

Envisioning sustainability
through circularity

SEEDS Approach

Joel Onyango

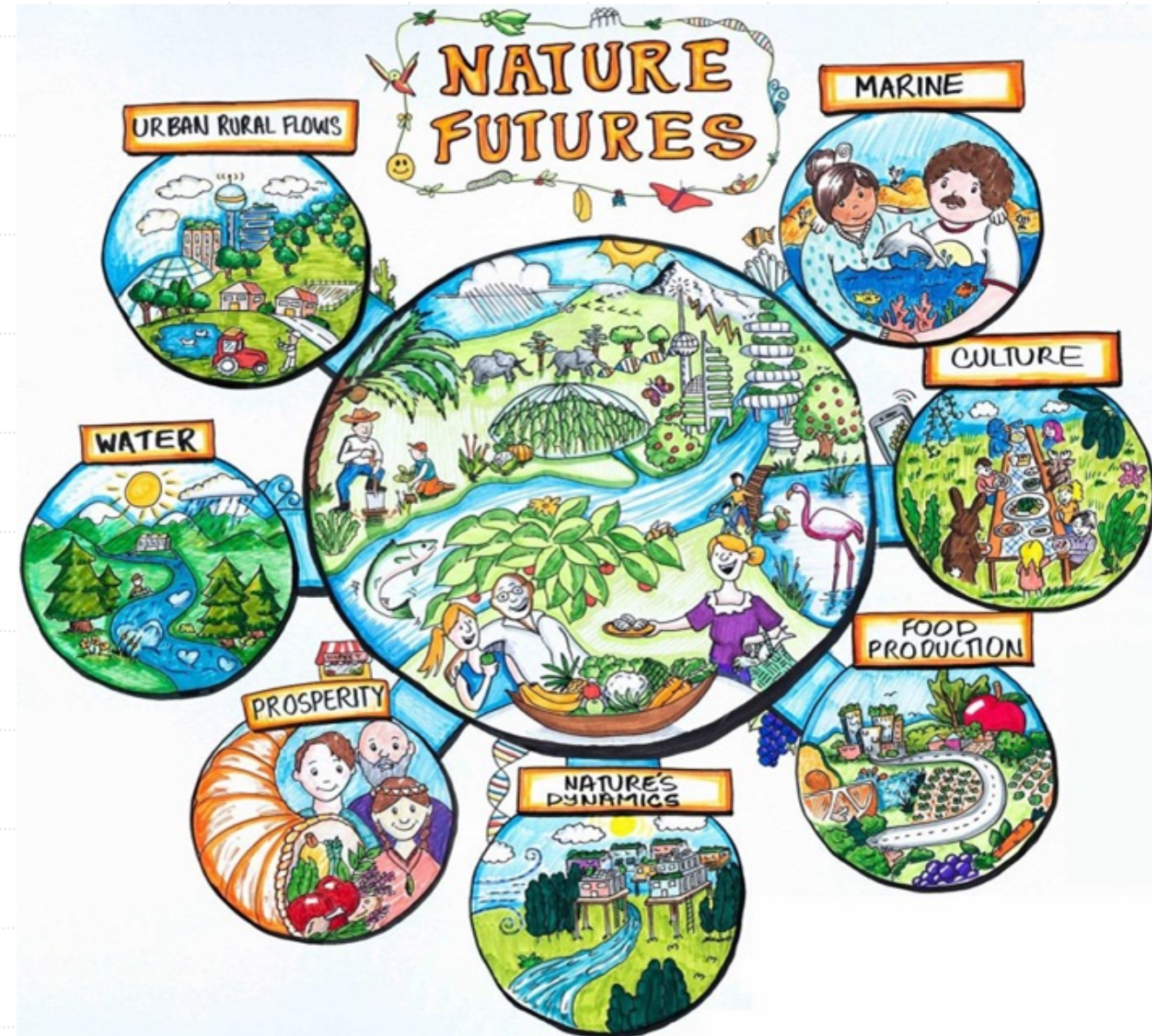
[ACTS]

