



# Theory of Change using Results webs

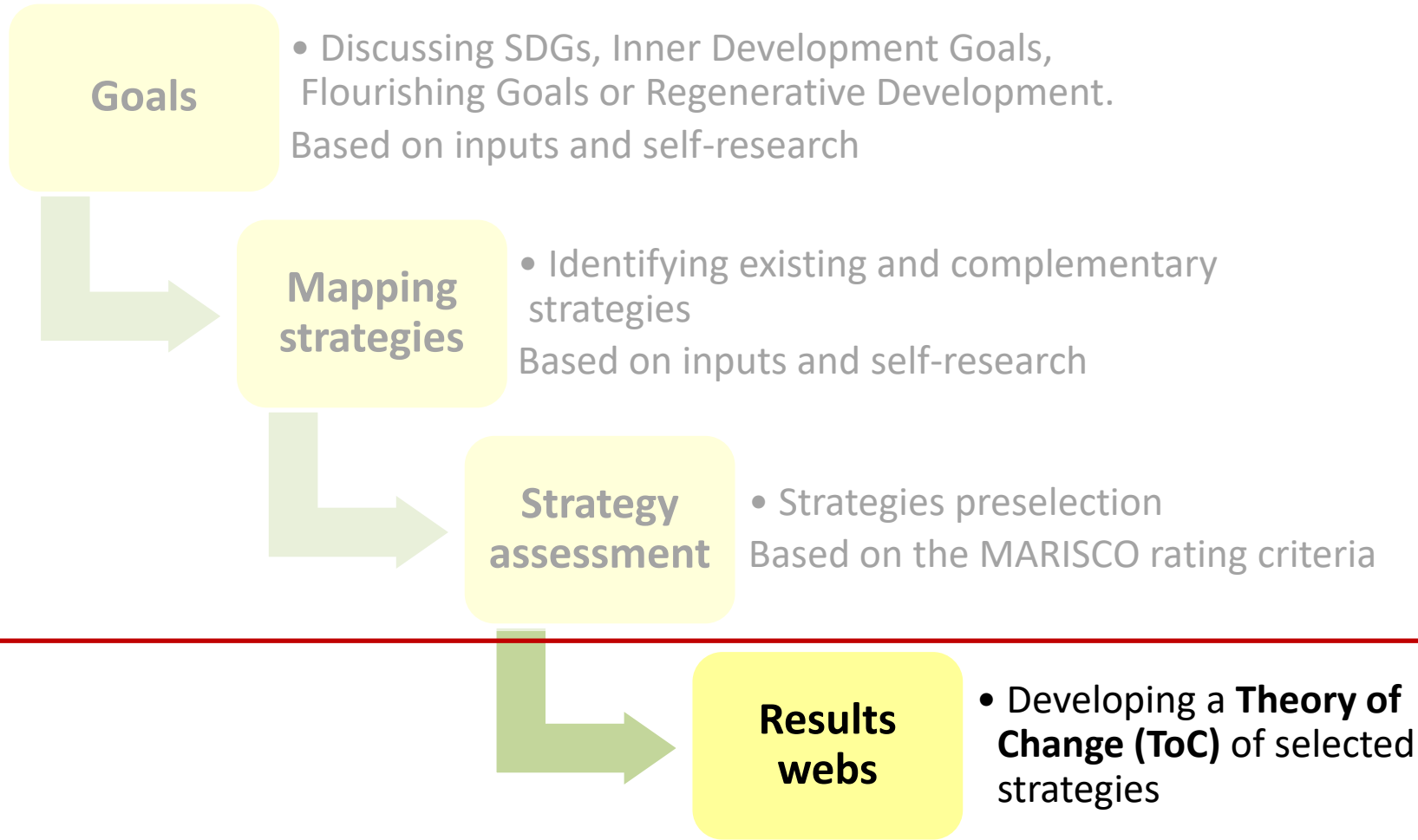
## Module: Strategies for change and transformation

Study program  
Global Change Management (M.Sc.) – 2<sup>nd</sup> Term

*Luzmila Rosales Richard*  
Eberswalde April 04, 2025

# Road map

## When?



Throughout the module

- March 19 & March 21 (draft)
- From April 7 to April 9 (final)
- From March 21 to April 4
- From March 26 to April 7
- From April 4 to April 9

# Outline and learning goals

## I. Theory of Change (ToC)

**Guiding questions:** What is ToC? How is it used?

**Learning goal:** To understand the concept and purpose of Theories of Change

## II. Results webs (MARISCO tool)

**Guiding questions:** What is “results webs”? How to develop one?

**Learning goal:** To understand how to develop a Theory of Change using results webs

# I. Theory of Change (ToC)

**What is a ToC?  
How is it applied?**

# Theory of Change (ToC)

## Definitions

- A model of a change process that includes **mental representations** and **theoretical assumptions**. It explains and describes **how** and **why** activities of an initiative (e.g., projects, programmes, organizations) are expected to lead or contribute to a **process of change**.

(Belcher et al. 2020; Oberlack et al. 2019)

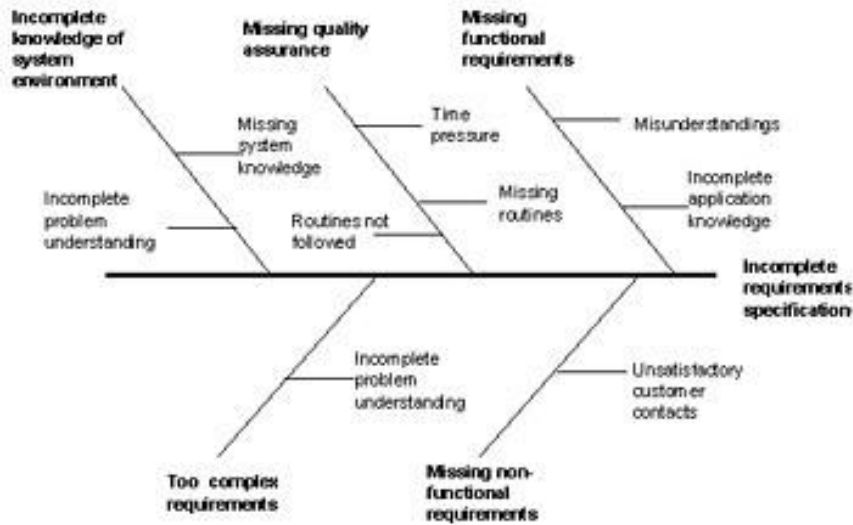
- A series of causally linked **assumptions** about how a team thinks its actions will help it achieve both **intermediate results and longer-term** conservation and human wellbeing **goals**. It describes how a team **believes or assumes the strategies will act** on indirect threats and opportunities, reduce direct threats, and achieve goals for the conservation of targets.

(Conservation Standards, 2020)

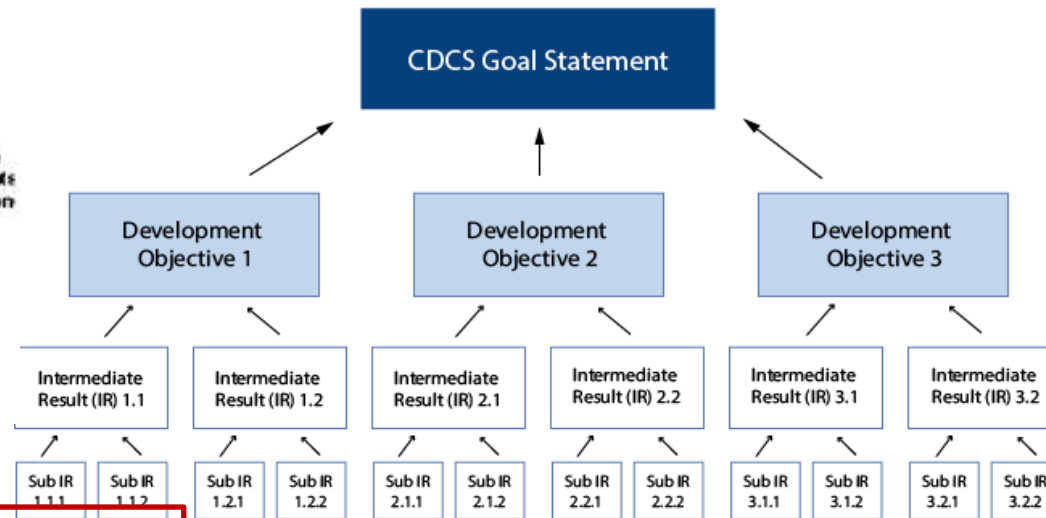
# Theory of Change (ToC)

Alternative ways to represent a ToC

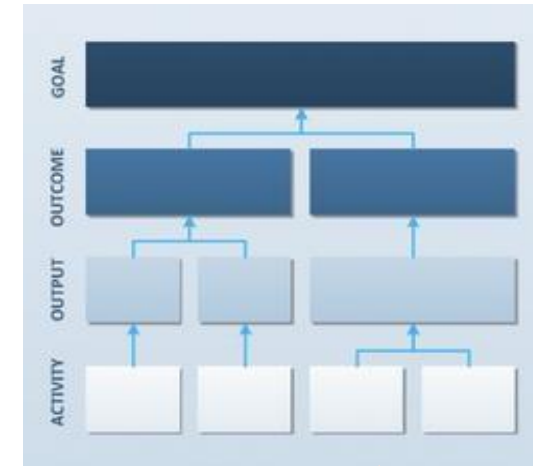
Fishbone diagram



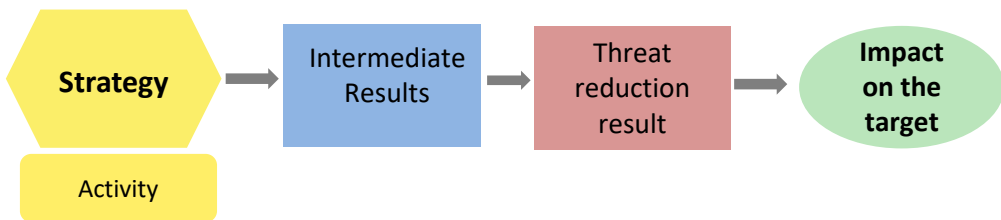
Logframe (Logical Frameworks)



