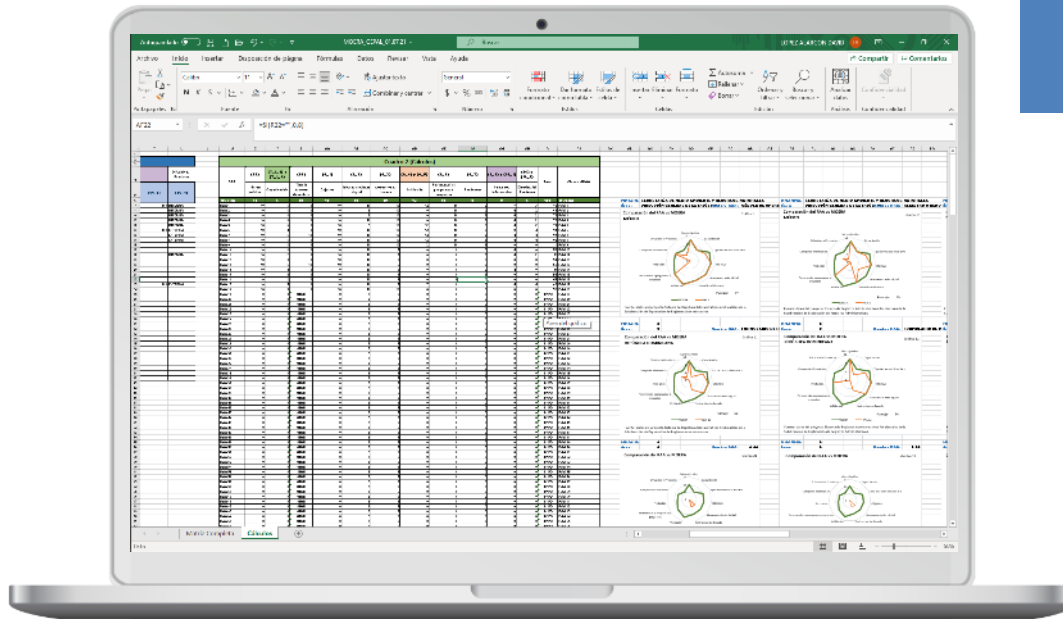
To evaluate the use of AR's in the generation of ES



Optimal Model for the Evaluation of Administrative Records (MOERA)



- Use 10 variables
- Each one has been assigned a value if it meets the criteria
- The sum of the values of each variable is the total result for the AR
- The maximum points that can be obtained is 100.

