

Integrated Programme on Supply Chains

Eliminating Hazardous Chemicals from Supply Chains

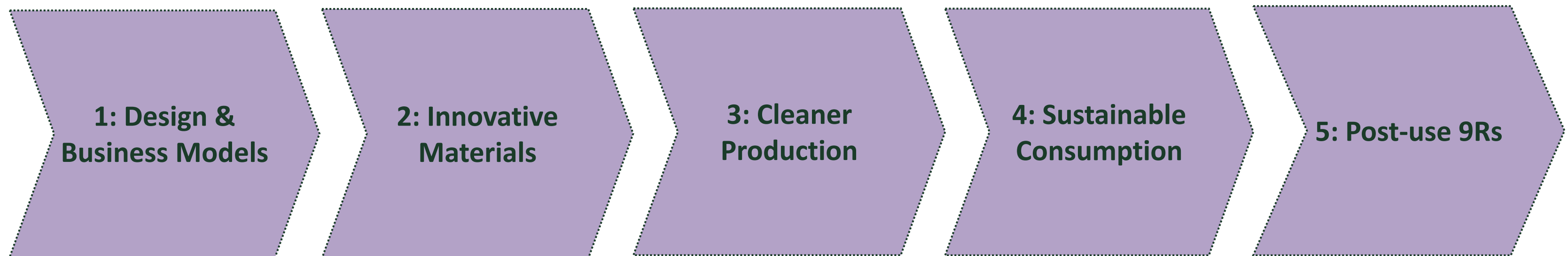
A photograph of a modern building with a green roof, featuring lush vegetation and a clear blue sky. The building has a light-colored facade and a series of white, angular roof sections. The green roof is covered in dense, vibrant green plants and trees. The sky is a clear, bright blue with a few wispy white clouds near the horizon.

Part 1:

Objectives & scope

IP Objectives

Objective: To transition Fashion and Construction supply chains toward green by design and strengthen the enabling environment necessary to support this transformation



Targets



Mitigate **7.9 million** tons of GHG emissions



Improve the lives of **1.5 million people** globally



Reduce and/or avoid **107 gTeQ emissions** of persistent organic pollutants (POPs) into air



