

The ESM of ULAB Recycling in Central America and the Caribbean – Outcomes and Impacts



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Workshop on Sound Management
of Used Lead Acid Batteries

26-27 November 2015, Osaka, Japan

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Project Participants





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Regional Recycling Project

Project Outcomes

1. Model approach to ESM of ULAB

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Project Outcomes

Model approach to ESM of ULAB

1. Inventory –
 - *ULAB & Recyclers*
2. Public education/awareness
3. Policy development
 - *Regulations/instruments*
4. Consolidation of “informals”
5. Collection & storage
6. Transport & shipping
7. Recycling



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Regional Recycling Project

Project Outcomes

1. Model approach to ESM of ULAB
2. NAP and Regional Strategy
3. Assessment Procedure for ESM
(Green Lead)

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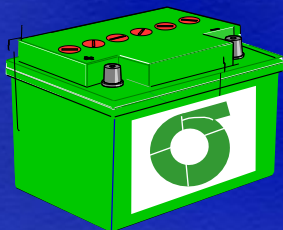
Project Outcomes

Two Green Lead Awards to Acumuladores Iberia, Guatemala

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Green Lead Award





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Project Outcomes

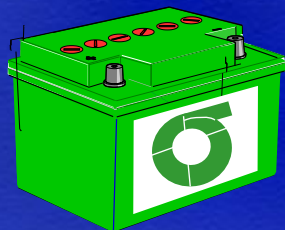
Three more ULAB recyclers with ESM in process to be nominated for Green Lead Awards:

- ✓ **PB Metals, Costa Rica**
- ✓ **Verde Eco-reciclaje Industrial, Dominican Republic**
- ✓ **MAC, Colombia**

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Green Lead Award





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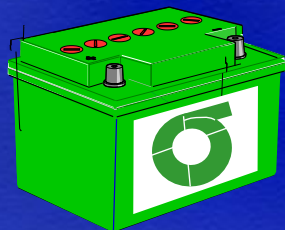
Project Outcomes



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PB METALS, Costa Rica
Green Lead Award





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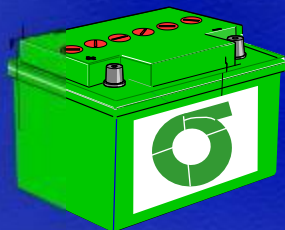
Project Outcomes



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PB METALS, Costa Rica
Green Lead Award





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Project Outcomes

Verde Eco-Reciclaje Industrial, Dominican Republic



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Inspected by BW y Directors BCRCs
Caribbean and Central America on
October 2012





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Regional Recycling Project

Project Outcomes

1. Model approach to ESM of ULAB
2. NAP and Regional Strategy
3. Assessment Procedure for ESM
4. Training Manual for ESM of ULAB

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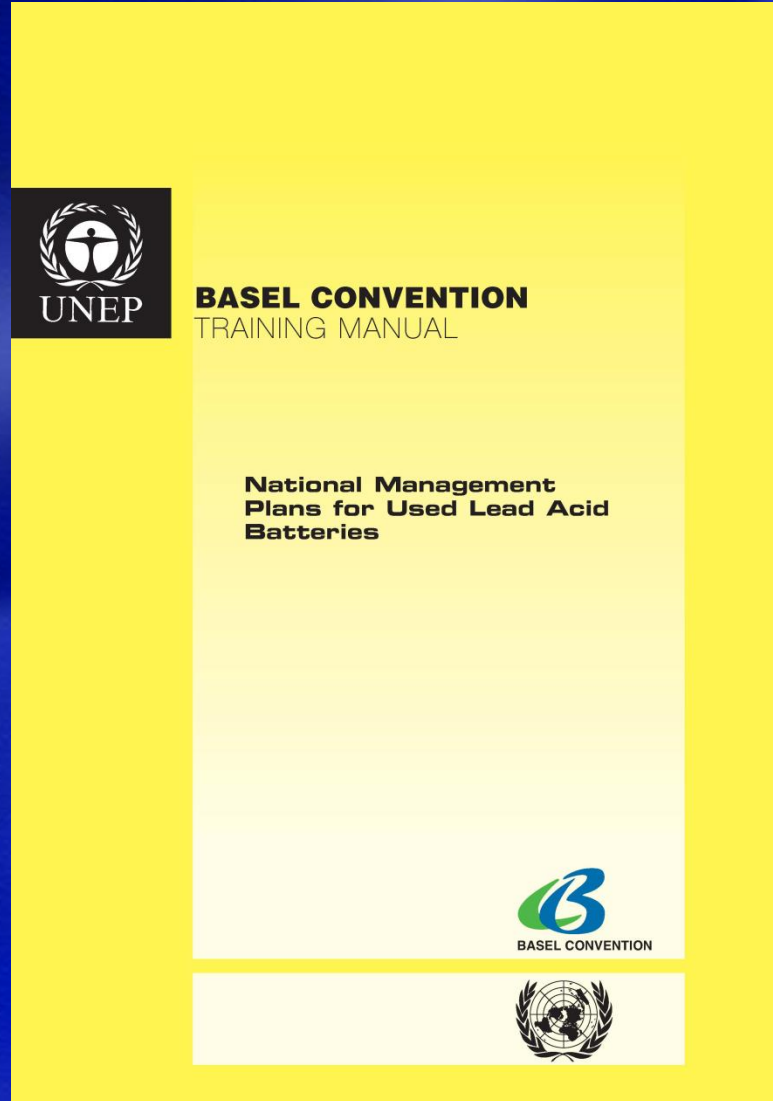
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Training Manual