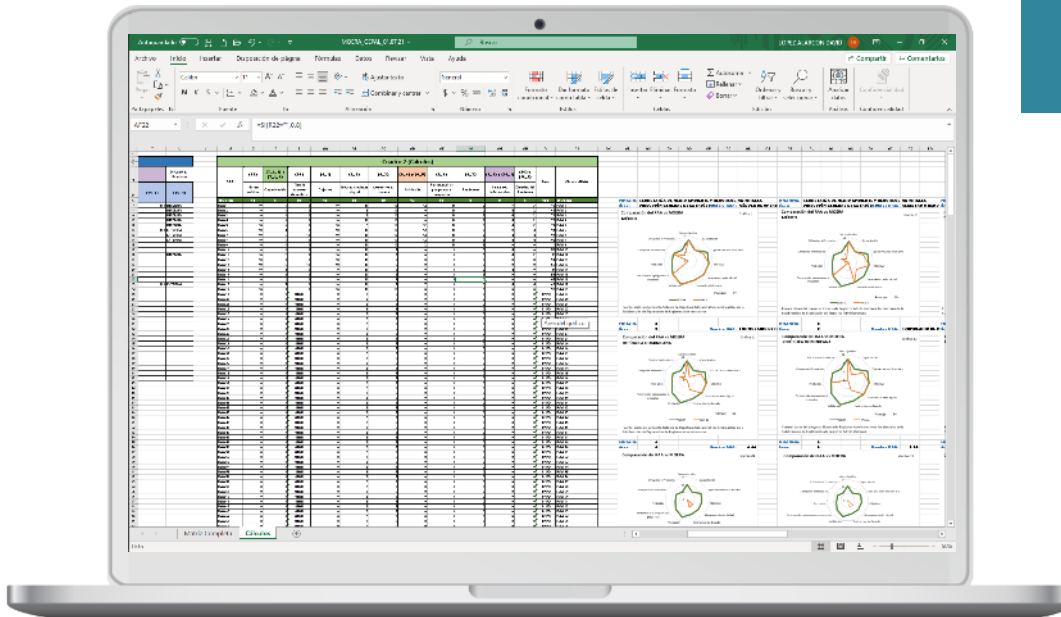


Optimal Model for the Evaluation of Administrative Records (MOERA)

● ○ ● Variables



1. Legal framework
2. Training
3. Financial resource
4. Target
5. Storage type
6. Filling instructions
7. Validation
8. Membership in programs or projects
9. Product generation
10. Dissemination



Results



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		NSO Questionnaire	EM Questionnaire
1. Chile	1 Instituto Nacional de Estadística	X	
2. Costa Rica	2 Instituto Nacional de Estadística y Censos	X	
3. Cuba	3 Ministerio de Ciencia, Tecnología y Medio Ambiente		X
4. Ecuador	4 Instituto Nacional de Estadística y Censos	X	
5. México	5 Instituto Nacional de Estadística y Geografía	X	
	6 Secretaría de Medio Ambiente y Recursos Naturales		X
	7 Comisión Nacional Forestal		
6. Perú	8 Instituto Nacional de Estadística e Informática	X	
	9 Ministerio del Ambiente		X
	10 Organismo de Evaluación y Fiscalización Ambiental		
	11 Ministerio de Salud/DIGESA		
7. República Dominicana	12 Oficina Nacional de Estadística	X	
	13 Ministerio de Medio Ambiente y Recursos Naturales		X

Results



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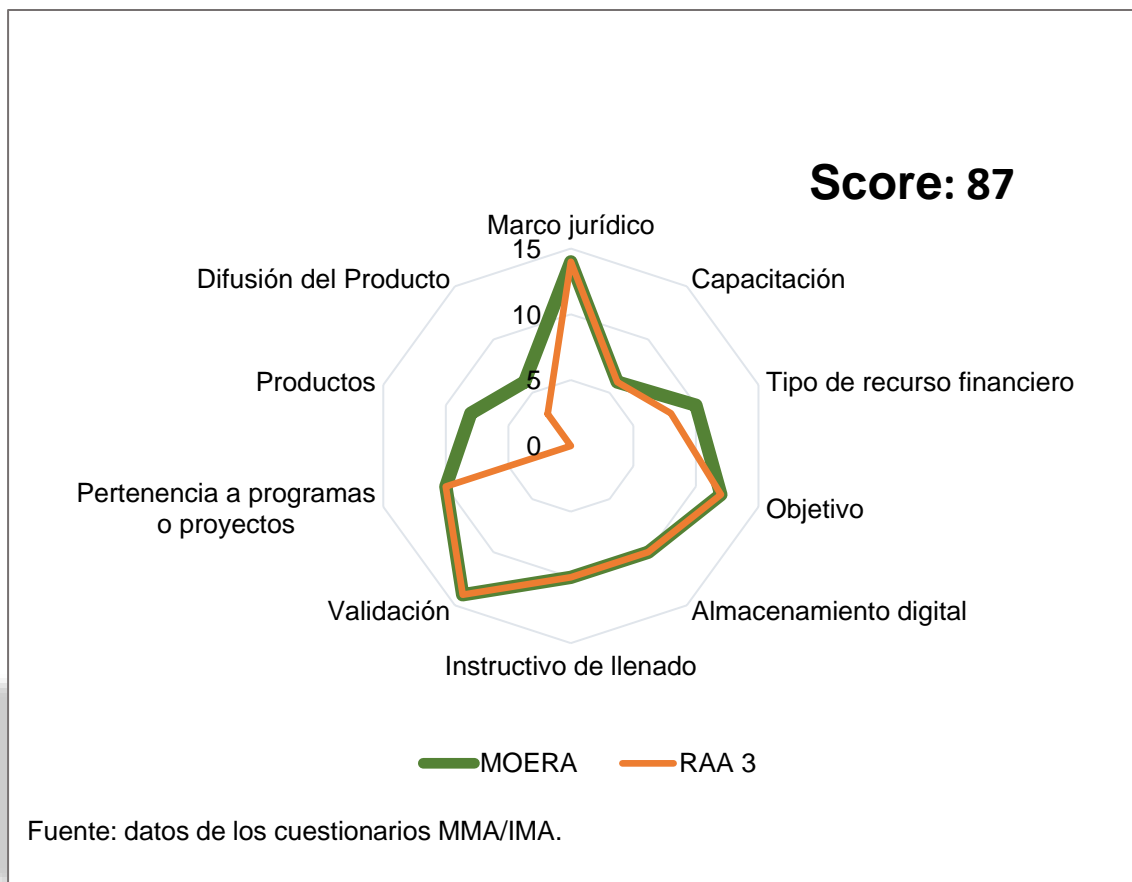
MOERA Evaluation (17 registers)

