

Interreg



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North-West Europe

ECHT

The ECHT Project

Enable Digital Product Passports with Chemicals Traceability for a Circular Economy

19th of November 2025

h_da hochschule
darmstadt

member of
eut+
EUROPEAN UNIVERSITY
OF TECHNOLOGY



With the friendly support
of the Representation of
the State of Hessen to the
European Union.

► Welcome

Johannes Bade

Head of Unit Science and Research, Arts and Culture

Representation of the State of Hessen to the European Union

► Opening

Dr. Jonas Rehn-Groenendijk

Darmstadt University of Applied Sciences

Innovation and Transformation Platform for Sustainable Development (itp:ne)

AGENDA

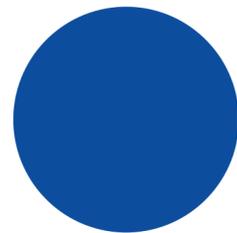
Techtera Workshop
30.10.2025
ONLINE

Dr. Jonas Rehn-Groenendijk
Jessica Krejci

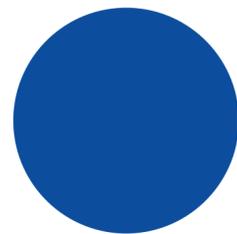
- ▶ **Welcome & Concept**
- ▶ **Project Scope, Process & Outputs**
- ▶ **Knowledge Platform & User Test**
- ▶ **Coffee Break**
- ▶ **Where to start with traceability**
- ▶ **"Product Circularity Data Sheet" and "TRUSTEX"**
- ▶ **Lunch Break**
- ▶ **Policy Action Plan - World Café**
- ▶ **Coffee Break**
- ▶ **Feedback from World Café**
- ▶ **Traceability Hub**
- ▶ **Closing Remarks**
- ▶ **Networking & Drinks**

What needs to change?

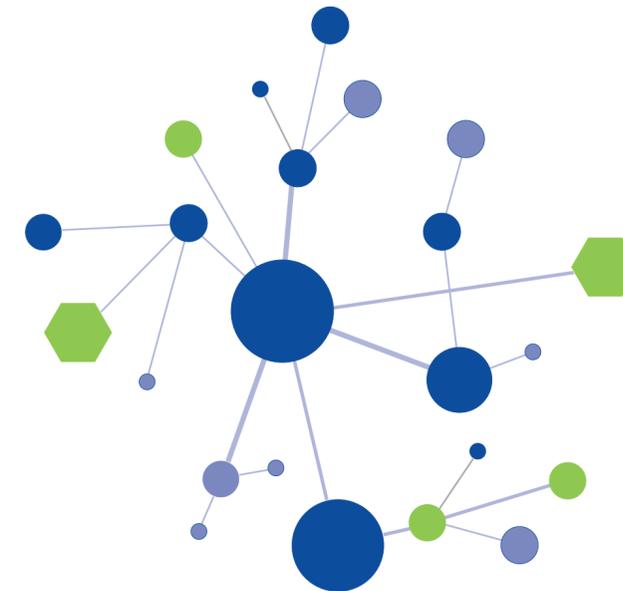
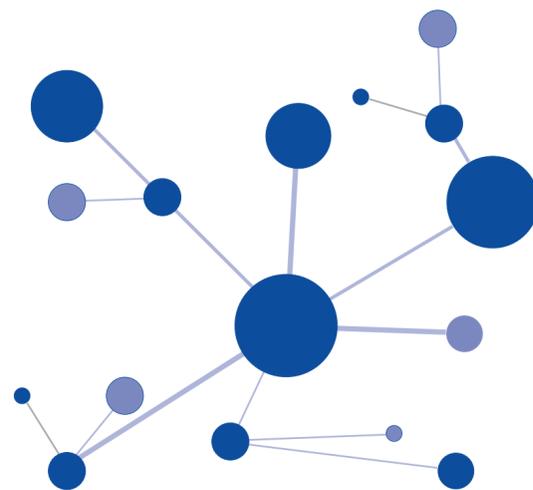
What needs to change?



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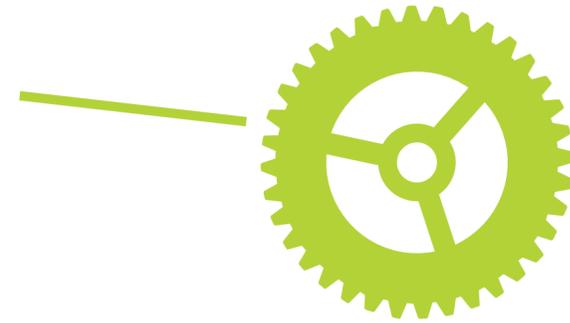
What needs to change?



What needs to change?

What needs to change?

technical
innovation



Geels, 2005; Geels et al., 2007

What needs to change?



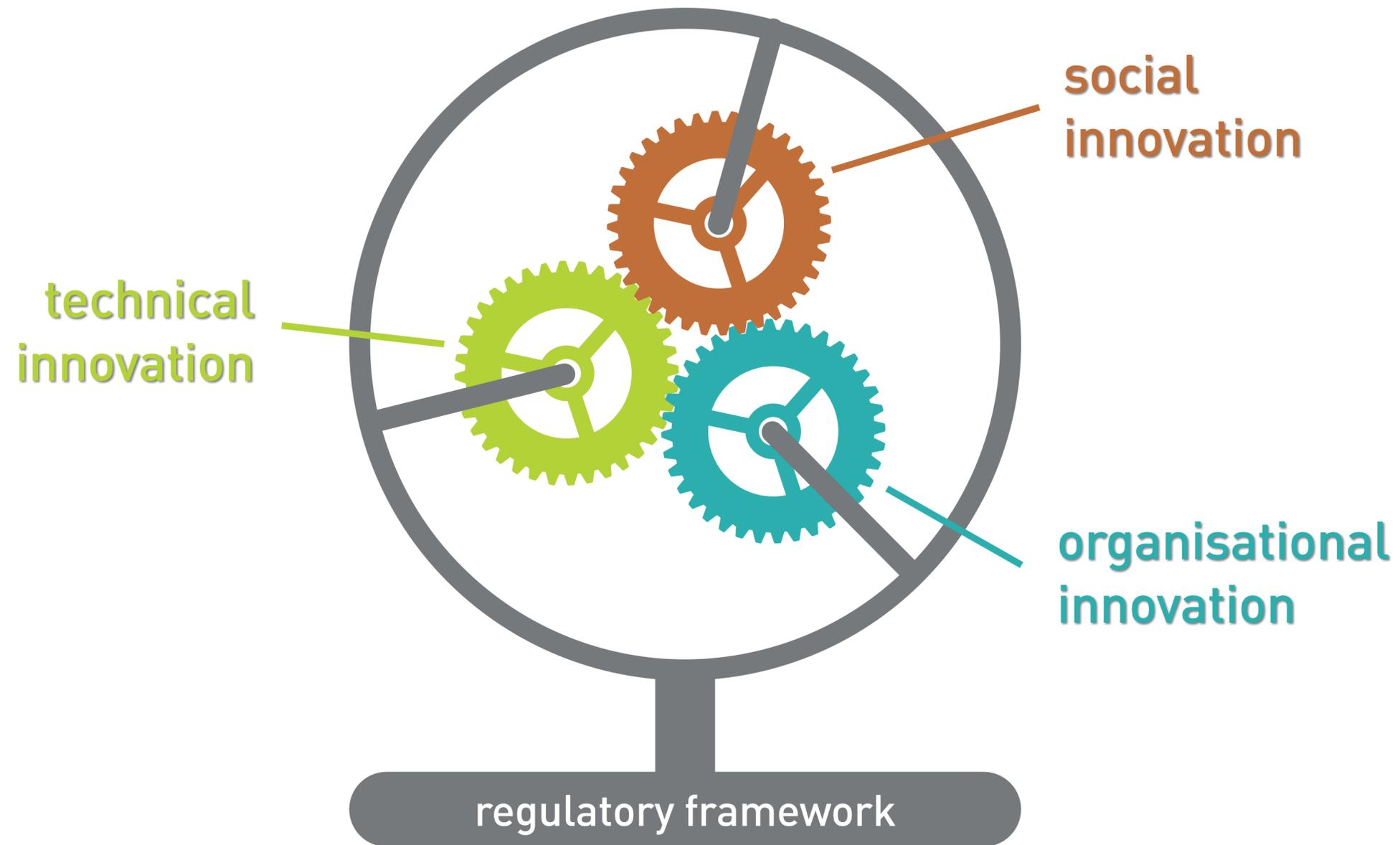
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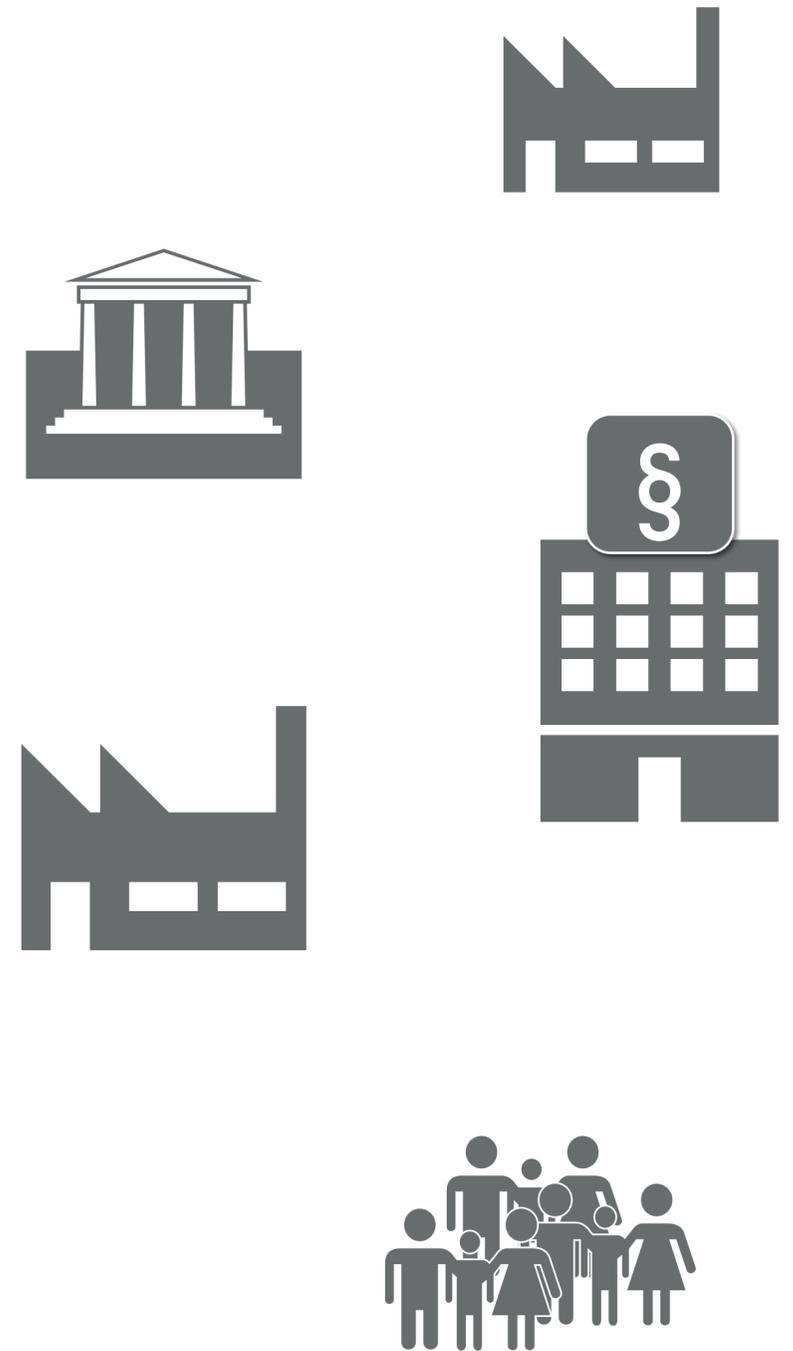
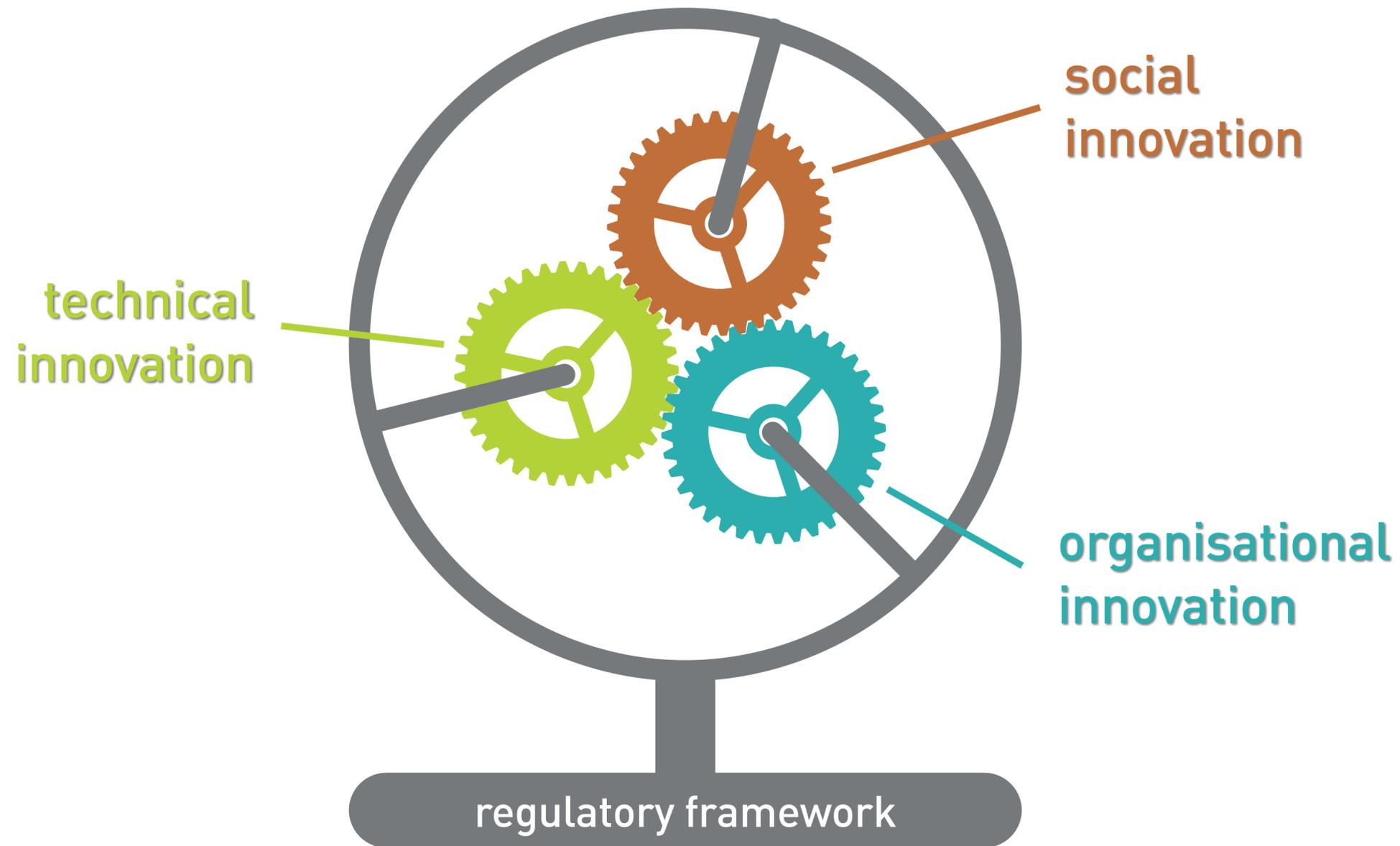
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What needs to change?