Reduce **34,589 tons** of chemicals of global concern and their waste

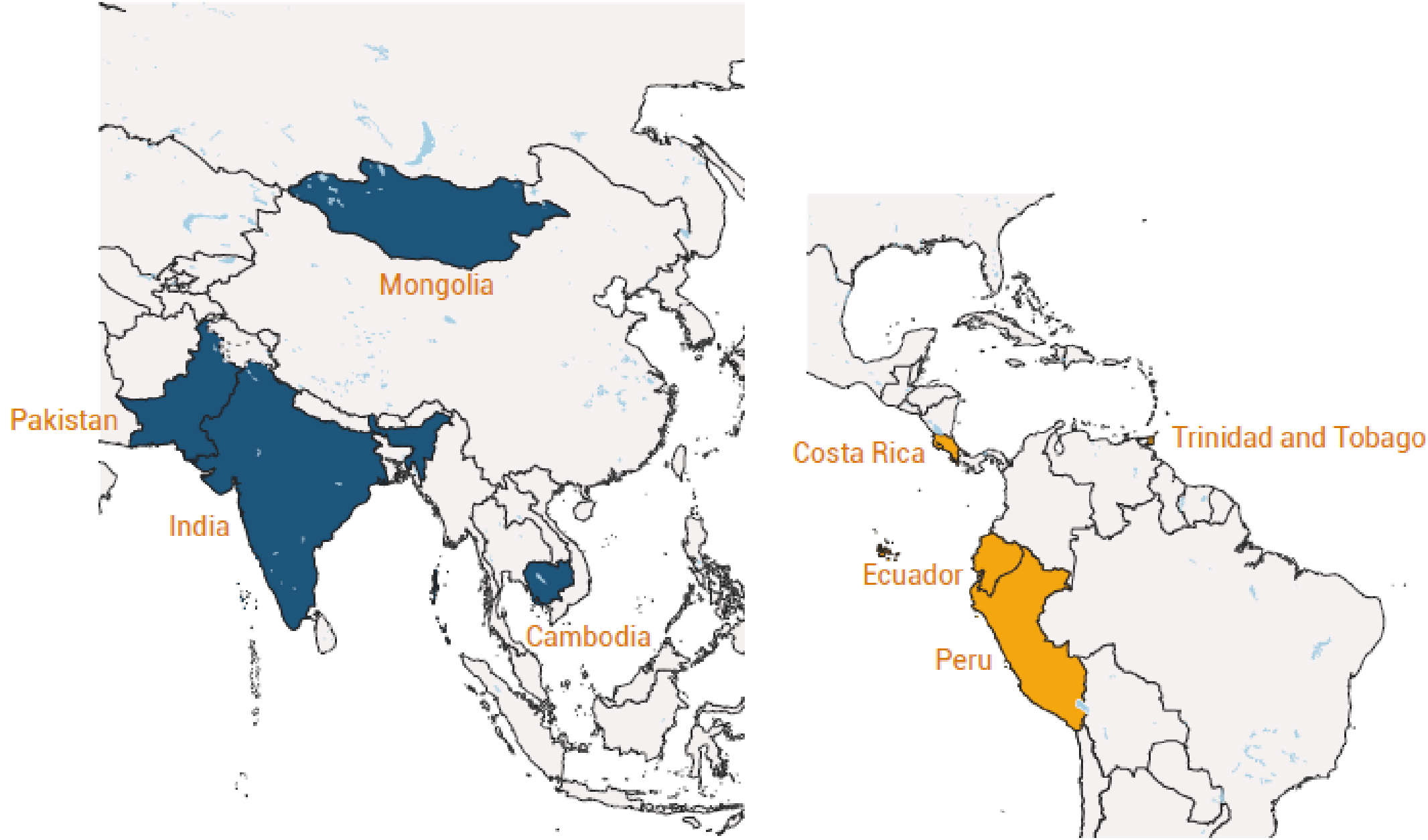


Restore **317,000 hectares** of land and ecosystems



© Pexels/Mikael Blomkvist

Geographical scope – Child Projects



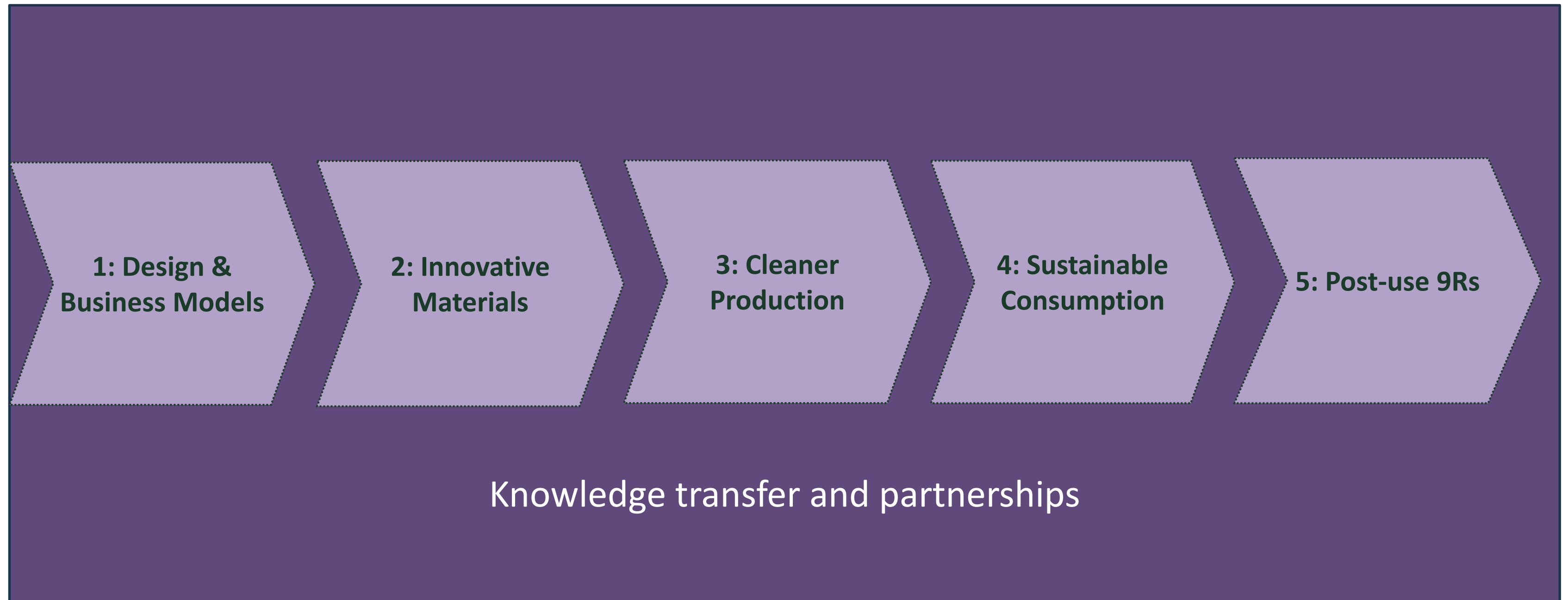
GEF Agency	Country/Regional/Global	Supply Chain	GEF Project Financing
UNEP	Trinidad and Tobago	Fashion	2.6m
UNDP	Peru	Fashion	4.2m
UNIDO	Costa Rica	Construction	4.2m
UNDP	Ecuador	Both	5.6m
UNEP	Cambodia	Both	6m
UNDP	Mongolia	Fashion	3.3m
FAO	Pakistan	Fashion	3.3m
UNIDO	India	Fashion	7.8m
UNEP	Global	Both	8.7m
Total			45.7m



