



Why IBC??



Advantages of IBC



Cost Savings



Improve Storage Efficiency



Improve Health, Safety, and Environment



Cost Savings

(A) Reduce Packaging Cost



USD\$ 75 per trip
Within S.E.A



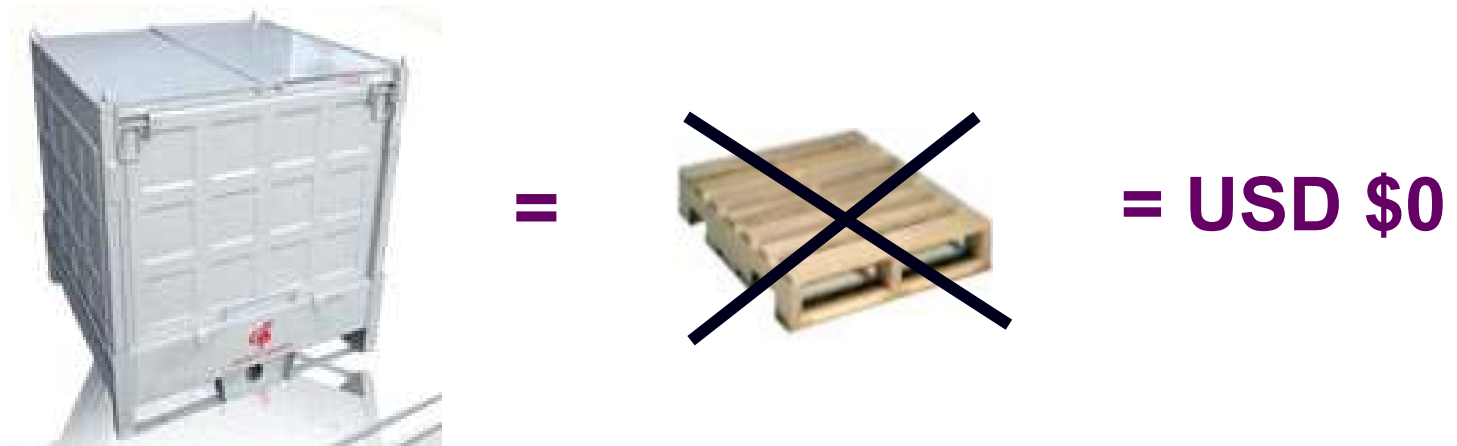
USD\$ 25 x 5 = USD\$ 125
per trip

Reduce Packaging Costs by 40%



Cost Savings

(B) Eliminate Pallets

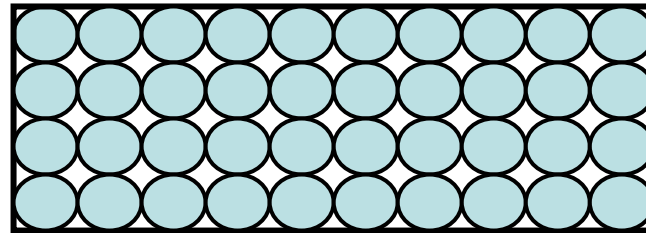


(*) In addition, no fumigation required where applicable

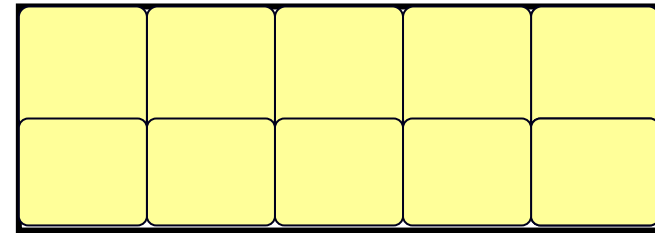


Cost Savings

(C) Reduction of Handling time



80 drums per 20 ft FCL



20 IBCs per 20 ft FCL

Filling	80 X	20 X
Labeling	80 X	20 X
Trips by forklift – stuffing	40 X	20 X
Trips by forklift – unstuffing	40 X	20 X
Average manpower	2 X	1 X
Ave labour-hour per packaging	0.875	0.875
Total labour-hours	70 hrs	17.5 hrs

