

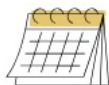


Climate Action
Accelerator

Public webinar

The Plastik project

How to optimise the life cycle of
medical plastic packaging



Thursday 28 May | 13:00-14:30 CEST



Practical information

PROGRAMME

13:00 | Welcome & Introduction

13:05 | Pascal (**Climate Action Accelerator**)

7 key recommendations on plastic recycling

13:25 | Jeremy (**Alima**) : *Plastik project*

13:45 | Nima (**EWB Norway**) : *Somalia project*

14:05 | Q&A session

14:25 | Final remarks & end

- This webinar is **recorded** and will be made available on **replay** on our website and YouTube channel.
- **Your audio and video is off by default.**
- To ask a question, please **write in the Q&A** section. The moderator will read out questions during the Q&A sessions.
- **Translation** to French is available via Zoom.

Link to webinars page:

climateactionaccelerator.org/events_and_webinars/



Today's speakers



Pascal Carré

Technical expert, Premises, energy & sanitation

Climate Action Accelerator



Jérémy Coutelle

Head of Environmental Action

ALIMA



Nima Nemati Saeid

Head of Innovation and Projects

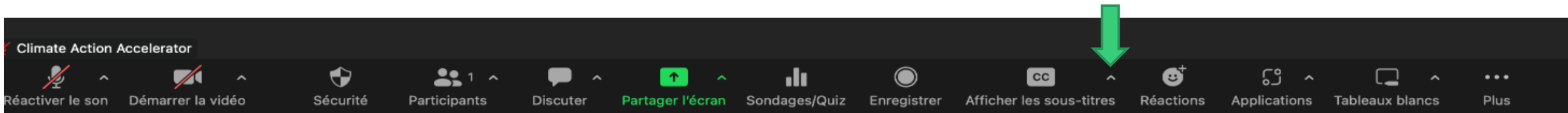
Engineers Without Borders Norway



Translation

How to activate subtitles on Zoom ?

1) Click on « Show captions» or « Afficher les sous-titres » in the bottom bar (small arrow to the right).



2) Select the spoken language and the language you want to translate into.



Who we are

The **Climate Action Accelerator** is a non-profit initiative based in Geneva that aims to mobilise a critical mass of organisations delivering essential services to populations around the world, in view of accelerating the implementation of science-based climate pathways and contributing to a domino effect in society.

The goal is to help move the aid, health and higher education sectors towards greater resilience and a radical transformation of their practices, pursuing emission reduction targets (-60% by 2035) and a 'net zero' trajectory, in line with the Paris Agreement.



AID



HEALTH



HIGHER EDUCATION
& RESEARCH

Our pillars

EMPOWER

Empower organisations to at least halve their emissions by 2030 and prepare for greater resilience through a hub of expertise and resources.

CHAMPION

Transform them into ambassadors of change within their networks, capable of influencing their peers.

COMMUNITY

Build a global community of action, sharing climate solutions as a universal common good, to scale up their deployment.



+40 partners onboard





Climate Action
Accelerator

Climate Action Accelerator :

7 key recommendations on plastic recycling

28th of May - 2026



PLASTIK PROJECT

ALIMA, in partnership with the Climate Action Accelerator, implemented projects addressing plastic pollution. These projects aim to reduce the environmental impact of emergency medical and nutritional interventions by optimising the life cycle of packaging for certain medical supplies and by developing sector-wide initiatives

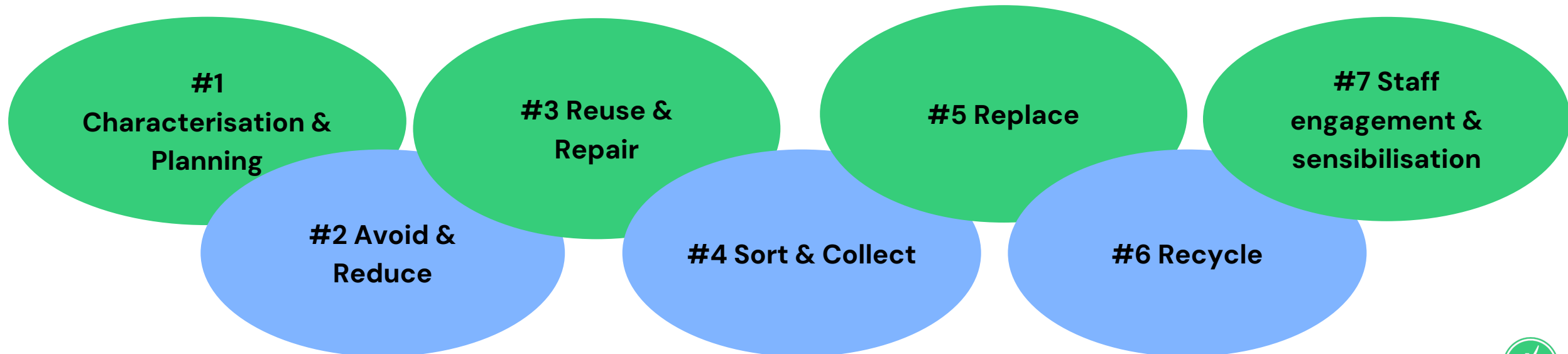
- **Plastik I** project, in Tchad and Burkina Faso, from 2022 to 2024, financed by ECHO.
- **Plastik II** project, in Tchad and DRC, from 2024 to 2026, financed by the CDCS.



PLASTIC PROJECT

As part of the Plastik II project, we are currently preparing a **'white paper'** presenting the main findings of the project.