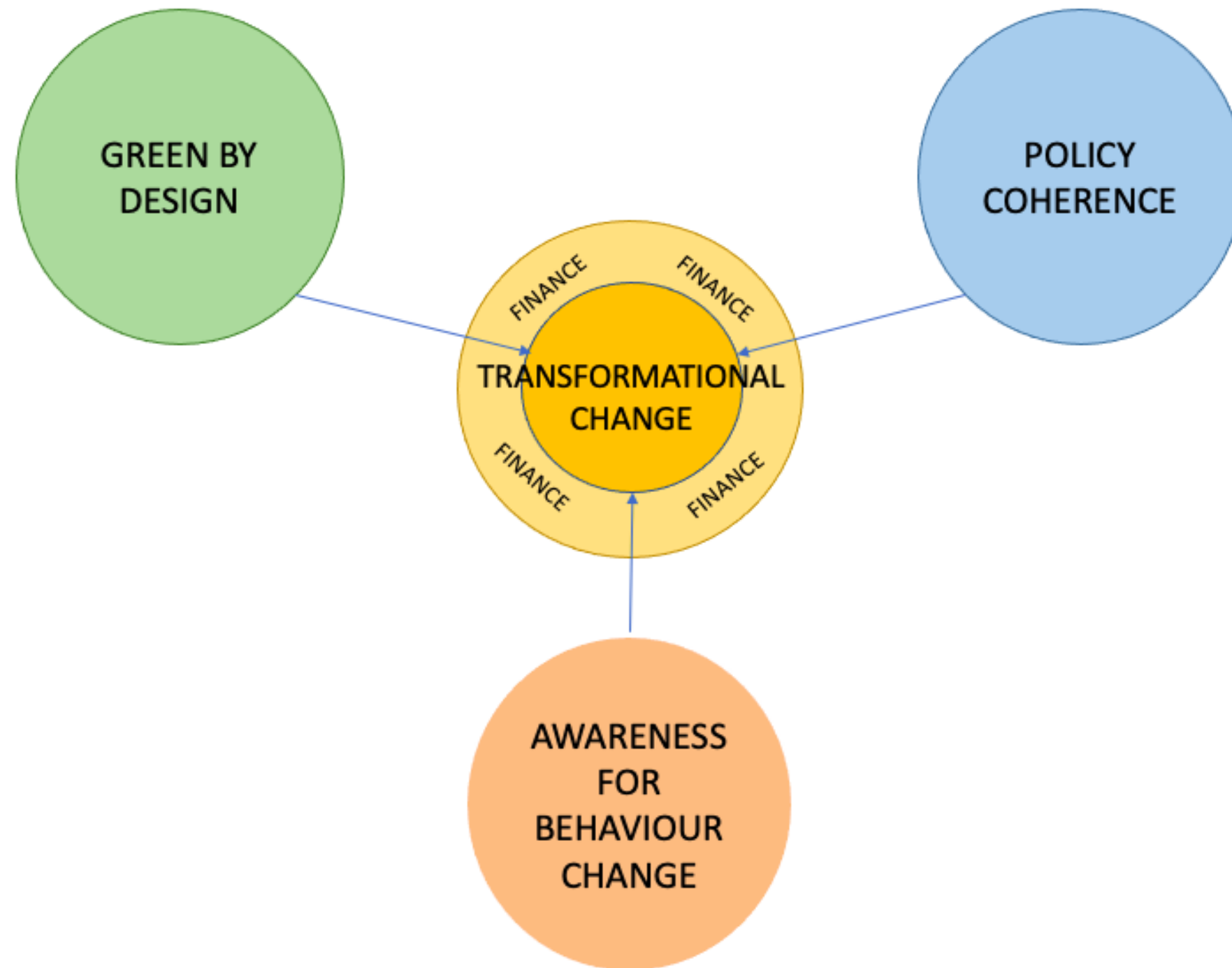
Part 2:

Programme Design

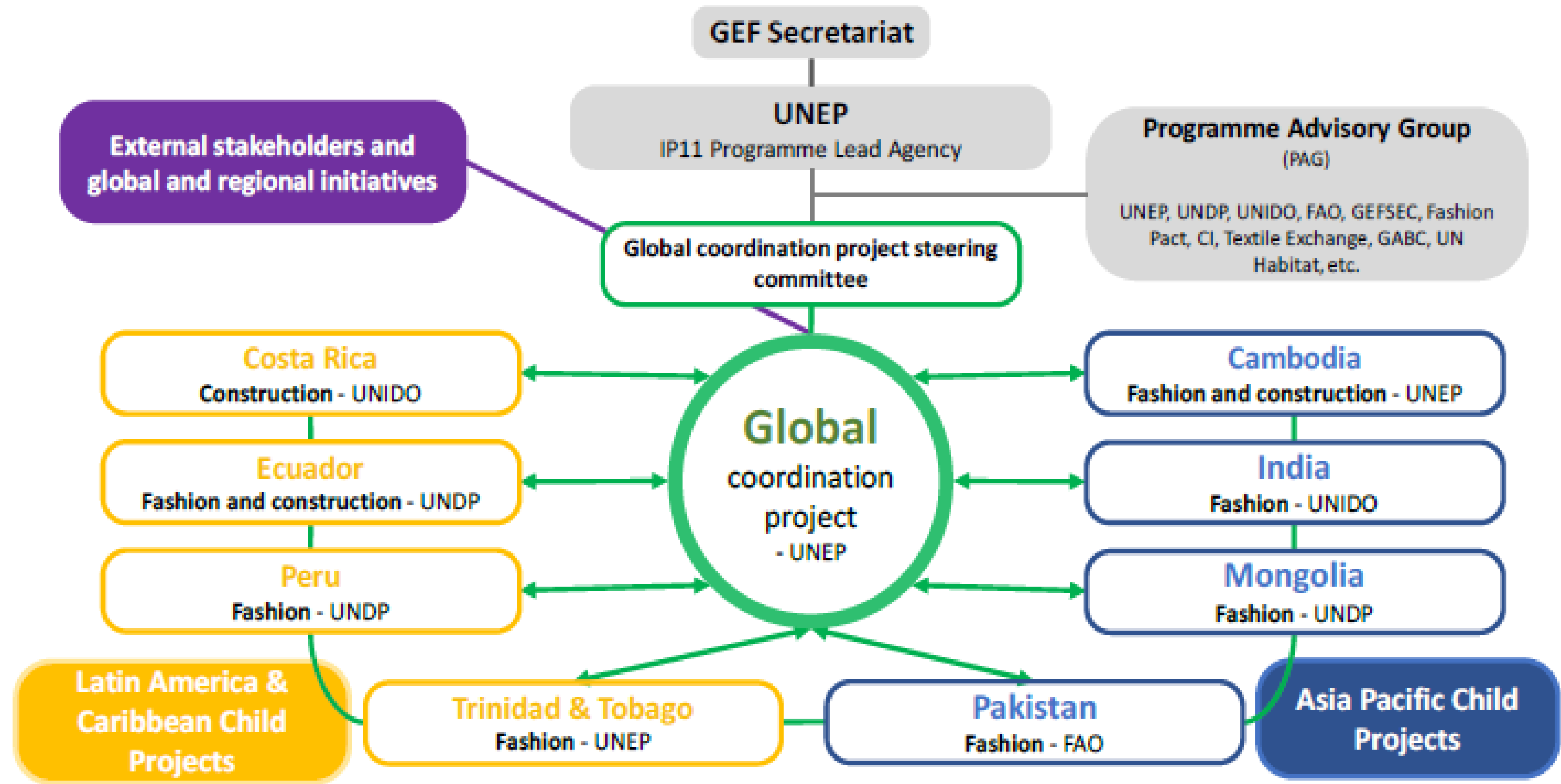
IP Structure



IP Transformation Levers



IP Structure

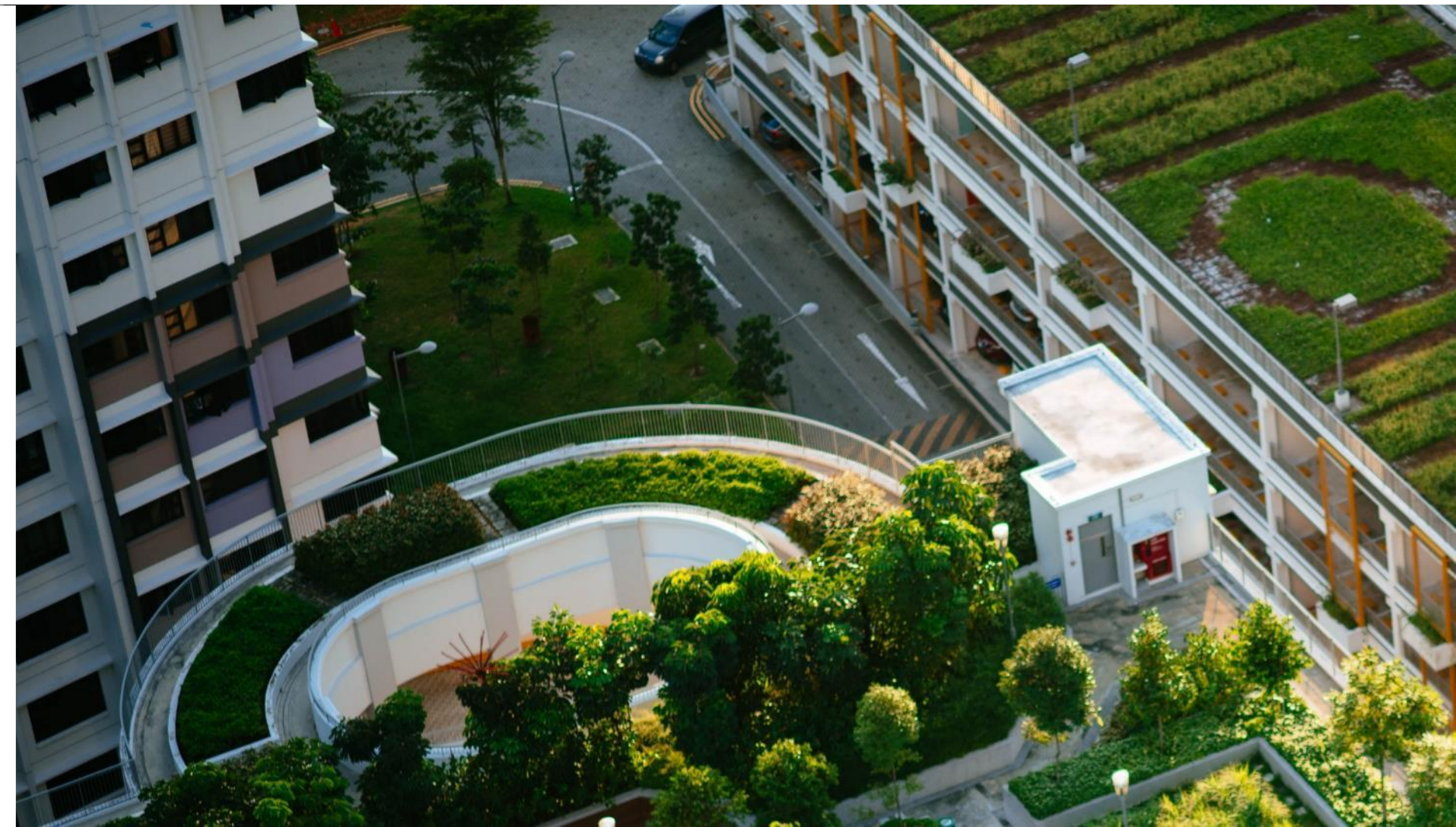


Global coordination

Learning & knowledge exchange

Partnerships & Programme Advisory Group

Common approaches & consistent communications



Part 3:

Your inputs..



What's
next..

