Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
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Bundesamt für Energie BFE
Office fédéral de l'énergie OFEN
Ufficio federale dell'energia UFE
Uffizi federal d'energia UFE

KTT FOR SWEET – MEETING II 2024

AGENDA

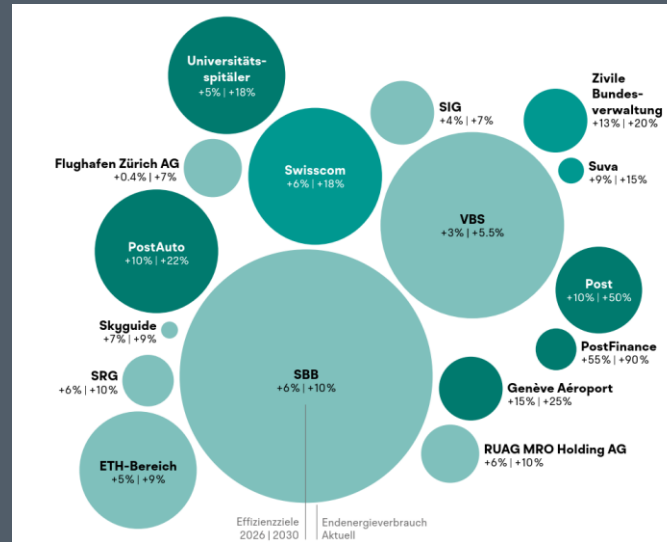|	
13:15	**Welcome**
13:30	**Exchange: Achieving impact as a SWEET consortium**
13:45	**Presentation: The five-stage impact model for SWEET consortia**
13:45	**Developing a five-stage impact model for your consortium – PART I**
15:00	*Coffee Break*
15:30	**Developing a five-stage impact model for your consortium – PART II**
16:15	**How can the impact model be applied within your consortium?**
16:45	**Conclusion**
17:00	*End*

SFOE SWEET Funding Program

KTT Workshop: Achieving Impact

image source: This is how DALL-E envisions achieving impact.

Intep: Pioneer in sustainability

Suurstoffi (Risch-Rotkreuz)

Suurstoffi, Risch-Rotkreuz, Switzerland

Neighborhood

Reuse of building components at city level

Saving energy in the home – together!

Berlin TXL: Green new start on 500 ha

Today's Facilitators

Matthias Mahler
Sociologist and Geographer

Dr. Daniel Bregulla
Sociologist

Dr. Christian Schmid
Economic geographer

Expertise
- Behavioral Change: Energy use, households, mobility, communities
- Empirical Research: Social and behavioral sciences
- Impact & Evaluation: Stakeholder needs, outcome analysis
- Facilitation & Process Design: Workshops, change management
- Innovation & Technology Transfer
- Sustainability: Neighborhoods, cities, regions

Achieving Impact as a Scientist?

- Why societal impact?
  - Research as a driver for societal progress and innovation.
  - Addressing global and local challenges (climate, energy, well-being).
- Key elements of impactful research
  - Interdisciplinary collaboration
  - Stakeholder engagement and co-creation
  - Long-term vision and measurable outcomes
- Our shared mission
  - Transitioning ideas into actionable solutions
  - Creating value for society, the environment, and the economy.

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Impromptu Networking

Let's dive in!...

Impromptu Networking - exchange in pairs!

→ Getting to know each other and exchanging ideas

→ Initial ideas and topics for further work on the impact model

Modus

▪ In pairs

▪ 3x3 minutes – each person has 1 minute to answer the questions, rest is open talk - change when the bell is ringing

"What contribution can your project make to the energy transition?"

"What is an example of a successful approach or method you have used to achieve impact?"