Country	Administrative Register	MOERA Score
1. Cuba	1. Premio Nacional de Medio Ambiente	68
	2. Reconocimiento Ambiental Nacional	59
2. México	3. Cédula de Operación Anual	87
	4. Prestador de Servicios Forestales	82
	5. Registro Público de Derechos de Agua	81
	6. Registro Como Generador de Residuos Peligrosos	76
	7. Registro o Renovación de Unidades de Manejo para la Conservación de la Vida Silvestre	68
3. Perú	8. Evaluación y Fiscalización Ambiental	100
	9. Infestación Aélica	98
	10. Registros Administrativos Relacionados a Gestión de Residuos Sólidos	96
	11. Actividades de Vigilancia y Control Vectorial del <i>Aedes aegypti</i>	92
4. República Dominicana	12. Protocolo Material Particulado Pm-10	65
	13. Formulario de Muestreo para Calidad de Agua	60
	14. Movimiento Transfronterizo de Desechos Peligrosos	55
	15. Formulario de Reporte de Incendio	54
	16. Formulario de Tirilla de Vertido Diario, Vertedero de Duquesa	51
	17. Formulario Ica- Plan de Manejo Ambiental	41



México – Annual operating certificate

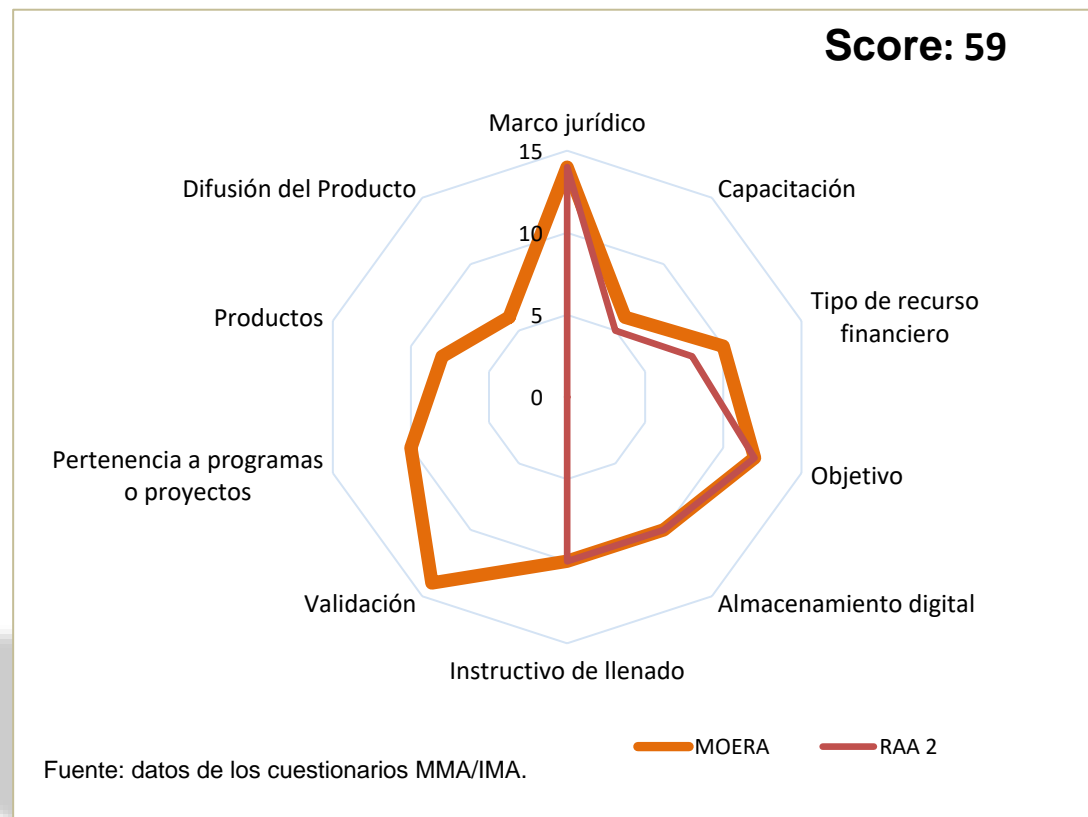
MOERA	
Score classification	
Category	Rank
Optimum	100 points
Recommended	90 - 99 points
Not recommended	70 – 89 points
Risky	69 points or less





Cuba – Environmental recognition

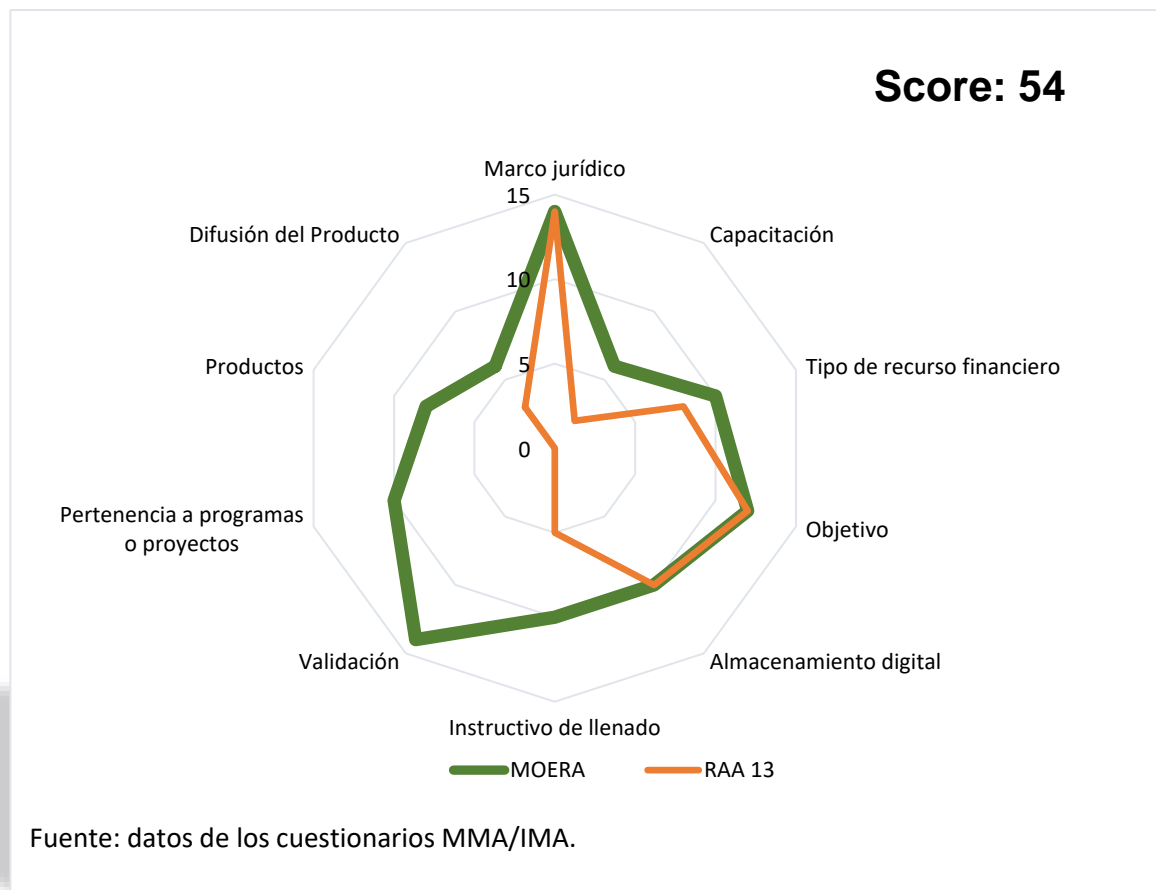
MOERA	
Score classification	
Category	Rank
Optimum	100 points
Recommended	90 - 99 points
Not recommended	70 – 89 points
Risky	69 points or less