Geels, 2005; Geels et al., 2007

Who needs to be involved?



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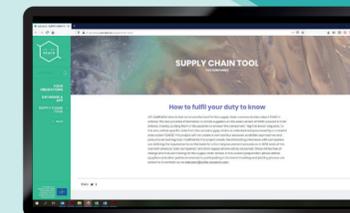
- ▶ Duration 2024-2026
- ▶ ca. 2 Mio € Budget

Interreg  Co-funded by the European Union
North-West Europe

s:ne



proactive alliance



ECHT

Enable Digital Product Passports with Chemicals Traceability for a Circular Economy

8 Project Partners



12 Associated Organisations



Other Organisations involved





ECHT aims to help the industry establish chemicals traceability for a circular economy by enabling the digital product passport.



ECHT aims to help the industry establish **chemicals traceability** for a circular economy by enabling the digital product passport.



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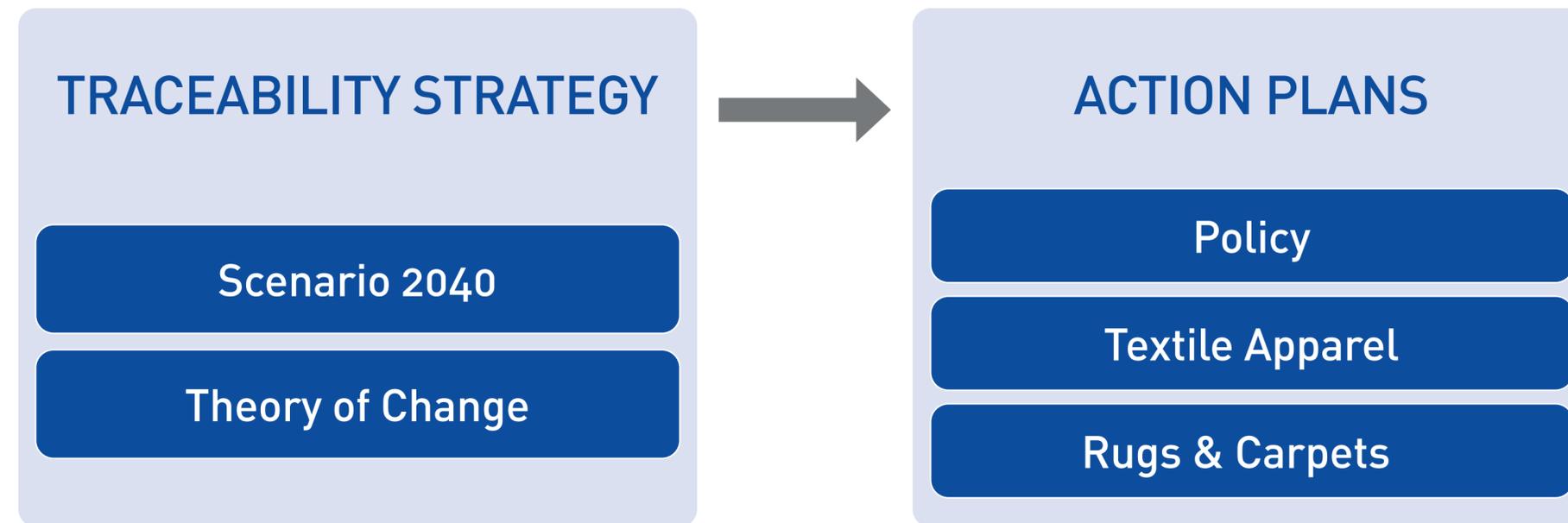
The Project

TRACEABILITY STRATEGY

Scenario 2040

Theory of Change

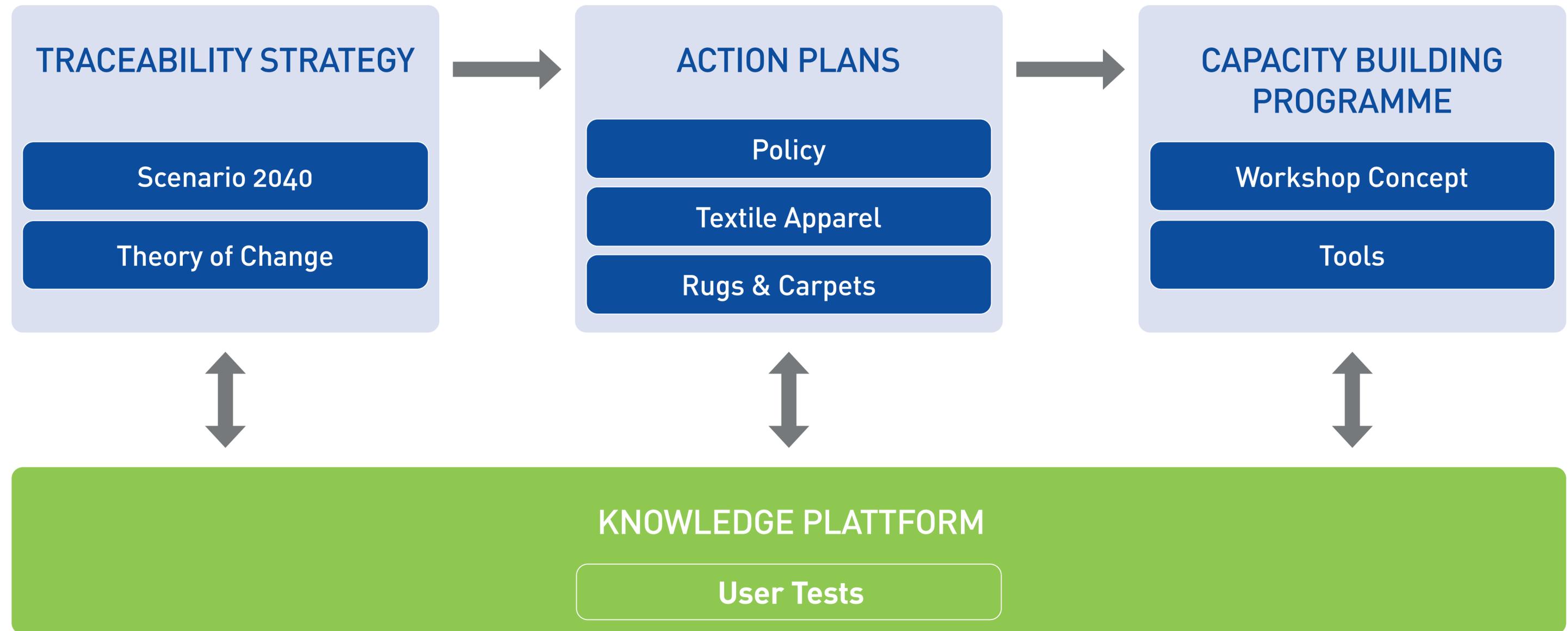
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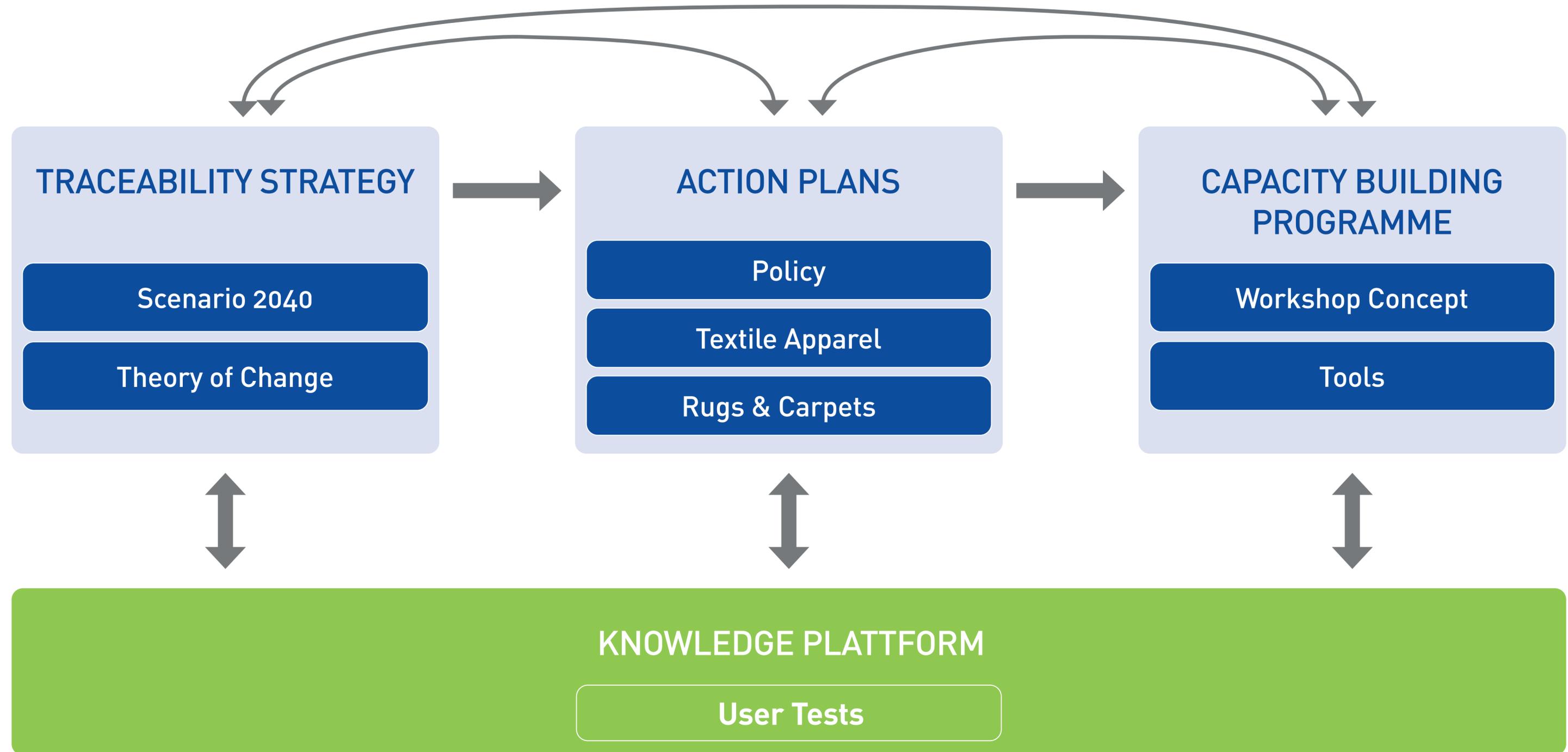
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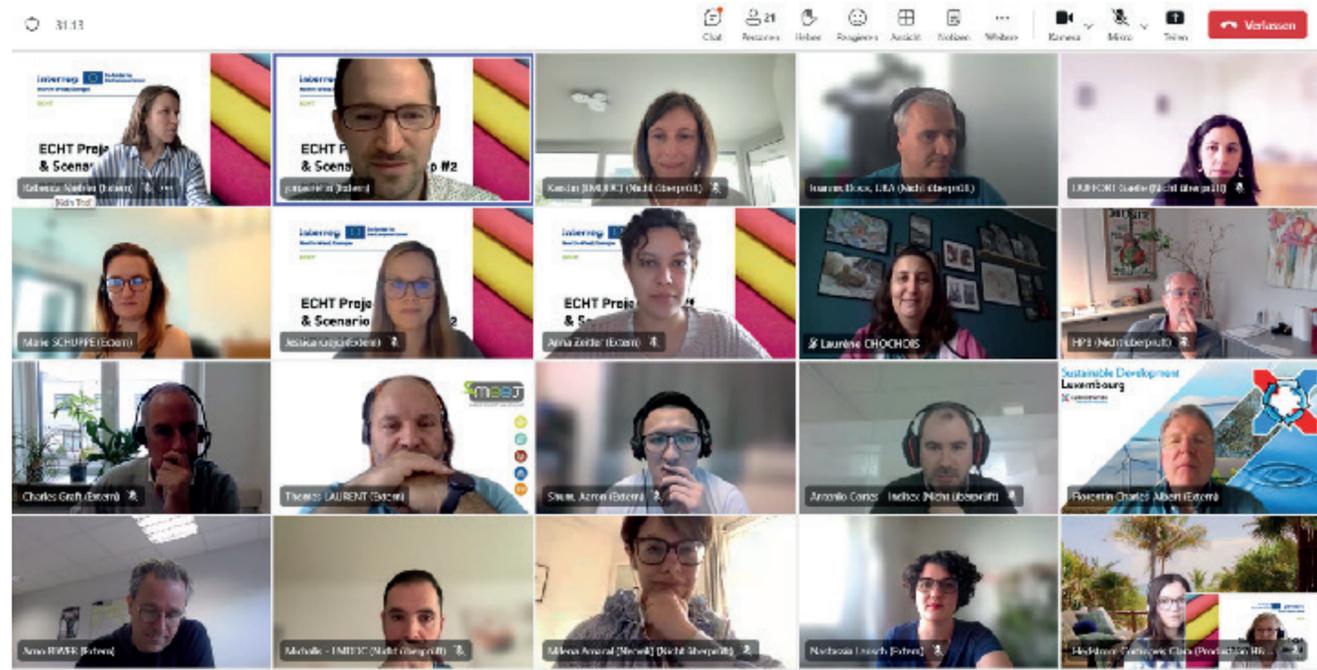