The five-stage impact model: Background

Origin of impact models

- Originated in evaluation research in the 1950s

- Theoretical consolidation in the 1970s-1980s

  – An Impact model represents a program theory

  – Problem hypothesis: "Somebody is causing a societal problem"

  – Intervention hypothesis: "The problem can be solved like this"

- Since then, widespread use in program planning and evaluation in politics, development aid, the nonprofit sector, and philanthropy

- Applied since 2001 as management and monitoring tools within Swiss federal administration, increasingly for legislative design, with health policy as a pioneer

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The five-stage impact model: Background
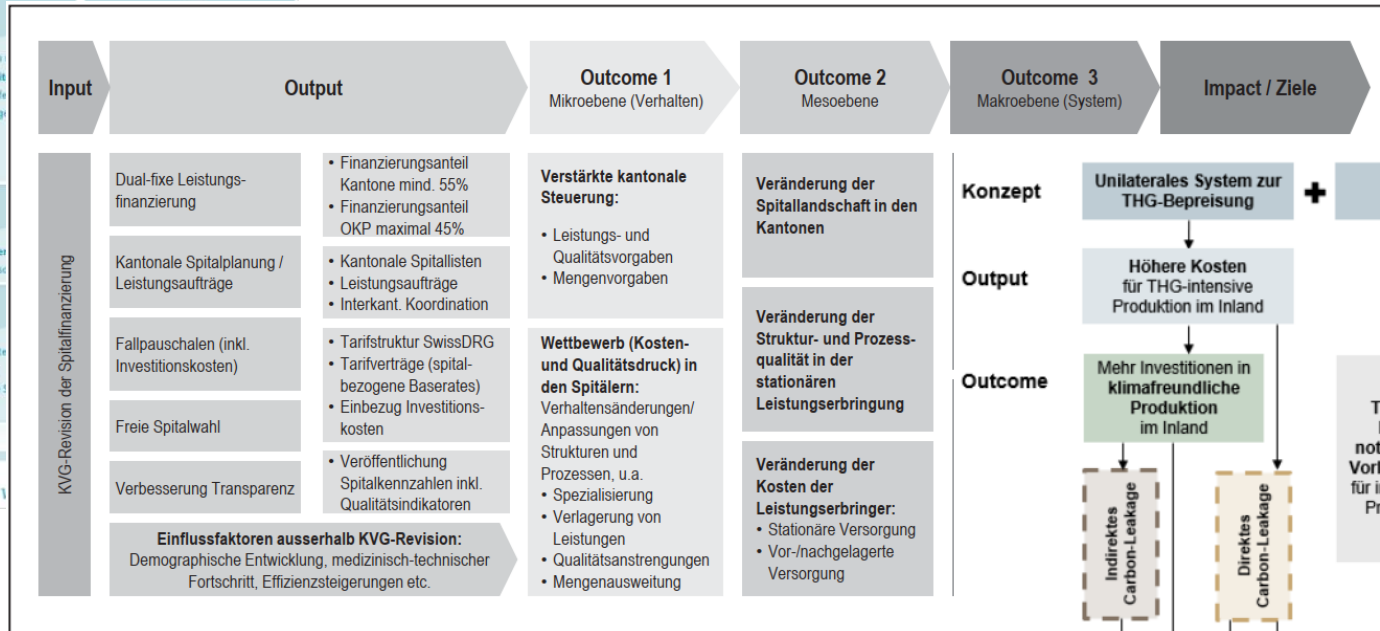
The five-stage impact model

- Describes how a program contributes to solving a societal problem

- Prototype model: linear impact model for policy evaluation by Knoepfel and Bussmann in 1997

- Widely used, with a linear impact approach, often applied to existing programs

- Application principle: "It's an art, not a science" — flexible and often customized

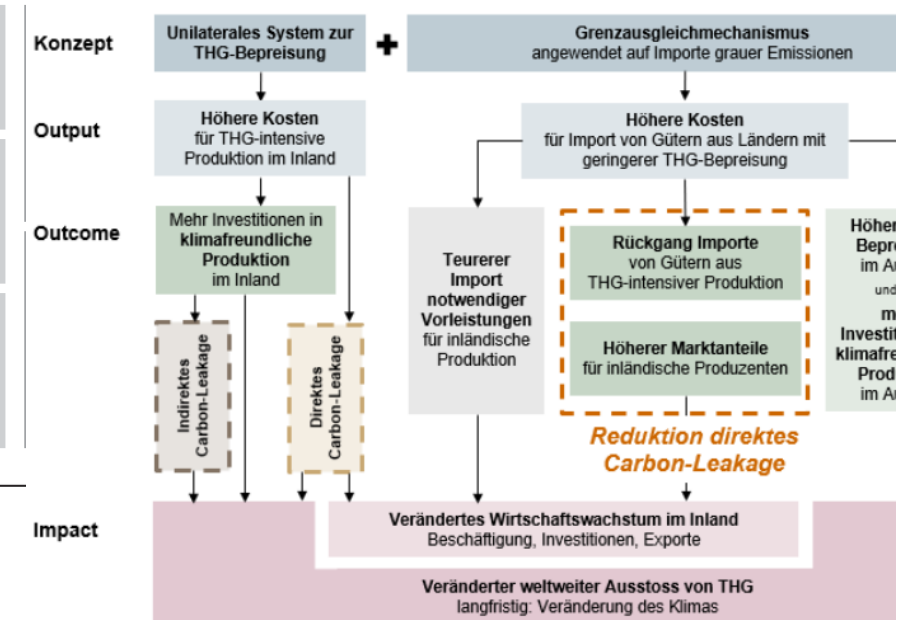Inputs → Activities → Outputs → Outcomes → Impacts

