



Airbel Impact Lab
Research & Innovation at the IRC

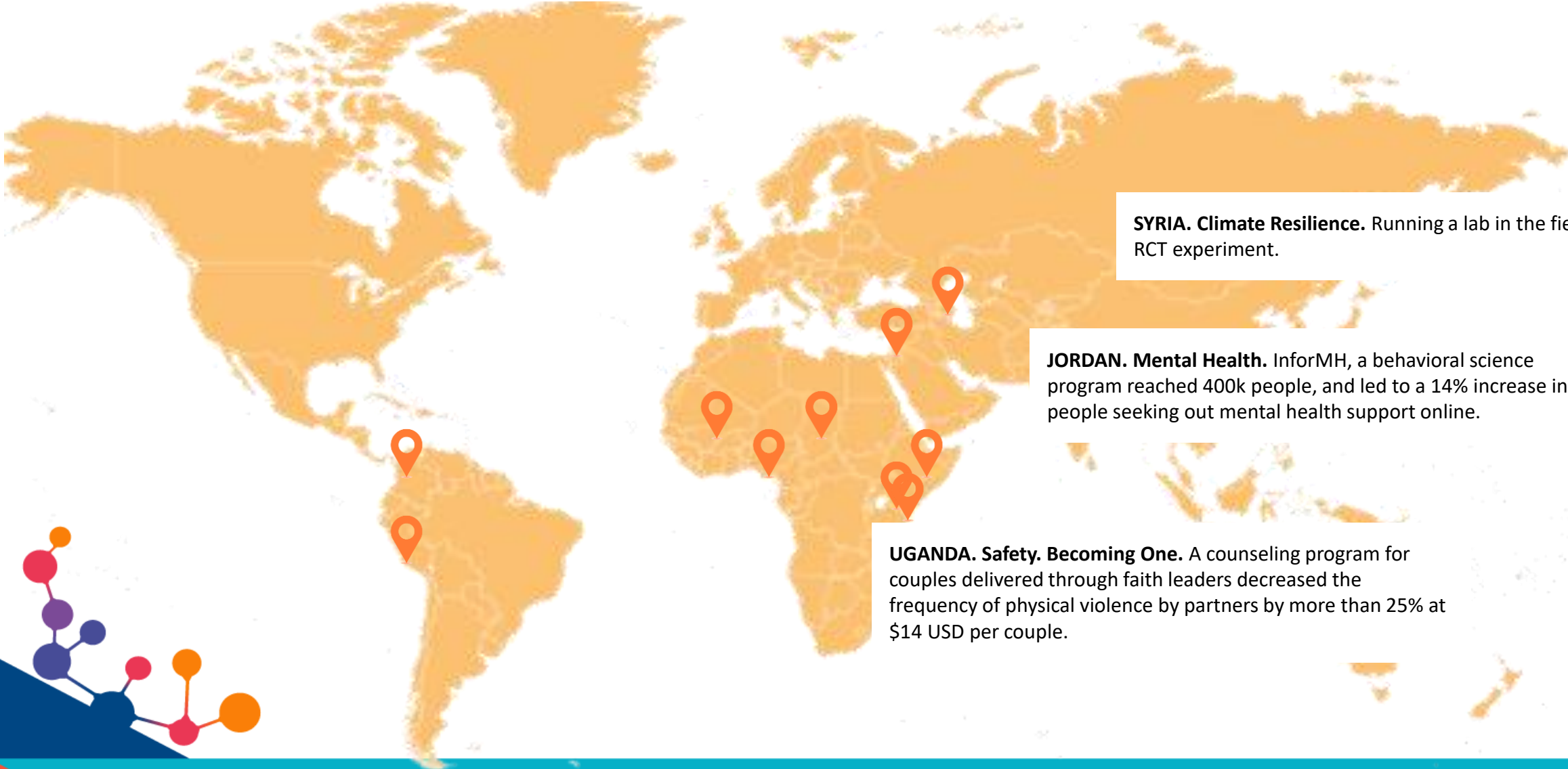
A simple behavioral toolkit for complex systems

Britt Titus & Marie Stege

In collaboration with
**Alexandra De Filippo &
Ruth Schmidt**



Over 25 behavioral science projects in 15 countries, on 4 continents



SYRIA. Climate Resilience. Running a lab in the field and RCT experiment.

JORDAN. Mental Health. InforMH, a behavioral science program reached 400k people, and led to a 14% increase in people seeking out mental health support online.

UGANDA. Safety. Becoming One. A counseling program for couples delivered through faith leaders decreased the frequency of physical violence by partners by more than 25% at \$14 USD per couple.