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Training Manual

1. Assessment of ESM
2. Collection, Storage – Shipping
3. Formal Sector Strategies
4. Informal Sector Controls
5. Communication and Information
6. Site Remediation
7. Occupational Health and Safety
8. Transboundary Regulations.

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Regional Recycling Project

Project Outcomes

1. Model approach to ESM of ULAB
2. NAP and Regional Strategy
3. Assessment Procedure for ESM
4. Training Manual for ESM of ULAB
5. Basel Convention Compliance

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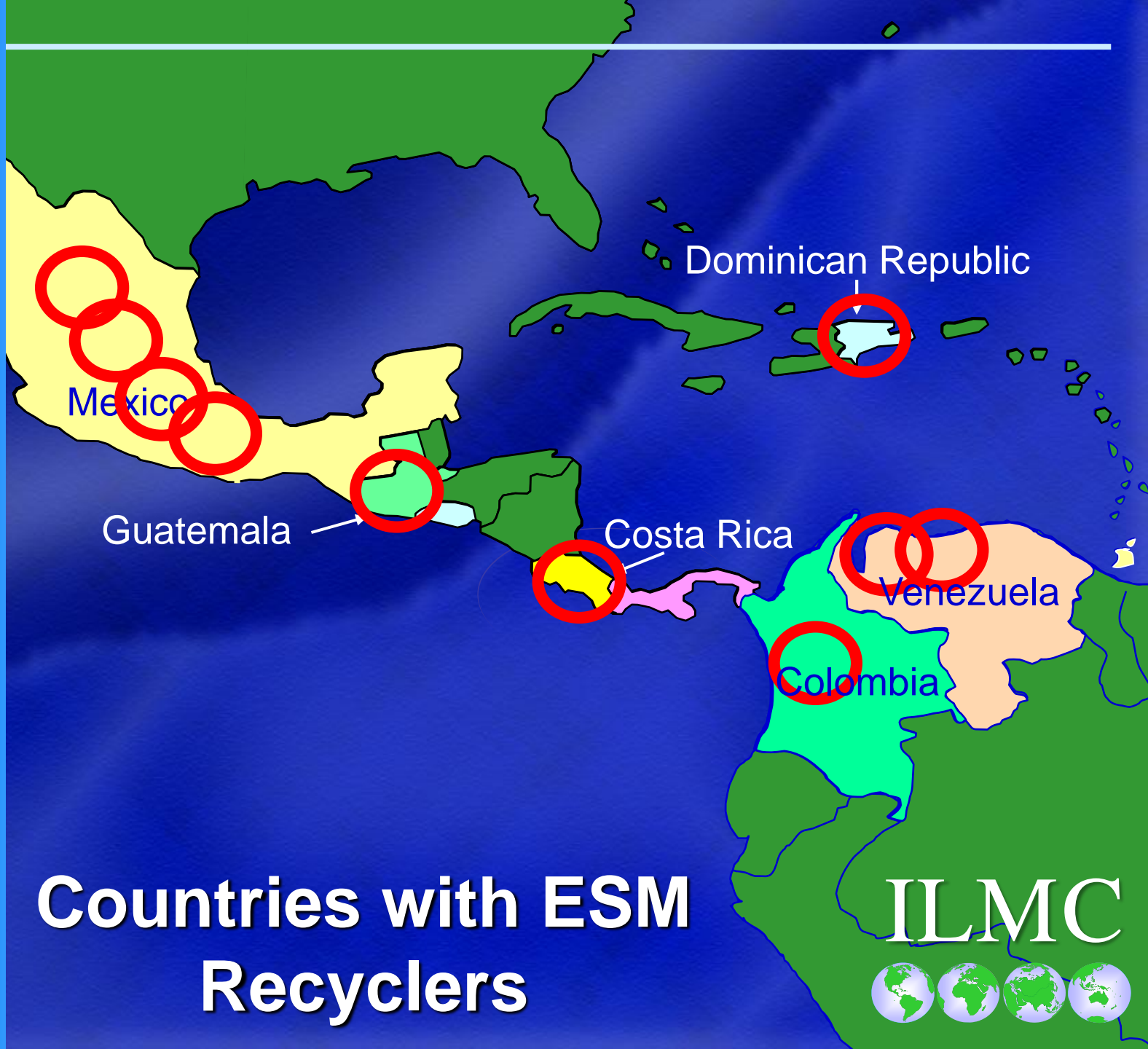