The Project



The Project





Process with Industry, NGOs, Public Authorities and Academia

Traceability of Chemicals in Global Textile Apparel Value Chains in 2040

Project Scope & Definitions (Based on Workshops in the ECHT Project)

Traceability of Chemicals in global textile apparel value chains in 2040

Which textile value chains are we talking about?	What is chemicals traceability?	Ability
<p>„Textiles“ relevant for this project are cotton and polyester apparel (e.g. shirts, trousers).</p>	<p>“Traceability“ in this context means the ability to trace back which chemicals are present in which component of an article (or were also used in the process).</p>	<p>„Ability“ (to trace) in the context of this project refers to knowledge and capacity regarding how to set up structures, processes and implement technologies to trace chemicals. It does not comprise specific tools or technologies themselves.</p>
<p>Value chains describe as many steps as possible from virgin material to consumer and beyond (e.g. repair, reuse, recycling).</p>	<p>In its most comprehensive form, traceability describes the concept of passing on information on material composition down to substances level throughout the entire value chain as full material declaration.</p>	

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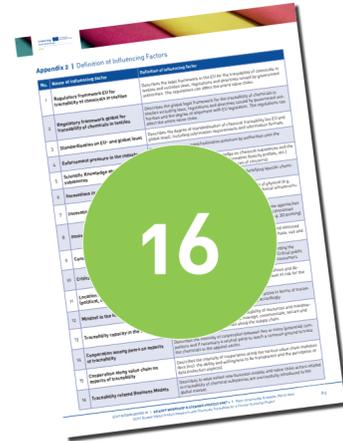
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Traceability of Chemicals in Global Textile Apparel Value Chains in 2040

Future Vision

Scenario Story 1

Empowered by Transparency

The success story of an industry that is on the right way – and is still making money with it

BY ECHT PROJECT CONSORTIUM

IN 2040, CHEMICALS TRACEABILITY IN THE GLOBAL TEXTILE APPAREL VALUE CHAIN IS FULLY IN PLACE. This is possible thanks to the Digital Product Passport (DPP) that has been introduced globally and expands beyond the use phase of textile apparel. Reliable data on chemicals in products and processes is now recognised as an important aspect of business models in all value chains. Accordingly, the textile apparel value chains have made significant progress towards a non-toxic, climate-neutral, resource-preserving circular textile apparel economy.

SOMEONE HAS TO MAKE A START

The starting point for this transformation was an active, critical public: concerned citizens, supported by NGOs, were increasingly informed about the dangers of hazardous chemicals for humans and nature and questioned the safety of textile apparel products they currently bought and used. 2026 marked the turning point and led in subsequent years to a continuous shift in consumer behaviour that demanded more substantiated information and, as a result, significantly extended the use phase of their textile apparel products.

At the same time, EU regulations on traceability and transparency were tightened, which include specific obligations to report substances in

products and processes. Sanctions were imposed for non-compliance. Due to the globalisation of markets and, above all, the work in several projects and initiatives (e.g. UNEP, ZDHC), there has been a corresponding increase in harmonisation of other legal frameworks worldwide, which use EU regulations as a model.

In the EU in particular, strategies such as the “Green Deal” and its associated actions plans (regulations, directives, etc.) were largely enforced by national administrations, while public authorities cooperated effectively, creating significant pressure – and reassurance – on industry actors, who gradually changed their mindset and ensured greater transparency and a level playing field. A growing consumer awareness for more sustainable consumption, which enables corresponding business models, has clearly supported this. As a result, both the textile and chemical industries as well as related industry actors invested substantially in traceability capacities (both human resources and infrastructure).

STEPS ALONG THE WAY

Against the background of this development, new structures for acquisition and dissemination of scientific knowledge of chemical substances



(including toxicity profiles) were created with the support of the chemical industry, which led to a significantly higher knowledge output and uptake from academia and industry.

Actual traceability was enabled and realised due to several factors: The first cornerstone were global, industry-wide traceability standards driven by industry actors on issues such as data, information provision, formats and data protection. This has been supported by continuous innovation in traceability technology that eventually had specific requirements which could be applied to efficient development processes. In line with industry demand, an efficient global infrastructure for traceability was created through standardised processes and formats as well as innovations in new business models and services. In practice, this window of opportunity was utilised by first movers who had prepared their value chains accordingly (data readiness). Industry associations and cooperations such as ZDHC supported the distribution of these best practices and the establishment of industry-wide rules that recognized the overall benefits of cooperation both within value chains and among peers.

THE GUIDE TO SUCCESS

The chemical industry was involved in every step of this process and was included in a feedback loop of information provision and product demand. The chemical industry actors that provided sufficient information about their chemical products, while ensuring high quality of data, had a market advantage as the textile industry depended on access to this information. A key to this system was the global introduction of the Digital Product Passport (DPP), which is both a physical (tracking technology) and a non-physical entity that expands beyond the use phase.

Finally, the global business ecosystem of chemical and textile companies has recognised traceability as a driving force for both financial success and environmental protection. Greater transparency enabled fairer markets and encouraged the trend towards more globally balanced location factors. While legislation initially was one of the primary drivers, the process has evolved naturally involving more and more stakeholders. This success story is not an end in itself, but continues to serve as a driver for all in the textile apparel value chains and as an inspiration for neighbouring sectors. Because in the end, the goal is a truly circular economy.

ECHT



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INFLUENCING FACTORS

Traceability of Chemicals in Global Textile Apparel Value Chains in 2040

HOW TO GET THERE...

Future Vision

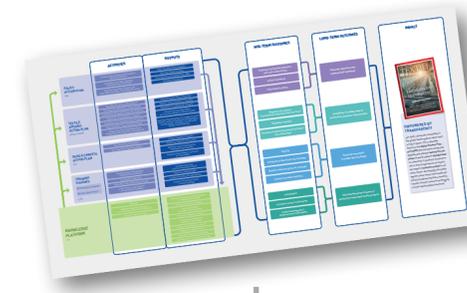
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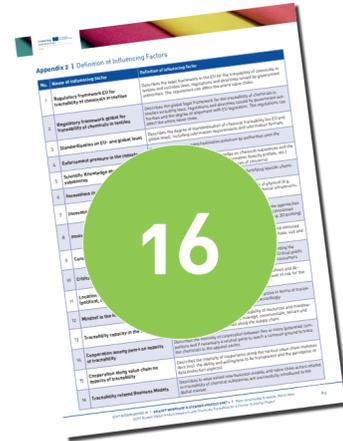
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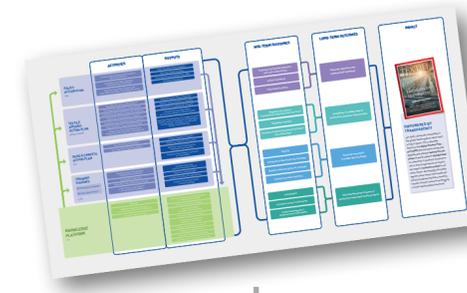
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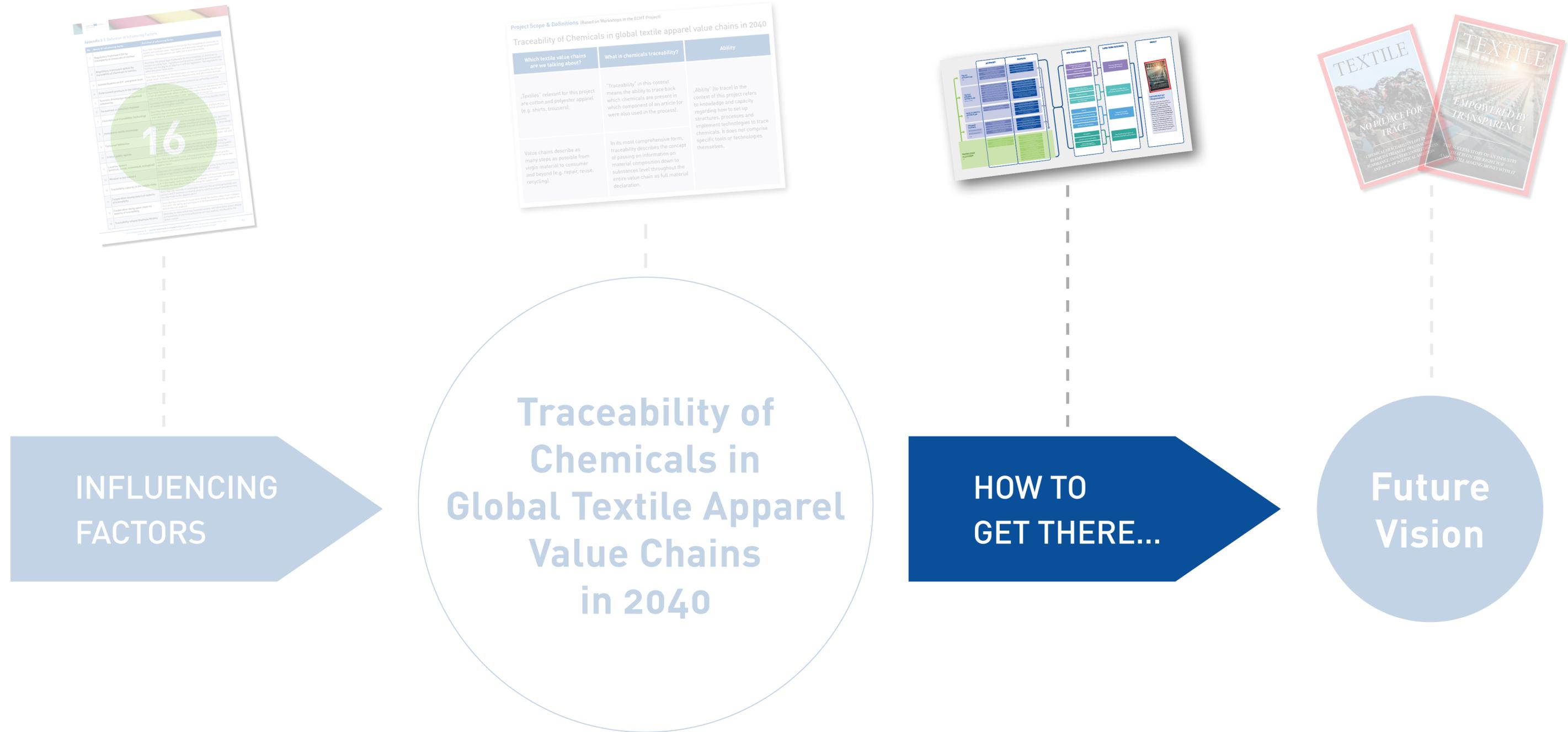
HOW TO GET THERE...

Future Vision

[▶ https://echt.nweurope.eu/outcomes](https://echt.nweurope.eu/outcomes)



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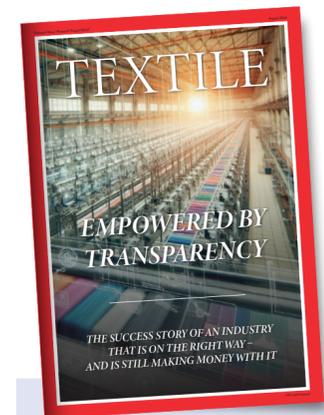
2.1. Theory of Change



THEORY OF CHANGE: TRACEABILITY OF CHEMICALS IN TEXTILE VALUE CHAINS IN 2040

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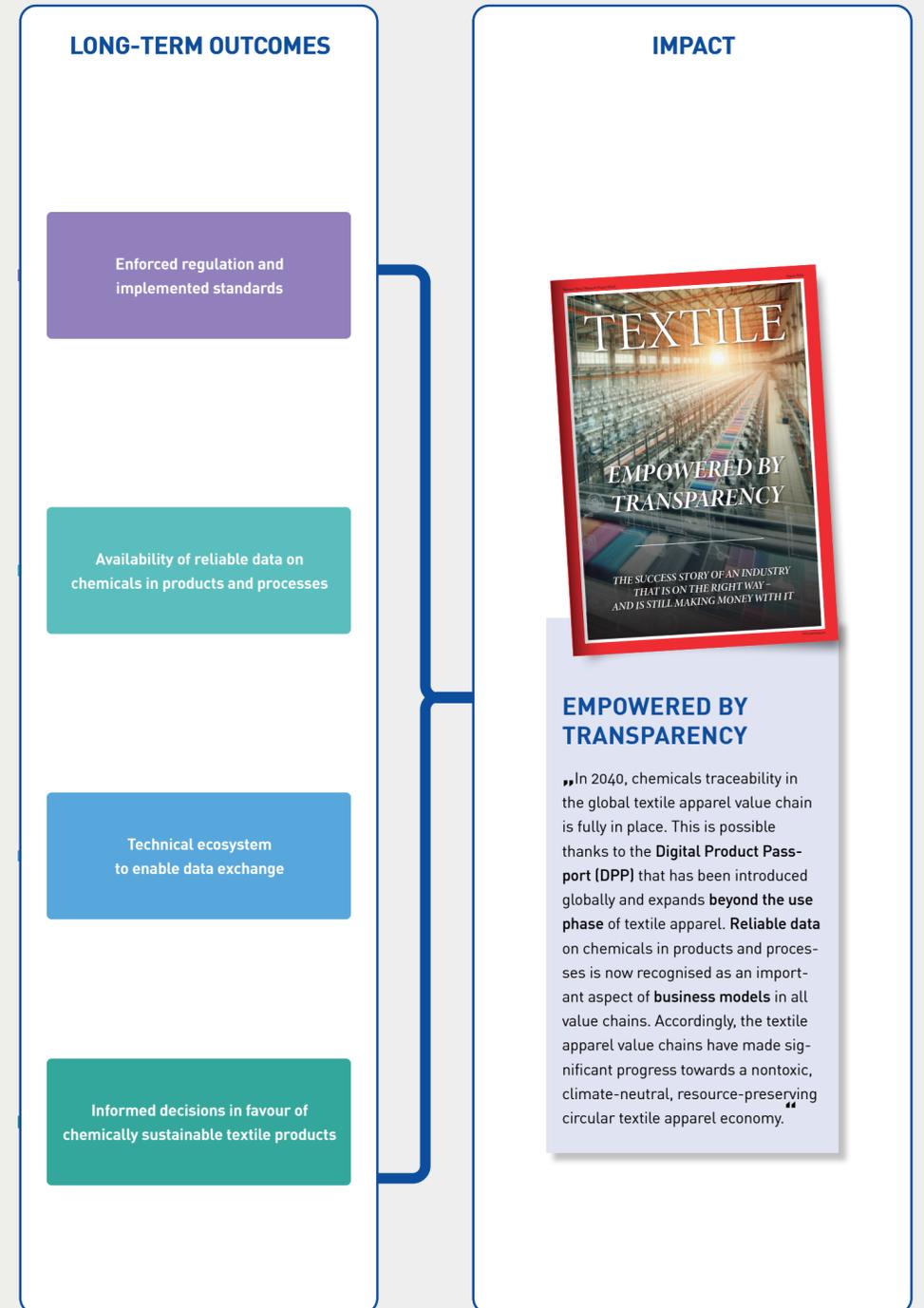
IMPACT



