



PAPER BIO PACK

WHAT'S THE FUTURE
OF PACKAGING IN
CENTRAL EUROPE?

WWW.PAPERBIOPACK.EU

Interreg 
CENTRAL EUROPE
BIOCOMPACT-CE

Pilot actions in Slovenija

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Ljubljana, 27th October 2020

1. Papirol d.o.o.
2. Turizem Bled
Infrastruktura Bled d.o.o.
Termopol d.o.o.
DodoPack, Andreja Pogačar



Pilot action 1

Papirol d.o.o.



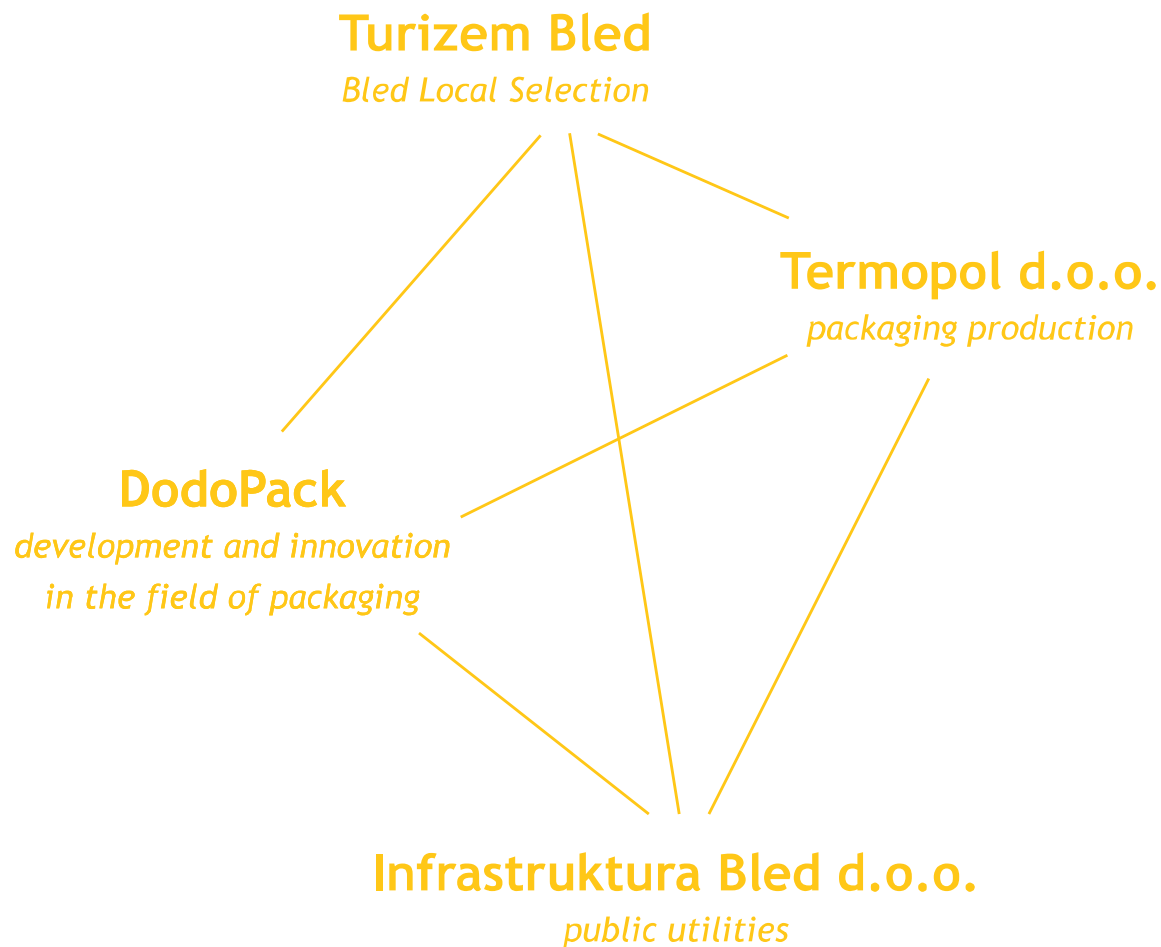
Pilot action 1 - Papirol d.o.o.