República Dominicana – Fire report

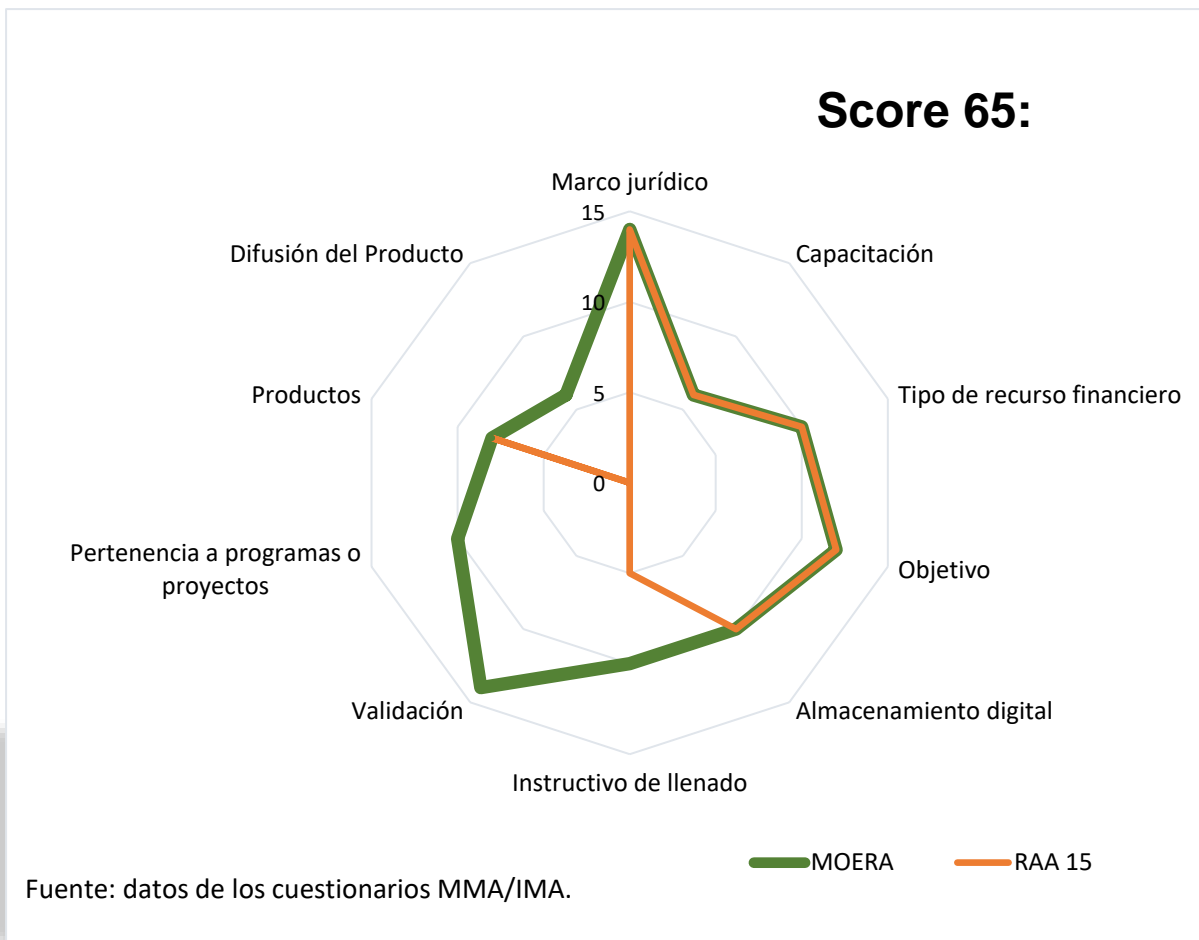
MOERA	
Score classification	
Category	Rank
Optimum	100 points
Recommended	90 - 99 points
Not recommended	70 – 89 points
Risky	69 points or less