Results Framework



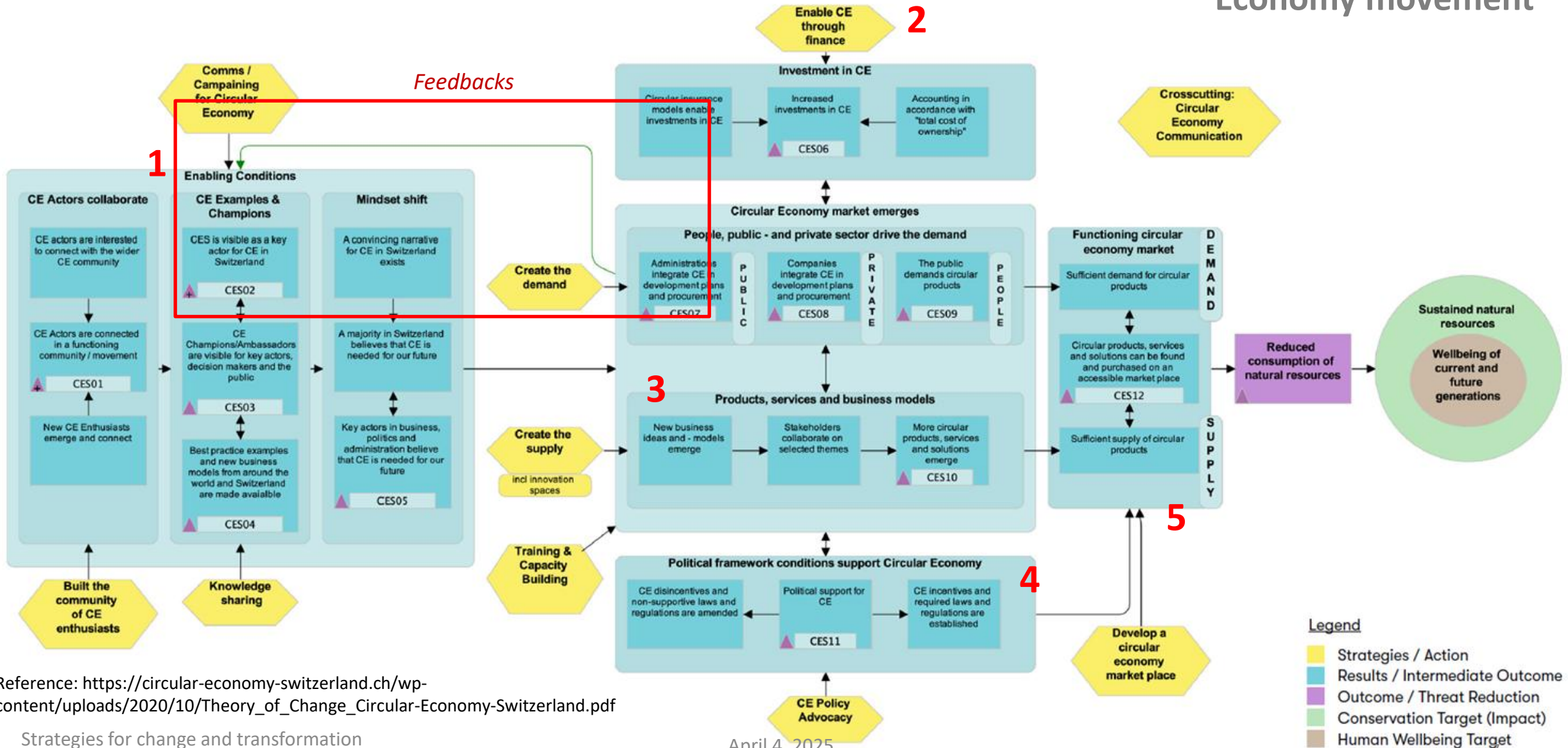
Results chains/webs



A methodology mainly used for designing, monitoring, and evaluating international development projects.

# How is the ToC applied?

## Theory of Change for Swiss Circular Economy movement

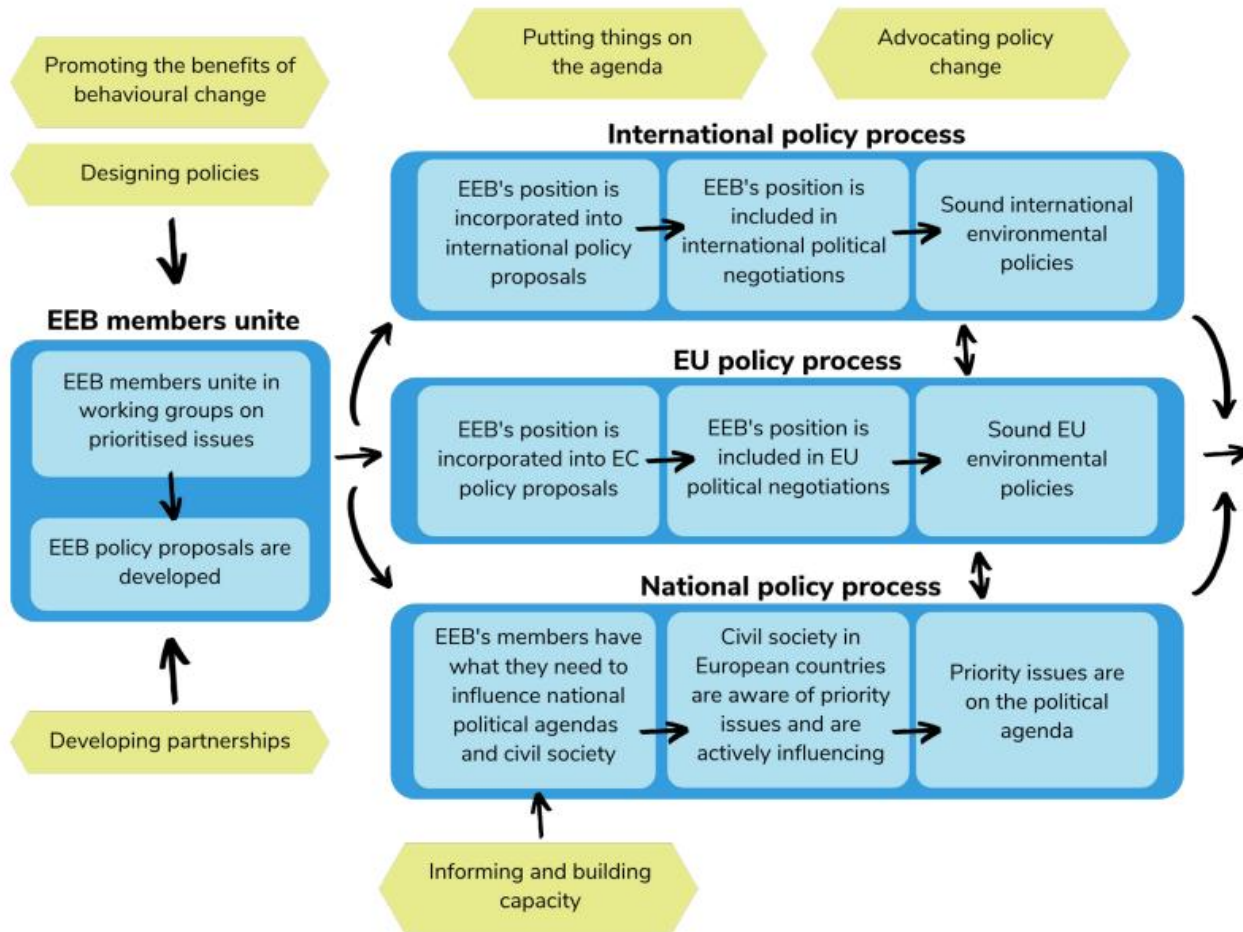


Reference: [https://circular-economy-switzerland.ch/wp-content/uploads/2020/10/Theory\\_of\\_Change\\_Circular-Economy-Switzerland.pdf](https://circular-economy-switzerland.ch/wp-content/uploads/2020/10/Theory_of_Change_Circular-Economy-Switzerland.pdf)

### Legend

- Strategies / Action
- Results / Intermediate Outcome
- Outcome / Threat Reduction
- Conservation Target (Impact)
- Human Wellbeing Target

# How is the ToC applied?



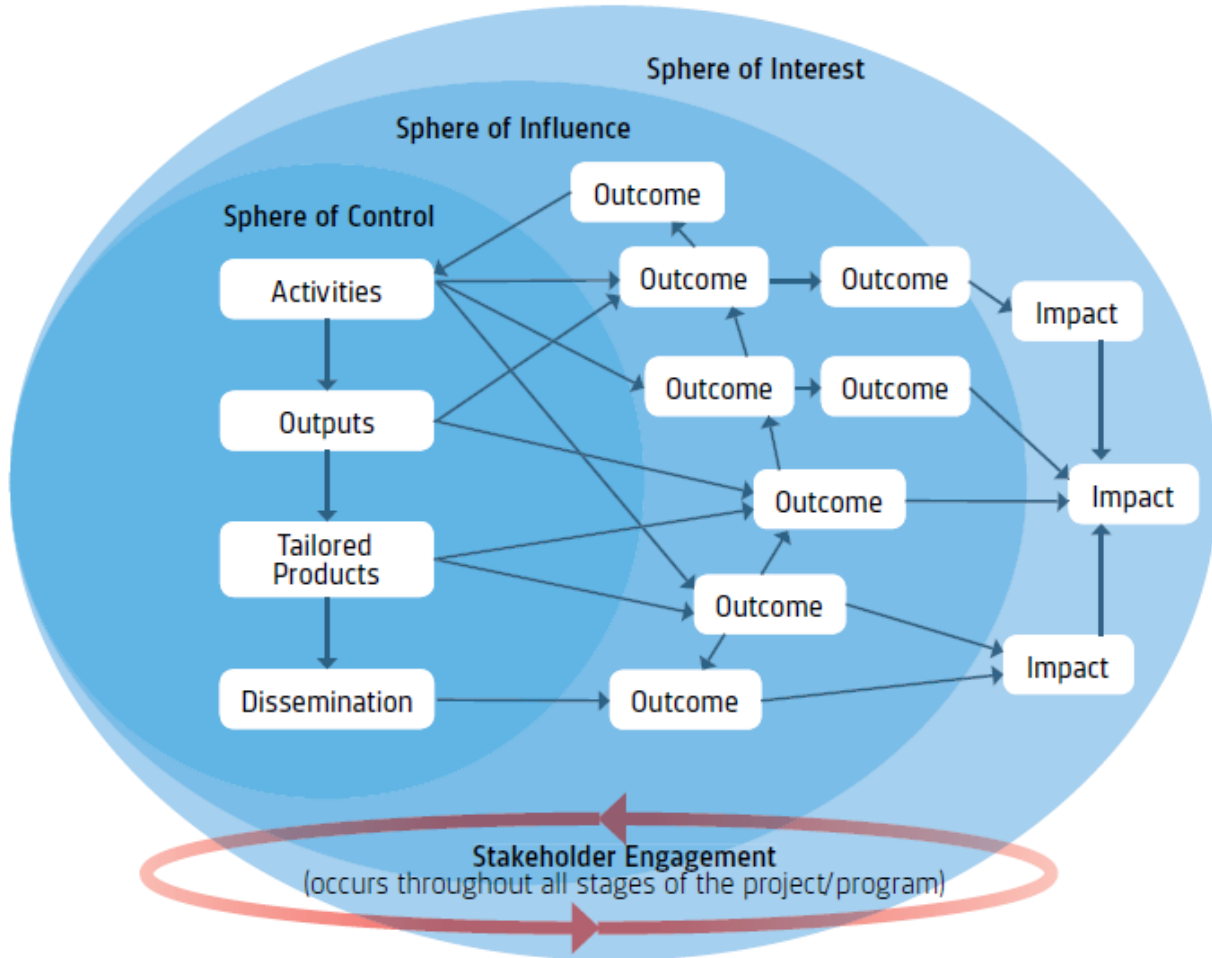
## Theory of Change for EEB Strategy transition to a climate neutral economy

Reference: European Environmental Bureau: Our Long-Term Strategy 2020-2030  
<https://eeb.org/wp-content/uploads/2021/02/EEB-Long-Term-Strategy-2020-2030-hi-res2.pdf>