Pilot action 2

**Turizem Bled,
Infrastruktura Bled d.o.o.,
Termopol d.o.o. in
DodoPack**





- Phase 1** Identifying specific groups of packaging products
See what we have and if we have something to solve
- Phase 2** Overall packaging concept
- Phase 3** Gradual prototyping for a specific purpose type of packaging
From concept, to prototype and to final result
- Phase 4** Gradual production and implementation



Phase 1

Identifying specific groups of packaging products



Phase 1: Identifying specific groups of packaging products

Bohinjsko from Bohinj



Phase 1: Identifying specific groups of packaging products

Bohinjsko from Bohinj

PACKAGING MATERIAL USED	PRINT
glass, label	4/0
plastic, label	4/0
textile, label or paper etiquette	4/0
industrial felt, paper etiquette	4/0
shrink foil, label	4/0
wrapping foil, label	4/0
paper or cardboard, label	4/0
laminated or waxed paper, label	4/0
laminated paper with plastic window, label	4/0
zip bags (laminated paper with plastic zip and plastic window), label	4/0
laminated cardboard tube packaging with laminated cardboard lid	4/0
laminated cardboard tube packaging with plastic lid	4/0



Phase 1: Identifying specific groups of packaging products

Bled Local Selection



Phase 1: Identifying specific groups of packaging products

Bled Local Selection

	STORAGE	PRODUCT	PACKAGING MATERIAL USED	LABEL	PRINT
FOOD PRODUCTS	dry storage	schnapps	glass	yes	4/0
		honey	glass	yes	4/0
		juice	glass	yes	4/0
		herbs	glass	yes	4/0
			metal spice tin with plastic window	yes	4/0
		pasta	plastic bag	yes	4/0
		dried apple slices	plastic bag	yes	4/0
		tea	plastic bag and paper wrap		4/0
		fresh apples	corrugated cardboard		4/0
		cheese	shrink foil	yes	4/0
GASTRONOMIC OFFER	refrigerate			yes,	
		cheese in gift packaging	shrink foil, corrugated laminated cardboard	plastic	4/0
		cake	single use plastic container	yes	4/0
		"potica" (dry cake)	wrapping foil	yes	4/0
			served in a catering way		
		Bled cream cake	served in a catering way		
		menu at the restaurant	served in a catering way		
		"posmodula"	single use packaging for street food		
ARTS AND CRAFTS PRODUCTS		kitchen utensils	paper etiquette		4/0
		whistle	corrugated cardboard	yes	4/0
		flip flops	corrugated cardboard	yes	4/0
		ceramics	corrugated cardboard	yes	4/0
			silk paper, fabric bag		
		souvenirs	corrugated cardboard	yes	4/0
			industrial felt gift bag	yes	4/0
			laminated paper		4/0
			paper		4/0
		t-shirt, towel	paper wrap		4/0
GIFT PACKAGING GIFT SHOP		tarot cards	laminated rigid box with foam		4/0
			laminated paper	yes	4/0
			combination of multi materials	yes	4/0
		usual purchase	paper bag		4/0
		events	laminated paper bag with nylon string		4/0