This 'white paper' proposes a **seven-point approach**:



CARACTERISATION & PLANNING

‘Characterisation and Planning’ involve **sorting, collecting and quantifying waste (in kg)**. This enables the identification of the main waste streams and the development of a ‘waste management plan’ setting out appropriate treatment methods for each category of waste.

The NGO Solthis has carried out a waste characterisation study across 7 countries and 9 projects, which shows that organic waste accounts for the largest share (48%), followed by paper and cardboard waste (28%) and plastic waste (13%).

Type de déchet → Sites ↓	Papier et carton	Bois	Plastique	Verre	Métal	Textile	Minéral	Organique	Autre	TOTAL PAR SITE	%
	1 Côte d'Ivoire	6,94	0	9,12	0	1,6	0	0	44,15	0,54	62,35
2 Guinée / Conakry	13,715	0	6,18	0	2,665	0	0	17,91	0,015	40,49	14,8
3 Sénégal / Dakar	11,04	0	1,53	0	0	0	0	26,15	0,34	39,05	14,3
4 Sierra Leone / Freetown	16,02	0,13	3,71	0	5,5	0	0	9,25	0	34,61	12,7
5 Niger	12,20	0	6,85	0	5,05	0	0	9,80	0	33,90	12,4
6 Sierra Leone / Bo	7,38	0	3,69	0	2,68	0	0	4,15	9,24	27,13	9,9
7 Sénégal / Sédhiou	2,40	0	2,79	0	0	0	0	10,43	0	15,62	5,7
8 France / siège	7,22	0	0,9	0	0,29	0	0	3,09	1,41	12,91	4,7
9 Guinée / Boké	0,335	0	0,84	0	0,17	0	0	5,895	0	7,24	2,6
TOTAL PAR TYPE DE DECHET	77,3	0,1	35,6	0	18	0	0	130,8	11,5	273,3	
%	28	0	13	0	7	0	0	48	4		100

AVOID & REDUCE



The 'Avoid and Reduce' approach aims to prevent waste generation at source by **minimizing the quantity of products or materials produced used and consumed**, by reducing volumes, limiting unnecessary packaging and encouraging a more efficient use of resources.

ALIMA implemented the OptiMA project, which exemplifies a “reduce by design” strategy. The OptiMA medical nutrition protocol simplifies diagnosis and treatment, allowing more patients to be treated with fewer resources:

+30% children treated / -20% RUTF used



REUSE & REPAIR

'Reuse and Repair' is a key component aimed at **extending the lifespan of products and materials** through repeated use, repair or repurposing. By keeping resources in circulation for longer, it reduces the need for new production and raw materials whilst minimising waste.

The 'Waste for Warmth' project, led by Engineers Without Borders Norway, in partnership with Field Ready and Polyfloss Factory, takes a REUSE approach by transforming plastic waste into insulation materials that can be used directly in shelters.



SORT & COLLECT



'Sort and Collect' approach involves **segregating and recovering materials from waste streams** before they are disposed of. The materials are collected separately and stored for subsequent recycling or reuse.

The Plastik project, led by Alima and the CAA, aimed to collect large quantities of ready-to-use therapeutic food (RUTF) sachets and store them in secure, centralised facilities for subsequent recycling



REPLACE



Research for alternative materials and solutions focuses on finding **substitutes for plastic materials** that maintain performance while reducing environmental impact by prioritizing recyclable, biodegradable and home-compostable options.

The NGO *Médecins Sans Frontières Swiss* launched a study to identify sustainable alternatives to plastic drug dispensing bags, widely used in healthcare, by exploring bio-based and home-compostable materials.



RECYCLE



'Recycle' is aimed at **transforming waste into new products**. The collection, processing and reintroduction of materials into production cycles reduce dependence on virgin resources and help to waste management.

The Plastik projects involve transforming waste from ready-to-use therapeutic food (RUTF) sachets – which are non-biodegradable and difficult-to-manage materials– into sustainable building materials through local processing and partnerships.



ENGAGEMENT & AWARENESS



'Engagement and Awareness' aim to raise awareness and **actively involve employees and the community** in sustainable practices by encouraging and training to avoid waste, improving sorting, promote reuse, choosing sustainable products and reducing packaging.

During the Plastik project, the collection of RUTF sachets was built on the active involvement of community representatives, local populations, and mothers, who were directly engaged through training sessions and workshops.