República Dominicana - Particulate Matter Protocol PM-10

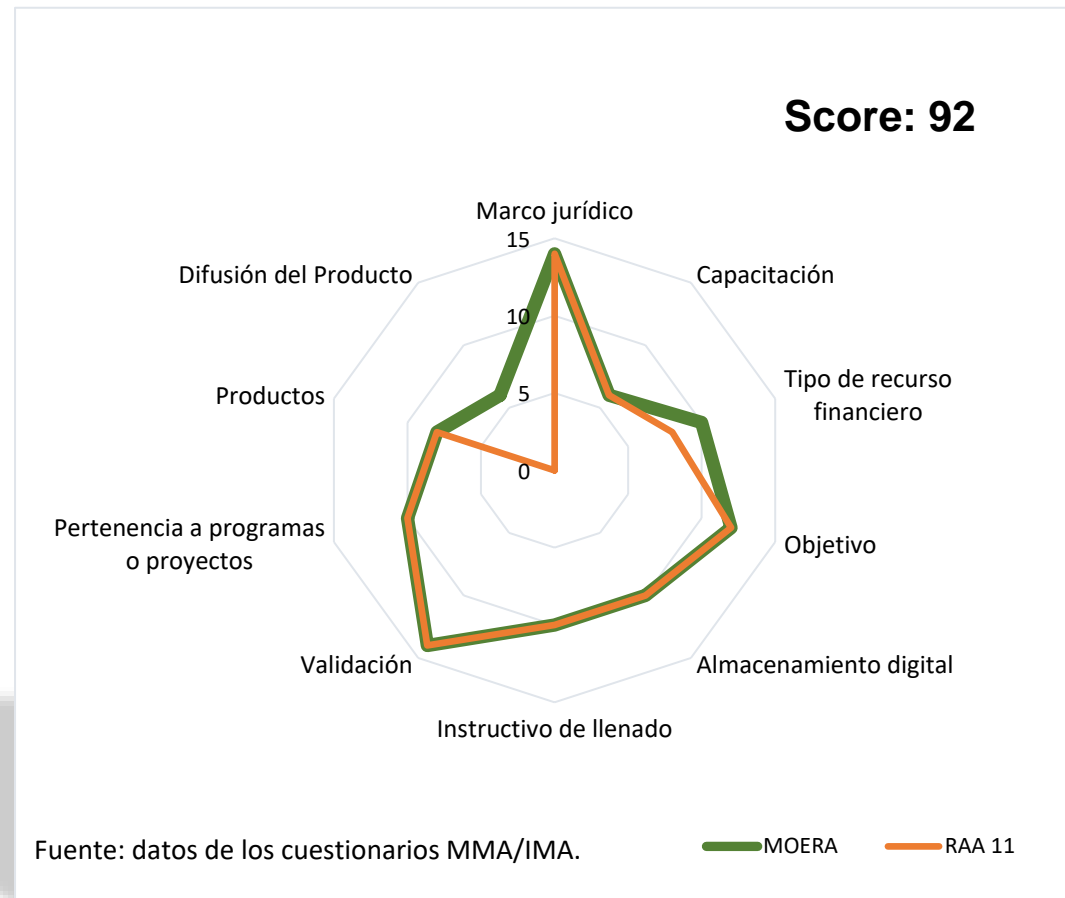
MOERA	
Score classification	
Category	Rank
Optimum	100 points
Recommended	90 - 99 points
Not recommended	70 – 89 points
Risky	69 points or less