Visioning

Qualitative Futures – the SEEDS approach

Seeding change by visioning good Anthropocene - Pereira et al 2019

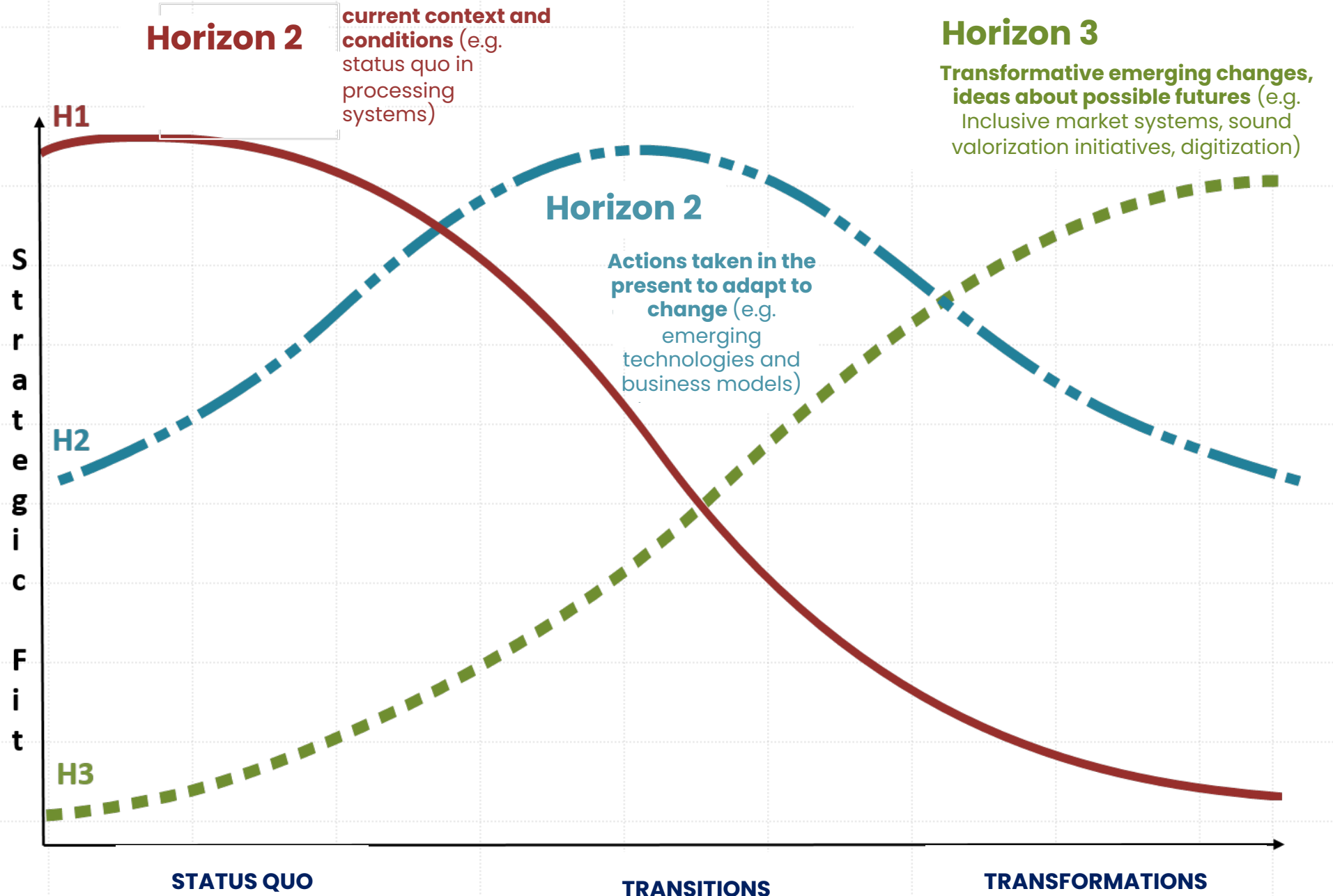
Participatory workshop



Visioning

Optimization
of the
actions and
futures

3H
workshop





Our session today, is for the **first step**...

Envisioning qualitative SEED futures of valorisation ...
sustainability through circularity

What is a **SEED**?

- Innovative initiatives, practices, and ideas that are present in the world today, but are not currently widespread or dominant



What would you consider a SEED?