**MINISTÈRE
DE L'EUROPE
ET DES AFFAIRES
ÉTRANGÈRES**

*Liberté
Égalité
Fraternité*

**Centre de crise
et de soutien**

PLASTIK project

Reducing the environmental impact
of nutrition programmes | 28.05.2026

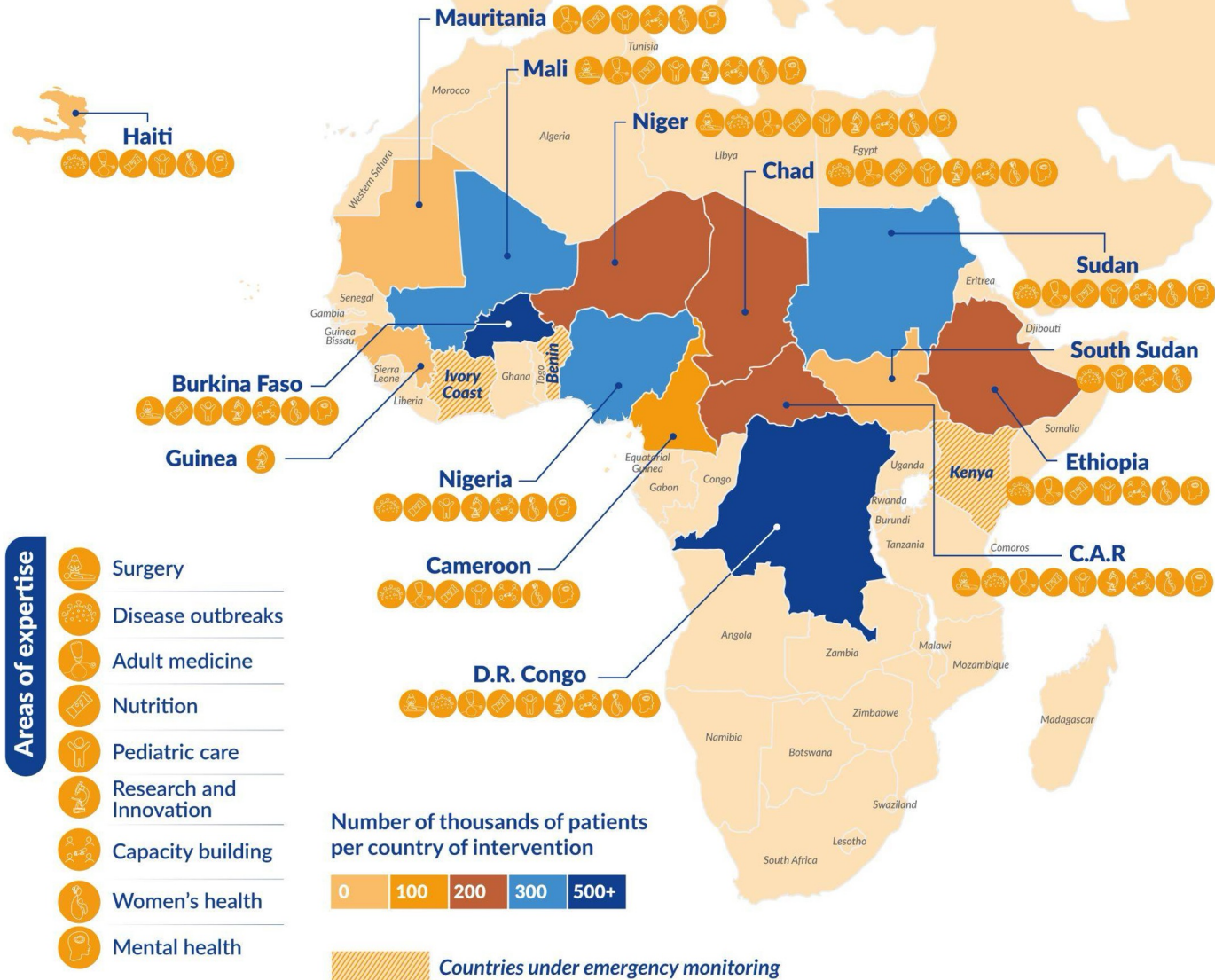


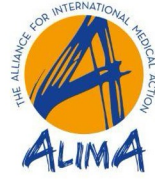
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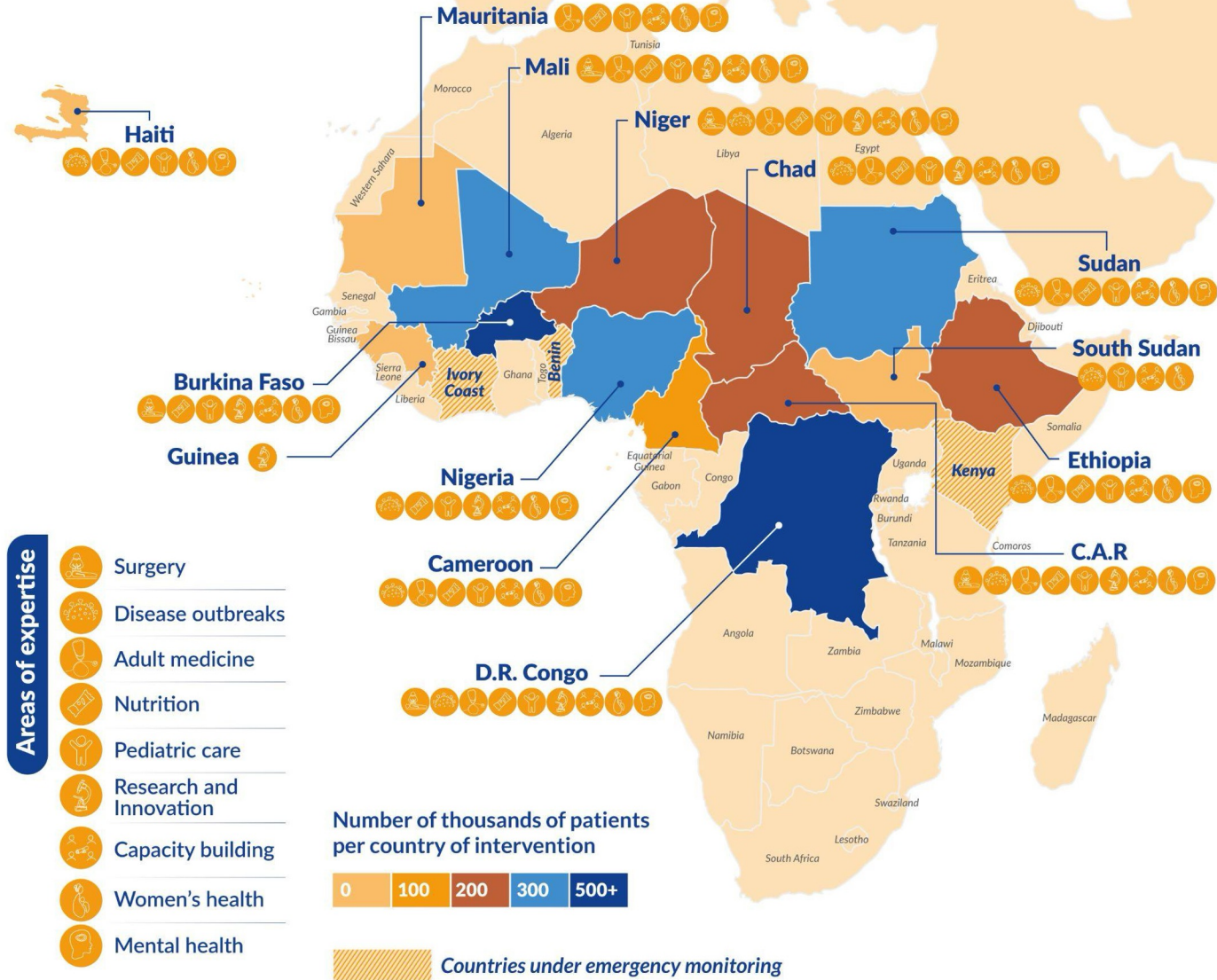
2026

