



The Transformation Game: using the CLEANED R tool to negotiate inclusive and sustainable vision of transforming livestock value chains

SAIRLA ILA Arusha, Tanzania May 2019

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Objective

Develop an engagement protocol that allows decision makers to learn about major environmental dynamics resulting from changes in livestock value chains, identify trade-offs and synergies and develop a vision for an inclusive and sustainable vision of how to transform a livestock value chain to meet future ambitions

The CLEANED R tool

The interactive protocol



Ex-ante spatially explicit environmental simulation tool computing :

- Land pressure, land use change and overall production
- Water use for livestock 2.
- Greenhouse gas emissions 3. (IPCC tier 2)
- Biodiversity change 4.
- Nitrogen soil balance 5.

Based on user input of number of livestock, alive weight, productivity and feed basket for each category of livestock



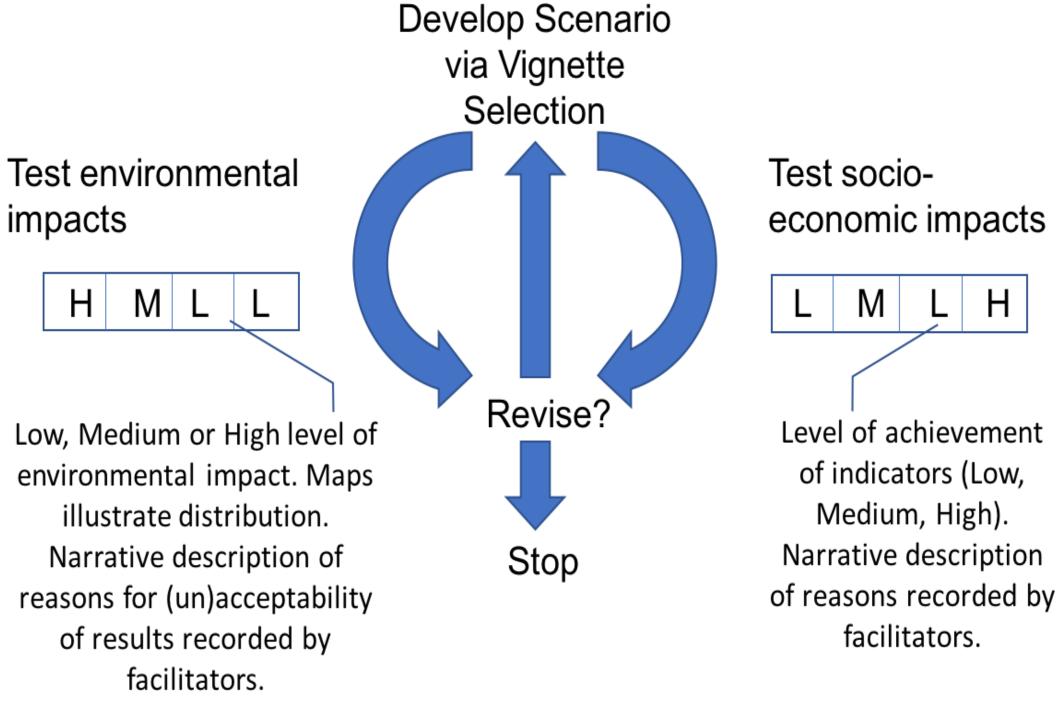


Figure 1: The iterative process of designing, evaluating and re-designing scenarios for the future

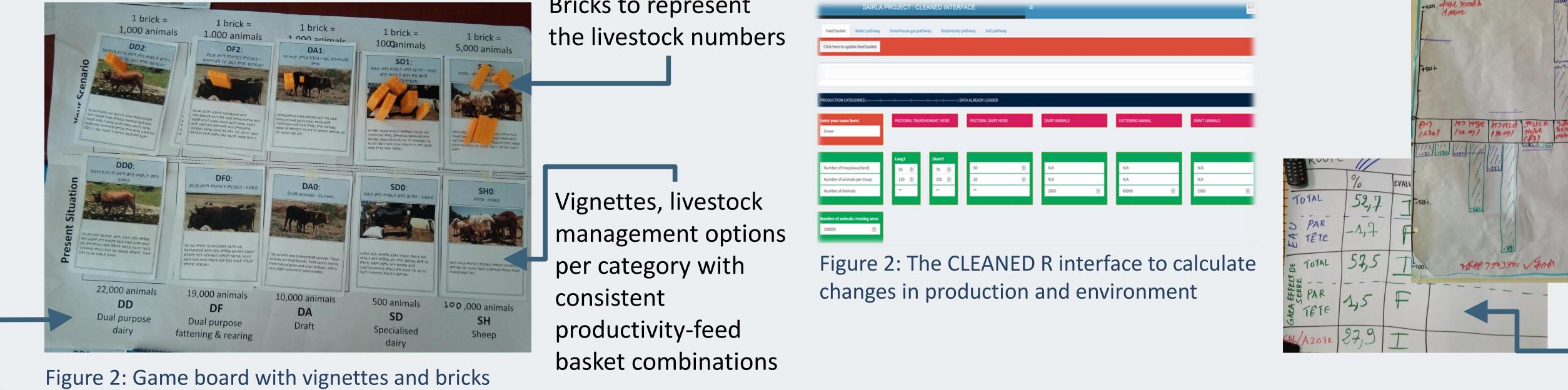
The transformation game: implementation of the protocol

Participatory well being indicators

Participatory well being indicators definition based on story telling about successful individuals in the future to :

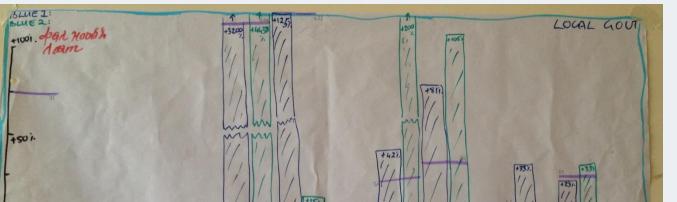
- Understand how local people define success
- Derive indicators to measure success
- Define thresholds that allows to 3. communicate to what extend the success has been reached (in terms of high/medium/low)

Game board, with livestock categories



Bricks to represent

SAIRLA PROJECT : CLEANED INTERFACE				=
Feed basket Wit	ater pathway Greenhouse gas pathway	Biodiversity pathway	Soil pathway	
Click here to update for	eed basket			



Lessons learnt from Ethiopia, Tanzania and Burkina Faso

The CLEANED R tool becomes a boundary object : a neutral agent in the process that is not fully understood by individuals but every one accepts its results

In Burkina Faso:

> Crop farmers and pastoralists can co-exist in peace – if the pastoral routes and zones are well managed. > The transformation game can be used to solve conflicts between crop farmers and pastoralists

In Tanzania:

- > Improved cattle fed with bran, oil-seed cake and locally planted fodder will reduce pressure on land at the cost of buying staple food from other areas.
- > The transformation game unlocks the power of imagination. It helps communities get engaged, think beyond individuals and join forces to address challenges that hamper them in achieving their goals.



X HEPM

Score cards to assess

production, environmental

and well-being changes

In Ethiopia:

- > Meat and milk production can be increased without increasing environmental impact from livestock.
- > Farmers understood why some policies exist while high level policy makers, who are aware of the policy targets, discovered why some policies do not work on the ground.

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The CLEANED-R code and tools for all countries are available via: https://github.com/ilri/CLEANED-R/ This project was funded by the SAIRLA program from DFID





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ILRI thanks all donors and organizations which globally support its work through their contributions to the CGIAR Trust Fund.