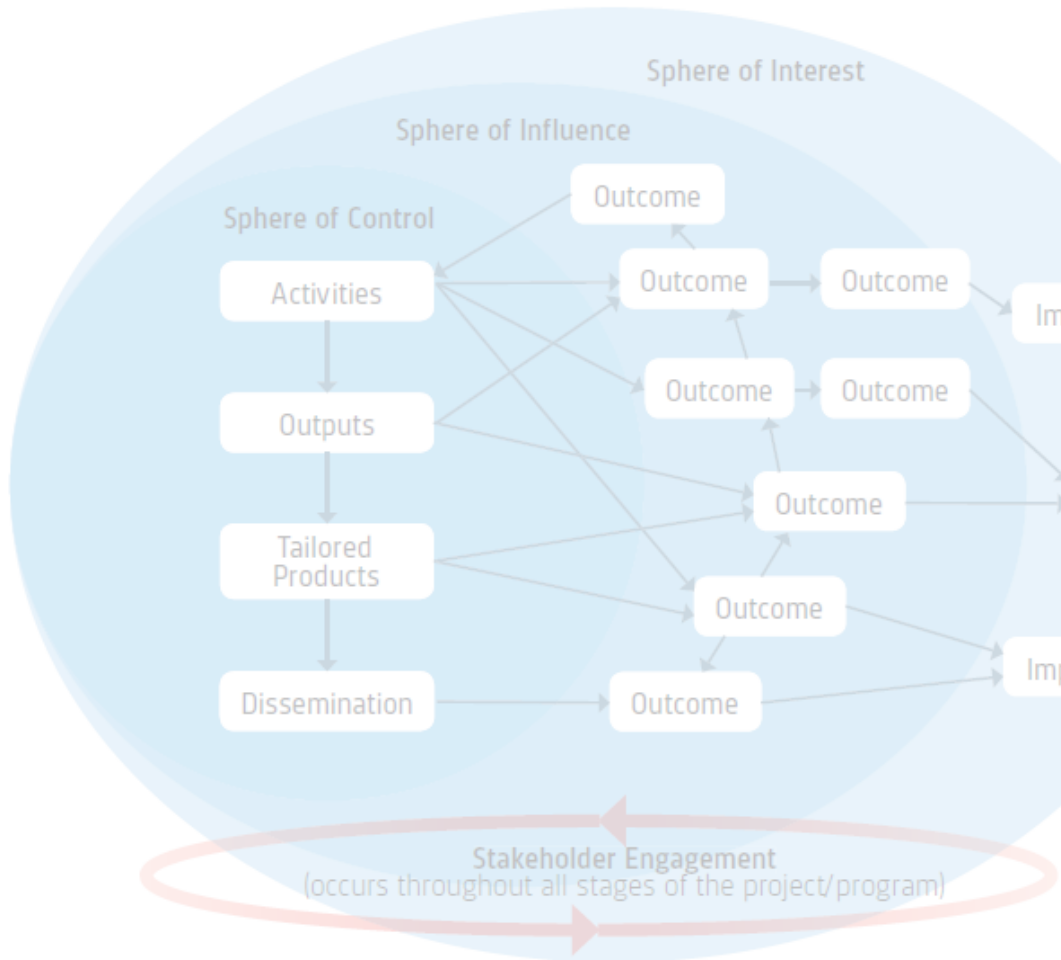
# How is the ToC applied?

Strategic research programs



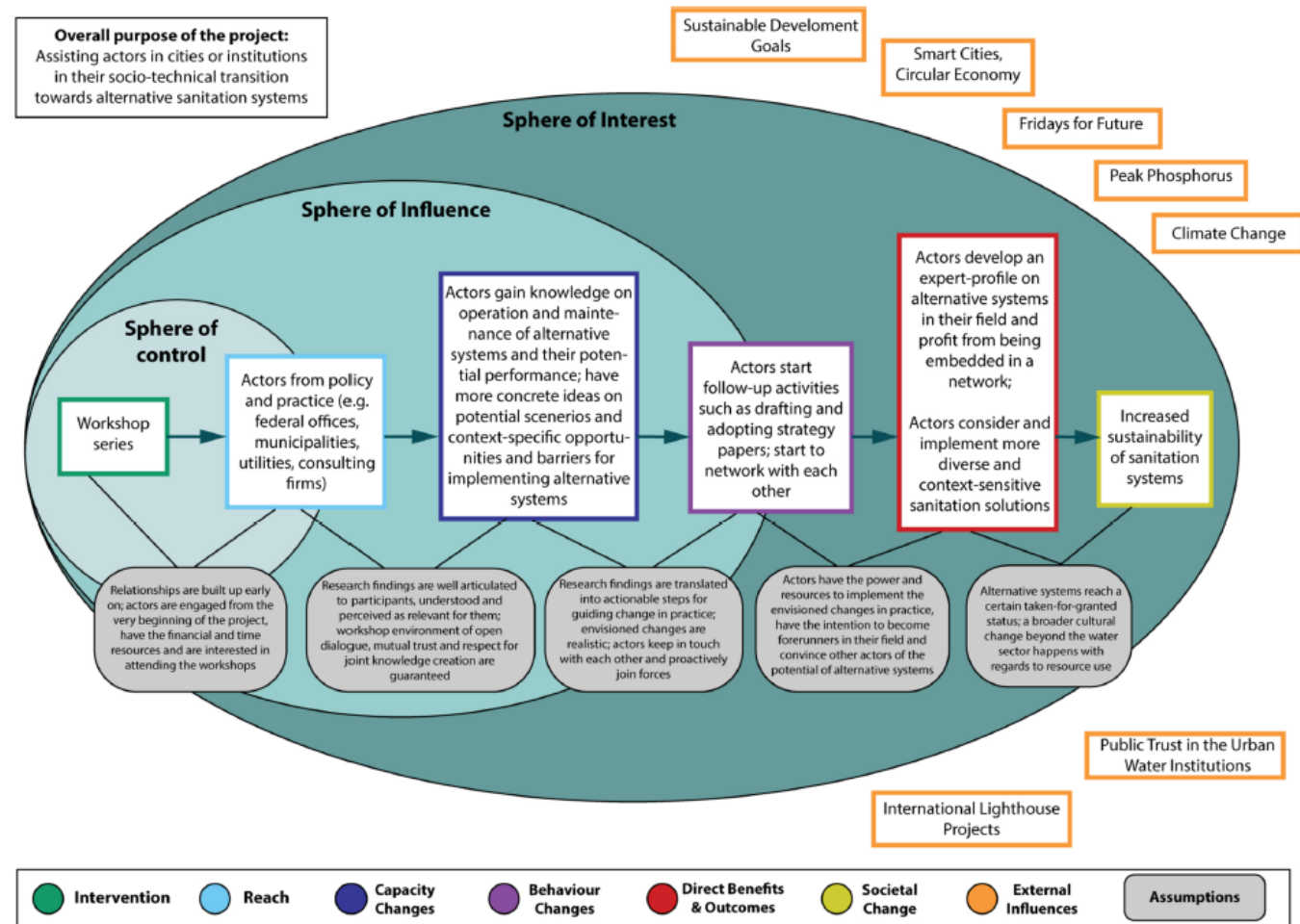
(Belcher et al. 2020)

# How is the ToC applied?



(Belcher et al. 2020)

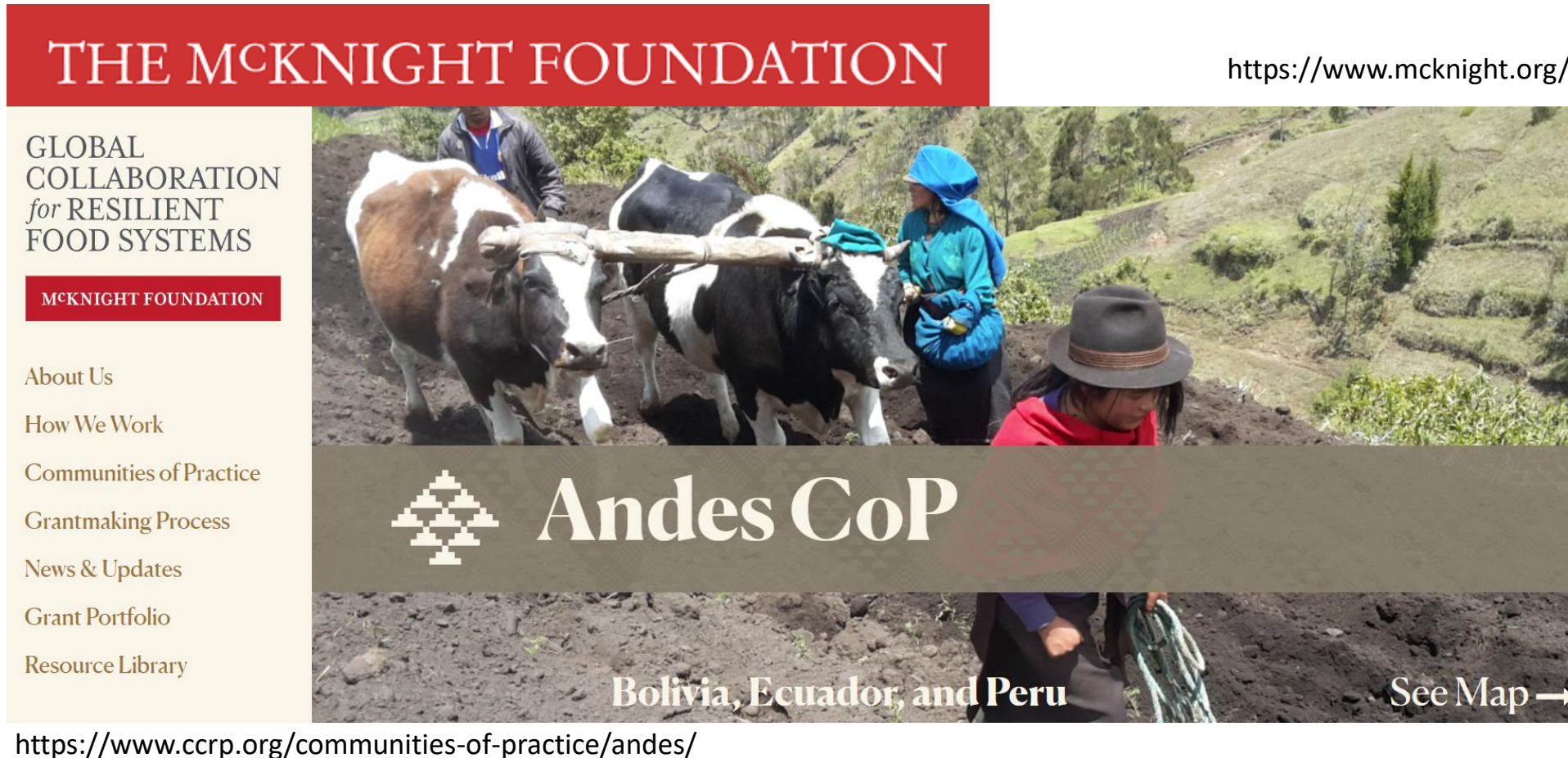
# Strategic research programs



(Deutsch et al. 2021)

# How is the ToC applied?

## Alternative trends in International Cooperation




**THE MCKNIGHT FOUNDATION**

<https://www.mcknight.org/>

GLOBAL COLLABORATION  
*for* RESILIENT  
FOOD SYSTEMS

MCKNIGHT FOUNDATION

- About Us
- How We Work
- Communities of Practice
- Grantmaking Process
- News & Updates
- Grant Portfolio
- Resource Library