OPERATIONS MAP





2026 OPERATIONS MAP

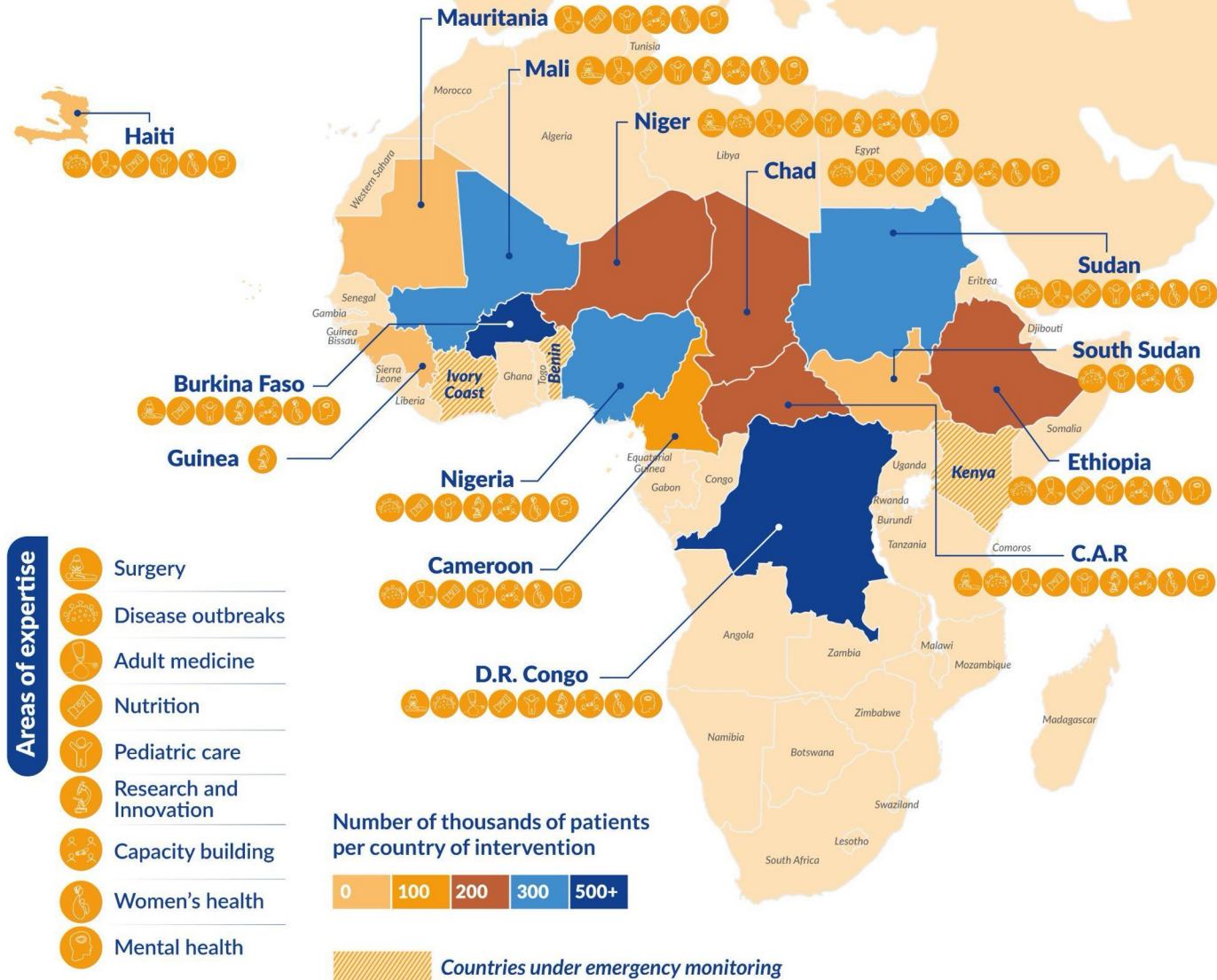


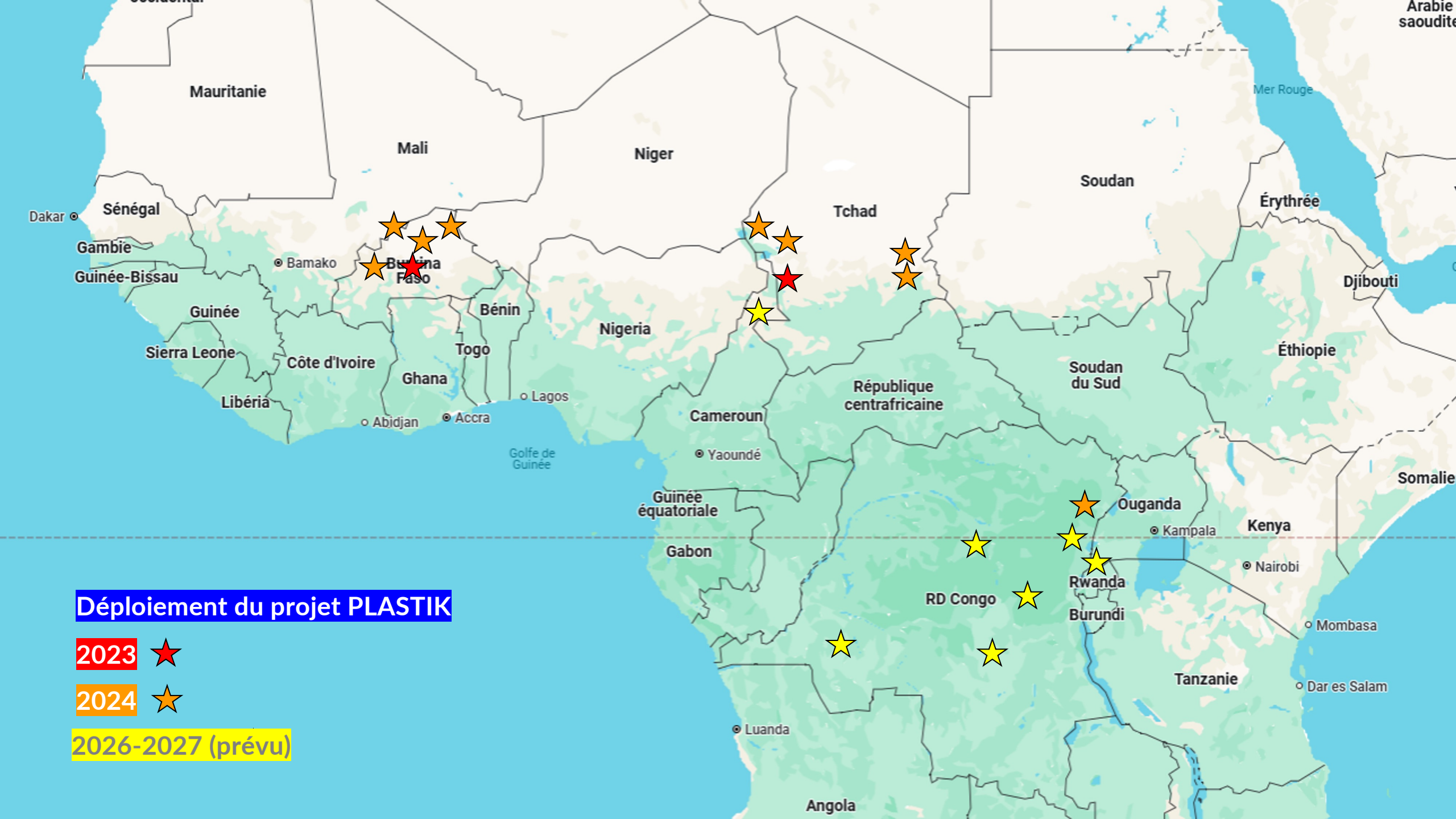


x 2 millions / year



2026 OPERATIONS MAP







LIFE CYCLE ASSESSMENT



Earth Action conducted a life cycle assessment of Plumpy'Nut using data provided by the manufacturer of Plumpy'Nut, Nutraset.



The comprehensive “cradle-to-grave” assessment identifies the critical stages of the product’s life cycle.