Perú - Surveillance and Vector Control of *Aedes aegypti*

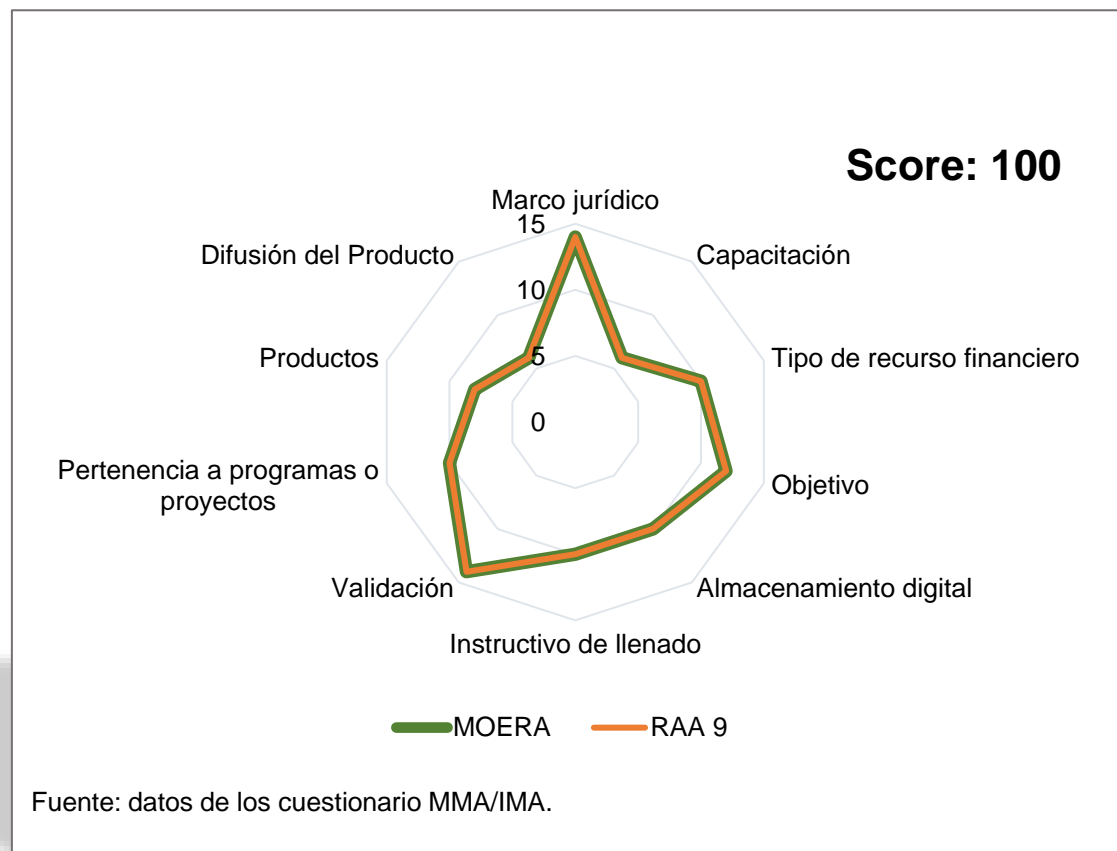
MOERA	
Score classification	
Category	Rank
Optimum	100 points
Recommended	90 - 99 points
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Perú - Environmental assessment and controlsólidos

