Location 1 (Apple Farm HQ)

Asset:

Cost: P1 * sum(x) Size: P2 * max(x)



Component: H2O Purchase H2O Purchase - temporal: true - bounds: [0, ...]

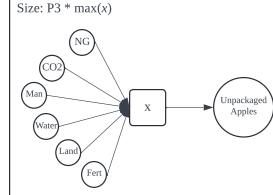
Resource nodes

Name	Resource Type	Location	Public	Ineq
H2O	H2O	1	1	1

F	Edges					
	Name	Resource Node	Type	fn	Τ/ΔΤ	Dir
	Н2О	H2O	temp	X	0	out

Asset: Apple Growing

Cost: P1 * max(x) + P2 * sum(x)Size: P3 * max(x)



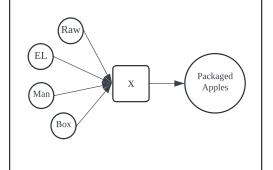
Component: State variable: Number of raw apples produced, x - temporal: true Apple Farm

]	Resource n	odes			
	Name	Resource Type	Location	Public	Ineq
	NG	NG	1	1	1
	CO2 Budget	CO2	System	1	1
	Water	Water	1	1	1
	Manpower	Manpower	1	1	1
	Fertiliser	Fertiliser	1	1	1
	Land	Land	1	1	1

			- l Period			[0, 100] onth)				
					I	Edges				
						Name	Type	fn	Τ/ΔΤ	Dir
	F	D 11:	-	۱ ۱		NG	temp	P1 * x	0	in
e	Location					CO2	temp	P2 * x	0	in
	1	1	1			Water	temp	P3 * x	0	in
	System	1	1			Manpower	temp	P4 * x	0	in
	1	1	1			Fertiliser	temp	P5 * x	0	in
	1	1	1			Land	specific	P6 * max(x)	0	in
	1	1	1	1		Land	эрссиис			111

Asset:
Apple Packaging

Cost: P1 * max(x) + P2 * sum(x)Size: P3 * max(x)



Component: Apple Packaging Factory

- bounds: [0, Period: 1 (day)

]	Resource n	ıodes			
	Name	Resource Type	Location	Public	Ineq
	Raw Apples	Raw Apples	1	1	1
	EL	Electricity	1	1	1
	Manpower	Manpower	1	1	1
	Box	Box	1	1	1

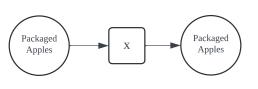
	State variable: Number of packaged apples prod
	- temporal: true
ging Factory	- bounds: [0, 100]

ate variable: Number of packaged apples produced, x
- temporal: true
- bounds: [0, 100]
eriod: 1 (day)

Edges				
Name	Type	fn	Τ/ΔΤ	Dir
Raw Apples	temp	P1 * x	0	in
EL	temp	P2 * x	0	in
Manpower	temp	P3 * x	0	in
Box	temp	P4 * x	0	in
Packaged Apples	temp	P5 * x	1	out

Asset: Apple Storage

Cost: P1 * max(x) + P2 * sum(x)Size: P3 * max(x)



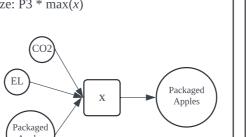
Component: Apple Warehouse - bounds: [0, Period: 1 (day)

State variable: Number of packaged apples, x temporal: true

Resource 1	10des			
Name	Resource Type	Location	Public	Ineq
Packaged Apples	Packaged Apples	1	1	1

Edges					
Name	Resource Node	Type	fn	Τ/ΔΤ	Dir
Packaged Apples In	Packaged Apples	temp	Х	0	in
Packaged Apples Out	Packaged Apples	temp	X	1	out

Asset: **Apple Transport** Cost: P1 * max(x) + P2 * sum(x)Size: P3 * max(x)



Component:

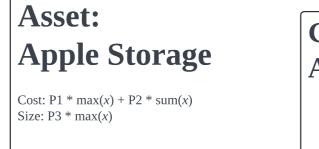
State variable: Number of packaged apples, x
- temporal: true
- bounds: [0, ...]
Period: 3 (day)

Edges

Name	Resource Type	Location	Public	Ineq
EL	Electricity	1	1	1
CO2 Budget	CO2	System	1	1
Packaged Apples HQ	Packaged Apples	1	1	1
Packaged Apples Store	Packaged Apples	2	1	1

Name	Type	fn	Dir	
EL	temp	P1 * x	0	in
CO2 Budget	temp	P2 * x	0	in
Packaged Apples HQ	temp	Х	0	in
Packaged Apples Store	temp	Х	03	out







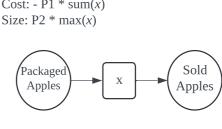
Resource nodes

Resource nodes							
Name	Resource Type	Location	Public	Ineq			
Packaged Apples	Packaged Apples	2	1	1			

	E	Edges					
		Name	Resource Node	Type	fn	Τ/ΔΤ	Dir
		Packaged Apples In	Packaged Apples	temp	Х	0	in
_ _		Packaged Apples Out	Packaged Apples	temp	X	1	out



Cost: - P1 * sum(x) Size: P2 * max(x)



Component:

Apple Store

State variable: Amount of apples sold, x
- temporal: true
- bounds: [0, ...]
Period: 1 (day)

Edges Resourc

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ce 1	ıodes						Name	Resor No			
<u>,</u>	Resource Type	Location	Public	Ineq			Packaged Apples	Packa App			
oles	Sold Apples	2	1	1			Sold Apples	Sold A			
						Ľ					