Phase 1: Identifying specific groups of packaging products

Bled Local Selection - recommendations

	STORAGE	PRODUCT	PACKAGING MATERIAL USED	PAPER LABEL	PLASTIC LABEL	PRINT	RECOMMENDATIONS	REPLACE WITH	WHAT HAPPENS
FOOD PRODUCTS	dry storage	liquids, honey, herbs	glass	yes		4/0			reuse, recycle
		pasta, dried fruit, tea	plastic bag	yes		4/0	REPLACE	biodegradable plastic bag	recycle
							REPLACE	paper with compostable or biodegradable lamination	recycle
		tea	plastic bag and paper wrap glued together			4/0	REPLACE	biodegradable plastic bag with glueless paper wrap	recycle
			laminated paper with plastic window	yes		4/0	REPLACE	paper with biodegradable lamination and biodegradable plastic window	recycle
							REPLACE	use an alternative (glass, only coated paper)	reuse, recycle
			zip bags (laminated paper with plastic zip and plastic window)	yes		4/0	REPLACE	biodegradable alternative (biodegradable plastic ZIP)	recycle
			laminated cardboard tube packaging with plastic lid	yes		4/0	REPLACE	don't laminate	recycle
		herbs	metal spice tin with plastic window	yes		4/0	REPLACE	alternative combination of materials that is easy to disassemble, reuse and recycle	reuse, recycle
		fresh apples	corrugated cardboard			4/0	REPLACE	don't laminate	recycle
		"potica" (dry cake)	wrapping foil	yes		4/0	REPLACE	alternative material	
	refrigerate	cheese	shrink foil	yes	yes	4/0	REPLACE IN THE FUTURE	there is no alternative material on the market at the moment	
		cheese	waxed paper	yes		4/0	REPLACE	paper with compostable or biodegradable lamination	recycle



Phase 1: Identifying specific groups of packaging products



Bled Local Selection - recommendations

STORAGE	PRODUCT	PACKAGING MATERIAL USED	PAPER LABEL	PLASTIC LABEL	PRINT	RECOMMENDATIONS	REPLACE WITH	WHAT HAPPENS
	cheese in gift packaging	laminated corrugated cardboard			4/0	REPLACE	don't laminate, structurally designed in a way it doesn't need glue	recycle
	dairy products	plastic container	yes		4/0	REPLACE	glass packaging	reuse, recycle
	cake	single use plastic container	yes		4/0	REPLACE	paper with biodegradable lamination and biodegradable plastic window	recycle
GASTRONOMIC OFFER	street food	single use packaging				REPLACE	paper with biodegradable lamination	recycle
ARTS AND CRAFTS PRODUCTS	craft products	paper etiquette			4/0	REPLACE	don't laminate, for string use natural fibers	recycle
	craft products	corrugated cardboard	yes		4/0	REPLACE	don't laminate	recycle
	souvenirs	paper			4/0	REPLACE	don't laminate	recycle
	t-shirt, towel	paper wrap			4/0	REPLACE	don't laminate, structured in a way that it sticks to itself, without the use of glue	recycle
	souvenirs, tarot cards	laminated paper	yes		4/0	REPLACE	don't laminate	recycle
	soap	waxed paper	yes		4/0	REPLACE	paper with compostable or biodegradable lamination	recycle
	tarot cards	laminated rigid box			4/0	REPLACE	use corrugated cardboard without lamination	recycle
	tarot cards	foam insert				REPLACE	use modular corrugated cardboard without lamination or starch foam or molded paper insert	recycle
	craft products	fabric bag					use natural fibers	reuse, recycle
	souvenirs	industrial felt gift bag	yes		4/0		use natural fibers	reuse, recycle



Phase 1: Identifying specific groups of packaging products



Bled Local Selection - recommendations

STORAGE	PRODUCT	PACKAGING MATERIAL USED	PAPER LABEL	PLASTIC LABEL	PRINT	RECOMMENDATIONS	REPLACE WITH	WHAT HAPPENS
GIFT PACKAGING	combinations	combination of multi materials	yes		4/0	REPLACE IN MOST CASES	see material recommendations	reuse, recycle
		laminated cardboard tube packaging with laminated cardboard lid	yes		4/0	REPLACE	don't laminate	reuse, recycle
		laminated cardboard tube packaging with plastic lid	yes		4/0	REPLACE	don't laminate	reuse, recycle
GIFT SHOP	usual purchase	paper bag			4/0	REPLACE	use just paper of suitable grammage, with as little ink as possible or replace it with reusable cotton bag	reuse, recycle
	events	laminated paper bag with nylon string			4/0	REPLACE	don't laminate, with as little ink as possible, for string use natural fibers or replace it with reusable cotton bag	reuse, recycle