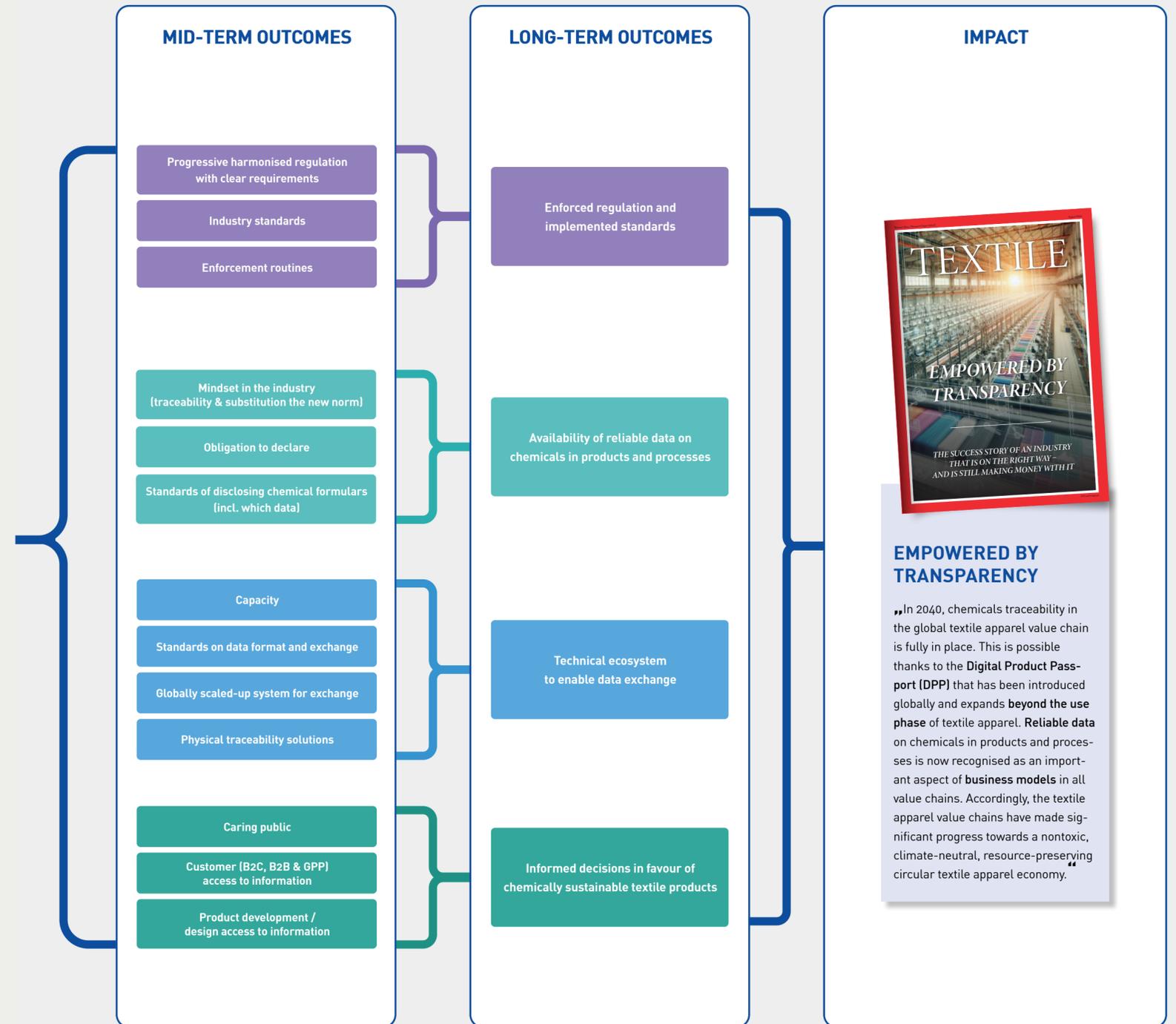
EMPOWERED BY TRANSPARENCY

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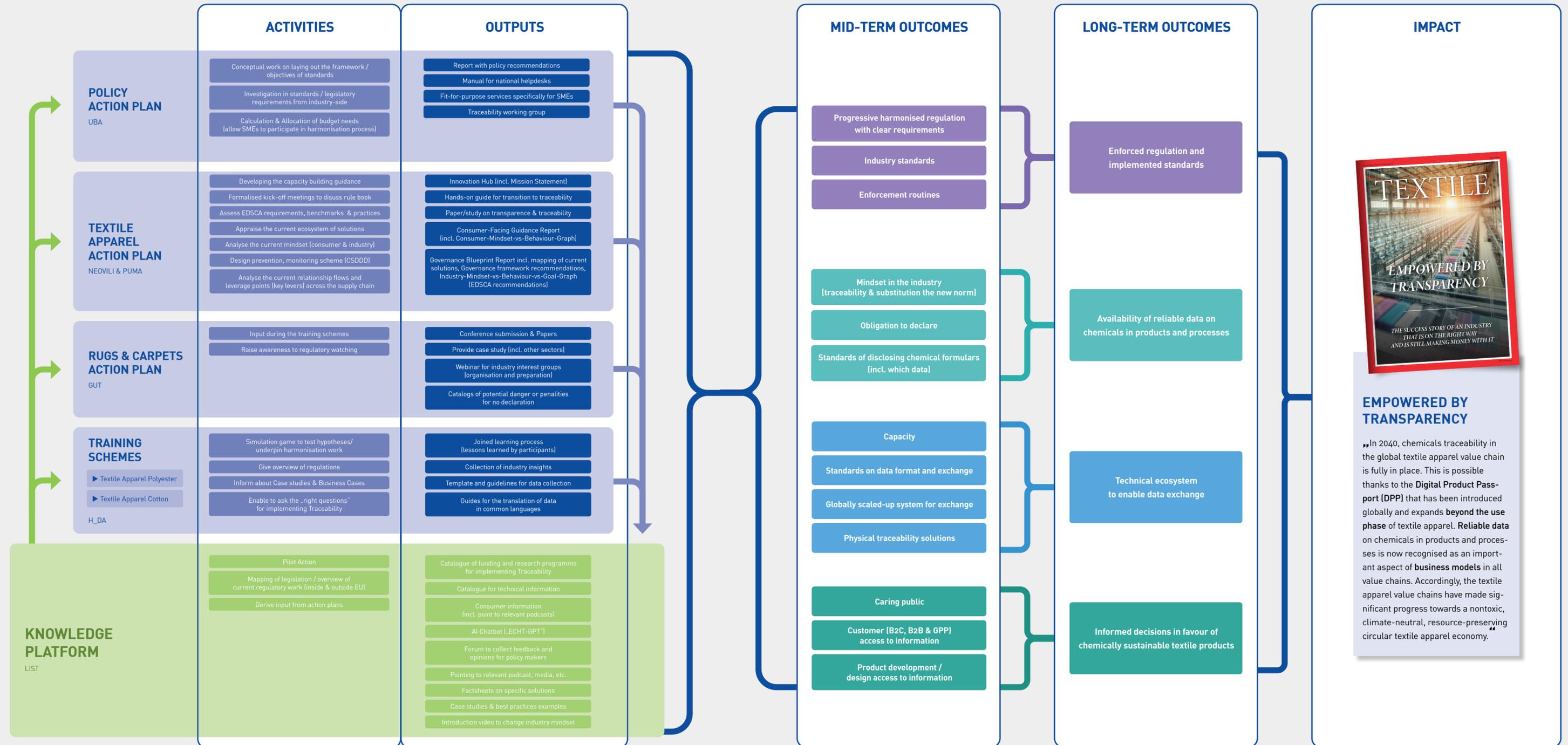
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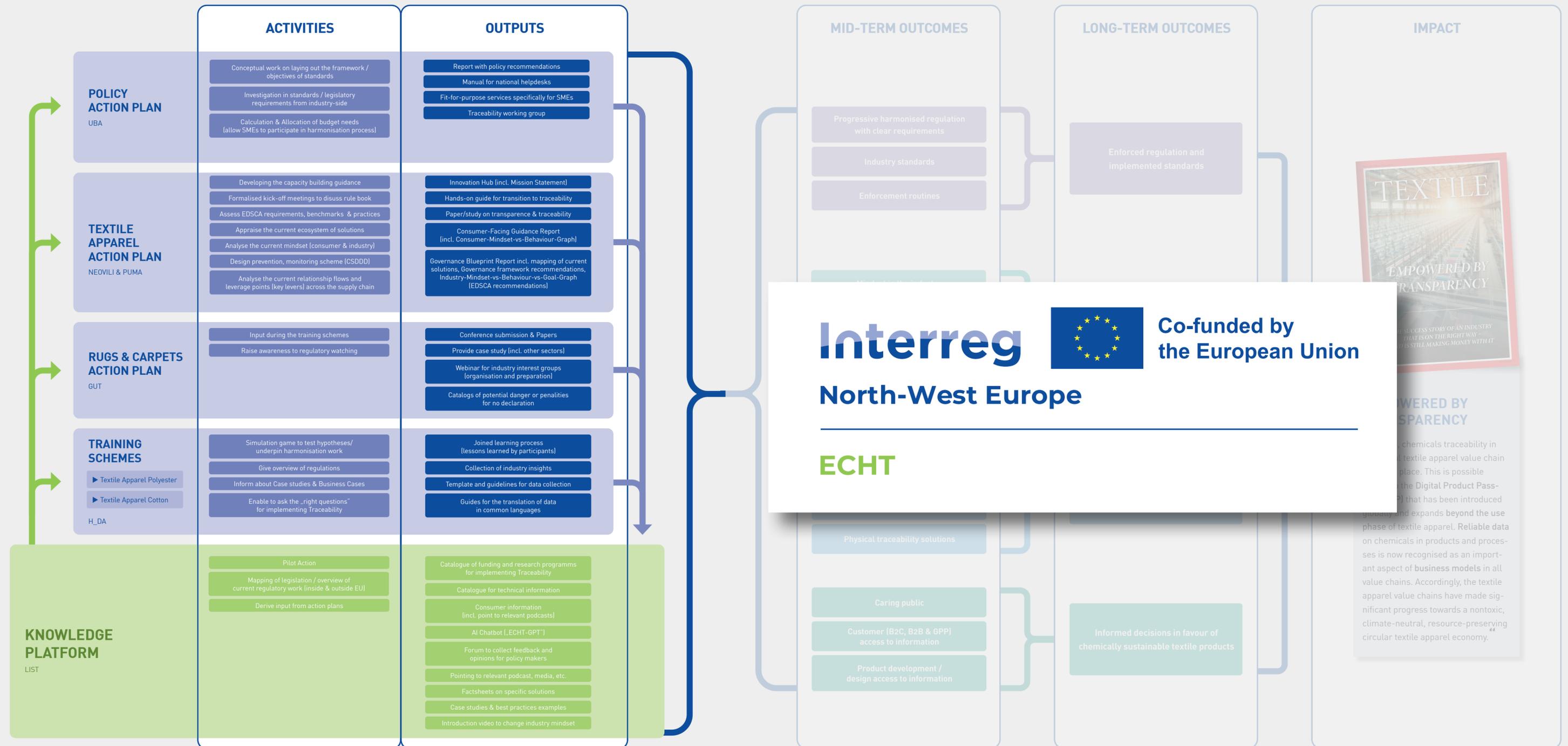
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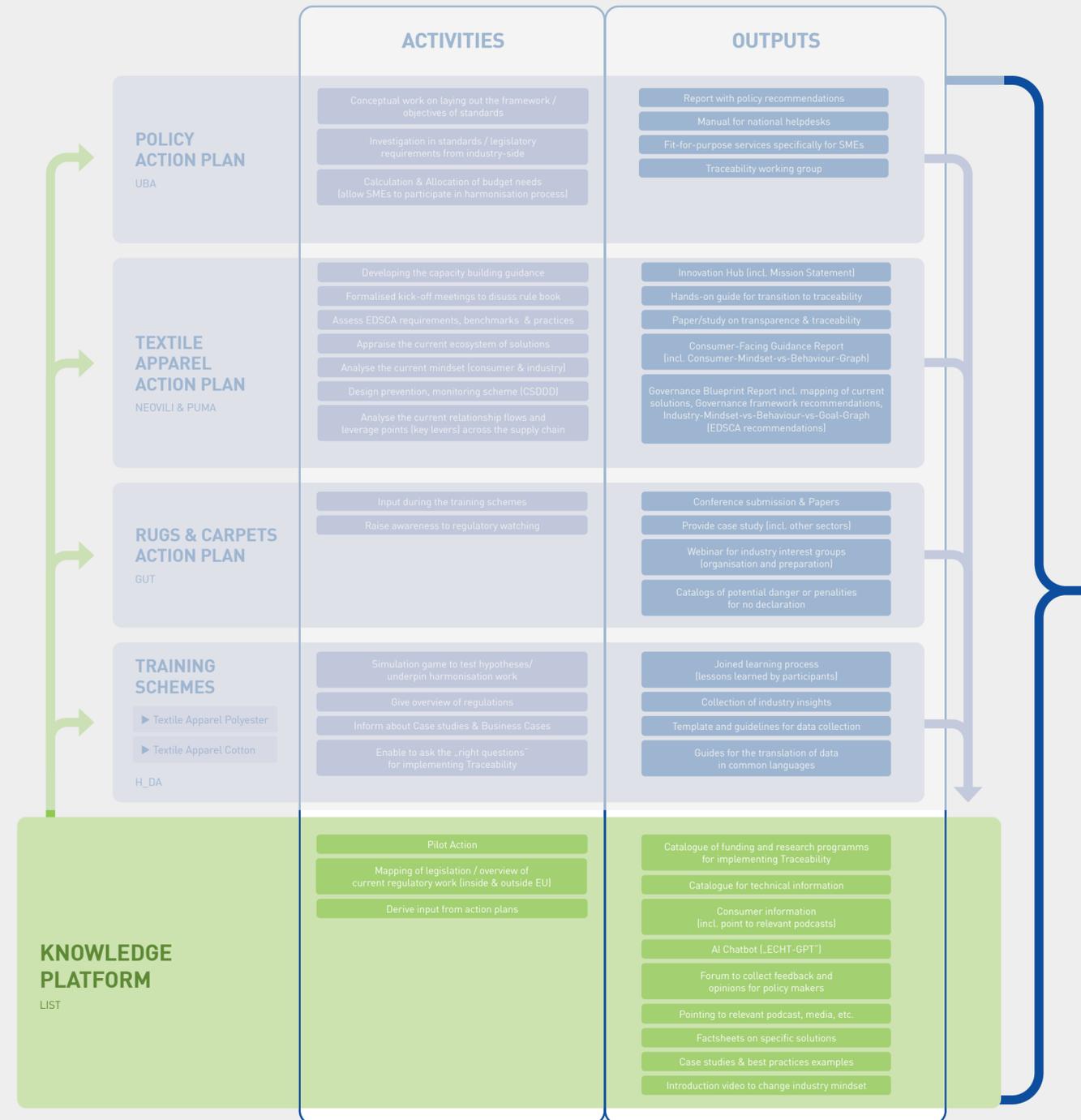