 **Andes CoP**

**Bolivia, Ecuador, and Peru** [See Map →](#)

<https://www.ccrp.org/communities-of-practice/andes/>

# How is the ToC applied?

THE MCKNIGHT FOUNDATION

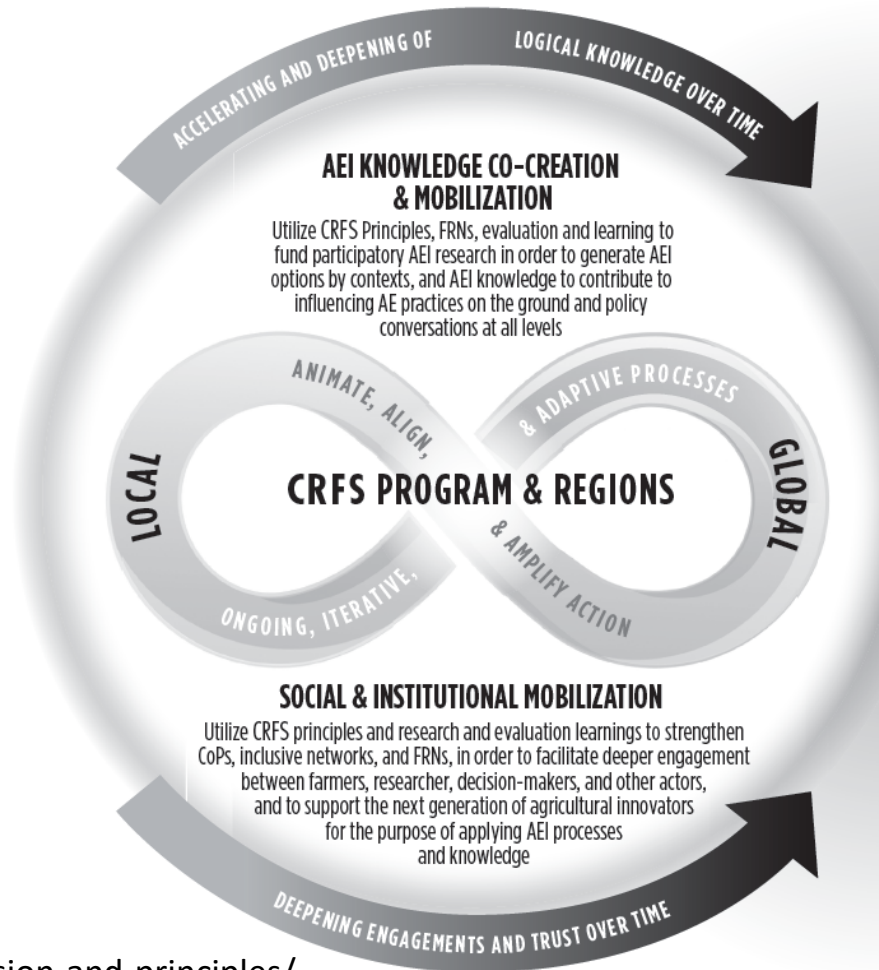
## CRFS PATHWAYS TO TRANSFORMATION

### UNSUSTAINABLE AND/OR INEFFECTIVE AGRICULTURE

**RESEARCH & DEVELOPMENT SYSTEMS**  
 Siloed, discipline-based research  
 Blanket silver-bullet solutions  
 Key focus on productivity through external inputs  
 Hierarchical power relations

**FOOD & AGRICULTURE SYSTEMS**  
 Policies/markets favor large farmers  
 Industrialized farming  
 Soil degradation  
 Low productivity  
 Contributes to and at risk from climate change

**SMALL HOLDER FARMING COMMUNITIES**  
 Food insecurity  
 Malnutrition  
 Economic insecurity  
 Lack of access to research  
 Inequality: gender, age, class, ethnicity etc.  
 Aging population, migration, rural decline



For international programs

### CONTEXTUALIZED SCALING OF AGROECOLOGICAL SYSTEMS

**RESEARCH & DEVELOPMENT SYSTEMS**  
 Collaborative, trans-disciplinary  
 Responsive to heterogeneity  
 Horizontal power relationships  
 R4D and D4R

**FOOD & AGRICULTURE SYSTEMS**  
 Resilient  
 Integrated  
 Multi-functional  
 Improved soil health  
 Sustainable farming  
 Increased crop productivity  
 Adapts to and mitigates climate change  
 Provides ecosystem services

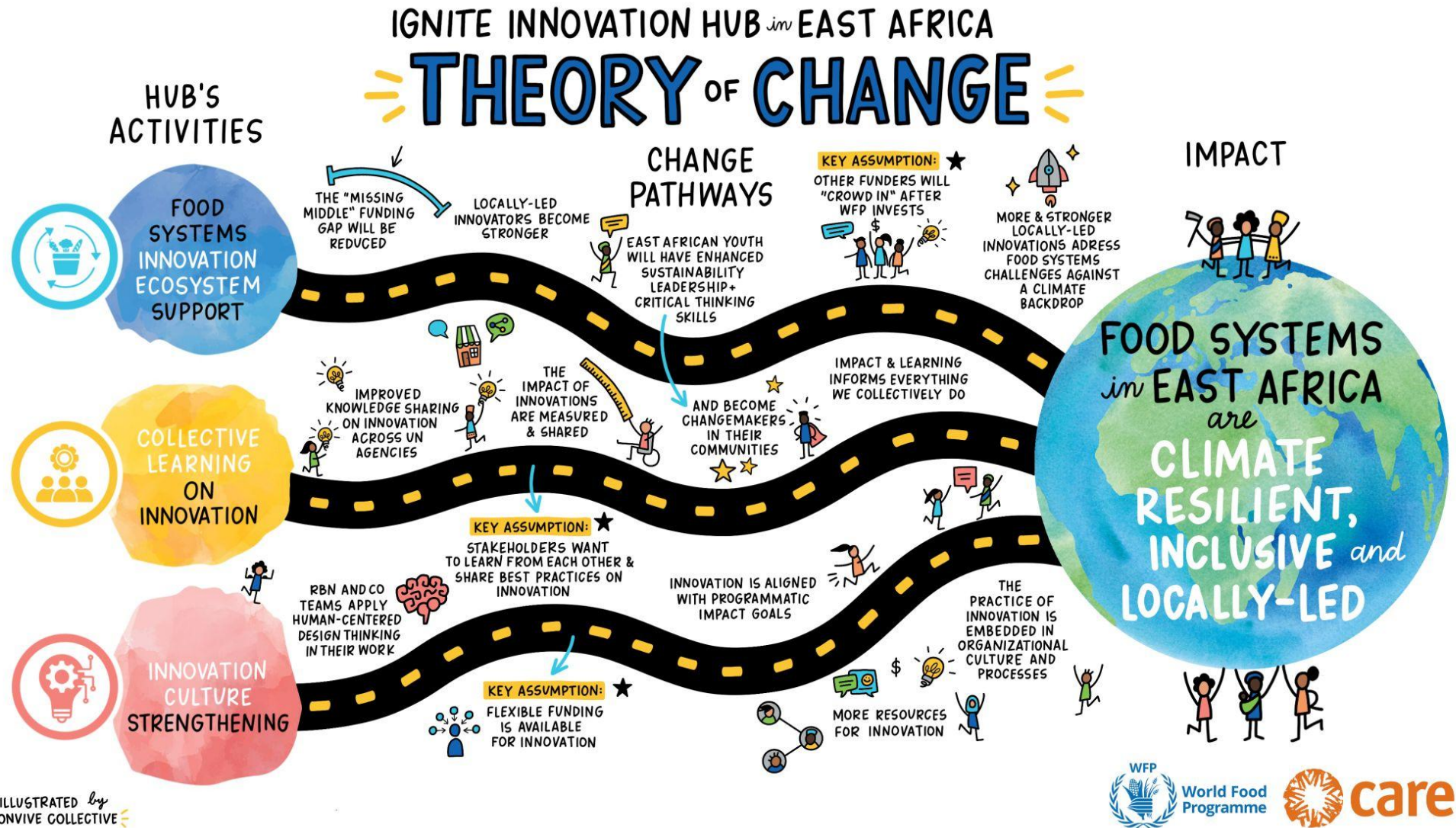
**SMALL HOLDER FARMING COMMUNITIES**  
 Food security  
 Improved nutrition  
 Access to research  
 Secure livelihoods  
 Equity  
 Rural vibrancy

**CRFS:**  
 Collaboration  
 for Resilient  
 Food Systems

<https://www.ccrp.org/about-us/vision-mission-and-principles/>

# How is the ToC applied?

For international programs



# Why develop a ToC?

- To support knowledge (co) production processes
- To understand how and why change can happen
- To foster interdisciplinarity/transdisciplinarity
- To support Adaptive Management:
  - Creating a shared vision, including different perspectives
  - Planning effective interventions
  - Monitoring and evaluation
  - Reflecting, learning, and sharing



Question by KonKapp from NounProject.com

**However, it requires resources and open-mindedness among stakeholders**

(Belcher et al. 2020; Oberlack et al. 2019)

## II. Results webs (MARISCO tool)

What is “results webs”?  
How to develop one?

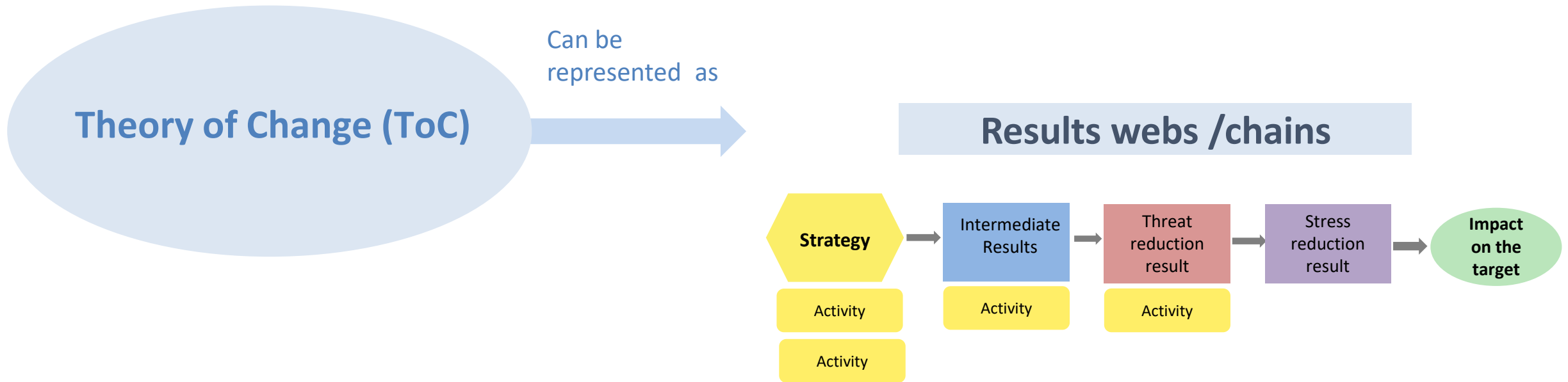
# MARISCO 2.0

**REMEMBER**





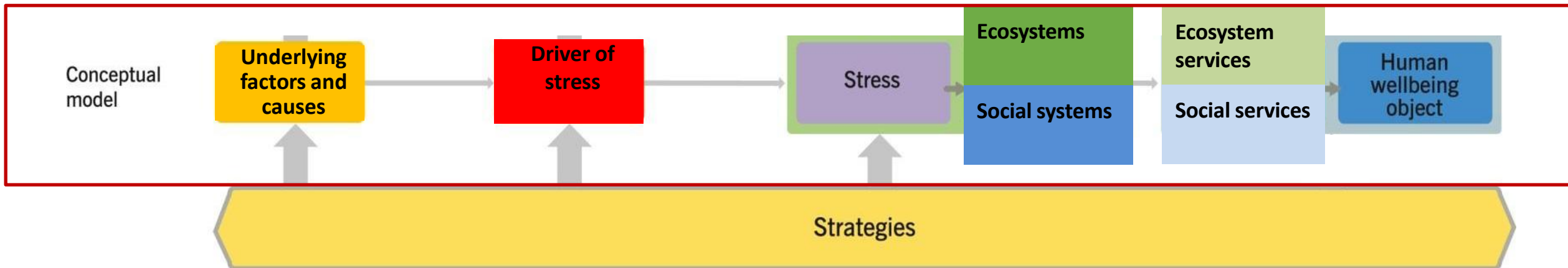
# Results webs or results chains



# Results webs (MARISCO tool)

A chain of change that contains our **core assumptions** about how a strategy will help to maintain, improve, or restore a target system.