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**Countries with ESM
Recyclers**

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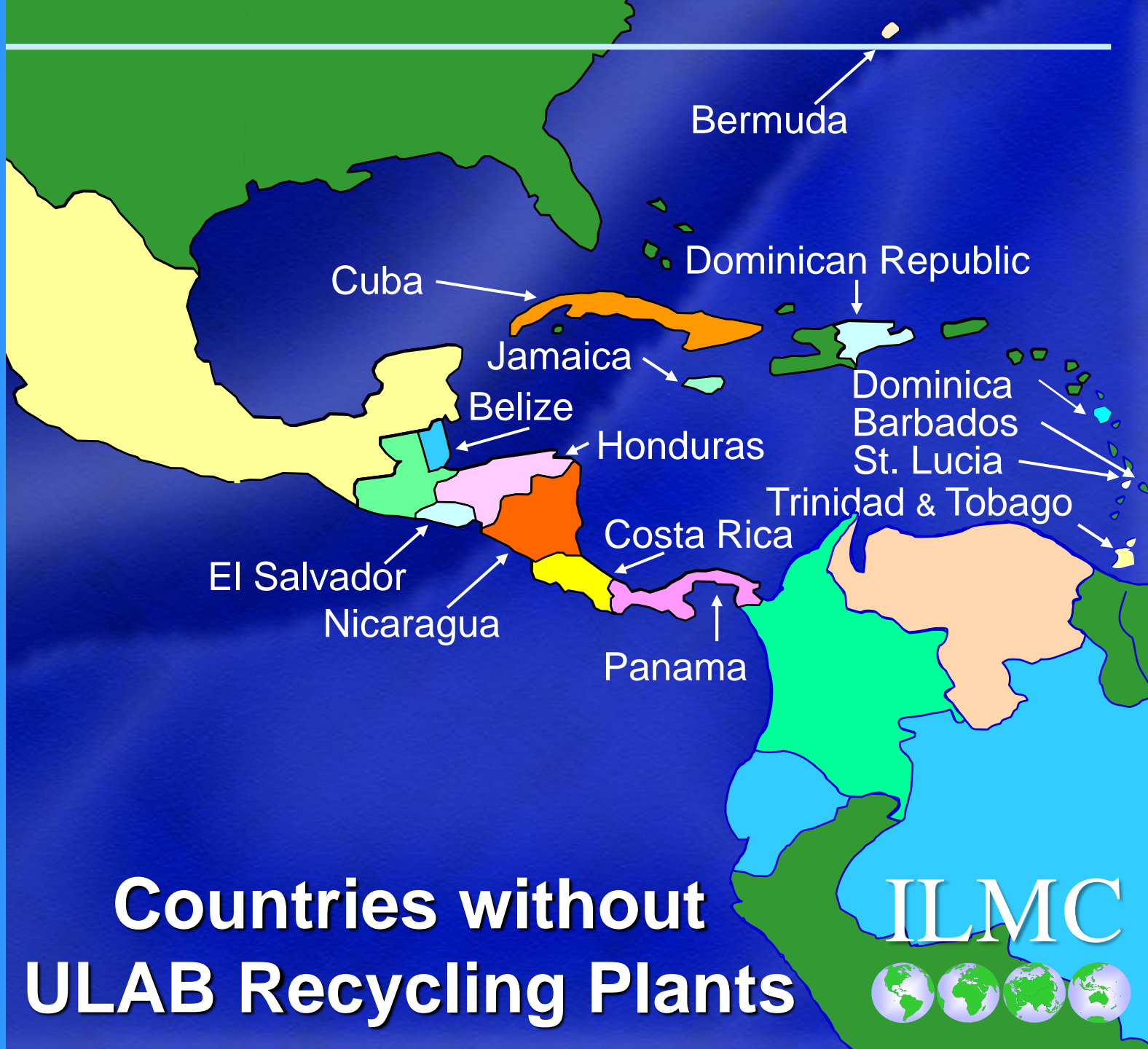




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Countries without ULAB Recycling Plants





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ULAB Inventory



Ministry of the Environment

Recycling – West Africa

Western Sahara



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Gambia

Guinea Bissau

Sierra Leone

Liberia

Mauritania

Mali

Senegal

Guinea

Ivory Coast

Burkina Faso

Ghana

Togo

Benin

Regional ULAB Recycling **ILMC**



ULAB Recycling – China & India



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Thank You

