

Innovations for Sustainable Production in the Global Textile Supply Chains Breaking the mould with scenario analysis

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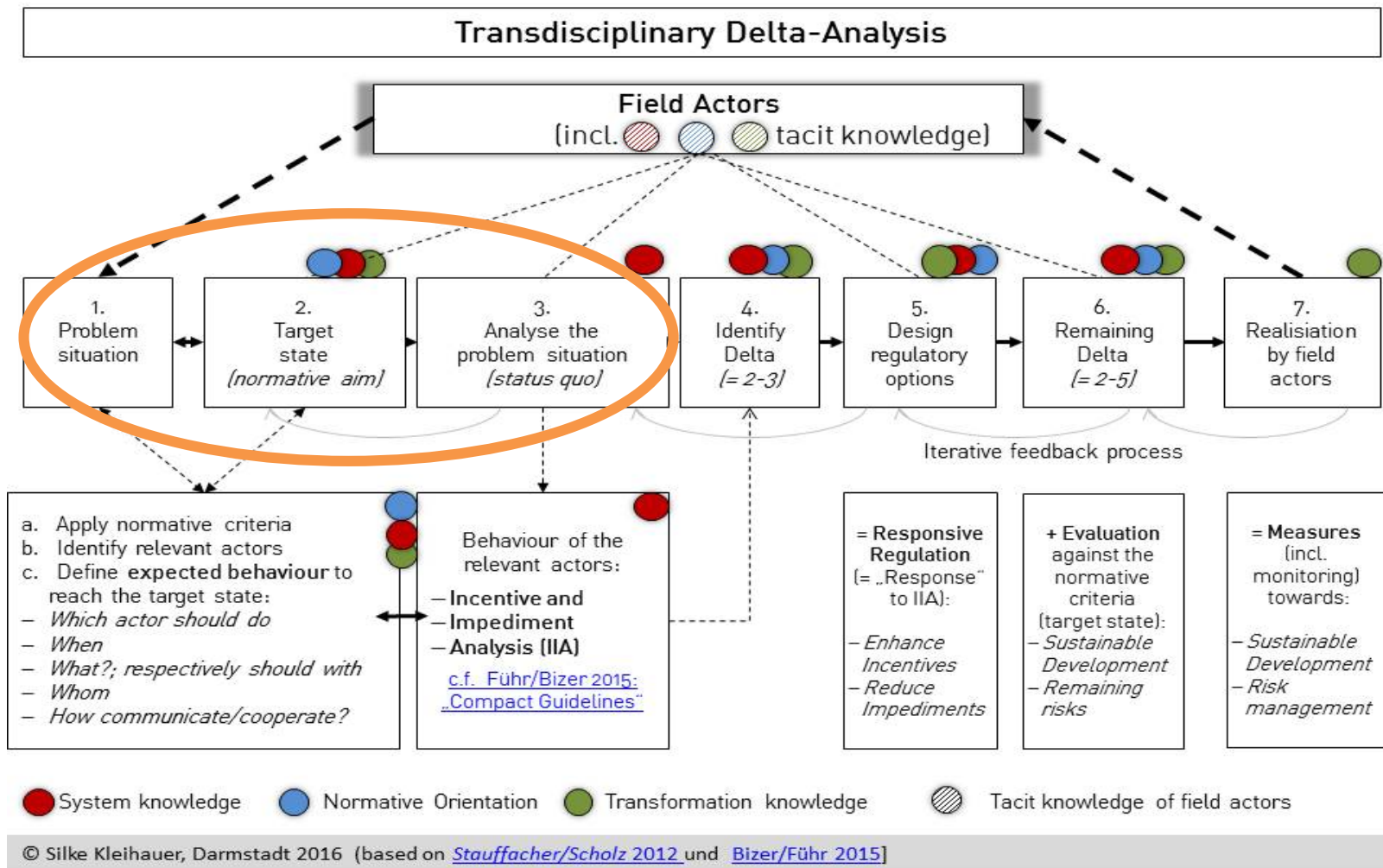
Partners:



Research questions

1. How to foster transformation for sustainable production in the global textile supply chains?
2. How to foster a “culture” which enables and induces related transformation processes?