The five-stage impact model: Examples
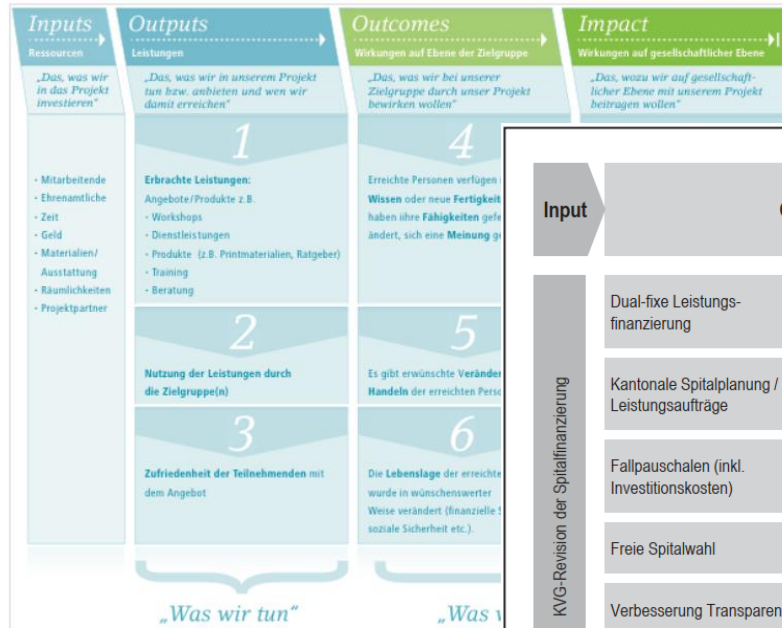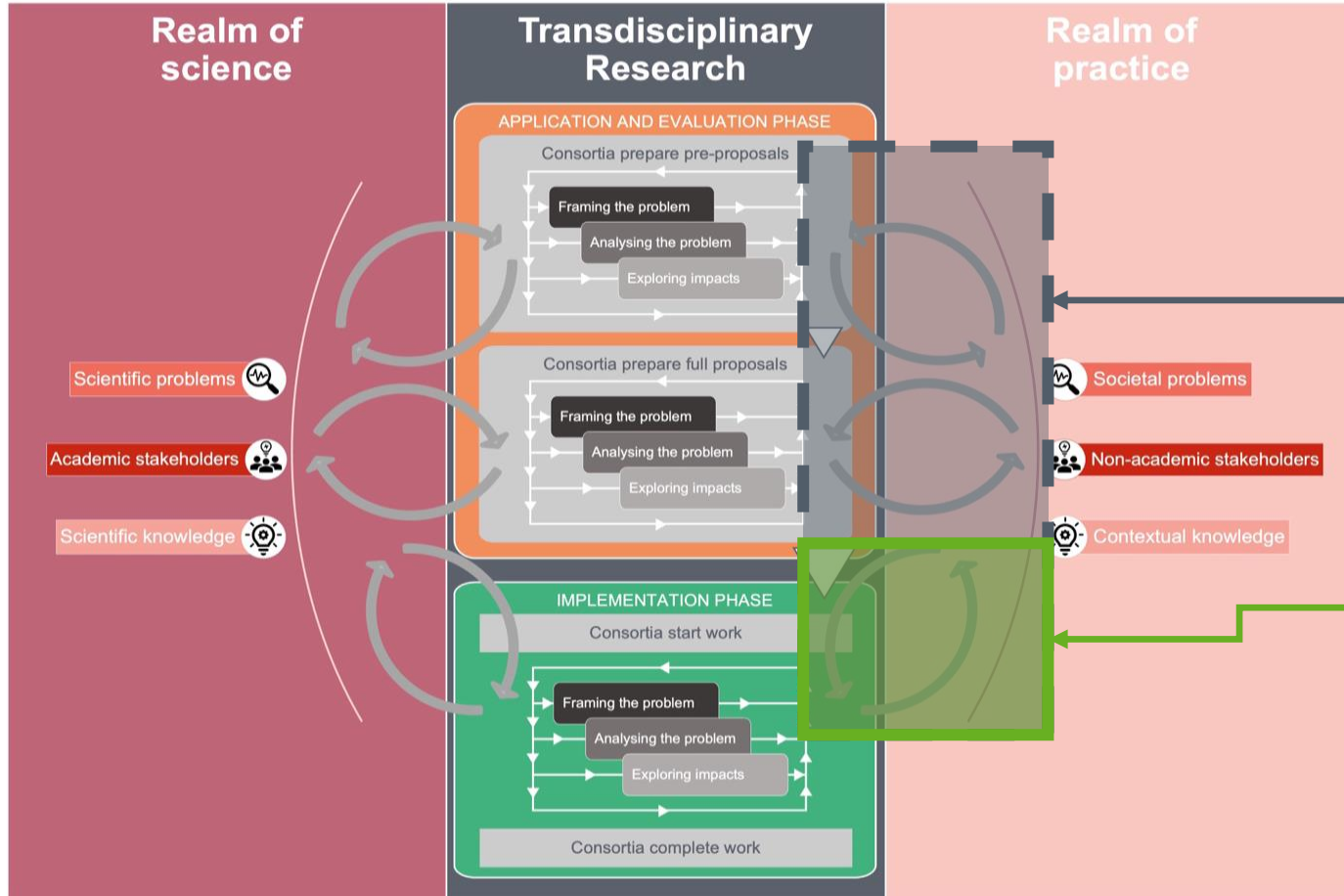

