# Just transition in food systems – the concept and its meaning in different contexts







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Languages and Practices of Sustainability Workshop, 25-26 May 2023, Bern



- 1. Challenges in modern food systems and the need for change
- 2. Definition of a food system
- 3. Justice and sustainability in food systems
- 4. Principles and criteria for just transition
- 5. Just transition in context the Brazilian soy value chain

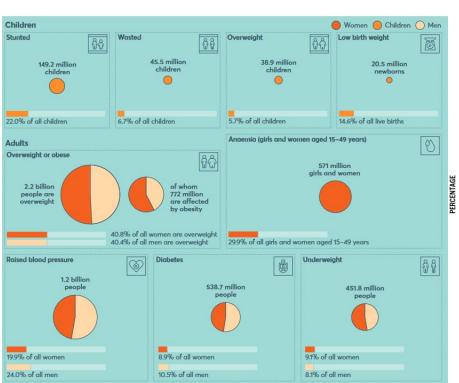
1. Food and nutrition security

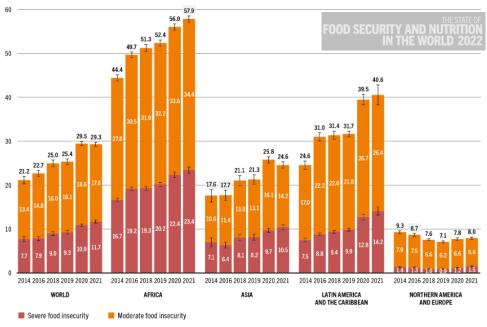




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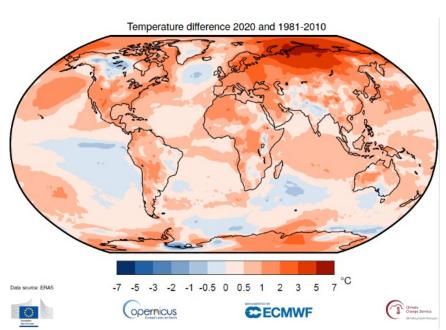


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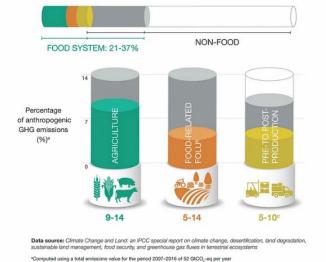
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1. Climate change

#### Global greenhouse gas emissions from the food system



\*Computed using a total emissions value for the period 2007–2016 of 52 GtCO<sub>2</sub>-eq per year \*Forestry and Other Land Use
\*Rounded to nearest fifth percentile due to assessed uncertainty in estimates Tribaldos: Languages and Practices of Sustainability Workshop, 25-26 May 2023, Bern

#### 1. Land use and land use changes





Abb. 2: Anteil der Arten pro Rote-Liste-Kategorie in der Schweiz

Arten, die in die Kategorien CR, EN und VU eingestuft wurden, gelten als gefährdet.





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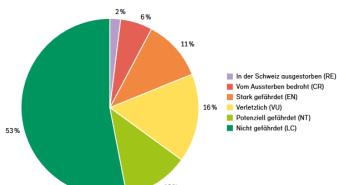


Maluf 2019



Own picture 2023

Ouelle: BAFU











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# Transformation is needed and urgent!





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## 2. FAO – the food system wheel