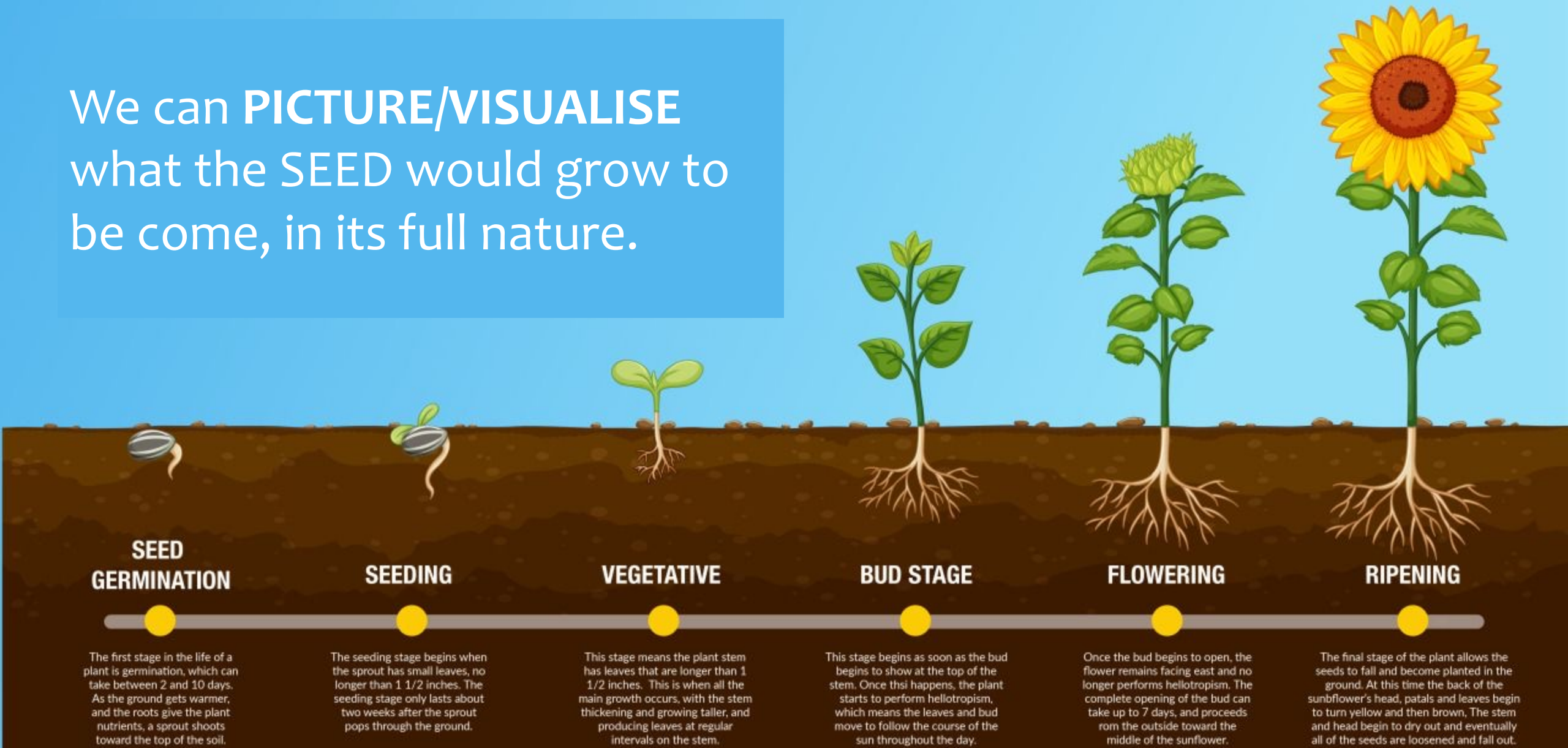
Menti.com



Use Code: 1491 7233

Based on the seeds identified, what would you picture them to be, when that are all **grown and ready** for harvesting?

We can **PICTURE/VISUALISE** what the **SEED** would grow to be come, in its full nature.



SEED GERMINATION

The first stage in the life of a plant is germination, which can take between 2 and 10 days. As the ground gets warmer, and the roots give the plant nutrients, a sprout shoots toward the top of the soil.

SEEDING

The seeding stage begins when the sprout has small leaves, no longer than 1 1/2 inches. The seeding stage only lasts about two weeks after the sprout pops through the ground.

VEGETATIVE

This stage means the plant stem has leaves that are longer than 1 1/2 inches. This is when all the main growth occurs, with the stem thickening and growing taller, and producing leaves at regular intervals on the stem.

BUD STAGE

This stage begins as soon as the bud begins to show at the top of the stem. Once this happens, the plant starts to perform heliotropism, which means the leaves and bud move to follow the course of the sun throughout the day.

FLOWERING

Once the bud begins to open, the flower remains facing east and no longer performs heliotropism. The complete opening of the bud can take up to 7 days, and proceeds from the outside toward the middle of the sunflower.

RIPENING

The final stage of the plant allows the seeds to fall and become planted in the ground. At this time the back of the sunflower's head, petals and leaves begin to turn yellow and then brown. The stem and head begin to dry out and eventually all of the seeds are loosened and fall out.