Five-stage impact model „NRP"

Five-stage impact model „KVG-Revision Spitalfinanzierung"

Five-stage impact model „EU CBAM

The five-stage impact model for SWEET consortia

What type of effects should the five-stage impact model for SWEET consortia capture?

- Effects on realm of practice
  - effects on societal problems
  - effects on non-academic stakeholders

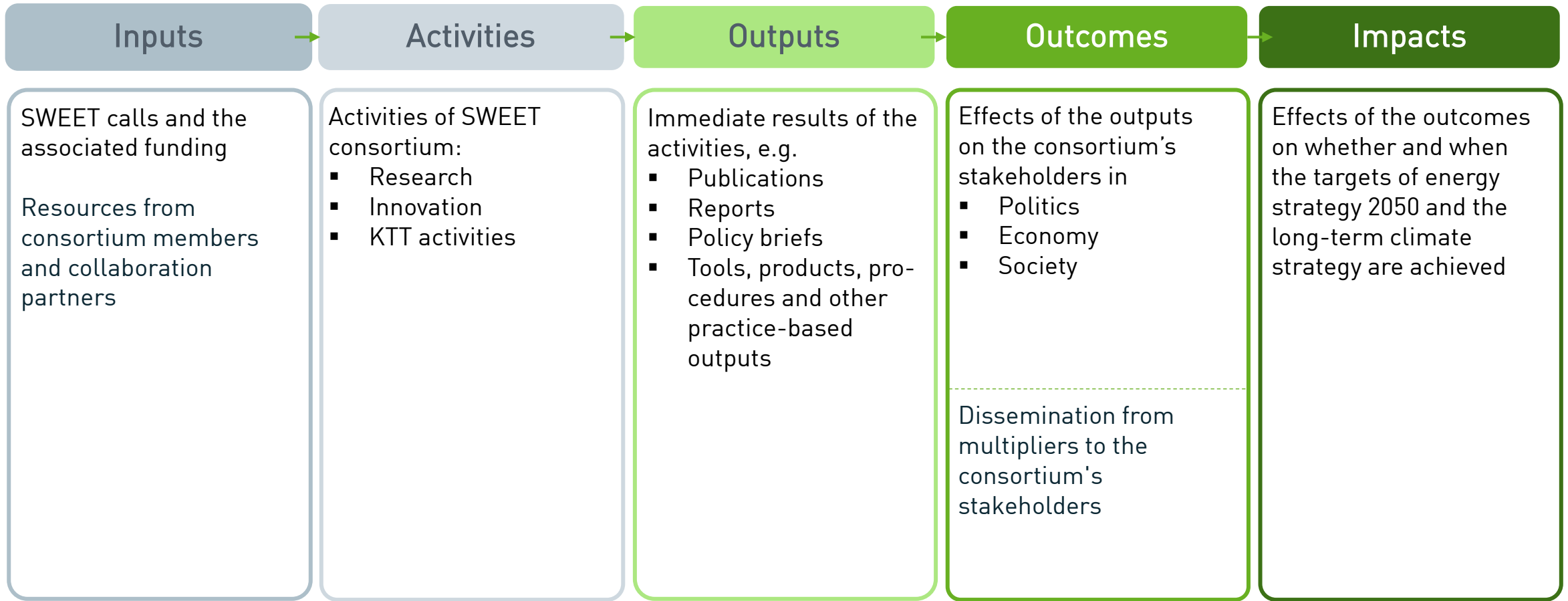**In which phase of the consortium is it applied?**