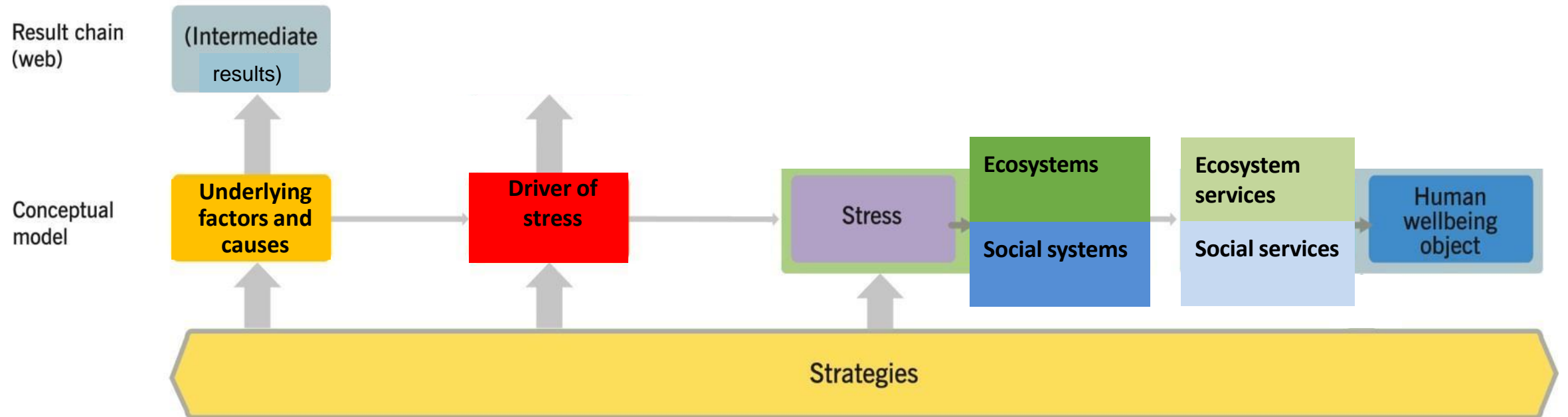
## How to develop them?



# Results webs (MARISCO tool)

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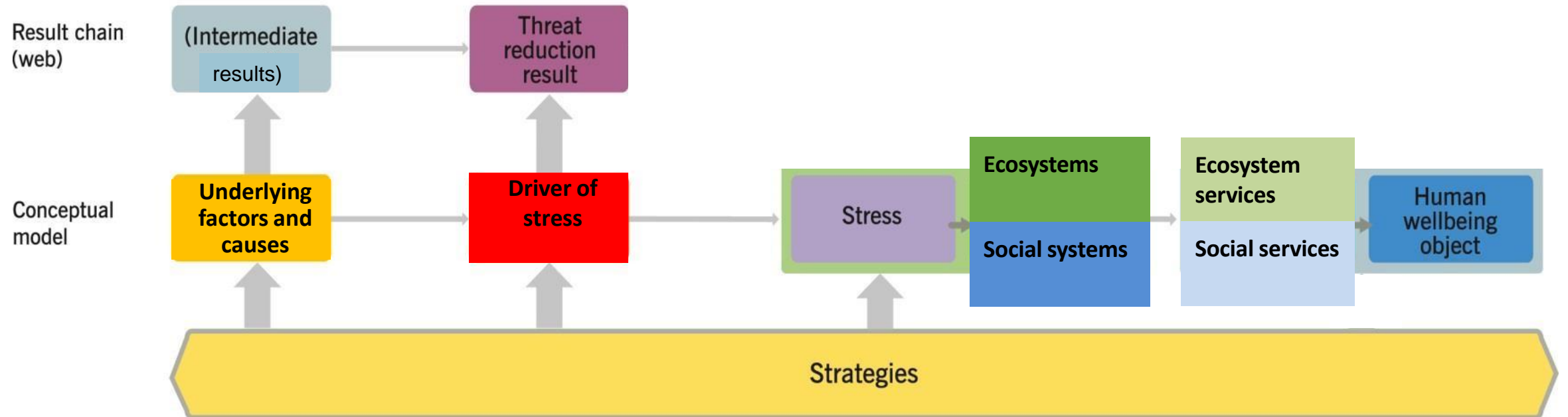
## How to develop them?



# Results webs (MARISCO tool)

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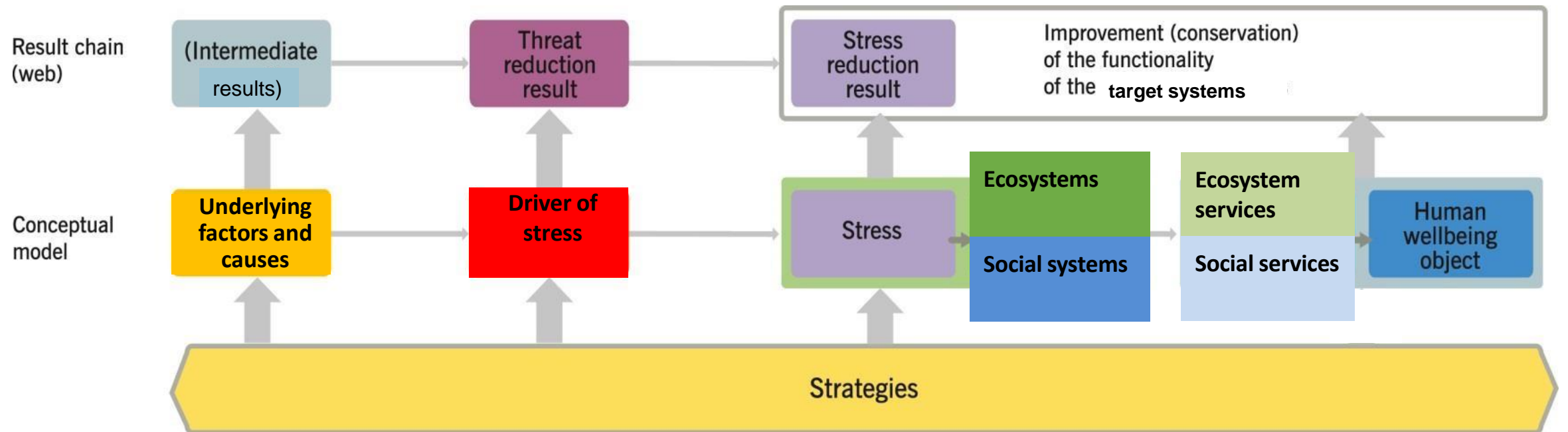
## How to develop them?



# Results webs (MARISCO tool)

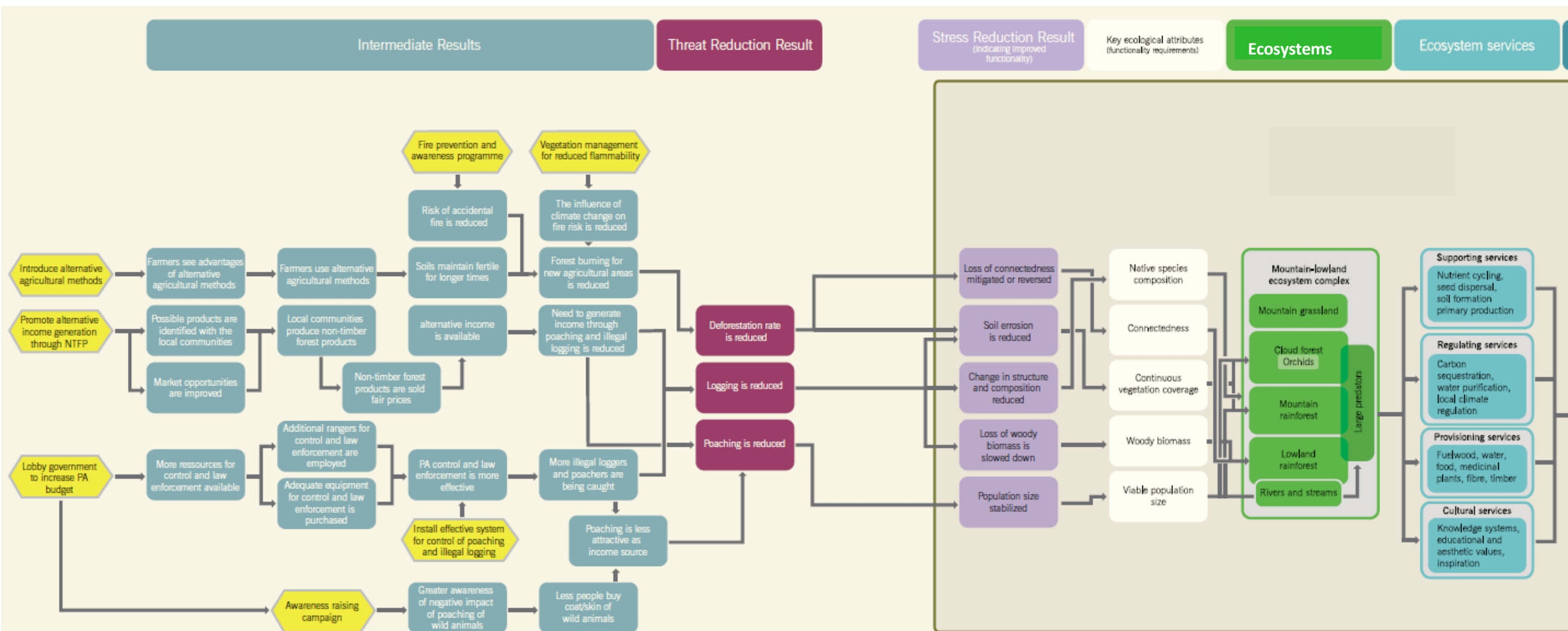
A chain of change that contains our **core assumptions** about how a strategy will help to maintain, improve, or restore a target system.