For more info please write to info@friendofthesea.org



or check www.friendofthesea.org


For more info please write to info@friendoftheearth.org



or check www.friendoftheearth.org



Climate Resilient Economies Programme

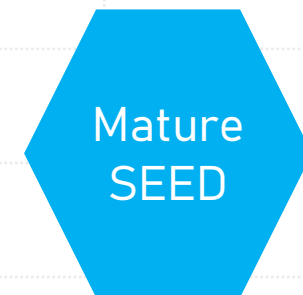


This **visualization** is the center of our envisioning **session** today..

1. Define the mature SEED **in 2050**.

Statement: *A Kenya where all processors embrace circularity in their supply chain and their production systems.*

Vision: *A circular dairy sector*
[BLUE]



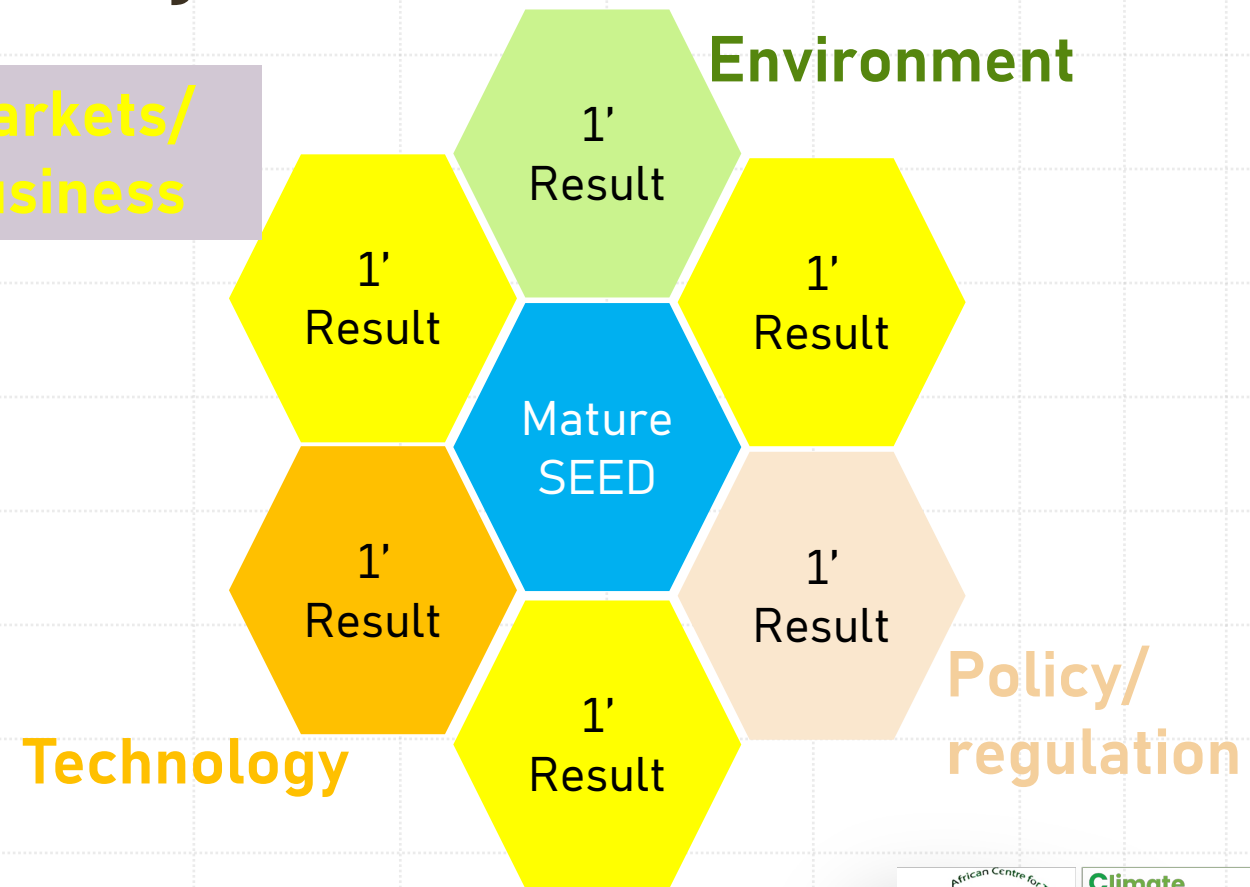
This **visualization** is the center of our envisioning **session** today..

