CARINATA AND INDIRECT LAND USE CHANGE
Carinata: expanding the oilseeds supply chain
Bio World Congress, Montréal, 24 July 2017
RSB: WHAT WE DO

Trusteed Solutions for a New World®

Driving the development of the bioeconomy for a better world through certification, sustainability solutions, innovation and partnerships.
RSB Services

1. Membership
2. Certification
3. Advisory Services
4. Partnerships
# THE 12 RSB PRINCIPLES

## Overview

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<tbody>
<tr>
<td>Legality</td>
<td>Planning, Monitoring &amp; Continuous Improvement</td>
<td>Greenhouse Gas Emissions</td>
<td>Human &amp; Labour Rights</td>
<td>Rural and Social Development</td>
<td>Local Food Security</td>
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<tr>
<td>Conservation</td>
<td>Soil</td>
<td>Water</td>
<td>Air Quality</td>
<td>Use of Technology, Inputs &amp; Management of Waste</td>
<td>Land Rights</td>
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</table>
1. No Poverty
2. Zero Hunger

3. Good Health
4. Quality Education
5. Gender Equality
10. Reducing Inequalities

RSB Principle
Rural & Social Development
Food security

RSB Principle
Human and Labour rights
Rural & Social Development
Air quality/ No forced labour

RSB Principle
GHG Emissions
Water
Conservation
Soil
Land rights

13. Climate Change Action
14. Life Below Water
15. Life on Land
## THE RSB STANDARD

### Why it is best in class

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<tr>
<td>1</td>
<td>Covers the whole <strong>supply chain</strong>.</td>
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<tr>
<td>2</td>
<td>50% reduction in <strong>GHG emissions</strong>.</td>
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<td>3</td>
<td>Zero <strong>deforestation</strong>.</td>
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<td>4</td>
<td>Participative and Transparent Stakeholder consultation.</td>
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<td>5</td>
<td>Ensures <strong>Food security</strong>.</td>
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<td>6</td>
<td>No forced labour.</td>
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<td>7</td>
<td><strong>Land rights</strong> are respected.</td>
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<tr>
<td>8</td>
<td><strong>Water rights</strong> of local communities are respected and supported.</td>
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<tr>
<td>9</td>
<td>Improvement of rural development when operating in a region of poverty.</td>
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<td>10</td>
<td>Use of <strong>chemicals</strong> controlled.</td>
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# RSB

## Risk Based Approach

| Risk Category | - Audit schedule  
|               | - Audit intensity |
| RSB Screening Tool | - Identifies risks specific for the project  
|                  | - Audit team composition |
| Waste/Residues | - Impact assessment per category  
|                | - Requirements to address specific risks |
| RSB Regional Indicators | - Existing regulatory context  
|                        | - Tools/Standards already used in a region |
| Collaboration   | - Benchmarks (e.g. Bonsucro, RSPO, Fairtrade)  
|                | - Combined Audits |
## CERTIFICATION

1. Most trusted of its kind.

2. Verifies biomaterials, biofuels and biomass are socially responsible, environmentally sustainable and credibly-sourced

3. Mitigates business, environmental & social risk.
RSB has certified 472 farms covering 56,785 ha as well as 50 industrial Sites in 17 countries.

Avoided GHG emissions through RSB certified operators corresponds to the annual emissions of more than 62,000 cars.

Across 56,785 ha responsible and sustainable practices.

1941 workers are covered by RSB certification and protected.
FEEDSTOCKS & PRODUCTS

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<tr>
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<th>Feedstock</th>
<th>Bioproducts</th>
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<tbody>
<tr>
<td>1</td>
<td>Biofuels</td>
<td></td>
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<tr>
<td>2</td>
<td>Biomass</td>
<td></td>
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<tr>
<td>3</td>
<td>Plastics</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Feed</td>
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<tr>
<td>5</td>
<td>Lubricants</td>
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<tr>
<td>6</td>
<td>Cleaning Products</td>
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<tr>
<td>7</td>
<td>Pharmaceuticals</td>
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<tr>
<td>8</td>
<td>Cosmetics</td>
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<tr>
<td>9</td>
<td>Flavours &amp; Fragrances</td>
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AVIATION

1. Supported by SAFUG: 28 Airlines – 33% of global aviation fuel use

2. Certification of major aviation initiatives

3. Technical advice at ICAO level
PARTNERSHIPS

Mexico – supply chain
Protocols, pilots, certification

USA national interpretation
Corn stover protocol

Vancouver General Assembly & Aviation Fourm 14-16 Nov 17
PARTNERSHIPS

Brazil: aviation supply chain, pilots, smallholders

South America

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PARTNERSHIPS

Aviation supply chain, feedstock study, national interpretation of standard, pilots, smallholders

Africa
PARTNERSHIPS

Business development and policy support.

China
PARTNERSHIPS

State-level interpretation of standard

Australia
**Carinata**  
A solution for indirect land use change

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<td>1</td>
<td>iLUC – a key concern for industry and policy-makers worldwide.</td>
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<td>2</td>
<td>RSB identified low risk approaches for iLUC with WWF and Ecofys.</td>
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</table>
| 3 | Optional module: “low iLUC risk”.  
iLUC
Low risk approaches

1. **Yield increase**: (a) improve practices; (b) intercropping; (c) crop rotation.

2. Unused / degraded land.

3. Use of waste / residues.
Thank You

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16 March 2017