Launch Agenda

- Day 1: Panel – sectors, linkages and solutions
- Day 1: Site visits
- Day 2: Meet the projects...
- Day 2pm: Interactive discussion facilitated by thematic leads
- Day 3: Internal meetings for GEF project agencies

Approval

- December 2024 – approval of the child projects
- Inception in 2025

Implementation

- 2025 – 2031
- Share learning and perspectives to guide implementation



<https://www.unep.org/topics/circularity-sectors/eliminating-hazardous-chemicals-supply-chains-integrated-program>

Linkages in Construction and Fashion

**Launch and Inception Event of the GEF-8 Integrated Programme on
Eliminating Hazardous Chemicals in Supply Chains**

Apoorva Arya - Circular Innovation
Lab

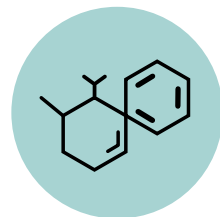
Date: 9th December 2024

Venue: Siem Reap, Cambodia

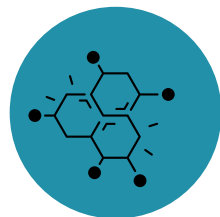


Chemicals in the value chains

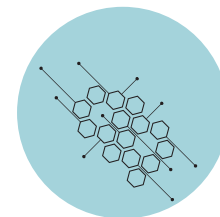
CONSTRUCTION



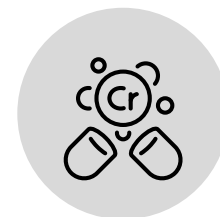
Chlorine



PFAS



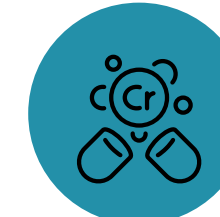
Phthalates



Chromium & formaldehyde



Minerals extraction:
heavy metals,
asbestos, silica



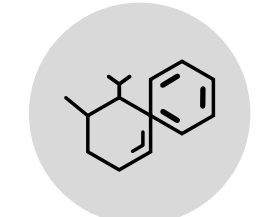
Steel:
coke



Concrete & cement:
hexavalent
cement dust,