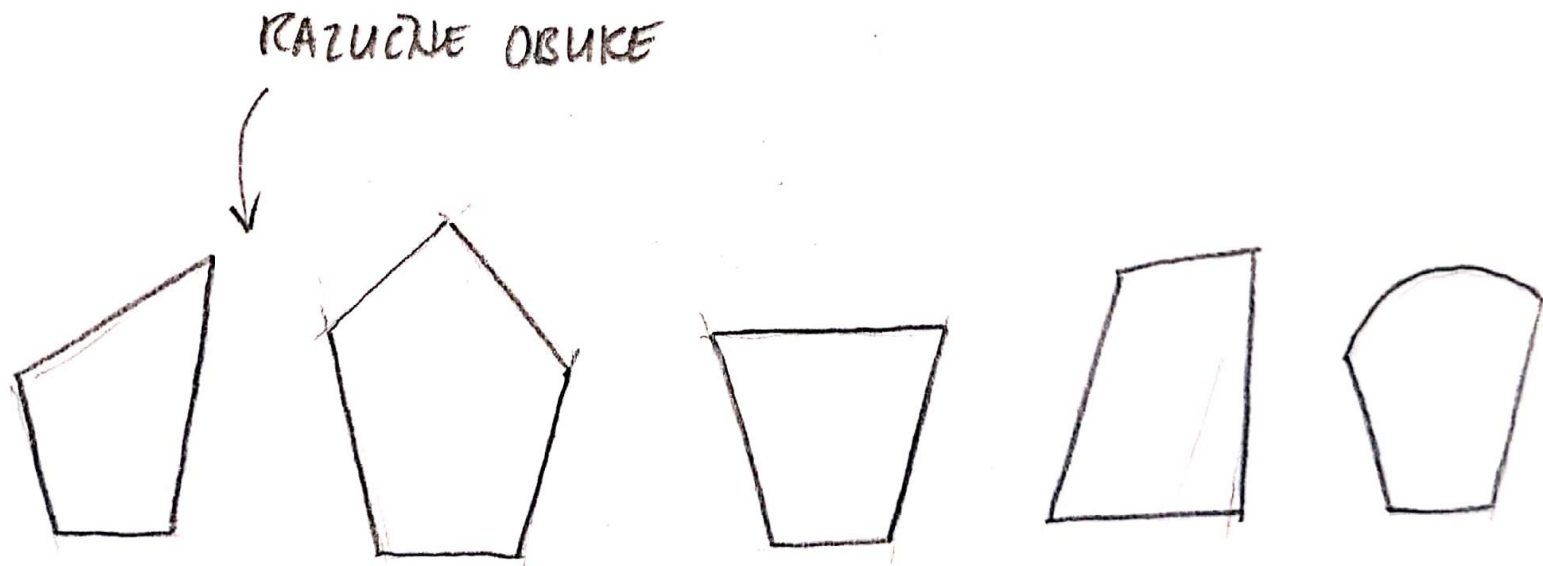


Phase 2

Overall packaging concept



Phase 2: Overall packaging concept