## How to develop them?

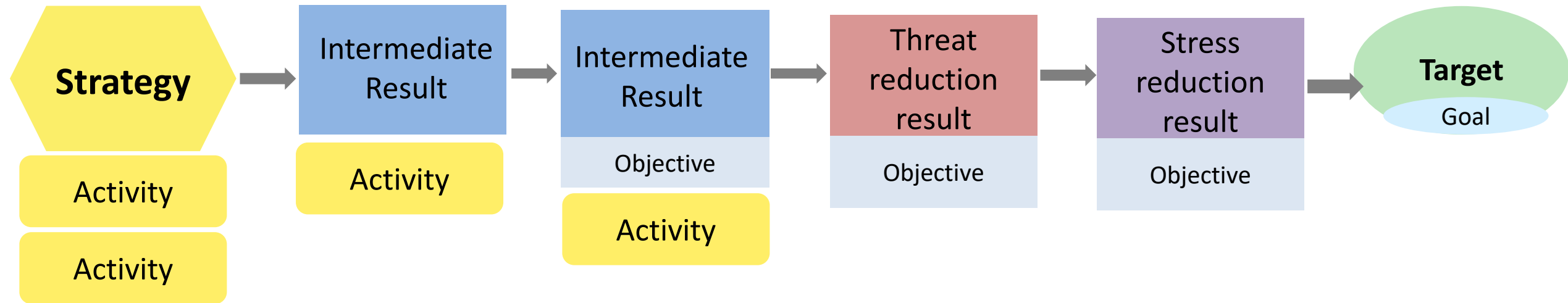


# Results webs – MARISCO tool

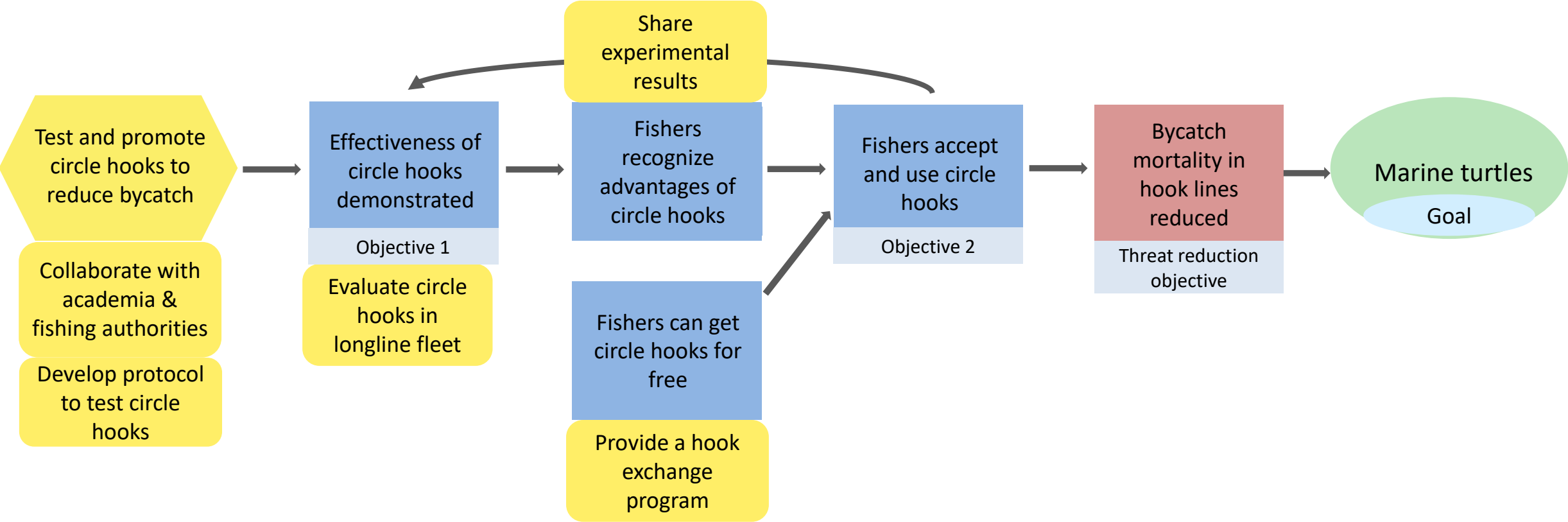
# MARISCONIA: Results web based on the conceptual model



# Elements of a Results webs



# Example of a ToC using results webs (simplified version)



Based on a slide from the module Adaptive Ecosystem Management 2022



# Goal

A formal statement detailing a strategy's desired impact, such as **the desired future status of a target**.

*What do we want our Target(s) to look like?*

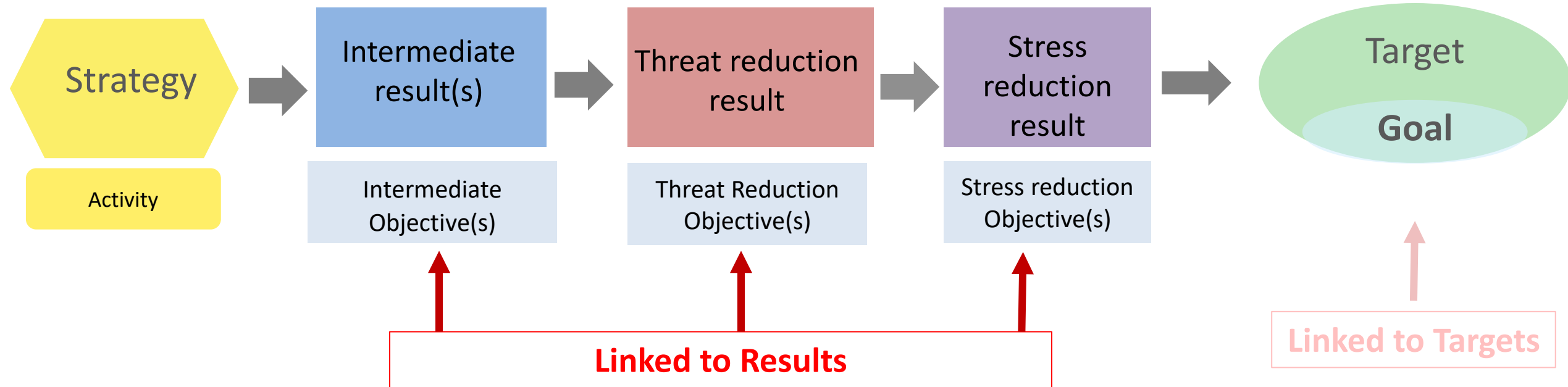


*Based on a slide from the module Adaptive Ecosystem Management 2022*

# Objectives

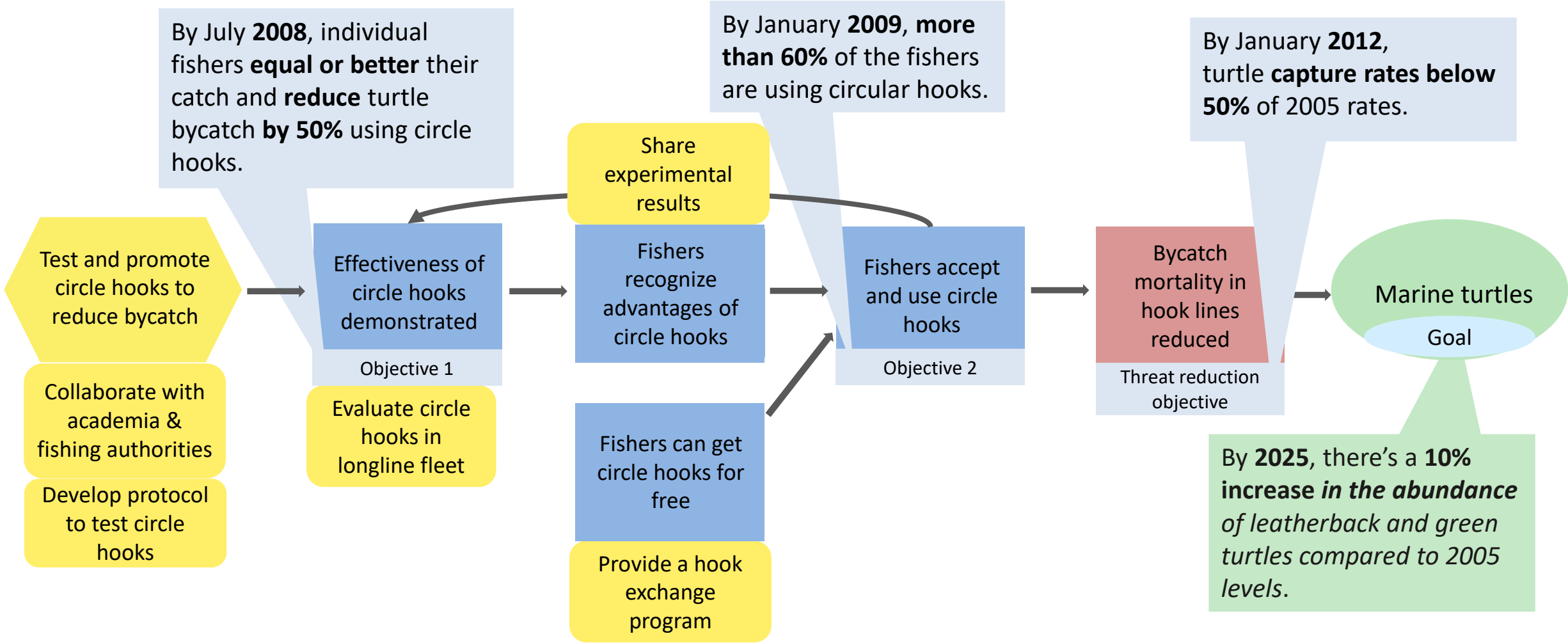
Formal statements of the **different types of results** that you believe are necessary to attain your goals.

*What do we need to accomplish along the way?*



Based on a slide from the module Adaptive Ecosystem Management 2022

# Example of a ToC using results webs (simplified version)



Based on a slide from the module Adaptive Ecosystem Management 2022

# Indicadores

A **measure** for a specific information need such as

- the status of a target,
- change in a threat or
- progress toward an objective.

## Objective 1:

By July **2008**, individual fishers **equal or better** their catch and **reduce** turtle bycatch **by 50%** using circle hooks.