silica



wood: arsenic,
dysociianates



Short-chain
chlorinated
paraffins (SCCPs):
PVC, flame
retardants



FASHION

Crossovers in Construction and Fashion

Chromium

- leather tanning
- corrosion innibitor



Formaldehyde

- resin in wood products
- wrinkle-resistant finish

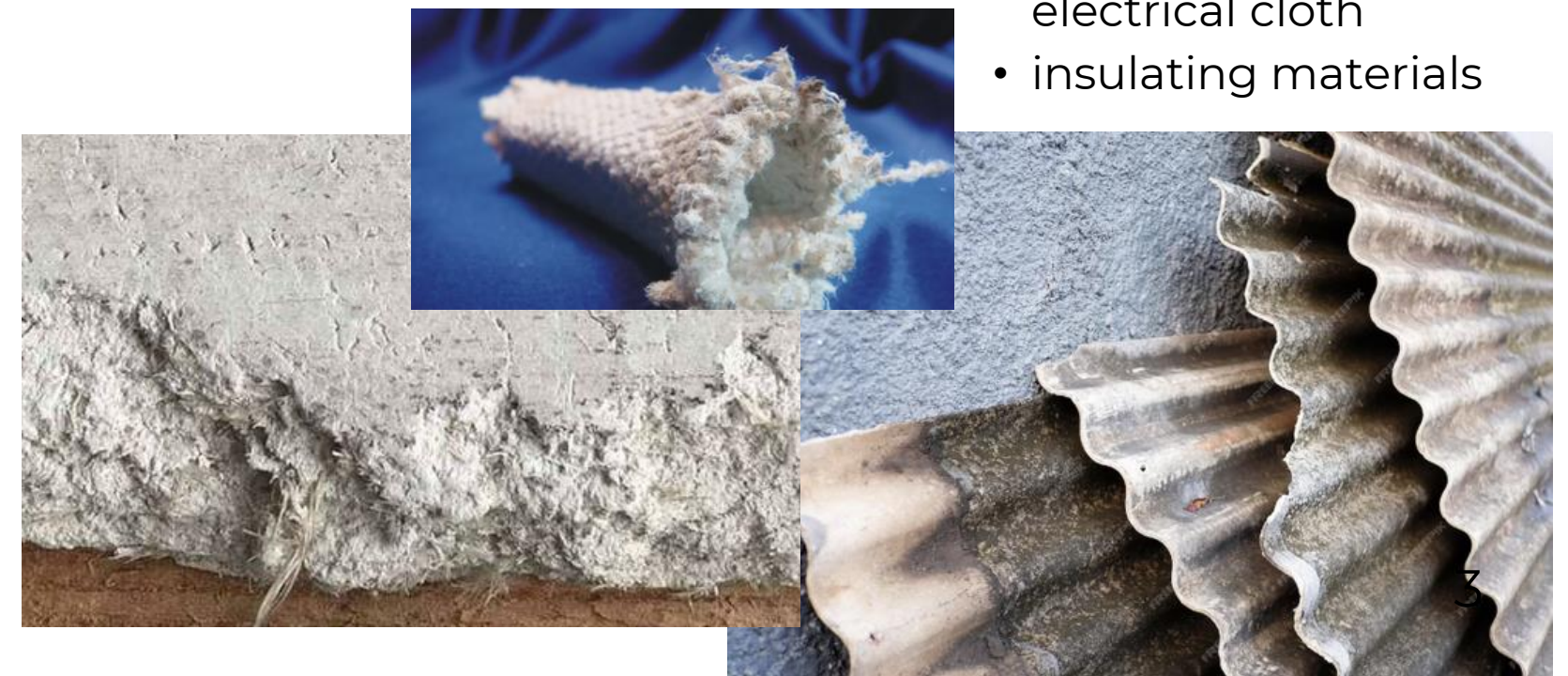
Volatile Organic Compounds

- paints, adhesives
- textile finishes, solvents for dry-cleaning



Asbestos

- garments, heat-resistant blankets, electrical cloth
- insulating materials



Upholstery : an example of chemical convergence

Upholstery fabrics and upholstered furniture are often incorporated with the same hazardous chemicals:

- **Volatile Organic Compounds, VOCs** (includes formaldehyde and benzene)
- **Chemical Flame Retardants** (includes PBDE, chlorinated tris and Fyrol)
- **Lead & Chromium**
- **AZO dyes**







Costa Rica Child Project Priorities

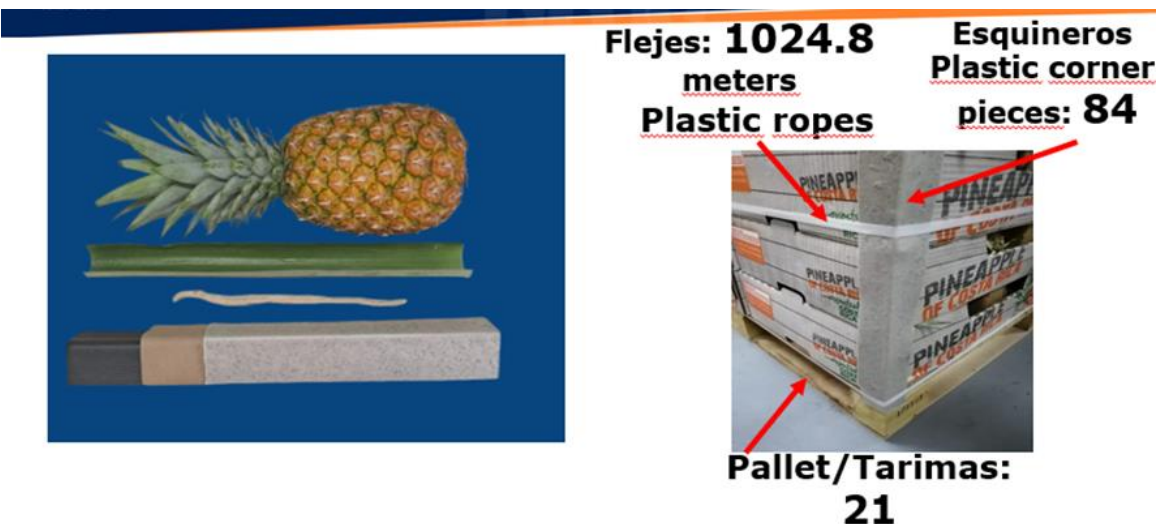
Research and development of local alternative bio-based materials

Establishing Voluntary Agreements for Cleaner Production in the construction sector allows them to improve their environmental performance, "clean" their manufacturing processes and increase the circularity of their businesses.