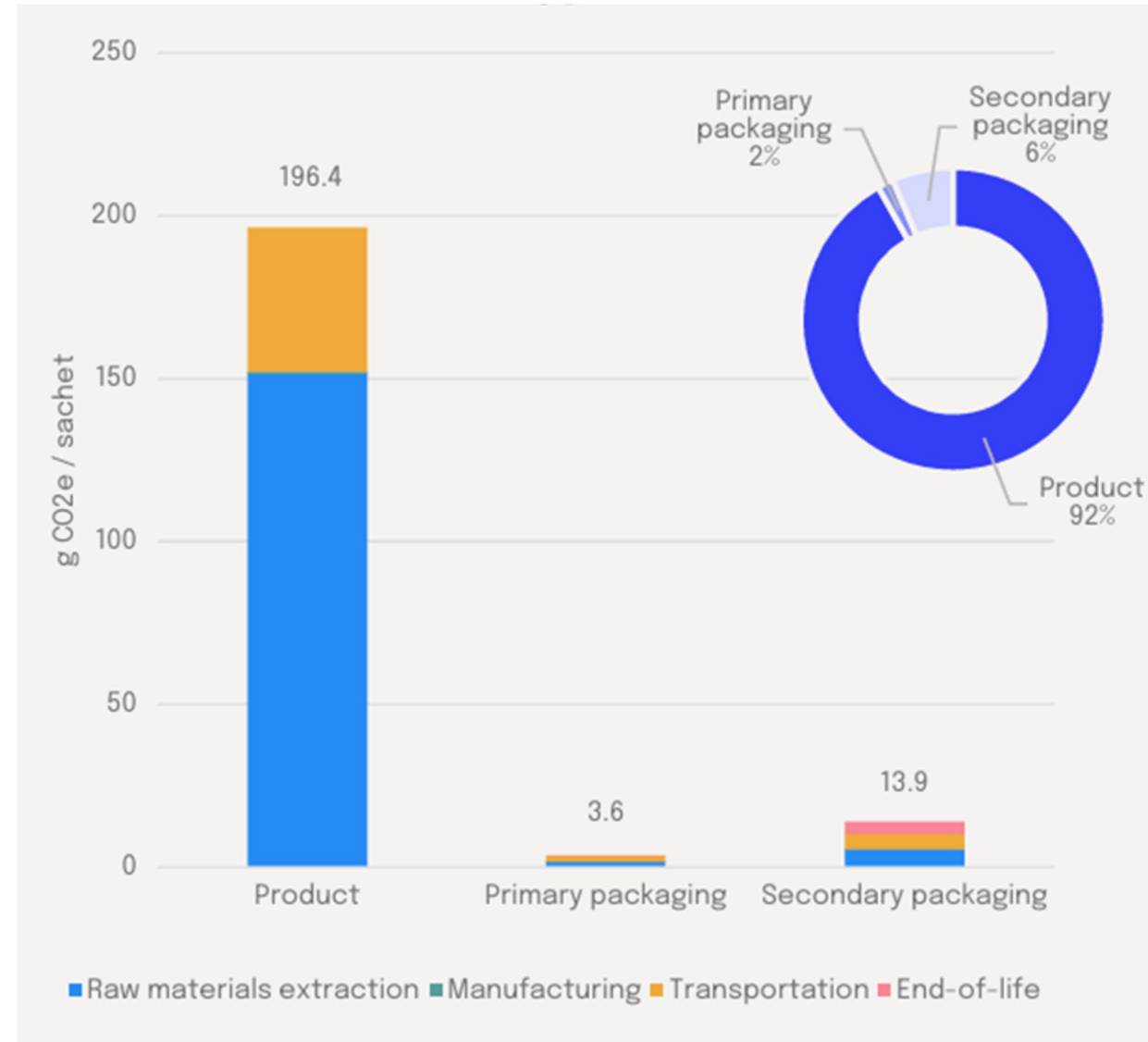


LIFE CYCLE ASSESSMENT

The LCA shows that the largest environmental impact factor for the product “Plumpy’Nut” lies in the primary production of its ingredients (peanuts, oil, sugar, etc.).

This accounts for more than 70% of the total environmental impact.

The primary packaging represents only 2% of total product impact





LIFE CYCLE ASSESSMENT