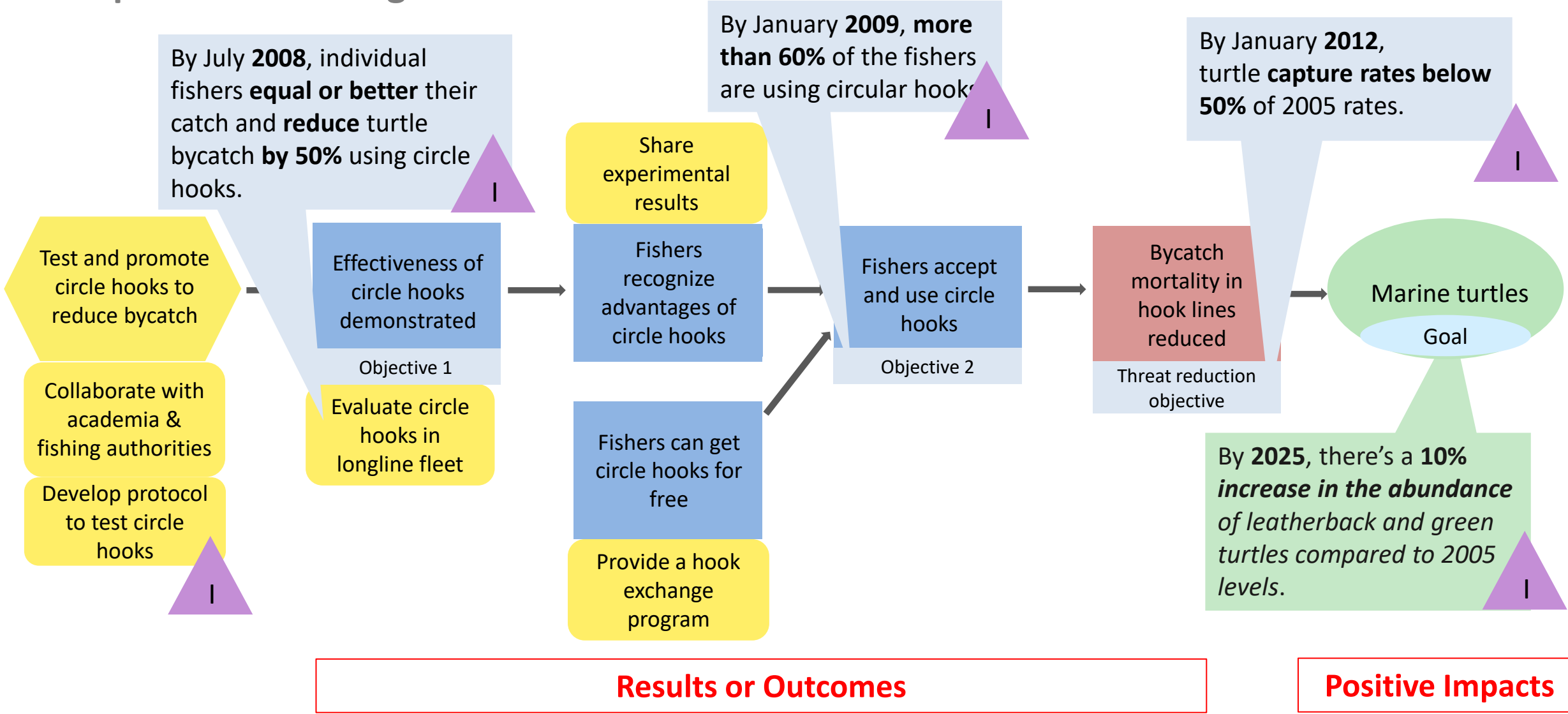
## Indicator

Fishing days, catch rates, weights for the different commercial species

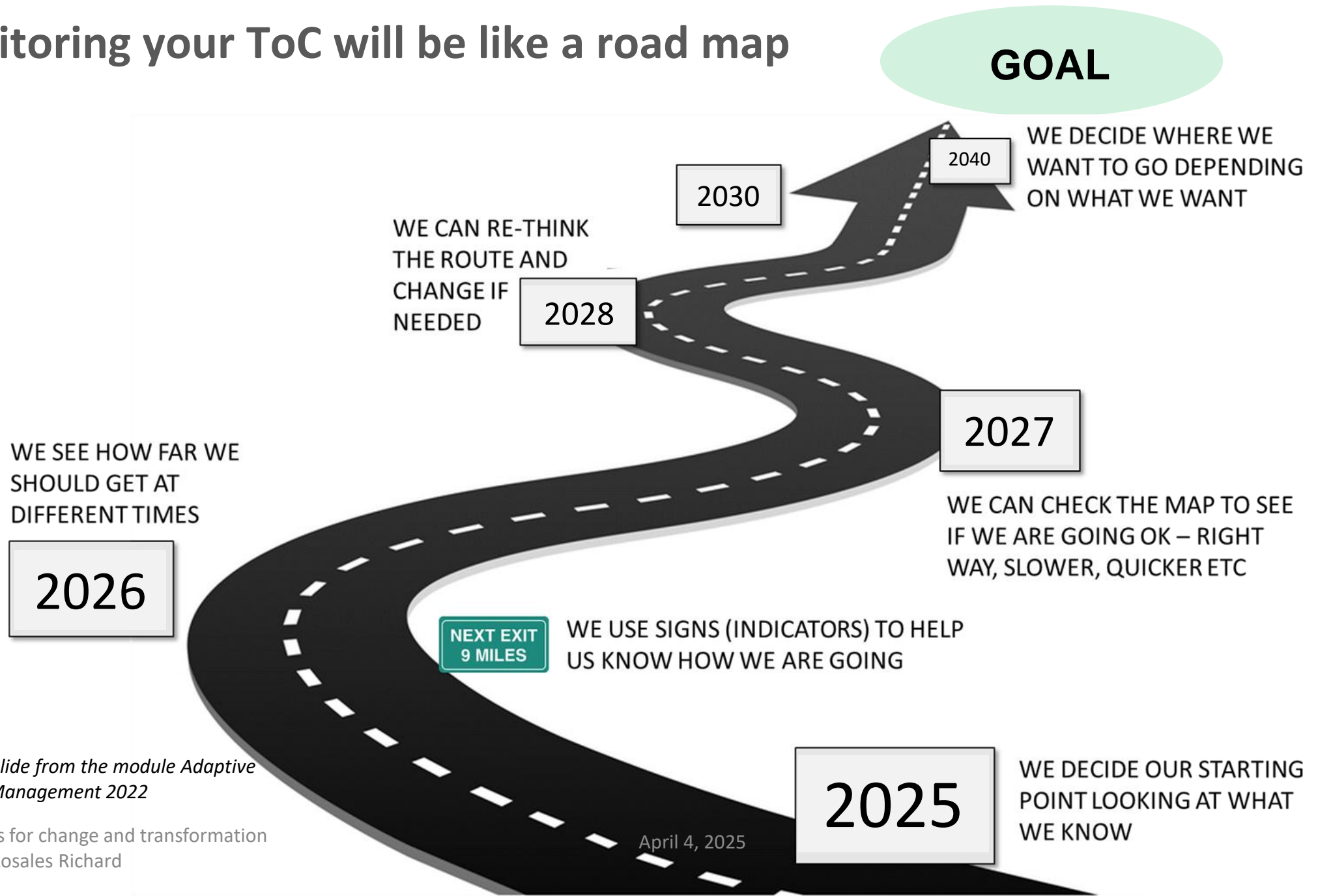
Number & type of turtles, the hook type used, location of the hooks in the captured turtles.

*Based on a slide from the module Adaptive Ecosystem Management 2022*

# Example of a ToC using results webs



# Monitoring your ToC will be like a road map



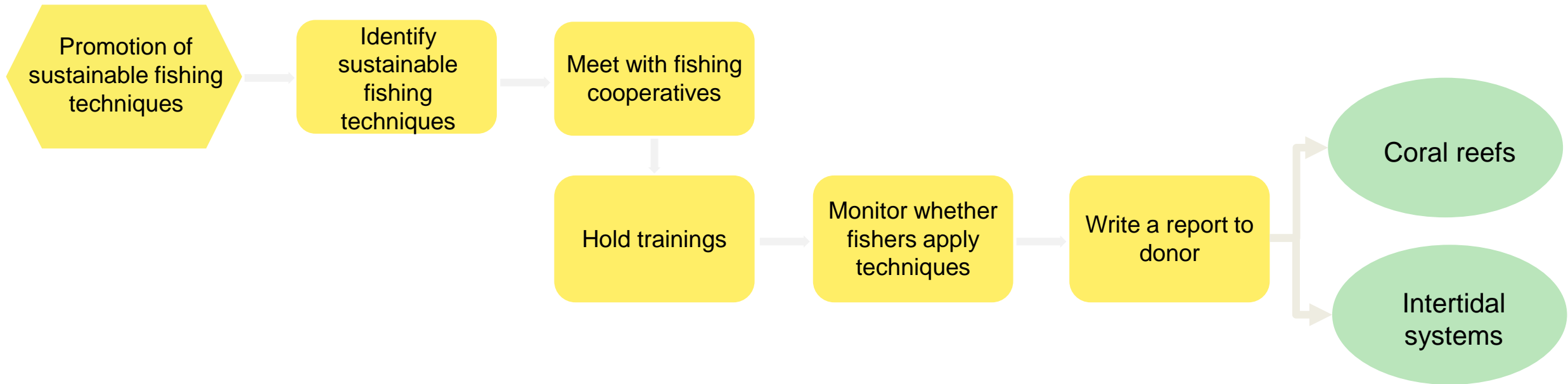
Based on a slide from the module Adaptive Ecosystem Management 2022



Question by KonKapp from NounProject.com

# Is this a result chain?

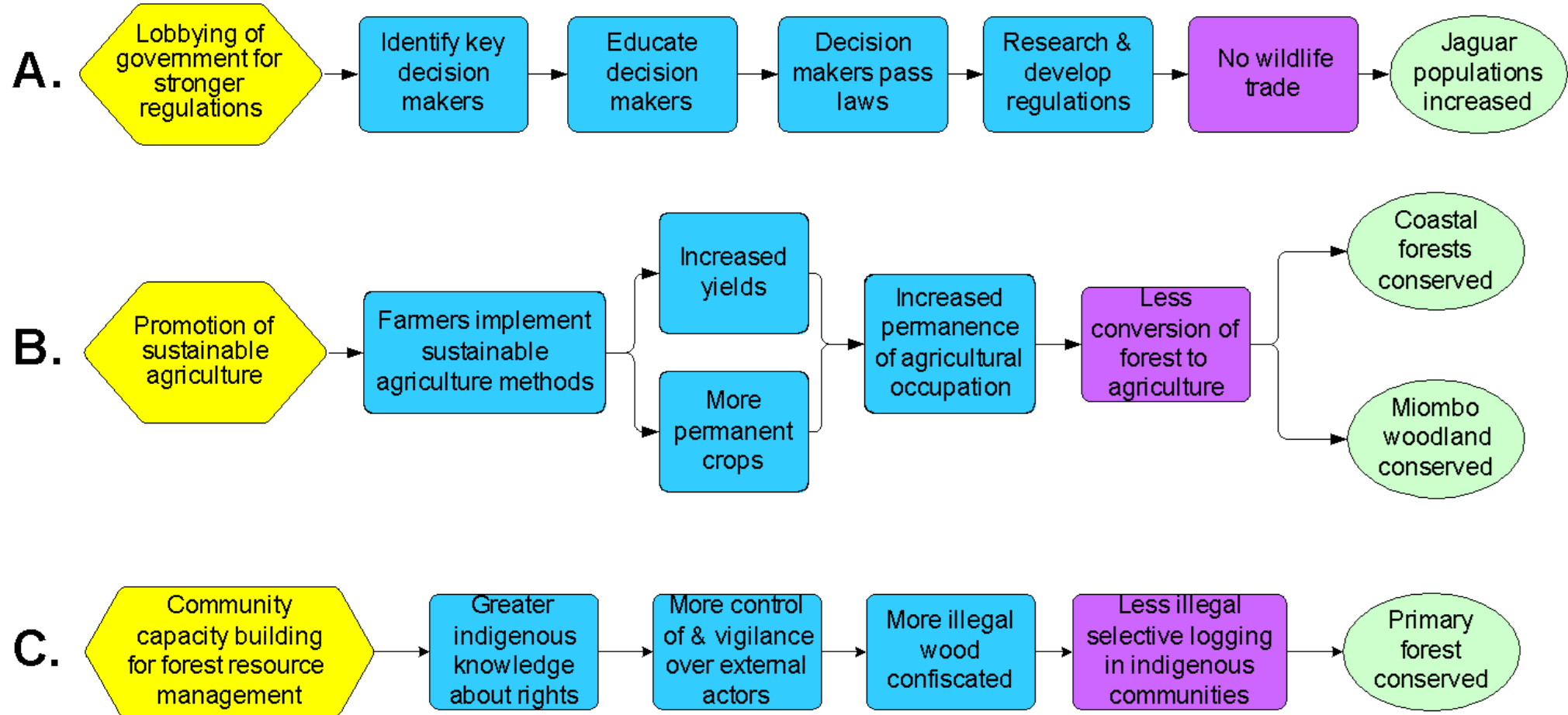
NO. A common mistake with developing ToC is to describe the activities the team will do to implement the strategy, rather than the intermediate results.



