RISE method

- **Response-Inducing Sustainability Evaluation**

- **HOW?**
  - 3 to 4-hour interview on the farm
  - 50 indicators, 10 themes
  - Scores from 0 (worst) to 100 (best)
  - spiderweb
Visualization of the Response-Inducing Sustainability Evaluation (RISE) in form of a spider web or a sustainability polygon
<table>
<thead>
<tr>
<th>Themes</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil use</td>
<td>- Soil management&lt;br&gt;- Crop productivity&lt;br&gt;- Soil organic matter supply&lt;br&gt;- Soil reaction&lt;br&gt;- Soil pollution&lt;br&gt;- Soil erosion&lt;br&gt;- Soil compaction</td>
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<tr>
<td>Animal husbandry</td>
<td>- Herd management&lt;br&gt;- Livestock productivity&lt;br&gt;- Possibility for species-appropriate behaviour&lt;br&gt;- Quality of housing&lt;br&gt;- Animal health</td>
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<td>Nutrient flows</td>
<td>- Nitrogen balance&lt;br&gt;- Phosphorus balance&lt;br&gt;- N and P self-sufficiency&lt;br&gt;- Ammonia emissions&lt;br&gt;- Waste management</td>
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<tr>
<td>Water use</td>
<td>- Water management&lt;br&gt;- Water supply&lt;br&gt;- Water use intensity&lt;br&gt;- Risks to water quality</td>
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<tr>
<td>Energy &amp; Climate</td>
<td>- Energy management&lt;br&gt;- Energy intensity of agricultural production&lt;br&gt;- Share of sustainable energy carriers&lt;br&gt;- Greenhouse gas balance</td>
</tr>
<tr>
<td>Themes</td>
<td>Indicators</td>
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</table>
| **Agrobiodiversity & Plant protection** | - Plant protection management  
- Ecological priority areas  
- Intensity of agricultural production  
- Landscape quality  
- Diversity of agricultural production |
| **Working conditions**         | - Personnel management  
- Working times  
- Safety at work  
- Salaries and income level |
| **Quality of life**            | - Occupation + education  
- Financial situation  
- Social relations  
- Personal freedom + values  
- Health |
| **Economic viability**         | - Liquidity reserve  
- Level of indebtedness  
- Economic vulnerability  
- Livelihood security  
- Cash flow - turnover ratio  
- Dept service coverage ratio |
| **Farm management**            | - Farm strategy + planning  
- Supply and yield security  
- Planning instruments + documentation  
- Quality management  
- Farm cooperation |
Visualization of the Response-Inducing Sustainability Evaluation (RISE) in form of a spider web or a sustainability polygon
Tool
Response-Inducing Sustainability Evaluation (RISE)

Conversation on sustainability with farmers and formulation of recommendations during dialogue
RISE case study: Smallholders in Central Kenya

Small farm
Agricultural area = 3.2 ha
Work force = 3 persons
Products: Vegetables, Potatoes, Milk (subsistence)
Remark: Many farmers in the region are also workers on large vegetable farms, others are contract outgrowers for a vegetable exporter.
Results: Kenya
RISE case study 2: Large-scale dairy farming in Mexico

**Individual Farm profile**
Agricultural area = 1,902 ha
Work force = 384 persons
Livestock = 7,100 livestock units
Products: 200 t milk/day, meat of calves & cows

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Results Mexico