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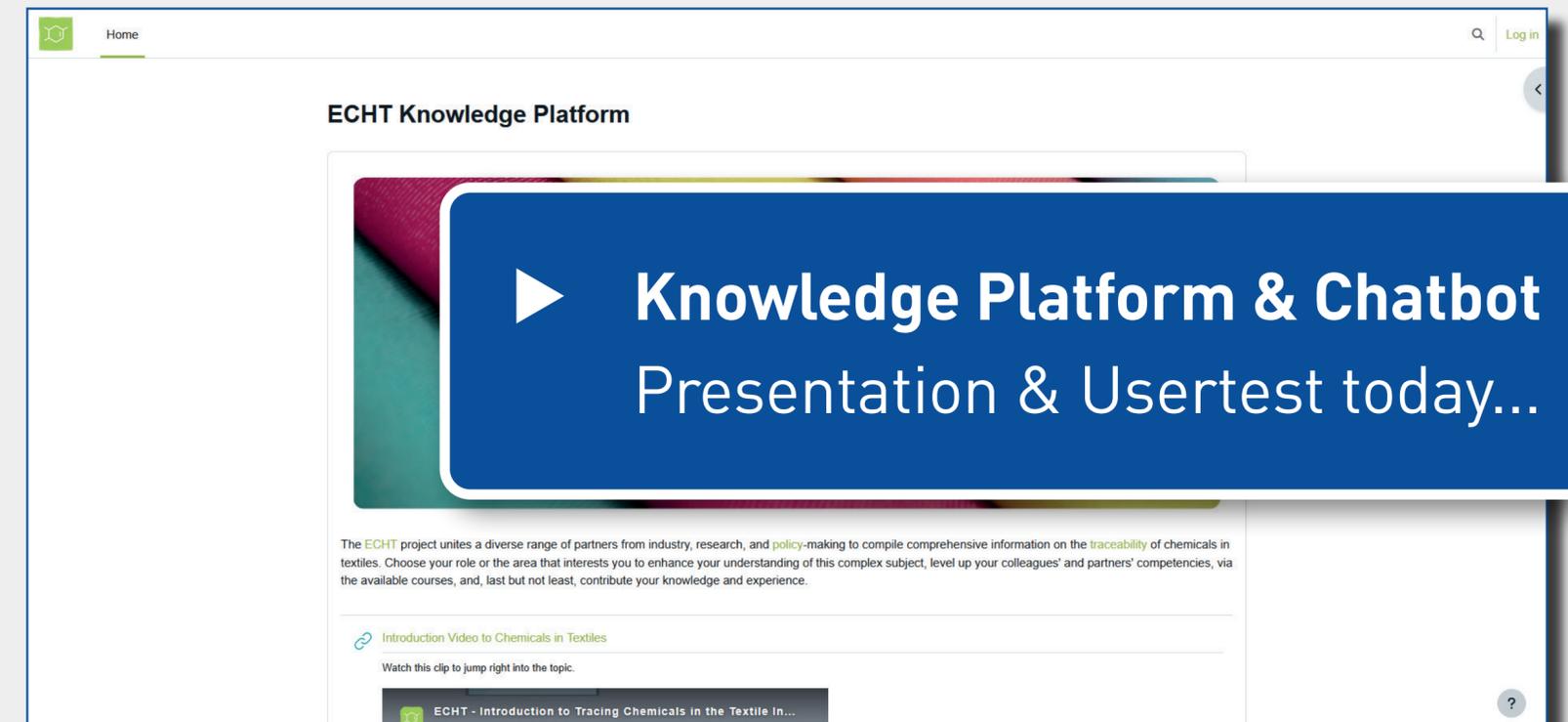
Latest Outputs from the Project