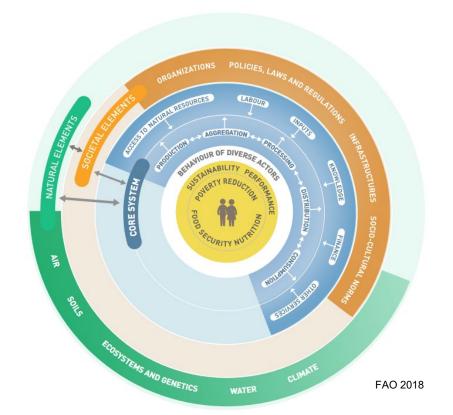






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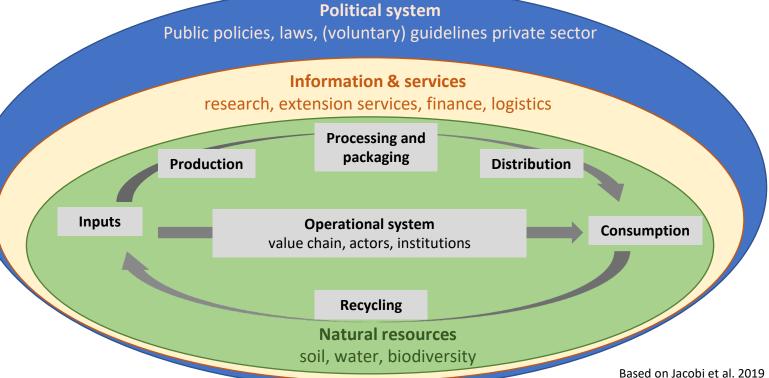




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#### 2. Food systems and their subsystems.









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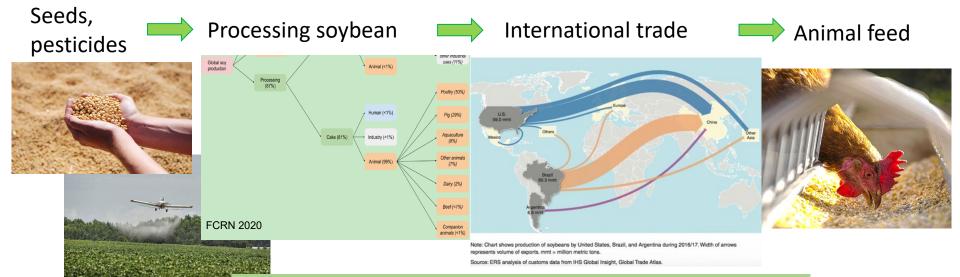
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#### 2. Soy for feed: an example

Finance: high investments in machinery, inputs, logistics

Private sector guidelines: Roundtable on Responsible Soy (RTRS)





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### 3. Justice in dietary transitions







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- Research topics along the 3 dimensional framework from social (Fraser 2009) and environmental justice (Schlosberg 2007):
  - Distributional justice: access and affordability to nutritious food, path dependencies and innovation capacities in agricultural production, distribution of benefits along new value chains (alternative proteins), capacity building for disadvantaged groups
  - Recognition justice: resolving socio-cultural tensions between different notions of "good diets", shaping of diets by dominant narratives and power distribution, marginalisation, devaluation, and invisibility of farmers and farm labour, ethical questions in animal production
  - Procedural justice: negotiating socio-cultural tensions and conflicting claims, roles and responsibilities in public/private governance, more inclusive food democracies to consider and navigate inequalities

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## 3. What makes food systems sustainable?

- Buffer capacity
- Self-organization
- Learning and adaptation

- Landscape management
- Carbon footprint
- Health impacts



- Access to information
  - Effective participation



ecological

- Household level
- Power relations
- Capacity to store and process food
- Income and expenditure
- Access to infrastructure
- Performance of value chains

Rist and Jacobi, 2016



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# 4. Principles and criteria for just transition

Definition of just transition: Low-carbon transition towards sustainable, healthy and fair food systems

- ➤ How can one tell if a particular mitigation process, pathway, or policy is just, why, and for whom?
- How to make sense of competing claims for justice?

4. Principles and criteria for just transition





Application and testing

of framework with food

system actors in Finland



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Preliminary list of principles and criteria

Interdisciplinary iteration

rounds

Philosophical iteration

rounds

Initial draft of framework

with principles and criteria

Relevant literature

First list of relevant topics

Categorisation, simplification and clustering UNESCO Chair on Natural and Cultural Heritage for Sustainable Mountain Development University of Bern

> rid Heritage Swiss Alps Jungfrau Aletso search in ASAL Development (CETRAL



Contents lists available at ScienceDirect

**Environmental Innovation and Societal Transitions** 

journal homepage: www.elsevier.com/locate/eist

Just transition principles and criteria for food systems and beyond

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13 principles and 28 criteria for just transition in food systems



E.g. criteria cosmopolitan justice:

- Decarbonizing activities do not cause food insecurity and
- Decarbonizing activities respect the participatory control over and access to productive resources elsewhere in the world.