Standard approach to BI



Why a new approach to BI is needed

Challenges

BeSci is increasingly being used for more complex topics

- Limitations using BeSci due to
 - Solution already in mind
 - Specific target behaviors
 - Assumes problem is behavioral
 - Prioritising what's "measurable"

Approach

Solving this requires an interdisciplinary approach:

- Systems thinking
- Design thinking
- Futures thinking



Our approach to BI



Wicked Problem: The seed system in Pakistan



- Seed system suffers from **low quality seeds**, not suitable for the climate
- **In 2022, devastating flooding exacerbated the situation**
 - Need an intervention to ensure seed security



33 million people
affected by the
flood

Project's Aim



.... design a new solution
to respond to the
growing seed system
challenges in Pakistan



1) Define the problem systemically



AIM

We want:

To define problem and capture our assumptions about the system

We do not want:

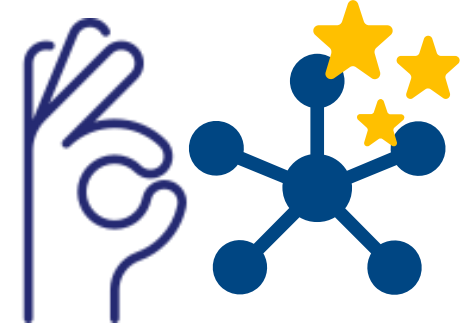
To fall into pitfall of narrowing too early on specific actor, behavior, or problem



1) Define the problem systemically



*What/who is
hindering this
ideal state?*



*What would an
ideal seed system
look like?*



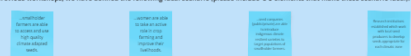
1) Define the problem systemically



Outcome Situational Analysis: Qualitative Brief

Team's Ideal State

From previous workshops, we have defined the following ideal scenario (please include 3-5 elements that make these scenario ideal):



Hypothesized Main Barriers

From previous workshops, we have identified the following as the main (behavioural & systemic) challenges blocking the ideal state:



ASSUMPTIONS TO BE VALIDATED in the qualitative research:

Additional Research Questions:

We hypothesize that these actors are important in the system:	We hypothesize that these are the main responsibilities of this actor in the system:	We hypothesize that, to fulfill these responsibilities, these actors depend on... (think of people and factors):	We hypothesize that these are the main issues for this actor in the system:	What else do we need to learn about?
Male smaleholder farmers	<ul style="list-style-type: none"> Seeking info about quality seeds and climate resilient practices Selection of seeds Production of seeds Promotion of seeds 	<ul style="list-style-type: none"> agro dealers; for inputs and info other farmers; role models, info and seeds seed producers; for inputs and info government; for subsidies and seed policies NGOs; for free seeds and info Extension workers; for info and inputs Seed certification; for labeling of seeds by producers and distributors Access to land 	<ul style="list-style-type: none"> Access to quality seeds Storage facilities Poor regulation of seed quality and labeling Decisions are made in Juba on behalf of the farmers There are not many agrodealers in outside of major towns Mistrust; new seed varieties by seed companies. Farmers trust the seeds of the neighbors that they see performing Access to finance for agri inputs <ul style="list-style-type: none"> Mistrust between farmers and microfinance associations (linked to illiteracy) Access to information and knowledge <ul style="list-style-type: none"> lack of extension services limited access to communication channels -> dependence on word of mouth. Only gov, NGO and some youth has access to internet and mobile phones No knowledge about seed storage Low literacy rates Lack of availability of quality seed use of and/ or use as a source of seed and some poor-quality from unknown sources as seed and use of grain as seed. Group dynamics/managing the group Capacity needs 	<ul style="list-style-type: none"> Do farmers rely on humanitarian aid to get access to seeds? Do farmers trust the inputs provided by NGOs? What motivates farmers? What habits are impacting agricultural practices and the decision of what crop to plant? What do farmers trust in terms of information? What is expanded of a farmer in the communities? Who do they rely on when a climate crisis hits like floods or severe droughts to when conflict affects the community? Are there informal rules and norms which may obligate households with kinship relationships to share with and support one another? What would help to farmers to cope and recover in the face of future shocks on seed system? Decision making around what to plant; ensuring inter-habitat practices (only store seed in the major staple crop; the last 2-3 years, long in more grass to floods; they searched to make production; quick changing time -> climate influence vs traditional practice) Persistence of expertise; resilience in drought/hardship terms vs long term behavioural change Strategies to cope with the risk of floods in drought
Farmer associations	<ul style="list-style-type: none"> provision of info about climate resilient practices/seeds Seed production Utilization of quality seed Advocacy Establishing market linkages 	<ul style="list-style-type: none"> Farmers; as members NGOs; help with advocacy, market linkages, info and quality inputs Seed producers; for inputs 	<ul style="list-style-type: none"> Lack of availability of quality seed use of and/ or use as a source of seed and some poor-quality from unknown sources as seed and use of grain as seed. Group dynamics/managing the group Capacity needs 	<ul style="list-style-type: none"> Challenges from their POV How do they communicate? Where do they meet? Where do they get information from?
Agro-dealers	<ul style="list-style-type: none"> Act as an outlet for seed to the market 	<ul style="list-style-type: none"> Seed producers; for inputs Seed companies; for inputs Transporters; distribution to market from private companies/gov/research institutions 	<ul style="list-style-type: none"> few buyers high taxes Lack of Transport Poor packaging, labeling, and high cost of seed. There are not many agrodealers in outside of major towns 	<ul style="list-style-type: none"> Where is the source of seed? Where do you register as an agro-dealer? What level of reputation of your store? Are the stores inspected from time to time? How do you handle expired seeds?
Agriculture extension workers (private and public)	<ul style="list-style-type: none"> Dissemination of information about quality seed and its importance Information provision about climate resilient practices 	<ul style="list-style-type: none"> Government; training, inputs, money NGO; free seeds, training, transport Private companies; money, info, inputs, training 	<ul style="list-style-type: none"> Low capacity of the extension workers and lack of mobility, many farmers to attend to. Gov do not support extension workers enough -> lack of incentives e.g. low pay and mobility 	<ul style="list-style-type: none"> How a typical engagement with farmers look like Challenges from their point of view Education level and training What is the area of coverage? Means of transport and facilitations. Incentives Extension kits like gumbab, raincoat etc.