LCAs do not usually account for plastic pollution, as current knowledge in this field and the lack of standardized data make it impossible to establish effective impact measurement indicators.

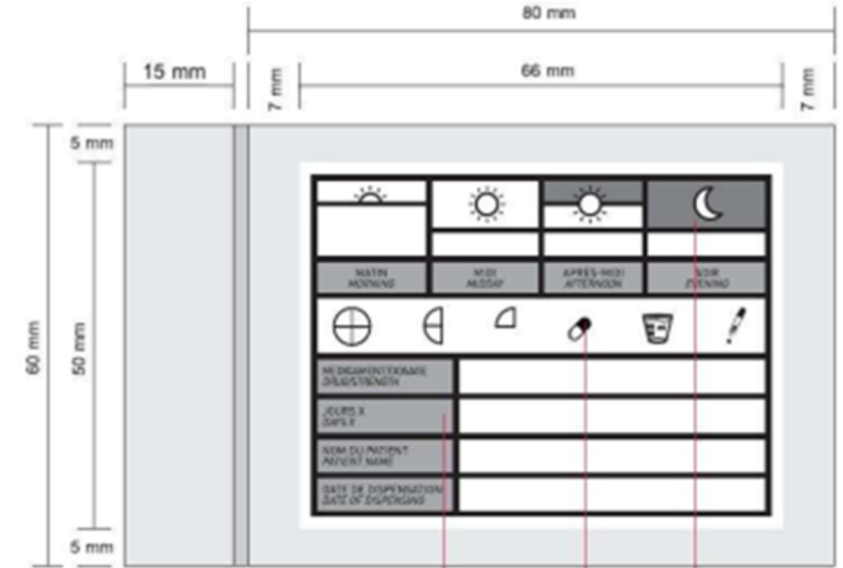
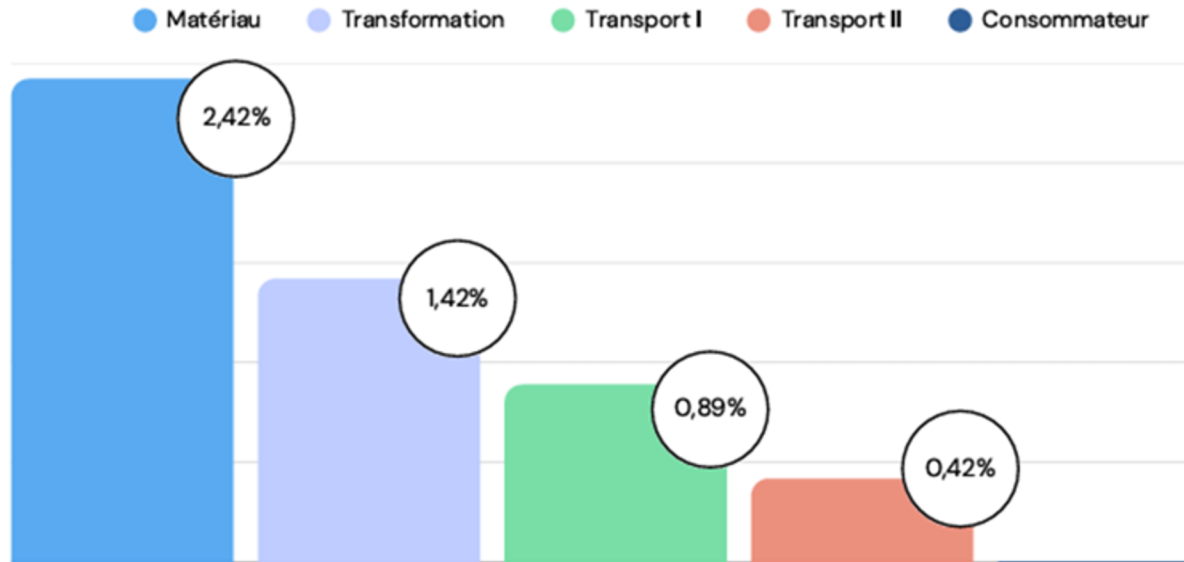
Plastic pollution is addressed only in a rough manner, based solely on an estimate of the volume of material potentially released into the environment.