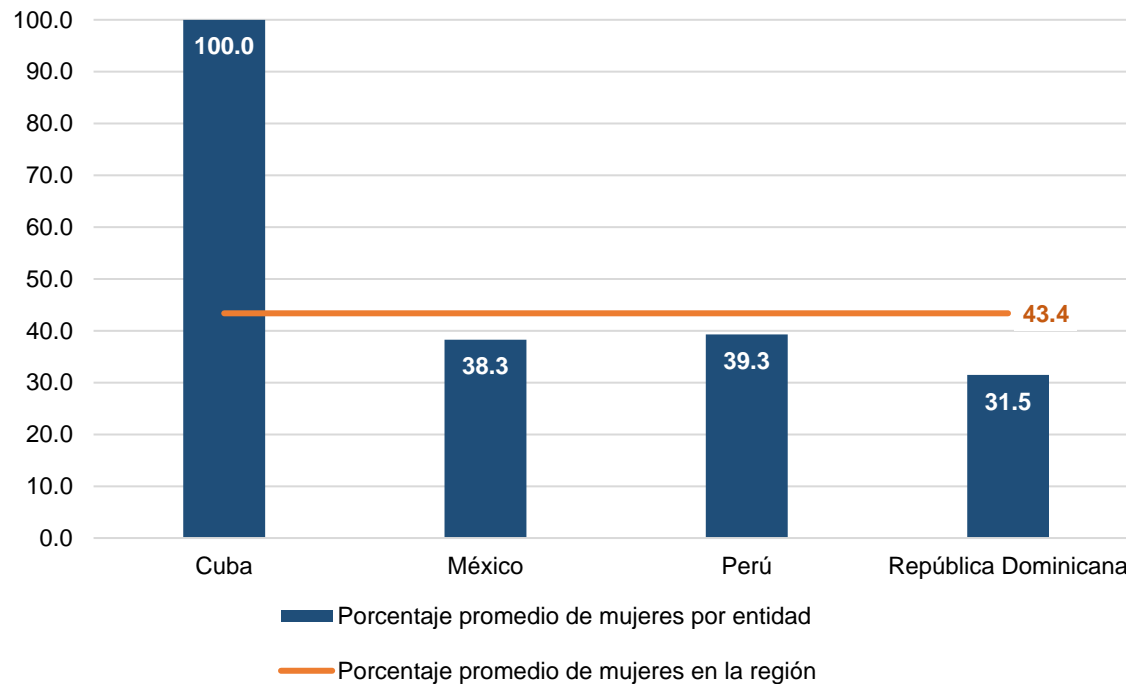
MOERA	
Score classification	
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Gender perspective



Percentage of women attending the AR's



Fuente: datos de los cuestionarios MMA/IMA.

Recommendations

- 1. Implement the MOERA tool in all countries.**
- 2. Strengthen the legal framework of administrative records.**
- 3. Build capacity and take advantage of available resources.**
- 4. Promote inter-institutional communication and collaboration.**



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Thank you for your attention!

<https://www.cepal.org/en/topics/environmental-statistics>



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