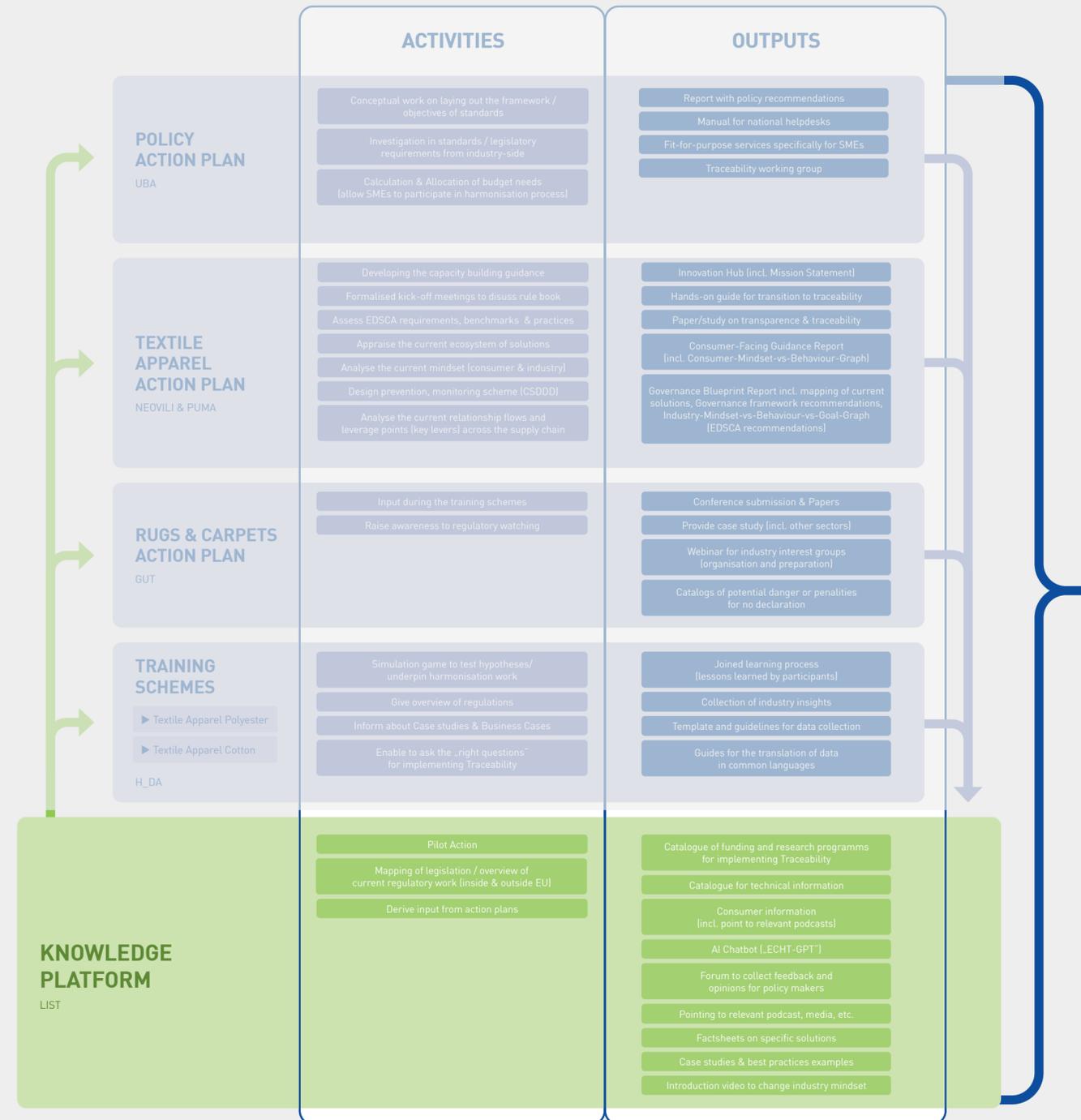
Knowledge Platform

Lead: LIST / LMDDC

- ▶ Repository Website
- ▶ E-Learning / Moodle Course
- ▶ AI Chat Bot



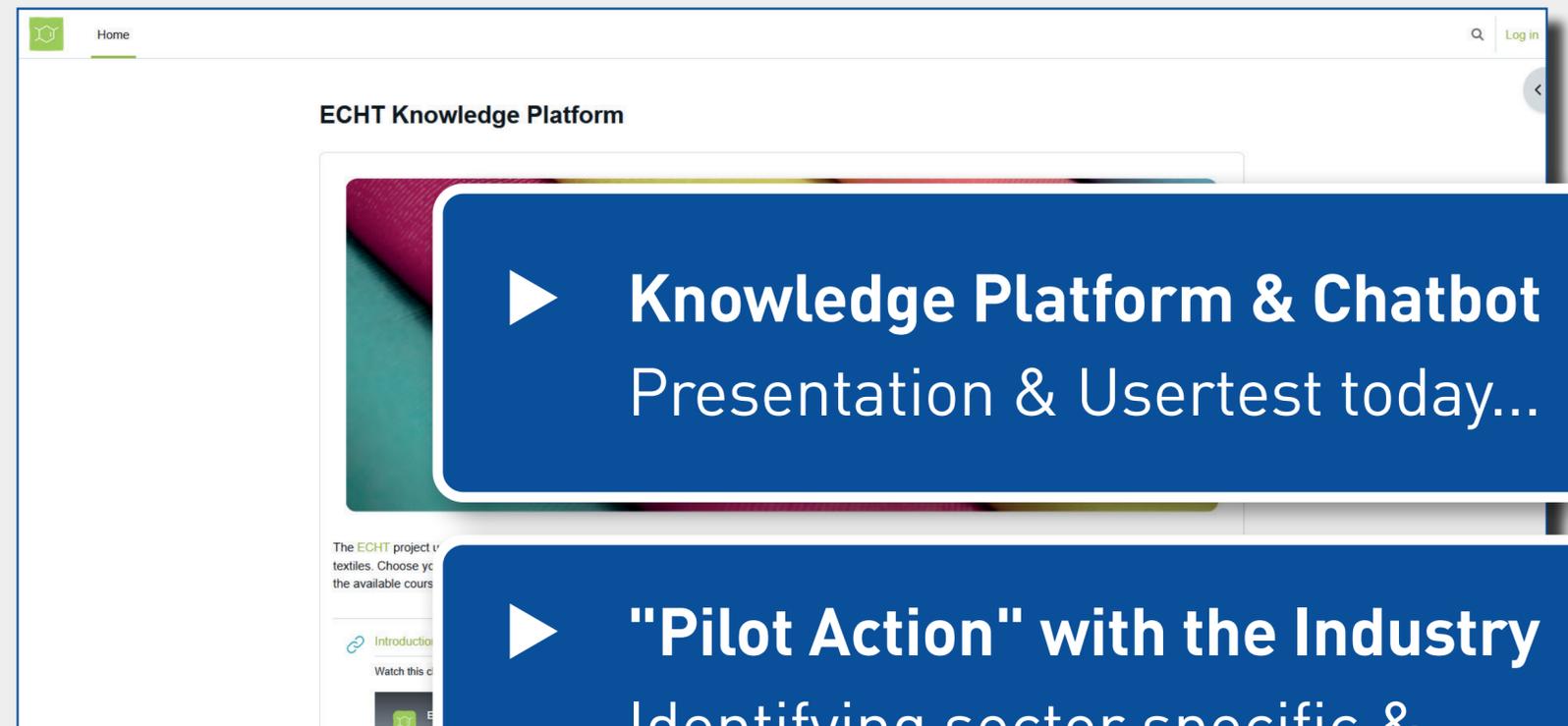
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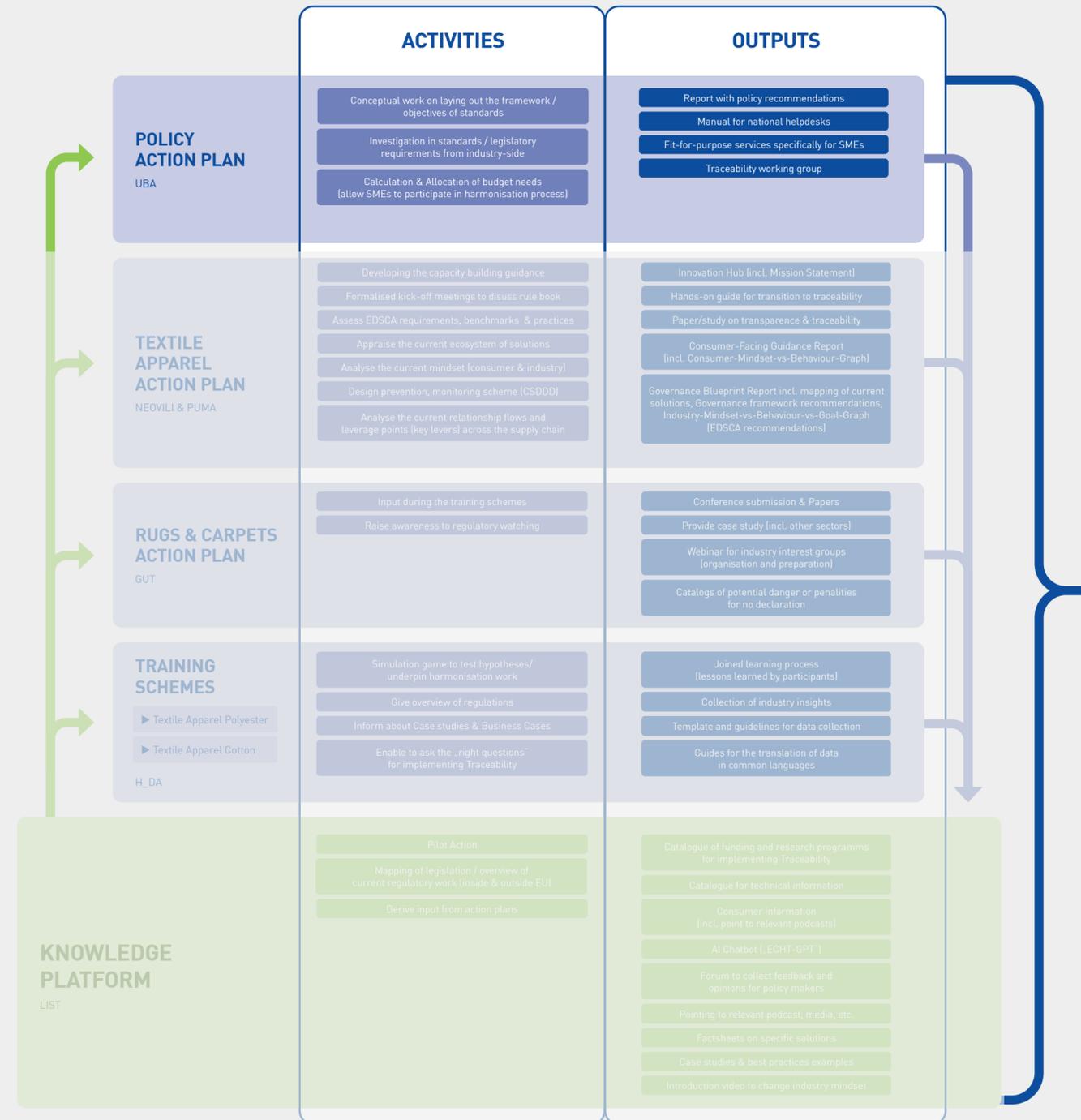
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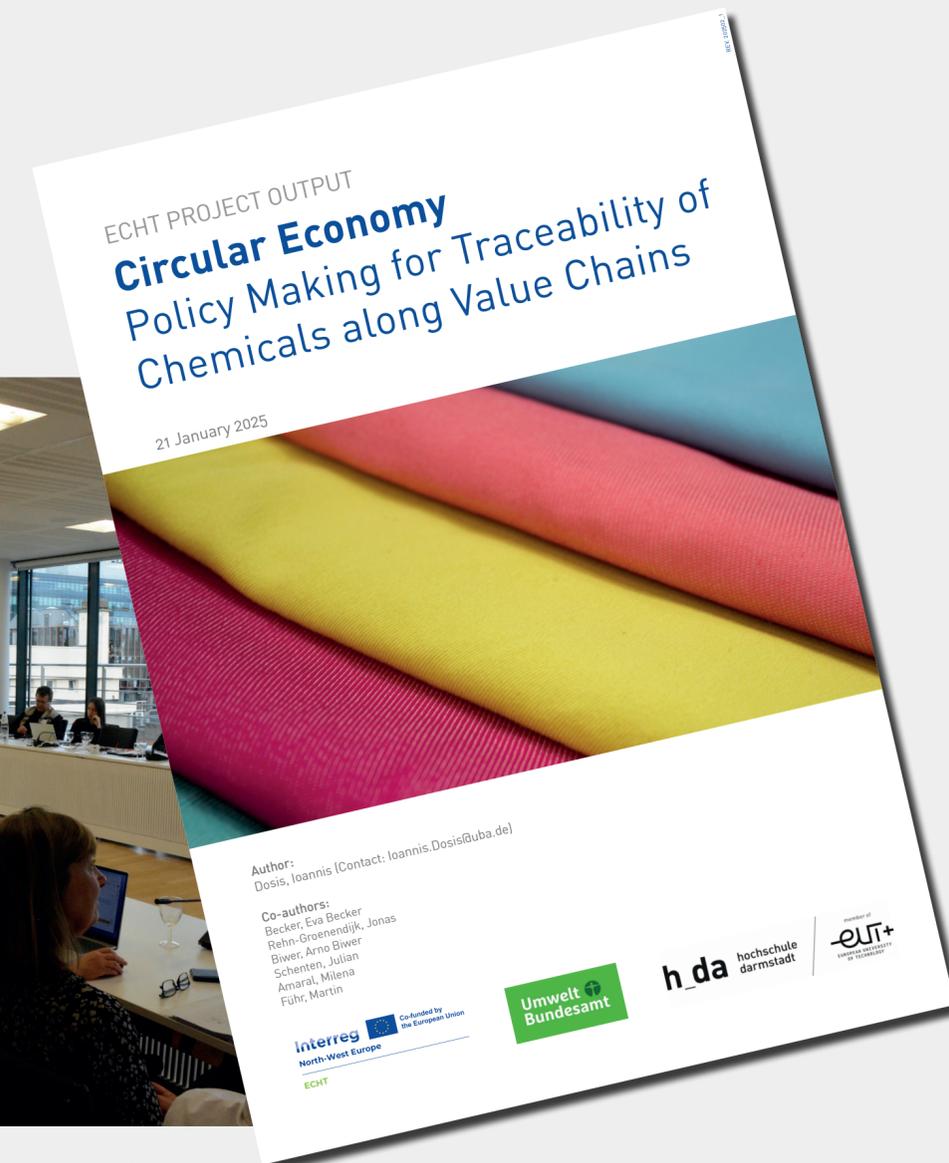
▶ **"Pilot Action" with the Industry**
 Identifying sector specific & cross-sector content for KP

Latest Outputs from the Project

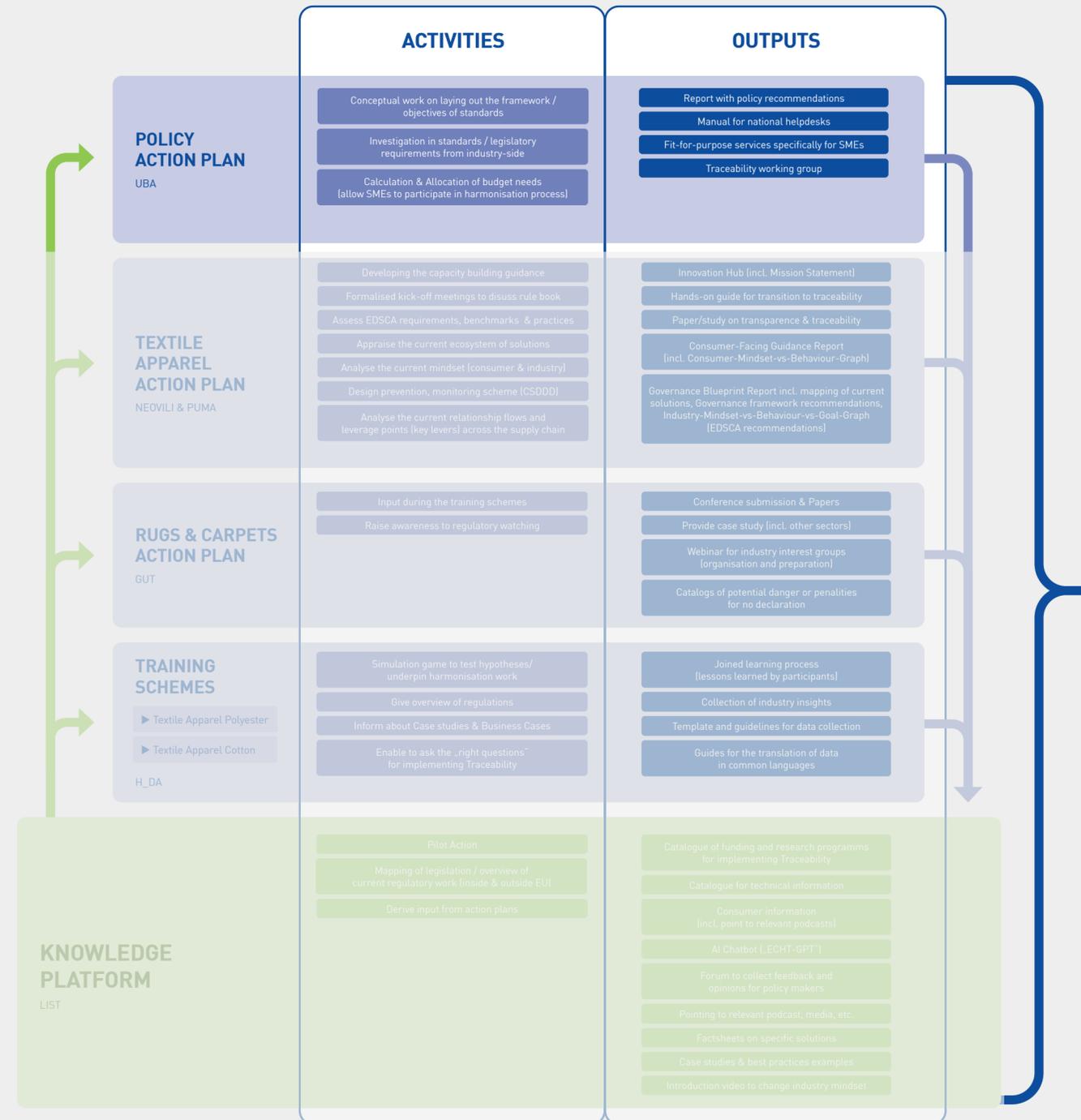


Policy Workshop, Brussels (15.10.2024)

Lead: German Environmental Agency (UBA)



Latest Outputs from the Project



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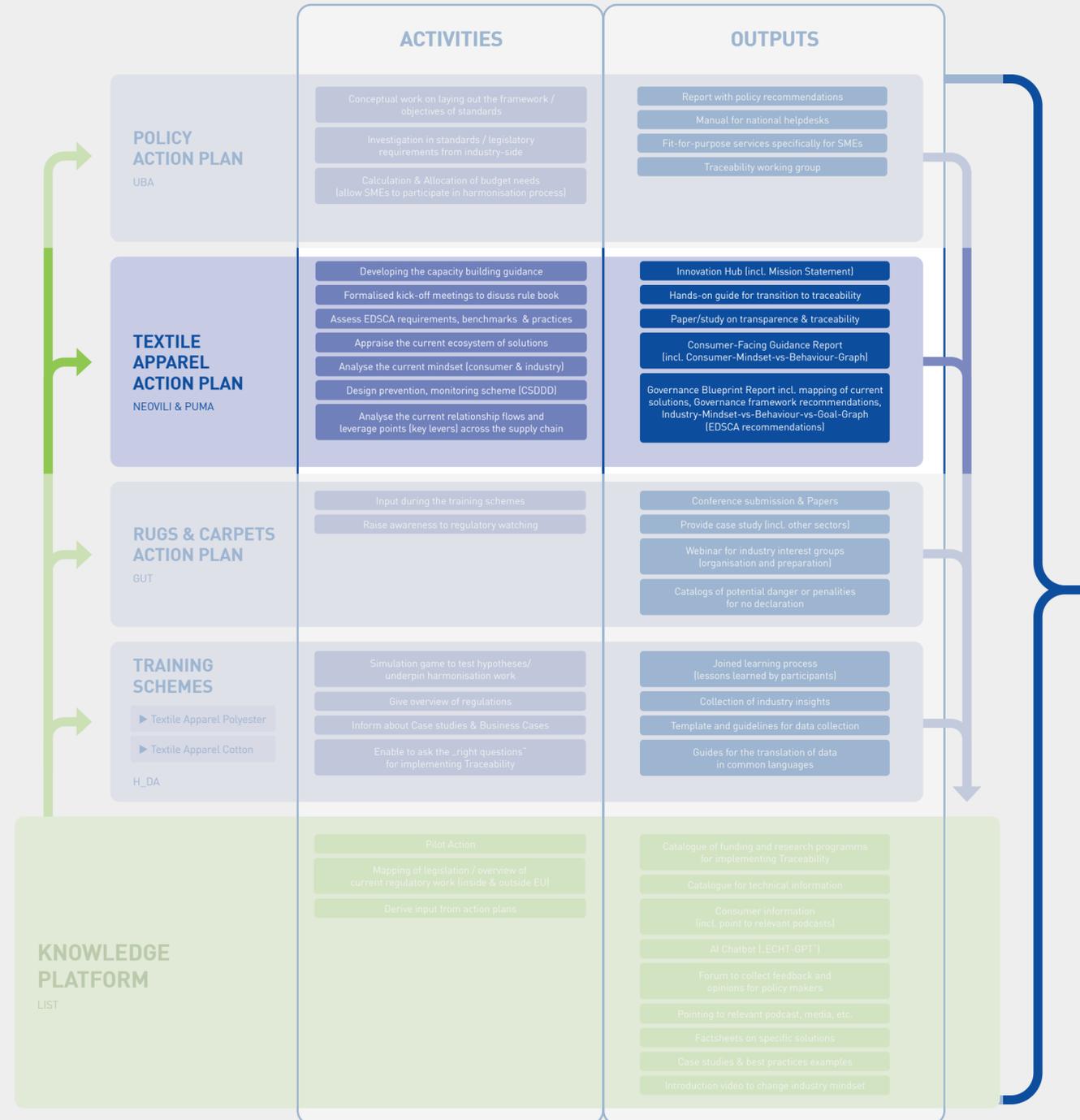
Lead: German Environmental Agency (UBA)



▶ **Policy Action Plan**
 World Café today...