Phase 3

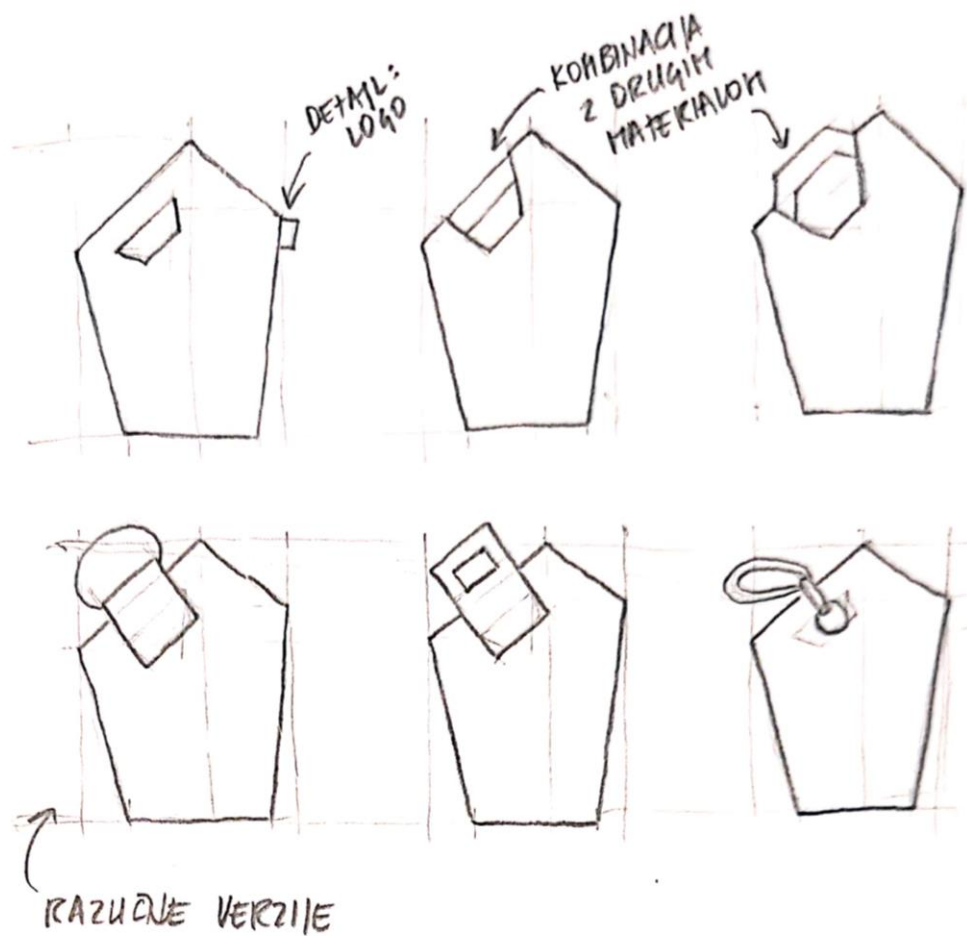
Gradual prototyping for a specific purpose type of packaging



