APPENDIX 2

OVERVIEW OF IDENTIFIED ALTERNATIVES

10 PRIORITY ITEMS

Items	Local alternative found	Cost comparison and/OR TCO (Total Cost of Ownership)	Climate impact
T-shirt	**Upcycled t-shirts** made from textile deadstock (unified look/colour, logo printing possible for small batches) **Second-hand t-shirts**	**Highly variable:** **Upcycled t-shirts** are **about 33% cheaper** than a standard new t-shirt **OR 60% to over 130% more expensive** **Second-hand t-shirts** are about **80% cheaper**	The climate change impact of upcycled t-shirts is **34% lower** The climate change impact of second-hand t-shirts is **24% lower**
Soap	**Locally produced soap or local olive-oil**-based soaps **Concentrated liquid/powder** hand-wash and dishwashing alternative	**Highly variable:** **Local soaps: 39% cheaper** than standard imported palm-oil-based soap **OR 48% to 146% more expensive** *(*The cheapest option doesn't contain olive oil)* **Concentrated alternative format** is about **64% more expensive**	The climate change impact of local soaps is **48% lower**
Emergency latrine	Panel-based and modular "Lego-style" blocks made from **recycled plastic**	**25–33% more expensive than standard concrete latrines**, but designed to be reusable and demountable, which may offset costs over the long term	Climate impacts depend on use life compared to cement blocks and if latrines would effectively be reused and how often
Training	**Online training** via a video-conferencing subscription **In-person training** hosted at a more sustainability-oriented local venue	**A 3-day online training is about 98% cheaper** than in-person training in a conventional central venue **The sustainable in-person venue is about 6% cheaper** than the conventional venue	The climate change impact of online training is **99% lower** The climate change impact of sustainable in-person venue is **13% lower**
Bucket	**Local food-grade bucket** with virgin plastics (not available for recycled plastics)	**The locally produced food-grade bucket is about 34% more expensive** than the standard imported bucket, though the supplier indicates the price should drop with larger order volumes	The climate change impact of locally produced food-grade bucket is **2% lower**

Food parcel	**Replace rice with alternative cereals** **Organic versions** of some food-parcel staples	**Sustainable food parcel (with 4 organic food commodities) is 49% more expensive than standard food parcel** **Organic imported rice was found to be about 62% more expensive per kilo** than the standard imported rice currently used in food parcels	No environmental assessment performed
Laptop	**High-quality refurbished** laptops with warranty options	On a total-cost-of-ownership basis (accounting for shorter lifespan and additional maintenance), **refurbished laptops are approximately 24% cheaper** per year than new laptops of the same brand/model	
Printer	**Refurbished and open-box printers**, along with compatible ink refill options	On a total-cost-of-ownership basis, refurbished printers are approximately **11% cheaper** per year than new printers of the same brand/model	
Blanket	Blankets from **new fleece or deadstock fleece** **Second-hand blankets** **100% sheep-wool** blanket	**Highly variable:** New locally made fleece blankets (polyester) are about **11% cheaper than the standard item** Deadstock/upcycled and second-hand options range from about **16% to 78% more expensive** On a total-cost-of-ownership basis (accounting for durability and washing), the locally sourced sustainable sheep-wool blanket is about **68% cheaper than a conventional fleece blanket over its lifetime**	
Car rental	**Hybrid** rental vehicles	On a total-cost-of-ownership basis, a hybrid rental is about **1.4% more expensive** than a standard rental at typical usage levels (~47 km/day), but becomes cost-neutral or cheaper above roughly 67 km/day due to fuel savings	

15 ADDITIONAL ITEMS

For the additional items no analysis of environmental impacts was performed.

Items	Local alternative found	Cost comparison and/or TCO (Total Cost of Ownership)
Clothes bags	**Upcycled bags** made from textile deadstock (recycled polyester, cotton, hemp, etc.)	**2 to 4 times the price of a standard bag**, with prices expected to decrease at larger order volumes
Winter jacket / coats and raincoats	**Second-hand** and **upcycled** (deadstock) jackets and raincoats	Second-hand options range from about **43% cheaper to 43% more expensive** than a new standard jacket Upcycled (deadstock) options range from about **14% to 114% more expensive**
Foam mattress	Mattress with a cover made from **textile deadstock** (foam core remains imported virgin material)	About **11% cheaper** than a standard new mattress
Shampoo	**Solid shampoo bars** **Natura**l liquid formulas Imported **concentrated capsule/powder** formats	All sustainable options identified are substantially **more expensive** than standard shampoo: from roughly **9 times up to more than 25 times** the reference price Prices are not yet based on bulk-order volumes and are expected to decrease
Laundry washing powder	**Biodegradable, plant-based liquid or powder** laundry alternatives	All options identified are substantially **more expensive** than standard imported laundry powder: from roughly **8 times up to more than 25 times** the reference price (some scope for reduction through customization and bulk ordering)
Adult and children's toothpaste	**Traditional** toothpaste **Powder-format** toothpaste in a reusable, refillable metal container	Traditional toothpaste: **27% more expensive** however there is room for customization and reduced costs on large orders Powder-format: **11 times more expensive**, but eliminates the plastic tube
Toothbrush	Imported **bamboo toothbrush** (no local producer)	**2 to 19 times the price** of a standard plastic toothbrush
Sanitary pads	Locally produced **reusable** sanitary pads Locally produced **disposable** sanitary pads	Locally produced reusable pads are about **70% cheaper** than disposable ones over an assumed 3-year lifetime Locally produced disposable pads are about **14% cheaper** than imported disposable pads
Baby/child diapers	Locally produced **reusable** diaper kits Locally produced **disposable** diapers	Locally produced reusable diaper kits are about **96% cheaper** than disposable diapers over their estimated 3-year equivalent lifetime Locally produced disposable diapers range from about **6% cheaper to 29% more expensive** than imported ones, depending on supplier and size

Tarpaulin	2 upcycled options: one made from **reused advertising** banner material one from reclaimed **marine-grade fabric offcuts**	The reused-banner tarpaulin is **priced the same** as a standard tarpaulin The reclaimed marine-grade fabric option is about **20% more expensive**, but is expected to last significantly longer and avoid microplastic shedding
Jerrycan (semi-collapsible)	**A fixed 10L variant**, but not the semi-collapsible format with a tap-style opening	No locally produced or sustainable alternative pricing could be obtained
Family tent	**No Lebanese manufacturer identified** A small number of regional manufacturers (Türkiye, Egypt) were identified as potential leads	No locally produced or sustainable alternative pricing could be obtained
Recycled sleeping mat	**No Lebanese manufacturer was identified** One regional (Turkish) supplier was found, but it is unclear whether production is local	No locally produced or sustainable alternative pricing could be obtained
Thermal carpet	**No Lebanese manufacturer was identified** One Egyptian supplier was identified as a raw-material source (certified recycled polyester fiber) rather than a finished-product manufacturer	No locally produced or sustainable alternative pricing could be obtained
Kitchen set	**No Lebanese manufacturer was identified** Regional (Turkish) sourcing option is pending confirmation	No locally produced or sustainable alternative pricing could be obtained

****Second-hand*** refers to products that have already been used and are resold without significant alteration to their original design or condition.

****Upcycled*** **refers** to existing products or materials that are transformed or redesigned to create a new product with added value.