Environmental labelling of building materials / EPD

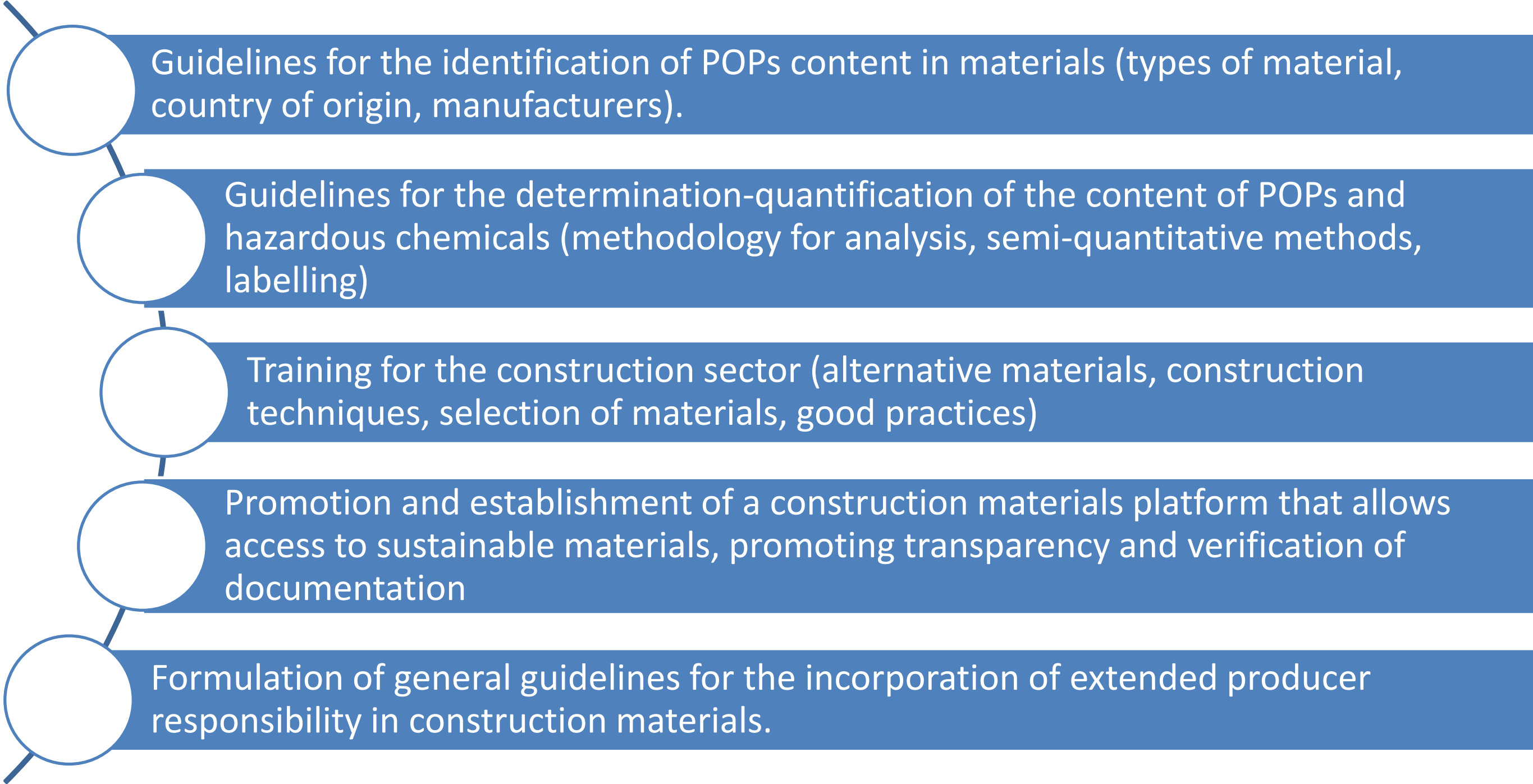
Generation and establishment of technical sheets for construction materials in public procurement by the State

Demonstration pilots with construction techniques with sustainable materials





Added Value from the Global Project



Guidelines for the identification of POPs content in materials (types of material, country of origin, manufacturers).

Guidelines for the determination-quantification of the content of POPs and hazardous chemicals (methodology for analysis, semi-quantitative methods, labelling)

Training for the construction sector (alternative materials, construction techniques, selection of materials, good practices)

Promotion and establishment of a construction materials platform that allows access to sustainable materials, promoting transparency and verification of documentation

Formulation of general guidelines for the incorporation of extended producer responsibility in construction materials.



Contributions to the Global Project



Development of public policies on sustainability that incorporate the construction sector

Progress achieved through the project in the integration of environmental labelling in sustainable public procurement.

Contributions of the project in the initiatives of the national government:

- National Decarbonization Plan
- National Circular Economy Strategy
- Adaptation Plan.

Progress achieved through the project in mapping stakeholders and their good practices in terms of hazardous substances, for each link in the life cycle of construction projects.



Thanks.

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