Taken from a slide from the module Adaptive Ecosystem Management 2022



# Which of the following is not a results web?



Taken from a slide from the module Adaptive Ecosystem Management 2022

**To summarize...**

# Results webs – MARISCO tool



## Results webs:

- They are usually constructed based on the **conceptual model**:
  - Visualisation deepens understanding of the indirect effects of strategies
  - Help build future scenarios for more effective strategic planning
  - Enabling of managers to identify gaps and reduce avoidable risks
- **Results-oriented**: Describes the results we seek to achieve the goal, not the activities.
- **Demonstrates change**: each result describes how the relevant factor in the situation will need to change, e.g., improve, increase or decrease

# Results webs – MARISCO tool



## Results webs:

- Allow for identification of “***milestone strategies***” -> Strategies which must be put into place before other steps are taken.
- Prepare the way for the design of an **effective monitoring system**.
- Test “**If-then**” **assumptions**: To detect inconsistencies in logical deduction or to identify unrealistic postulates concerning strategies
- **Not all results need objectives**. Choose results that are essential to achieve for the rest of the chain to work
- Opportunity to include **complementary strategies**.

# How you will develop your Theory of Change?

# Results webs – MARISCO tool



## Instructions

1. Write the title of your selected strategies on a big hexagonal yellow card.
2. Place one of them on the left-hand side of the new results webs sheet (big brown paper)
3. Identify the main underlying factors and drivers likely to be impacted by the strategy.
4. Consider how the strategy will change the related factors and convert them to positive results. Write the formulated results on blue cards.
5. Add activities to clarify how the strategy gets from one result to another.
6. Add complementary strategies to complete the chain of results.
7. Test your chain with the logic “If-then” relationships between results.
8. Finalize your goal(s), add objectives, and indicators.

# Results webs – MARISCO tool



- ✓ Begin analysis with simple results chains before creating complex webs.
- ✓ Write only one idea per result.
- ✓ You can start with chains in parallel and match them later.
- ✓ Reading your chain out loud is a good test of whether the results are “causally linked.” Start by saying, “If we implement X strategy, then we will achieve Result A. If we achieve Result A, then Result B will occur....” Ask yourselves if this statement really makes sense. This will help you test your logic. If an “if...then” linkage seems like a “leap of faith,” you may need an additional intermediate result to make your assumptions more explicit.



*Could anyone summarize how you will prepare the **ToC** for your strategies?*



Image source: Brainstorm by Jessica Lock from NounProject.com



Image source: [https://www.123rf.com/photo\\_30662987\\_what-is-your-task.html](https://www.123rf.com/photo_30662987_what-is-your-task.html)

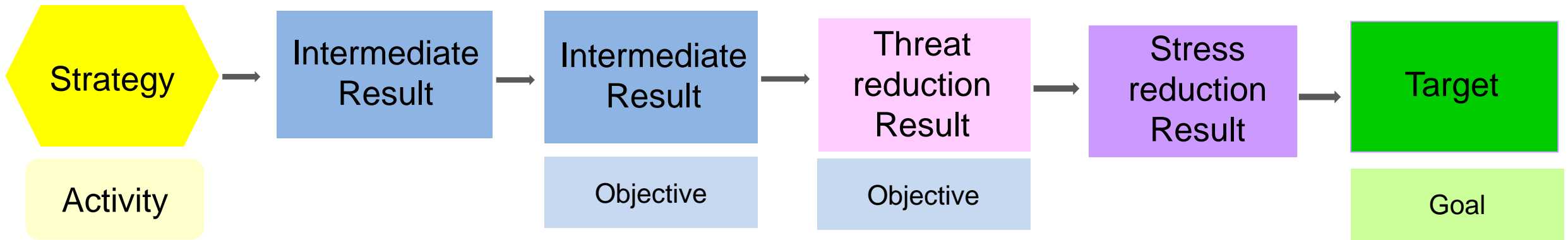


- Each group will develop for its topic a Theory of Change using Results Webs.
- It should include:
  - ✓ Strategies and activities
  - ✓ Intermediate results,
  - ✓ Threat reduction result(s) and stress reduction result(s) (if apply)
  - ✓ Target(s) systems
  - ✓ Goal(s)
  - ✓ Objectives (at least 3)
  - ✓ Indicators (at least 2)
- It doesn't need to cover all the related underlying factors and causes.
- Material will be provided.



Image source: [https://www.123rf.com/photo\\_30662987\\_what-is-your-task.html](https://www.123rf.com/photo_30662987_what-is-your-task.html)

# Results chain cards colour code





Question by KonKapp from NounProject.com

## Optional resources to get inspiration for your activities

*This could be useful in the future for those who implement participatory methods*

# Partizipativ innovativ – only in German

partizipa  
innova **tiv**

IMPRESSUM



KREATIVITÄTS- UND  
MODERATIONSTECHNIKEN



## Toolbox für Zivilgesellschaft und Politik

Großprojekte wie die Energiewende oder der Klimaschutz lösen Veränderungsimpulse aus, die über einzelne Wirtschaftsbereiche oder soziale Gruppen hinausgehen. Sie betreffen die gesamte Gesellschaft und verlangen den Menschen erhebliche Anpassungsleistungen ab. Die Akzeptanz für solche Projekte ist zunehmend davon abhängig, ob die Bevölkerung bei ihrer Gestaltung mitreden kann. Die hier vorgestellten Methoden helfen, eine solche aktive Beteiligung zu organisieren. Sie richten sich primär an zivilgesellschaftliche und politische Akteure.



GRUPPENDELPHI

KONSENSUSKONFERENZ

OPEN SPACE

PIA – PARTICIPATORY  
INTEGRATED ASSESSMENT

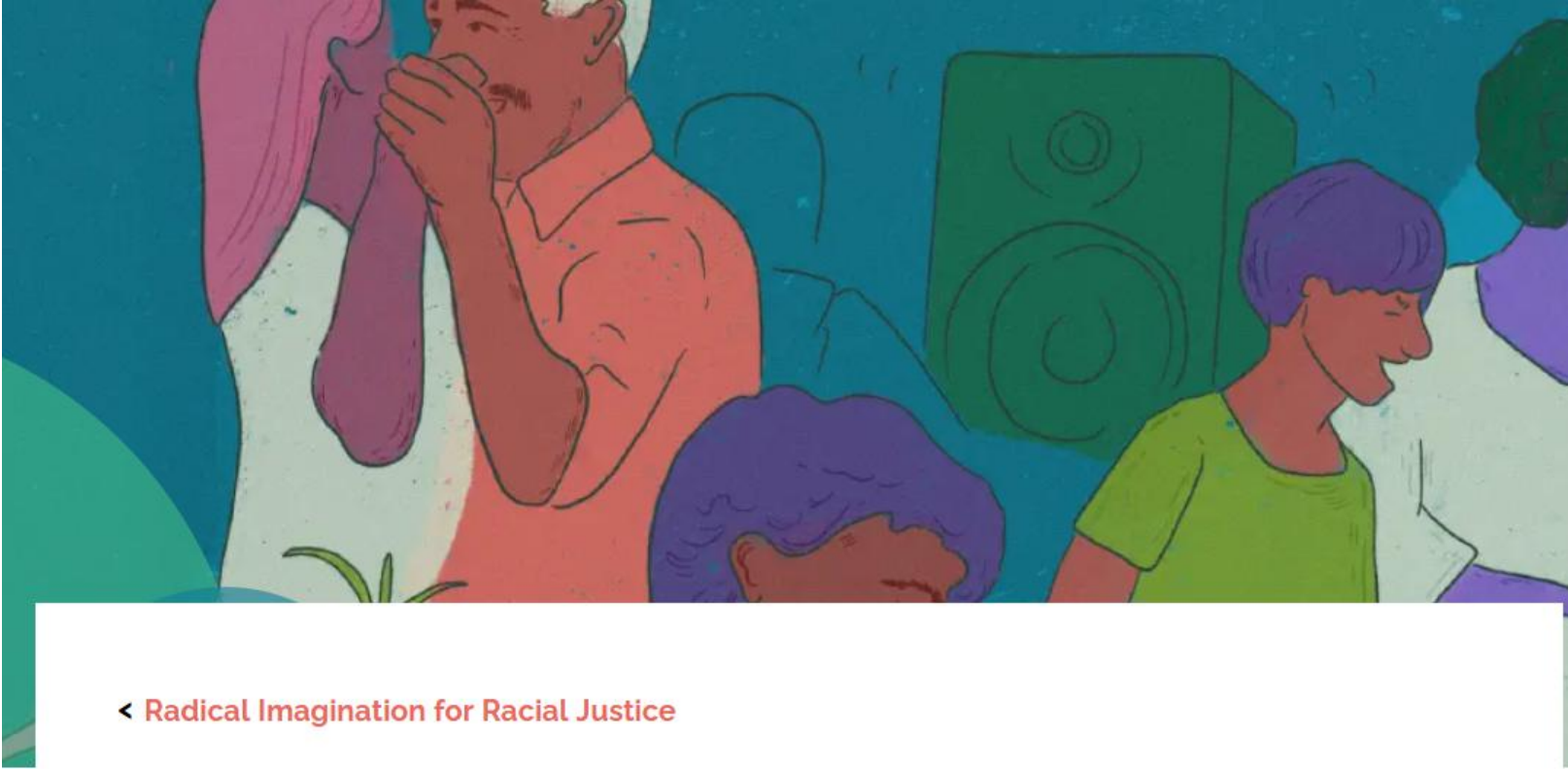
PLANSPIEL

STAKEHOLDERWORKSHOP

WORLD CAFÉ

ZUKUNFTSWERKSTATT

<https://www.partizipativ-innovativ.de/>



< **Radical Imagination for Racial Justice**

# Transformative Research Toolkit

PUBLICATION | MARCH 20, 2024

<https://belonging.berkeley.edu/transformative-research-toolkit>

# Methods and tools for co-producing knowledge

Collaboration between experts and stakeholders from science and practice for tackling real-world, context-sensitive societal challenges. [more](#)

Image: td-net

Search by key issues	Search by phases	<b>td-net toolbox (method profiles)</b> +	Method factsheets for td-research +
Shared experiences +	Community +	Applying td methods thoughtfully	Capacity Building

[https://naturalsciences.ch/co-producing-knowledge-explained/methods/td-net\\_toolbox](https://naturalsciences.ch/co-producing-knowledge-explained/methods/td-net_toolbox)

# References

Belcher B, Claus R 2020. Theory of Change. td-net toolbox profile (5). Swiss Academies of Arts and Sciences: td-net toolbox for co-producing knowledge. [www.transdisciplinarity.ch/toolbox](http://www.transdisciplinarity.ch/toolbox). doi.org/10.5281/zenodo.3717451

Deutsch, L., Belcher, B., Claus, R., & Hoffmann, S. (2021). Leading inter- and transdisciplinary research: Lessons from applying theories of change to a strategic research program. *Environmental Science & Policy*, 120, 29-41. <https://doi.org/10.1016/j.envsci.2021.02.009>

Oberlack, C., Sietz, D., Bonanomi, E. B., de Bremond, A., Dell'Angelo, J., Eisenack, K., Ellis, E. C., Epstein, G., Giger, M., Heinemann, A., Kimmich, C., Kok, M. T., Manuel-Navarrete, D., Messerli, P., Meyfroidt, P., Václavík, T., & Villamayor-Tomas, S. (2019). Archetype analysis in sustainability research: meanings, motivations, and evidence-based policy making. *Ecology and Society*, 24(2). <https://www.jstor.org/stable/26796959>

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