The LCA highlighted that collecting Plumpy'Nut sachets prevents a large amount of plastic from ending up in the environment (**XXX tons**)





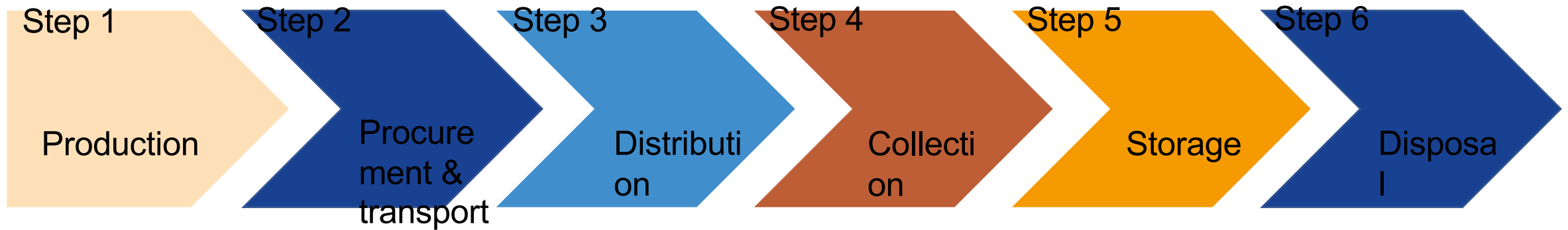
LIFE CYCLE ASSESSMENT



Another LCA of medication distribution pouches, which are widely used by medical humanitarian organizations, shows that raw materials and manufacturing account for the largest impacts on climate change (47% and 27%, respectively).

Implementing alternatives

Working all along the lifecycle



- Discussion w/ suppliers and monitoring on vegetable

- Identification of local suppliers (InoFaso, Mana, Hilina...)

- OptiMA (simplified protocol) synergies
- Community awareness

- Incentives
- Creation of green areas and disposal of bins

- Waste segregation
- Installation of central, hermetic

- Partnership and cash transfert to local recycling services



Picture 1.

Disposal of
bins in Ngouri
hospital, Chad.



Picture 2.

Green area
made out of
recycled
bricks, with
bin, in Boga
(DRC).



Picture 3.

Washing of
RUTF sachets
after collection
in
Ouagadougou,
Burkina Faso.



Picture 4.

Bricks
transformation
process with
local NGO
CRIDE in
Bunia (DRC).



Picture 5.

Pharmacy the
Ngouri (Chad)
hospital, made
out of recycled
bricks by our
local partner
RECYDEP.



Picture 5.

Storage room
in Ndjamen
(Chad), made
out of recycled
bricks by our
local partner
RECYDEP.



Picture 6.

Training to local communities to produce handmade bags made out of recycled plastics in Bunia (DRC).





Picture 7.

Pyrolysis system of our local partner in Ouagadougou (Burkina Faso) to separate oil, aluminium and graphite from plastics waste.



MALNUTRITION

RECYCLAGE INNOVANT : BRIQUES & CARBURANT

A few results

Assessing our environmental impact on local communities

Chad

- 2 630 kg collected
- 97,4 % recycled
- 4 397 bricks

DRC

- 1 068 kg collected
- 78,3 % recycled
- 115 bricks

Burkina Faso

- 2 500 kg collected
- 78,3 % recycled
- 5 600 bricks

Challenges

Facing local structural weaknesses

- Lack of local qualified service providers
- Security issues and highly volatile contexts
- Low implication of key-partners (nutrition actors)
- Chemical content of bricks and durability
- Exit strategy : dependance on international fundings



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About the Project Social Plastics

The Problem

- Somalia faces a severe plastic waste crisis.
- Over 325 tonnes of plastic waste are generated monthly in Hargeisa.
- Weak waste management systems cannot handle the growing waste volumes.
- Plastic is often burned or dumped due to lack of collection systems.
- This causes pollution, flooding, clogged drainage, and disease outbreaks.
- Limited recycling capacity and weak value chains reduce sustainable waste management.

Why It Matters

- The crisis affects more than 1.2 million people in Hargeisa and Galkayo.
- Poor waste management harms public health and the environment.
- Women, informal waste pickers, and unemployed youth are most affected.
- Unsafe working conditions and limited income opportunities increase vulnerability.
- Recycling and circular solutions can create green jobs and strengthen resilience.
- Improved waste systems support more sustainable and locally driven humanitarian efforts.

The Innovation

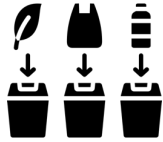
Our Innovation

- Partnering with Eco Plastics and Tayo Plastics to pilot circular-economy solutions in Hargeisa.
- Converting post-consumer plastic waste into marketable products.
- Producing pavement tiles and recycled-plastic consumer goods.
- Upgrading and fabricating locally adapted recycling machinery.
- Building community-based collection, sourcing, and production systems.
- Creating fair and transparent value chains.
- Integrating women, youth, and waste pickers into green jobs.
- Conducting social behavior studies and implementing campaigns to support behavior change.
- Strengthening the full plastic value chain from collection to manufacturing.
- Supporting climate-friendly businesses with long-term scaling potential.