Latest Outputs from the Project

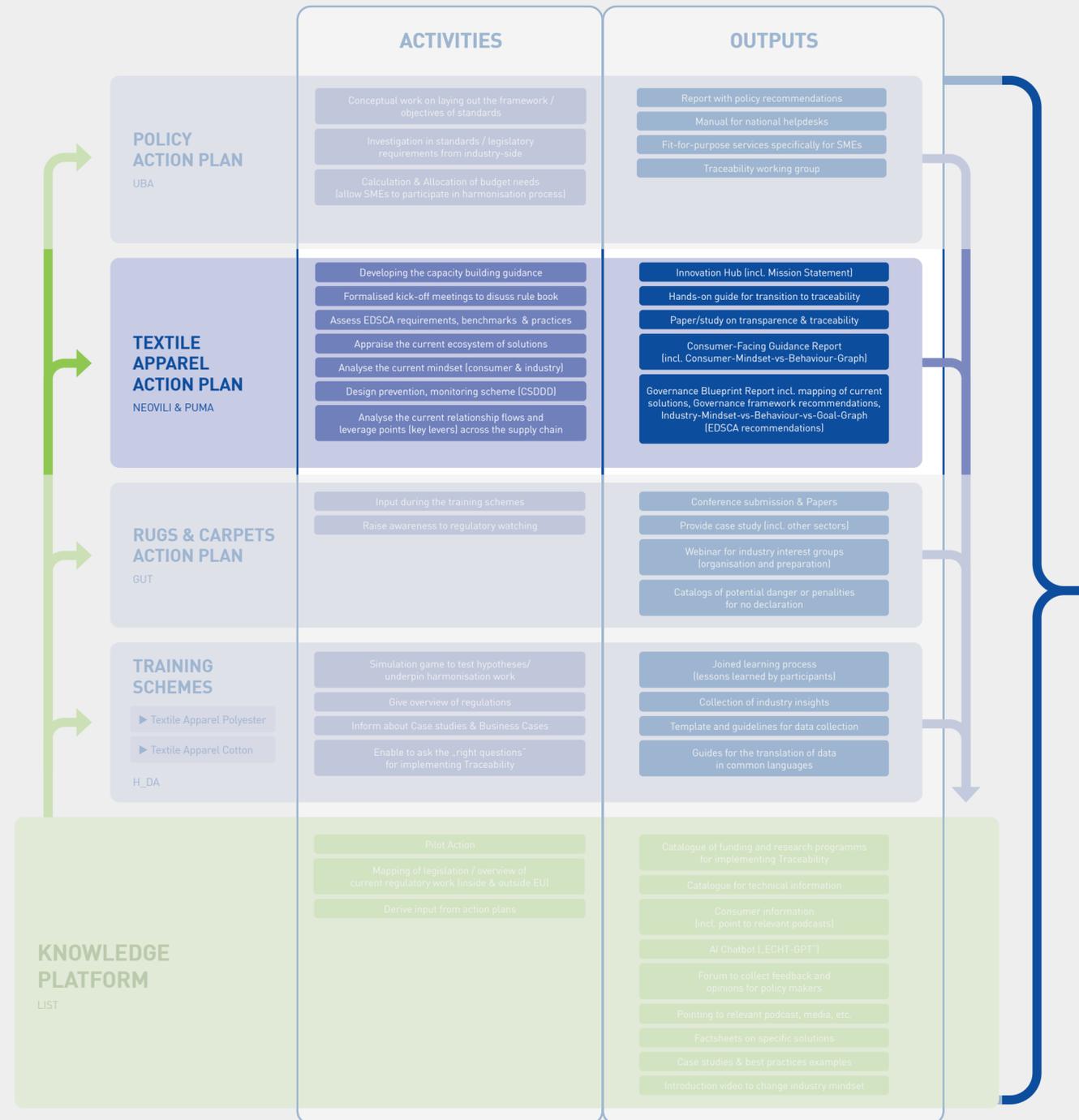


Textile Apparel Action Plan

Lead: NEOVILI, Milena Amaral



Latest Outputs from the Project



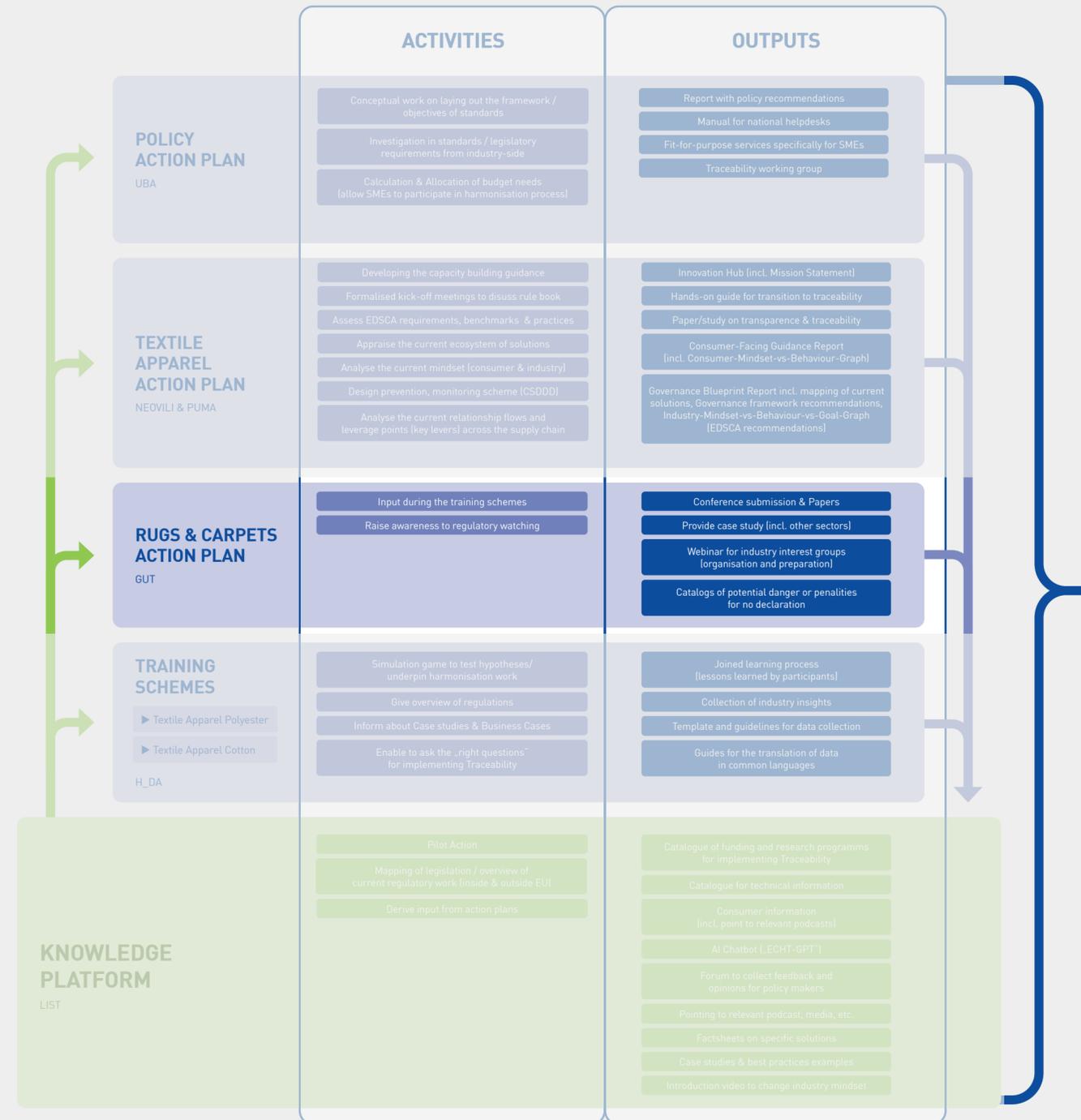
Textile Apparel Action Plan

Lead: NEOVILI, Milena Amaral



▶ **Traceability Hub**
Introduction today...

Latest Outputs from the Project

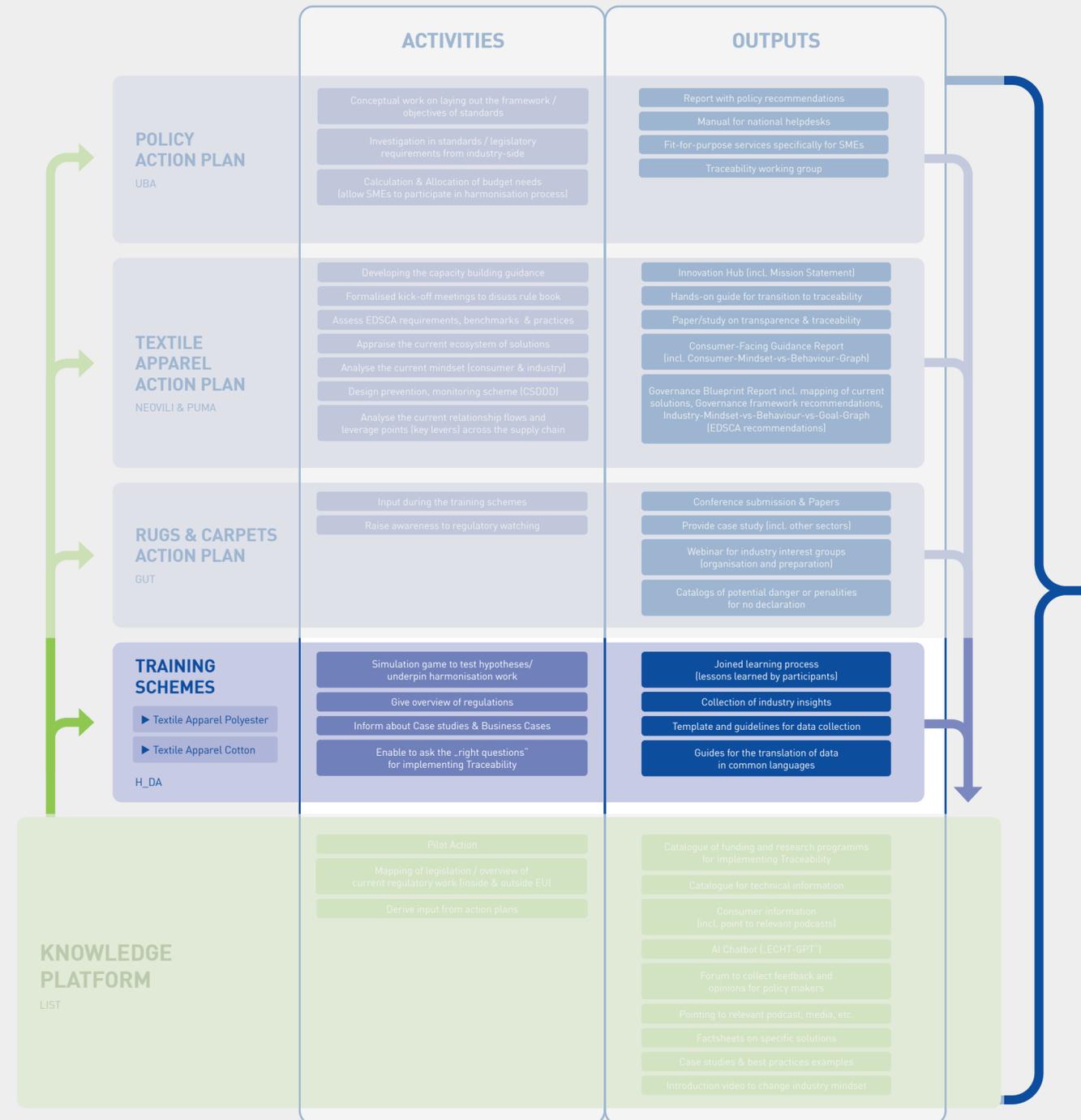


Rugs & Carpets Action Plan

Lead: GUT, Hans-Peter Breuer

- ▶ Currently worked on in working group
- ▶ Following-up on insights of their "Prodis Product" Passport

