FABLE: A decentralized approach to model national and global food and land use systems

June 29, 2023
The FABLE Consortium

Since 2017, FABLE supports and mobilises researchers based in national knowledge institutes from all continents to develop decision-support tools to increase food and land-use systems’ sustainability.

23 countries represented

(Greece joined in June 2023)
There is a large diversity of agri-food systems in the world.

Source: FAO 2015
Scenathon: an iterative approach to integrate national and global scales

- Empowers people who live in heterogenous contexts to design the future they want.
- Shows the interconnectedness of national food and land systems and the need for collaboration to converge local and global priorities.

1. Countries’ trade assumptions
2. Balanced countries’ trade assumptions
3. Countries’ contribution to global targets
4. Targets not achieved... Need to raise ambition!
Scenathon 2023

What are the main levers for transformation in each country?

<table>
<thead>
<tr>
<th>Category</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDP Growth &amp; Population</td>
<td>GDP per capita, Population</td>
</tr>
<tr>
<td>Trade</td>
<td>Imports, Exports</td>
</tr>
<tr>
<td>Land</td>
<td>Land conversion, Afforestation</td>
</tr>
<tr>
<td>Biodiversity</td>
<td>Protected areas</td>
</tr>
<tr>
<td>Food</td>
<td>Diet, Food waste</td>
</tr>
<tr>
<td>Productivity</td>
<td>Crop productivity, Livestock productivity, Pasture stocking rate</td>
</tr>
</tbody>
</table>

3 alternative pathways:

- **Global Sustainability**: What will happen if national actions/policies are aligned with global sustainability targets.
- **National Commitments**: What will happen if national actions/policies are aligned with national commitments.
- **Current Trends**: What will happen if we do not act differently than the past decade / today.
Thank you!

A network for sustainable food systems at national and global scales

The Food, Agriculture, Biodiversity, Land-Use and Energy (FABLE) Consortium

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