Waste Collection & Community Sourcing

- Plastic waste is collected from open dumpsites and streets in Hargeisa.
- Eco Plastic works directly with informal waste pickers, including youth and IDPs.
- The engagement is in the process of being formalized through partnerships with existing waste picker associations.
- Eco Plastic formalizes work relations by paying waste pickers fair and dignified wages.



Pre-Processing and Sorting

- Waste is cleaned and sorted manually, ensuring only suitable plastic is used.
- The team uses simple techniques to prepare plastic for production.
- Plans are in place to train waste pickers on safer and more efficient sorting methods



Local Manufacturing of Production Machine

- With technical support from Engineers Without Borders Norway, a locally made barrel machine has been developed.
- This machine will replace manual tile molding, improving efficiency, product consistency, and worker safety.
- The machine has been co-produced with a local workshop, building local capacity and technical know-how



Recycled Pavement Tile Production

- Processed plastic is melted and molded into durable construction tiles.
- Tiles are affordable and ideal for pavements, compounds, and walkways.
- Eco Plastic aims to increase its production volume and market reach once the machine is fully operational.



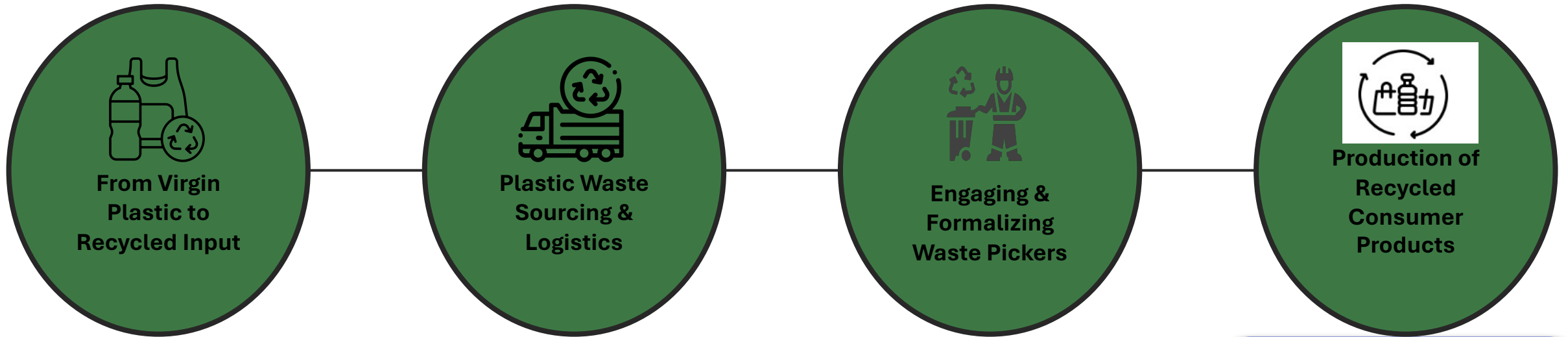
Hargeisa, Somaliland

Eco Plastics Venture

Tayo Plastic Venture



Hargeisa, Somaliland



From Virgin Plastic to Recycled Input

- Transitioning away from imported virgin plastics
- Leveraging locally collected plastic waste as raw material
- Reducing environmental footprint and production costs

Plastic Waste Sourcing & Logistics

- Building local supply chains with informal waste pickers
- Connecting with plastic-rich venues (e.g., hotels, events) for waste supply
- Introducing sorting, washing, and shredding processes into factory flow

Engaging & Formalizing Waste Pickers

- Structured onboarding of informal workers
- Establishing fair payment systems
- Providing safety gear and basic training

Production of Recycled Consumer Products

- Integration of recycled pellets into existing product lines
- Launching environmentally conscious product categories
- Positioning products as both cost-effective and eco-friendly

Social Behavior Studie

- With the support of an external consultant, we have conducted social behavior studies aimed at changing perceptions and attitudes toward plastic waste among different community groups.
- Based on the findings, we are currently developing and implementing awareness campaigns and community engagement activities to support long-term behavior change, increase recycling participation, and strengthen local ownership of sustainable waste management practices.

Impact during the first two months of operations

- Over 8 tons of recycling collected, Over 5 tons converted into new materials for consumer purchase
- 5 new jobs created to support recycling by Tayo Plastics, including 2 IDPs
- Co-financing of the project inputs with the private sector who contributed an additional \$4,400 for machine equipment.
- 2623.8 kgs of plastic have gone towards the manufacturing of baby toilets and other goods. Ongoing efforts to link this to humanitarian supply chains.
- Tayo Plastics has founded a plastic waste collection point in town to buy plastic from locals.
- Eco Plastic is producing tiles at a production pace that is financially viable, while recycling large amounts of low-value plastic waste.
- Eco Plastic has created six new jobs.
- Waste pickers provided with dignity kits to promote safety in waste picking, as they are already the most vulnerable, and many are IDPs.

Next comes the scale up

Under development.....



Q&A



EXPLORE ALL OUR SOLUTIONS

climateactionaccelerator.org 🔍





Our Accelerator Programme for Aid Organisations

Achieve your climate goals without compromising essential services



18-month collective
cycles



Blended learning,
collaborative online
platform



Includes methodology,
mentoring and quality
review

Programme Components

- **A clear pathway:** Footprint → Roadmap & Implementation
- **Practical learning** through modules & workshops
- **A rich online platform** full of tools, templates & real examples
- **Expert guidance** every step of the way
- **Quality checks** for stronger deliverables
- **Collective intelligence** through peer exchange
- **Open, adaptable tools** to drive real change

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