Future consortia: Application phase and, if funded, implementation phase

Existing consortia: Implementation phase

The five-stage impact model for SWEET consortia

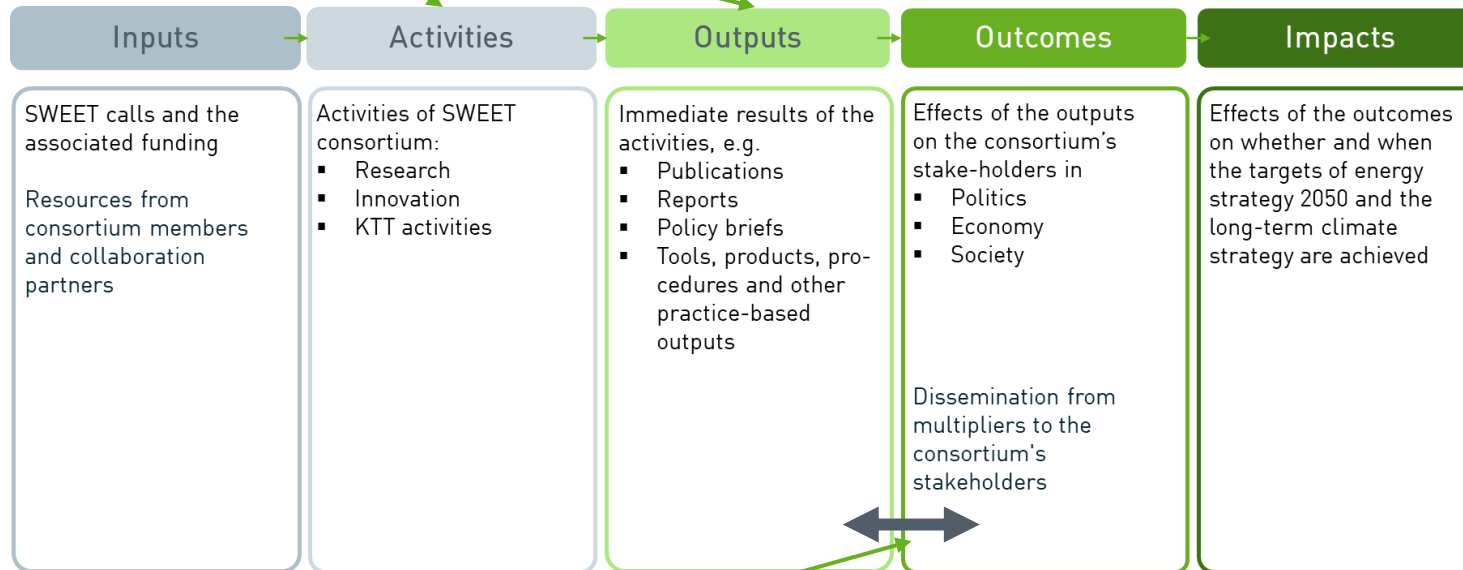General five-stage impact model for consortia in the implementation phase:

Inputs	Activities	Outputs	Outcomes	Impacts

Inputs

SWEET calls and the associated funding

Resources from consortium members and collaboration partners

Activities

Activities of SWEET consortium:
- Research
- Innovation
- KTT activities

Outputs

Immediate results of the activities, e.g.
- Publications
- Reports
- Policy briefs
- Tools, products, pro-cedures and other practice-based outputs

Outcomes

Effects of the outputs on the consortium's stakeholders in
- Politics
- Economy
- Society

Dissemination from multipliers to the consortium's stakeholders

Impacts

Effects of the outcomes on whether and when the targets of energy strategy 2050 and the long-term climate strategy are achieved

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The five-stage impact model for SWEET consortia

Develop a five-stage impact model for your consortium in four steps:

2. Define how your consortium is expected to contribute to achieving the goals of the energy strategy 2050 and the long-term climate strategy.

1. Fill in the planned activities and outputs of your consortium.

Inputs	Activities	Outputs	Outcomes	Impacts
SWEET calls and the associated funding Resources from consortium members and collaboration partners	Activities of SWEET consortium: ▪ Research ▪ Innovation ▪ KTT activities	Immediate results of the activities, e.g. ▪ Publications ▪ Reports ▪ Policy briefs ▪ Tools, products, procedures and other practice-based outputs	Effects of the outputs on the consortium's stake-holders in ▪ Politics ▪ Economy ▪ Society Dissemination from multipliers to the consortium's stakeholders	Effects of the outcomes on whether and when the targets of energy strategy 2050 and the long-term climate strategy are achieved

4. Check if activities and outputs match the desired outcomes. Adjust activities and outputs if necessary.

3. Define the effects your consortium aims to create among stakeholders to contribute to the desired impacts.

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The five-stage impact model for SWEET consortia

Application within the consortium

- Coordinate the five-stage impact model with management team of the consortium and with key stakeholders and disseminate the results within the consortium.

- Establish specific and measurable objectives for **outputs** and assess progress towards expected **outcomes.**

- Encourage members to discuss the practical relevance of their joint research related to the intended effects

- Invite members to identify ways to leverage the consortium's outputs to support the desired outcomes.

What is the benefit of using the five-stage impact model within the consortium?

- Shared understanding within the consortium and extended consortium of the intended practical impact.

- Common language between the consortium and the SWEET Office for intended and achieved effects.

- Tool to align research, innovation and KTT activities with the intended outcomes.

- Tool for ongoing evaluation of practical impact.

Developing a five-stage impact model for your consortium

Work individually or in pairs per consortium (30')

- Brief introduction to each work step

- Independent work with the worksheet and template

Group exchange (15')

Activites and Outputs

Examples:

Activities	→	Outputs

Activities	Outputs
~~Research and Innovation in WP 1~~	~~Report and Policy briefs~~
WP 1: Modelling of decentralised energy supply in Swiss cities	Policy recommendations for the promotion of decentralised power supply in alpine regions
WP 5: Risk assessment of the Swiss electricity supply	200+ participants at investors conference for sustainable fuels

Activity

Output

Impacts

Impact

Examples:

Impacts

Contribution to achievement of targets of ES 2050 and LCS:
- Total energy demand of Switzerland is reduced.
- Switzerland achieves the net-zero target by 2050.

Contribution to broader changes in…
- Politics: Swiss lawmakers create the necessary framework conditions for sustainable energy system.

- Economy: The Swiss construction sector adapts carbon capture and storage solutions across the board.

- Society: The general public supports political measures to decentralize power supply.

Outcome

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Group discussion: Sharing results

- Group 1: DeCarbCH, EDGE, PATHFNDR,

- Group 2: LANTERN, SWICE, CoSi

- Group 3: SURE, reFuel.ch, RECIPE

3x What

What did I notice?

What did I learn?

What did I find challenging?

Bern, 19.11.2024

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Coffee Break

Outcomes

Examples:

Outcomes

Effects of the outputs on the consortium's stakeholders:

- PV-owners know the disadvantages of an unlimited expansion of the power grid and accept necessary control measures at peak production times.

- Legislators create the necessary legal basis for a decentralised energy supply

- For concrete producers, the production cost of carbon-negative concrete sinks to the level of conventional production.

Dissemination from multipliers to the consortium's stakeholders:

- Industry associations and trade journals inform their audiences about the developed tools.