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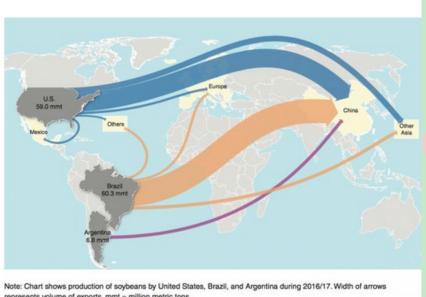






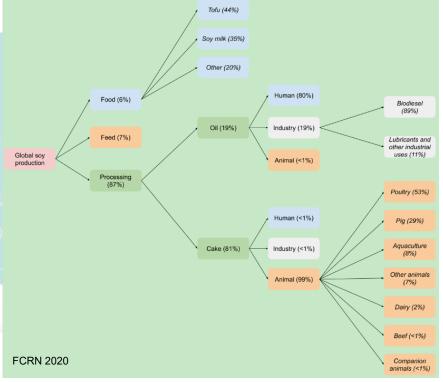
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## 4. The Brazilian soy value chain



represents volume of exports. mmt = million metric tons.

Source: ERS analysis of customs data from IHS Global Insight, Global Trade Atlas.





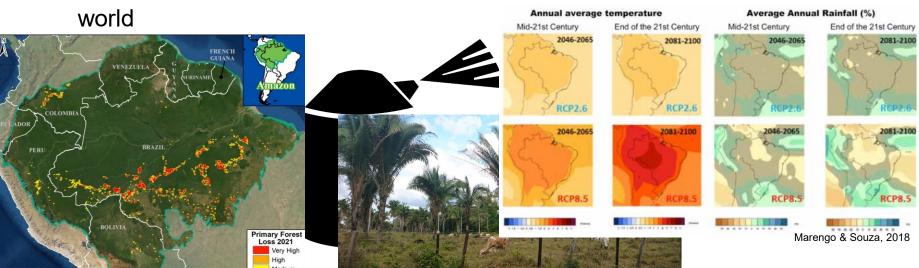




#### 4. The Brazilian soy value chain

Base Map, Deforestation hotspots across the Amazon in 2021 (as of September 18), Data: UMD/GLAD

- Biggest country in LA and 5<sup>th</sup> biggest country in the world
- World's biggest soy and second biggest producer of beef -> high input production
- Rich in biodiversity and ecosystems -> Amazon is seen as the green lung of the



## 4. (In)justice in Brazilian soy value chain



in partners!
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To what extent and with what requirements is a just and sustainable transition in Brazilian soy value chain feasible? => Not feasible in our view!

- Distributive: meat consumption in Global N, social and environmental costs
   Global S among most vulnerable population groups
- Procedural: strong political coalitions and lobbying fronts among the agroindustrial sector lead to influencing public policies
- Recognition: power asymmetries between dominant soybean model and social movements of family farmers, peasants and indigenous people
- Initiatives to reduce emissions without changing the underlying structural causes of injustices cannot be considered as just transition

#### 4. Ideas and proposals in dispute



Aim: Identify actors, discursive repertoires, and private strategies / public policy proposals for just and sustainable food system transition

Document mapping

#### **Commercial private sector**

Civil society movements/organizations



Efficient economic use of natural resources => distributive justice issues

Paradigm shifts, agroecology, democracy and rights => all dimensions

- Policy initiatives of both repertoires visible in different government plans and documents and partially contradict each other
- > Influence of the two bodies clearly visible in different institutions







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Thank you!

https://www.cde.unibe.ch/

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