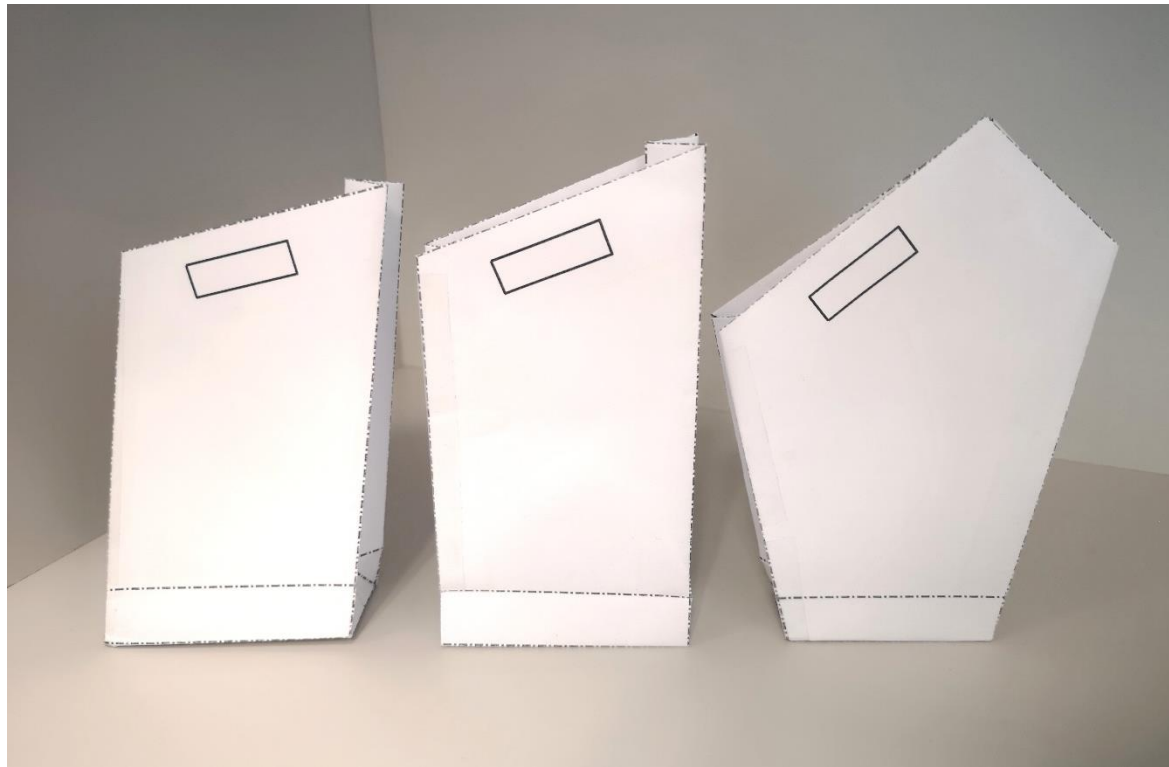
Phase 3: Prototyping - gift bag



Phase 3: Prototyping - gift bag

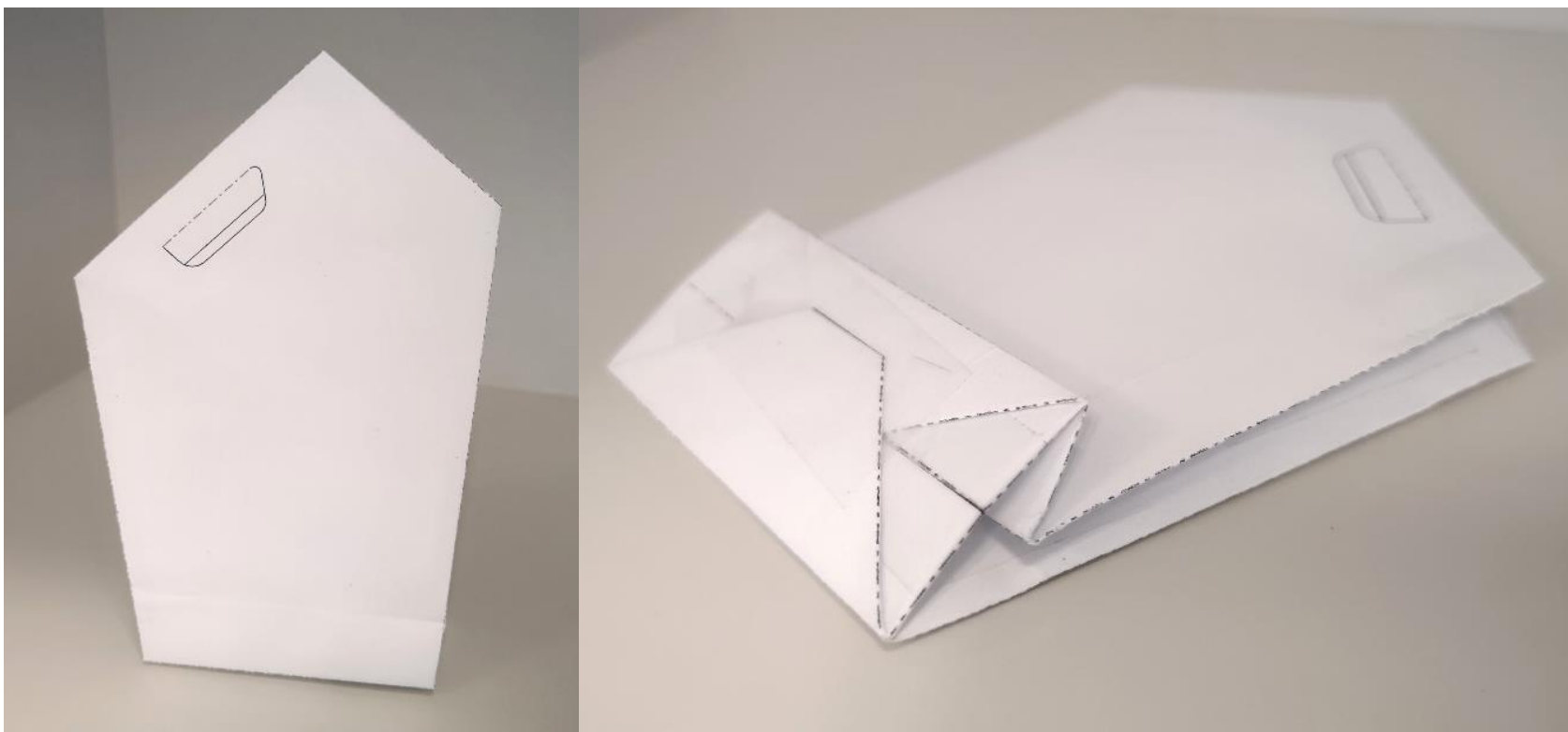


Phase 3: Prototyping - gift bag

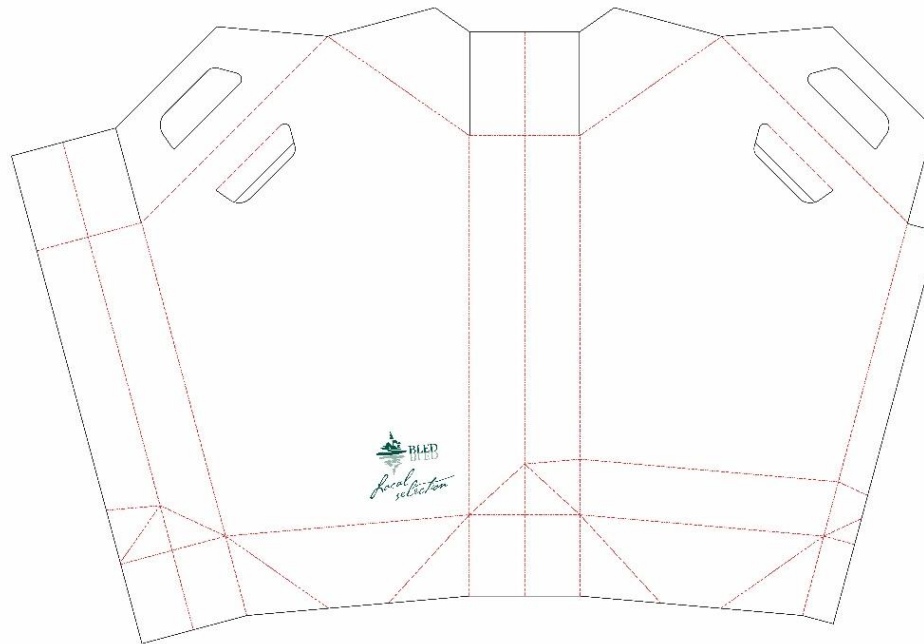


Phase 3: Prototyping - gift bag





Phase 3: Prototyping - gift bag