2. Discuss and highlight the possible **future PRIMARY** results of that **Mature SEED**

Possible Primary Future Result:

0% waste produced in dairy processing

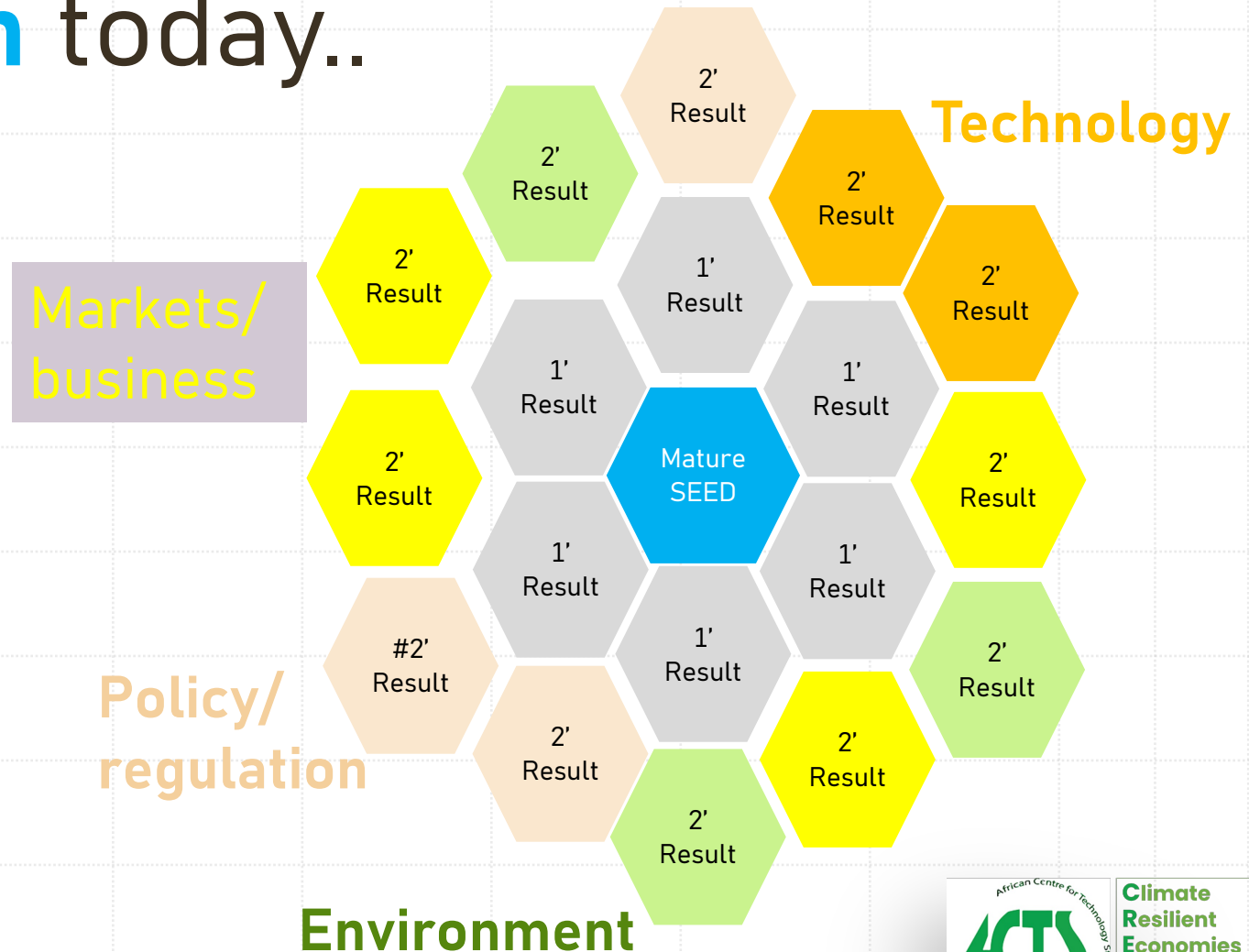
**Markets/
business**



This **visualization** is the center of our envisioning **session** today..

3. Discuss and highlight the possible **IMPLICATIONS** of the results of the **Mature SEED**

Possible Implication:
10% increase in revenue for the processors who adopt circularity



This **visualization** is the center of our envisioning **session** today..

4. Are there any **relationships/ commonalities** between/ among the results/ implications across SEEDS wheels?





Action Planning

Identify one action, to support achieving the mature seed: [3 mins]

- a) That we need to stop doing
- b) Continue doing
- c) Start doing

SEEDS considered for Valorisation



SEED 1: WHEY FOR
ANIMAL **FEEDS**



SEED 2: WHEY FOR
HUMAN FOOD AS
POWDER



SEED 3: WHEY FOR
HUMAN FOOD AS A
DRINK



SEED 4: WHEY FOR
PHARMACEUTICAL



Plenary

- After the group discussions, each group spokesperson will have **5 mins** to share the key highlights from the discussions.