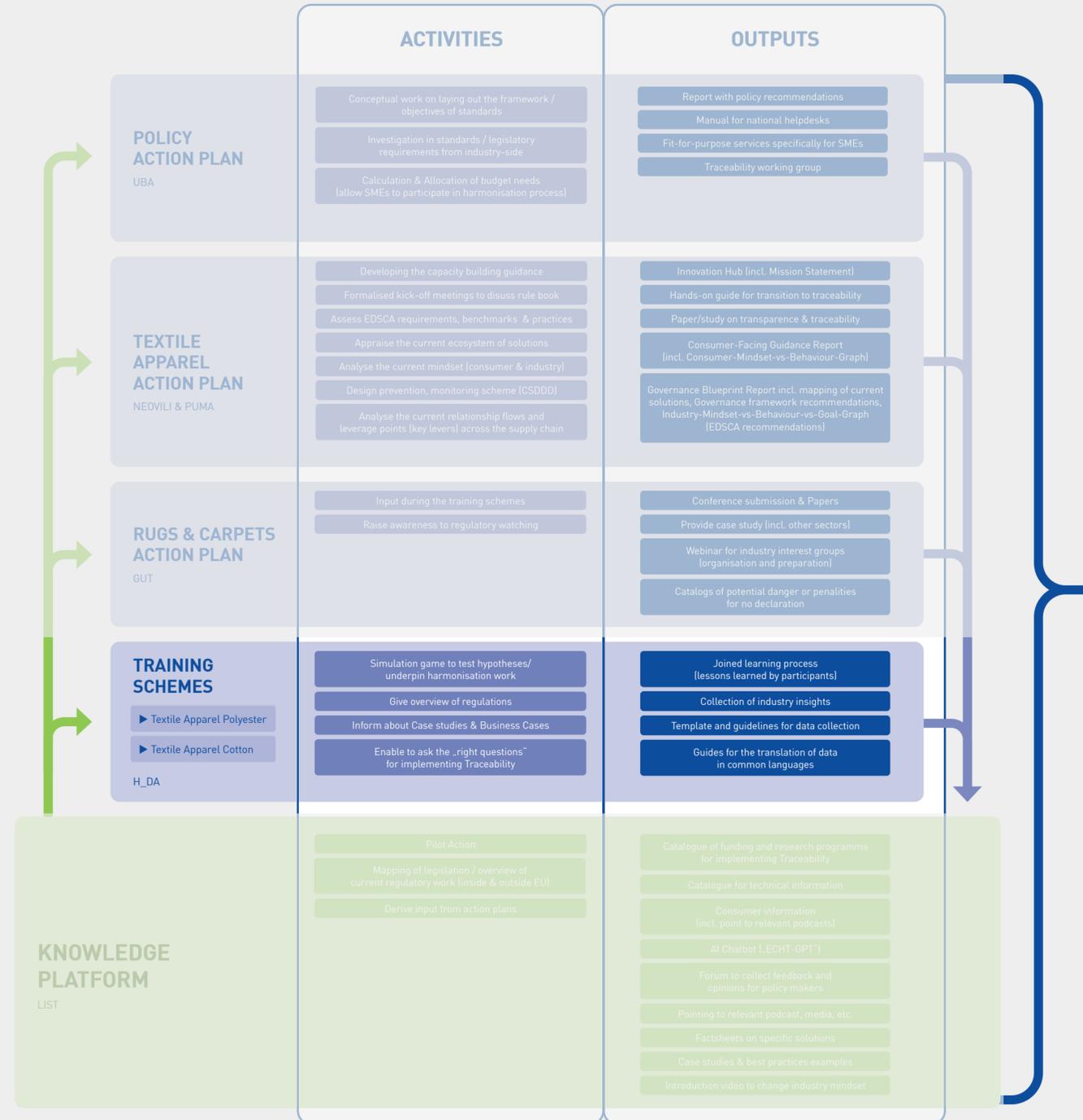
Latest Outputs from the Project



Capacity Building Workshop Series



Latest Outputs from the Project



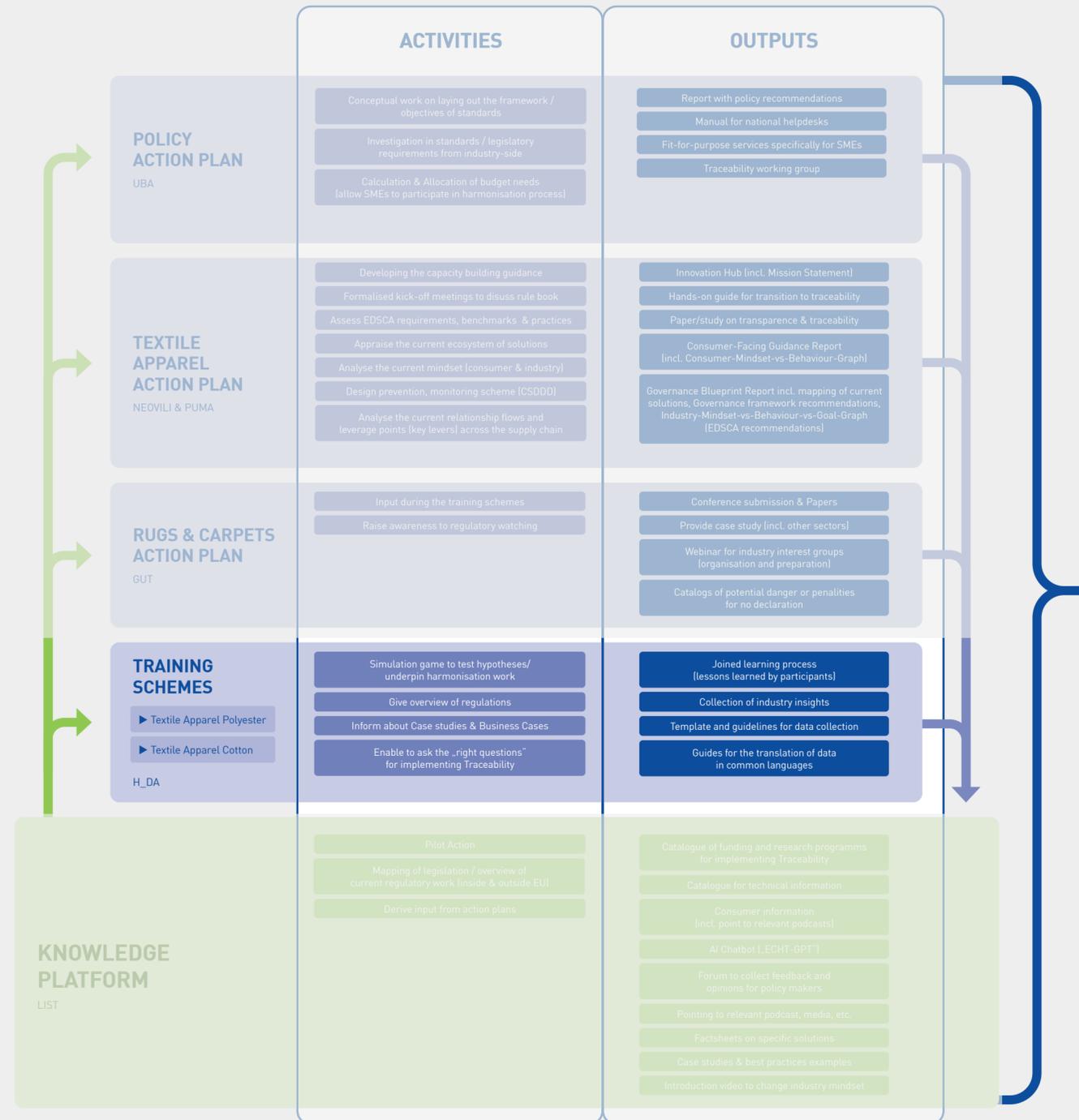
Chemicals Traceability Canvas (i.a. tested by industry partners)

The image displays a stack of four 'Chemicals Traceability Canvas' documents, each with a different focus area:

- FUTURE OUTLOOK | STRATEGIES & PROCESSES**: Focuses on people involved, data management, and technology.
- STATUS-QUO | CURRENT PRACTICE & IMPLEMENTATION GAPS**: Focuses on current practices and input of data.
- STATUS-QUO | OBJECTIVES & VISION**: Focuses on primary objectives and chemicals traceability KPIs.
- STATUS-QUO | STARTING POINTS**: Focuses on about, product, and legislation.

Overlaid on the right is a large 'Chemicals Traceability Canvas' workbook cover. The cover features the text 'ECHT - TOOLS FOR TRACEABILITY' and 'Chemicals Traceability Canvas' in large blue letters. At the bottom, it includes the logos for 'Interreg North-West Europe' and 'Co-funded by the European Union'.

Latest Outputs from the Project



Simulation Game

Co-developed with and tested by industry



TRACE-IT | Game Play

YOUR STORY

You are a **GARMENT MANUFACTURER** based in Turkey specialised in casual wear garment. You manufacture casual and functional apparel from fabric. You also have internal facilities to create special garment appearance like washed garment. You are a **medium** enterprise supplying to **BRAND / RETAILER**. Your materials are sourced from fabric manufacturers and sometimes trader or agent. The supply chain is moderately complex with materials supplied Turkey and Asia. Your suppliers sometimes work with subcontractors.

in Materials:
 on (Recycled & Virgin)
 ester (Recycled & Virgin)

ow the AFIRM RSL and ZDHC MRSR program
 nical management. Cost of product and
 esting are included in the manufacturing
 charge back to brand & retailer. You
 moderately in chemical management to
 clients'

YOU ARE:

PR- & Communication Manager

You are responsible for PR and communication for an innovative sports fashion brand. You develop strategies to make our environmental goals visible - from recycled materials to transparent chemical management. You translate complex content into clear messages for the media, stakeholders and customers, build your brand further and strengthen our position as a pioneer for responsible sports fashion.

work closely together with sustainability management and the legal department. You report directly to the CEO.

Knowledge:
 worried about the complexity of the developments and related questions from consumers and the media.

BRAND & RETAILER



TASK FULFILLMENT SHEET

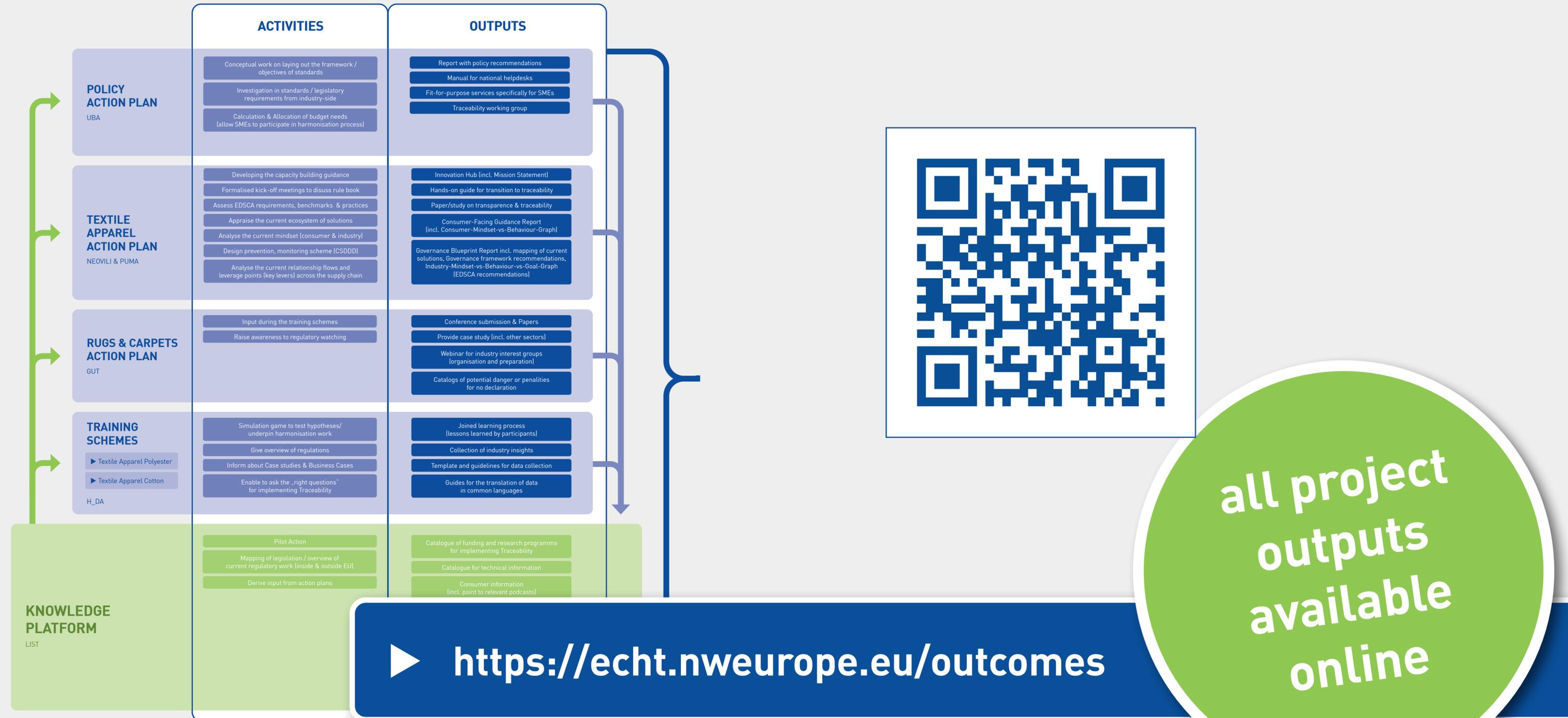
Result:

Person / Role responsible:

Approved by Game Master:
(Game Points Confirmed)



Latest Outputs from the Project



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Techtera Workshop
30.10.2025
ONLINE

Dr. Jonas Rehn-Groenendijk
Jessica Krejci

- ▶ Welcome & Concept
- ▶ Project Scope, Process & Outputs
- ▶ Knowledge Platform & User Test
- ▶ Coffee Break
- ▶ Where to start with traceability
- ▶ "Product Circularity Data Sheet" and "TRUSTEX"
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- ▶ Closing Remarks
- ▶ Networking & Drinks

Coffee



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LUNCH

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► Closing Remarks

Dr. Jonas Rehn-Groenendijk

Darmstadt University of Applied Sciences

Innovation and Transformation Platform for Sustainable Development (itp:ne)

Getting Involved

Try out tools and give us feedback

[HTTPS://ECHT.NWEUROPE.EU/OUTCOMES](https://echt.nweurope.eu/outcomes)



ECHT

Enable Digital Product Passports with Chemicals Traceability for a Circular Economy

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Sustainable Leather Foundation

Umweltdienstleistungen

ECHT

Thank you for your attention!

 <https://echt.nweurope.eu/>

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