Analytical framework (of project)



(1) Problem Situation

- UNEP: Textile and clothing the world's 2nd biggest economic activity for intensity of trade
- Exposure to hazardous substances
- Complex/volatile supply chains constrain risk management

(2) Target state (aim)

- Developments in international governance (SAICM, SDGs)
12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment
- Developments in Europe: REACH → Restrictions, SVHC
- Greenpeace „Detox“ → increased consumer awareness

(3) Status quo: **EU Formulators' perspective**

- Have SDG 12 relevant capacities
- No market opportunities due to lack of demand by brands
- Solution: Internationally agreed certification system

(3) Status quo: **Brands' perspective**

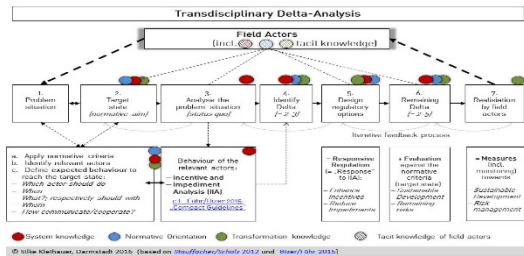
- Struggle to fulfil the regulatory minimum requirements
- Transparency needed, but doubt formulators' willingness
- Costs, but doubt consumers' willingness to pay
- (Interim) solution: Certification systems

Interim evaluation: **Deadlock**

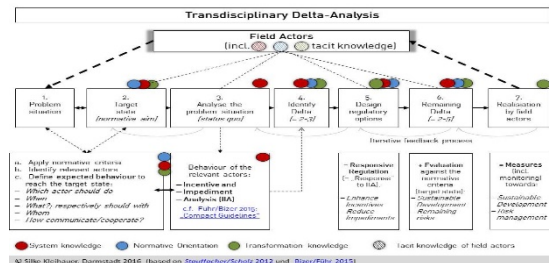
- Individual and professional perceptions and thinking patterns
- No systemic view solutions for sustainable production

Scenario method activates systemic thinking

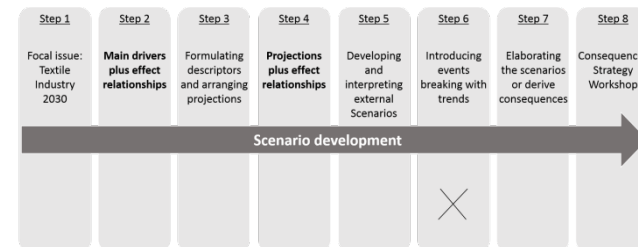
Analytical framework



Refined process with scenario method



Transformative thinking



Scenario method (*H. Geschka*), adapted

Step 1

Focal issue:
Textile
Industry
2030

Step 2

**Main drivers
plus effect
relationships**

Step 3

Formulating
descriptors
and arranging
projections

Step 4

**Projections
plus effect
relationships**

Step 5

Developing,
interpreting
external
Scenarios

Step 6

Introducing
events
breaking with
trends

Step 7

Elaborating
the scenarios
or derive
consequences

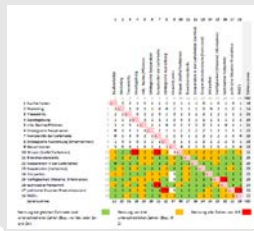
Step 8

Consequences
Strategy
Workshop

Scenario development



**Key 1:
Impact Matrix**



**Key 2:
Consistency
Analysis**



Status quo revisited: **Common perspective**

- Lack of horizontal and vertical cooperation
- No unified standard for textile sector chemicals management
- No sector solution supporting traceability and knowledge as to the chemicals used in the supply chains.
- In this respect, certification systems of no help
- Lack of IT-tools to facilitate exchange of information
- Normative impulses not strong enough
- Consumer of very limited significance

Answers and outlook

- Question 2: Scenario method as learning tool to foster transformation
- Question 1: Identification of sustainable production strategies for the global textile chains
- Dissemination and testing (EU LIFE AskREACH)