Outcome

Impact

Check Outputs and Activities

Outputs	Outcomes
Immediate results of the activities, e.g. ■ Publications ■ Reports ■ Policy briefs ■ Tools, products, pro-cedures and other practice-based outputs	Effects of the outputs on the consortium's stake-holders in ■ Politics ■ Economy ■ Society Dissemination from multipliers to the consortium's stakeholders

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Group discussion: Sharing results

Group exchange (15')

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3x What

What did I notice?

What did I learn?

What did I find challenging?

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How can the impact model be applied within your consortium?

image source: This is how DALL-E envisions achieving impact

Recommended next steps

Application within the consortium

1. Complete the draft of the impact model.

2. Deepen, develop, or align the five-stage impact model with the management team and/or work package leader (including KTT and integration).

3. Get feedback on the impact model from key stakeholders.

4. Disseminate the result among members and collaboration partners.

5. Establish specific and measurable objectives for **outputs** and qualitative and quantitative indicators to assess progress towards expected **outcomes.**

6. Encourage members to discuss and document the practical relevance of their joint research related to the intended effects according to the five-stage impact model.

7. Check and if necessary, align research, innovation and KTT activities to achieve the desired outcomes.

8. Invite members to identify ways to leverage the consortium's outputs to support the desired outcomes.

Tools for further development

General Preparation

- Theory of Change*

Integration of Activities and Outputs

- Give-And-Take Matrix*
- Venn Diagram Tool*

Outcomes

- Context and Actor Analysis*
- Functional-Dynamic Stakeholder Involvement*
- Outcome-Spaces Framework*

Impacts

- ES 2050 monitoring report 2023 (full version)

*see: td-net toolbox

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Reflect and Plan: Final Thoughts

Take a moment to reflect individually and consider the following questions:

1. What key insights or ideas will you take away from today?
2. What will you prioritize working on within your project or consortium?
3. What do you want to share with others after this workshop?
4. What specific questions or challenges will you focus on addressing?

Write down your thoughts – these will guide your next steps.
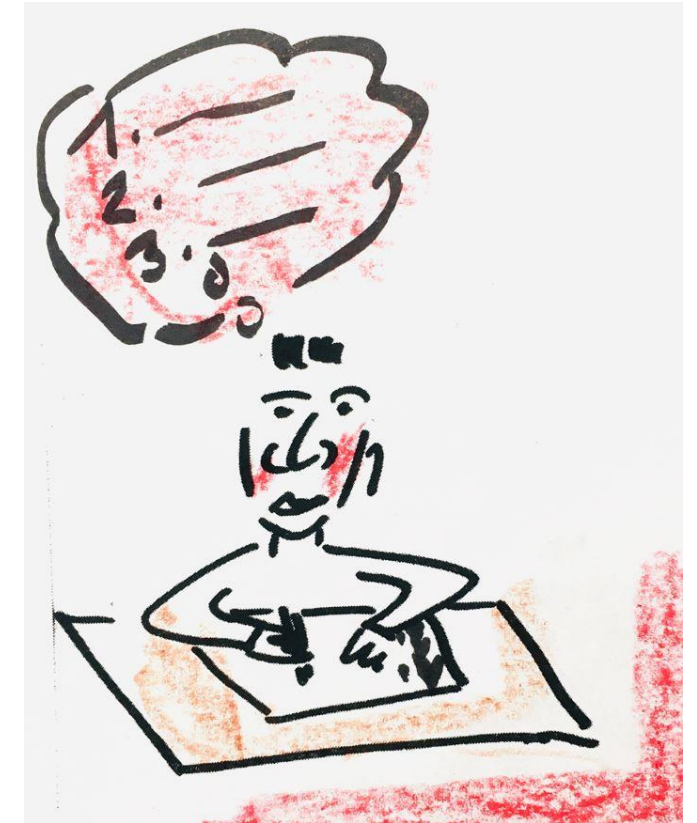
Impromptu Networking

Impromptu Networking - exchange in pairs!

→ sharing insights with others

→ making today's impulses usable for everyday life

Modus

- In pairs

- 3x3 minutes – each person has 1 minute to answer the questions, rest is open talk - change when the bell is ringing

"What will I take away from today's meeting?"

"What will challenge me the most in my everyday life?"

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