LEARNINGS

Leveraged team's knowledge of local system to prepare for formative qual in an open way (not focusing on one actor or behavior)

Finding:

We assumed that access to finance, physical access to quality seeds and lack of knowledge are the main issues

2) Validate with qualitative work



AIM

Validate assumptions of the system with qualitative work including representatives from main stakeholders.

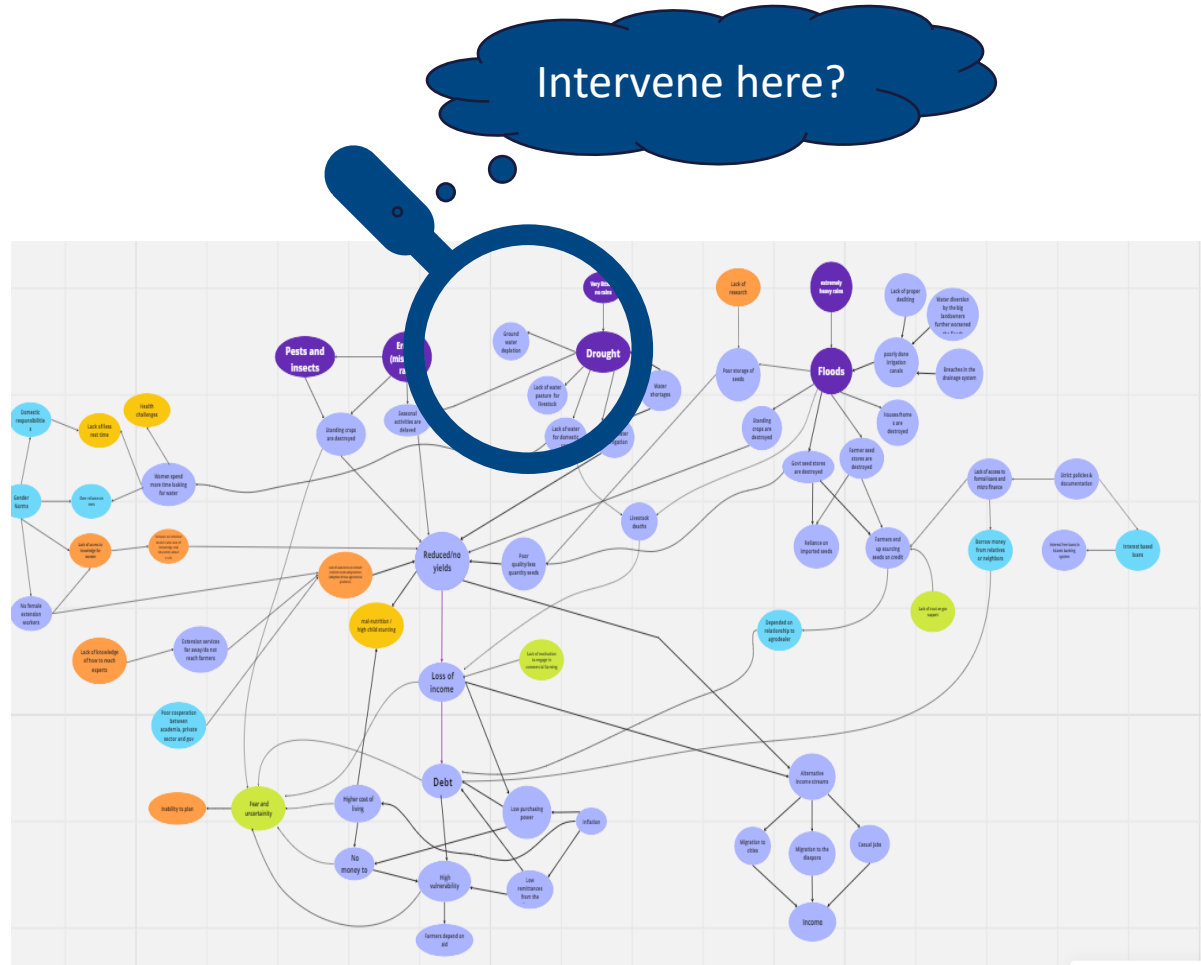


LEARNINGS

Identified what we missed in our own view of the system and helped define the problem in a different way.

Findings: E.g., Financial access was NOT confirmed as one of the main barriers

3) Identify leverage points for change



AIM

Identify the points within a complex system where a small shift in one thing can produce big changes in everything by using a **behavioral systems** approach.



LEARNINGS

Sometimes solving a bottleneck might appear to be influential BUT going to the root cause can be better lever for change.

Findings: E.g., Middlemen appeared to be important bottleneck BUT through the causal loop diagram, saw it would be more effective to go beyond them



6) Behavioral brief to inform ideation



AIM

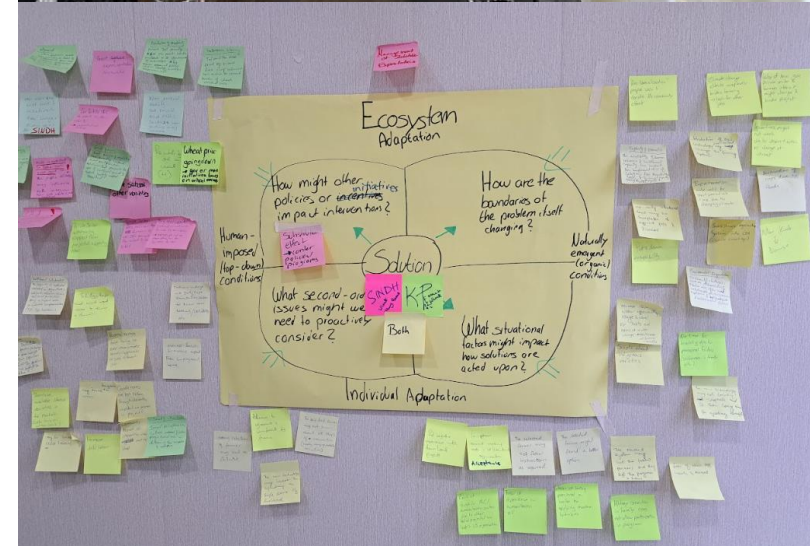
- Summarize prior analysis which enable us to
- (1) Ideate on better prioritized **leverage points** in system
 - (2) Create a different mindset where we consider multiple **actors** whose role is key for change



LEARNINGS

Critical tool to focus on what questions to ideate around

Findings: How might we encourage farmer experimentation with new climate resilient seed varieties?





Next steps for the toolkit:



Testing and iterating
different approaches for
defining the leverage
points in the system



Prototyping this
approach in Niger and
South Sudan



Publishing a tested toolkit in
the beginning of next year

Thank you so much!

Please contact us for any input or questions.

Britt Titus

Behavioral Insights Lead

britt.titus@rescue.org

New York, US

Marie Pauline Stege

Behavioral Insights Associate

marie.stege@rescue.org

London, UK



Airbel Impact Lab

Research & Innovation at the IRC

Why a new approach is needed



Challenges

BeSci is increasingly being used for more complex topics, but there are limitations due to starting with:

- Specific target behaviors & actors
- Solution already in mind
- Assuming problem is behavioral
- Prioritizing what's "measurable"

Approach

Solving this requires an interdisciplinary approach to BeSci, including:

- Systems thinking
- Design thinking
- Futures thinking