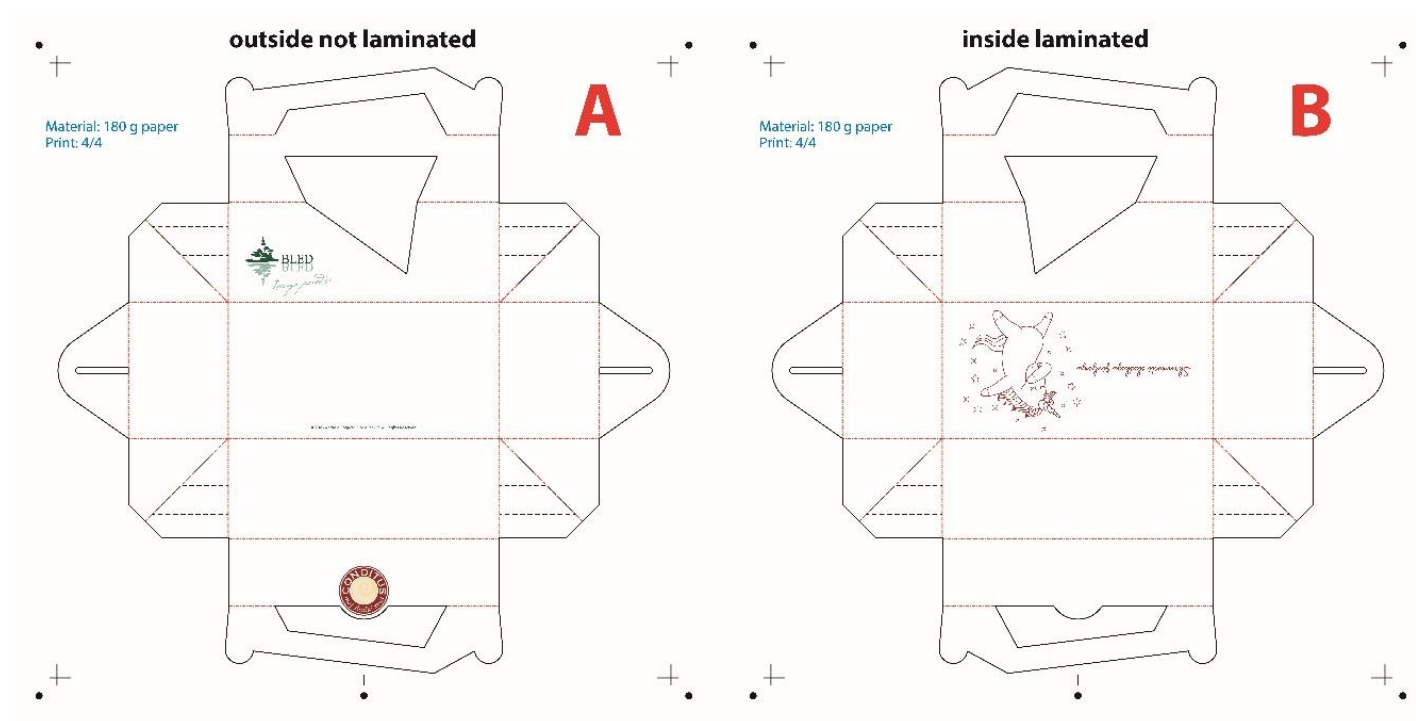
Phase 3: Prototyping - gift bag



Phase 3: Prototyping - cake packaging



Phase 3: Prototyping - cake packaging



Phase 3: Prototyping - cake packaging



Phase 3: Prototyping - cake packaging



Phase 4

Gradual production and implementation



1. What is our product?
2. Product properties?
3. Purpose of packaging?
4. What do we want from packaging, packaging functions, method and ease of use?
5. Quantity of packaging?
6. Acceptable price?
7. Graphic design



Central European recycling project tackles plastic waste problem



Thank you!



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