75% Savings on Handling time for 1 FCL



Cost Savings

(D) Reduce Residue Loss



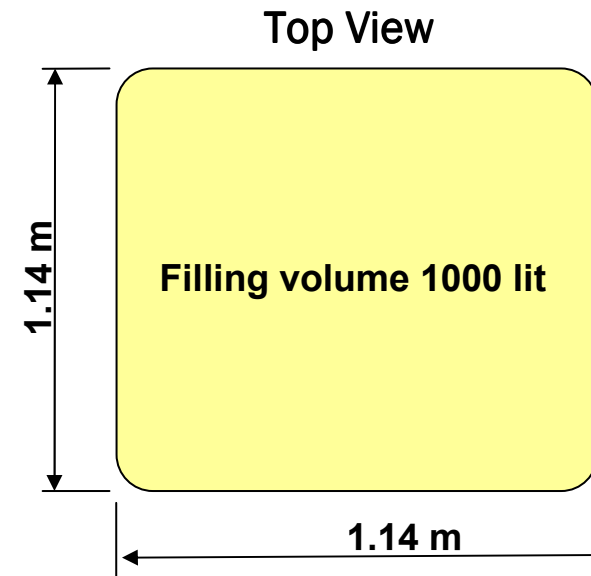
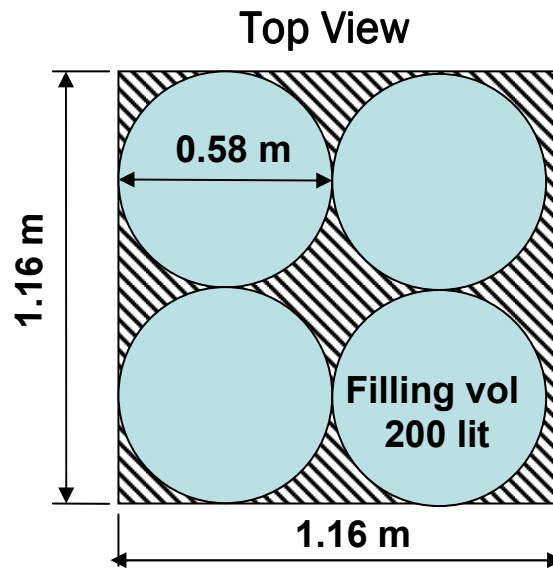
Average left over after discharge	= 1 - 3 %	= 0.1 - 0.5%
Average loss of product	= 10 - 30 litres	= 1 - 5 litres

Reduce residue loss by 84 - 90%



Improve Storage Efficiency

(A) Less Storage Floor Area (When laden)



Storage Area Required = 1.35 m²

Storage Capacity = 0.80 m³

Storage Area/m³ = 1.69 m²

= 1.3m²

= 1.00 m³

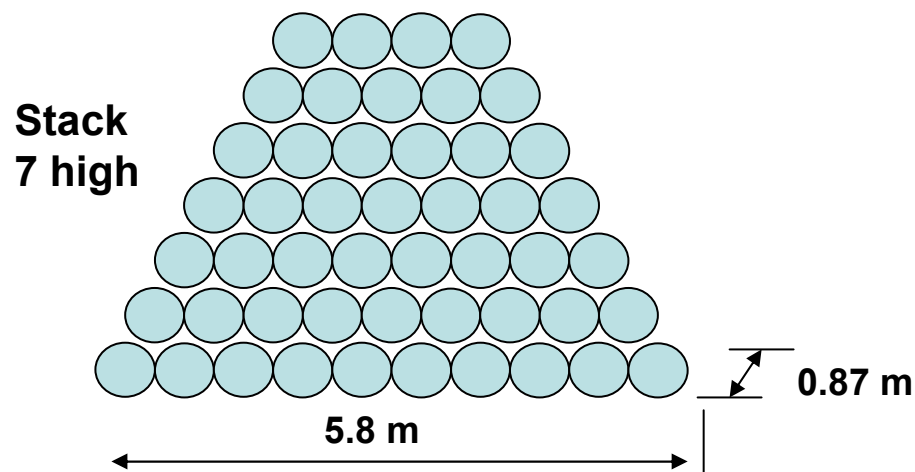
= 1.30 m²

Improve storage area per m³ by 23 % for each stack



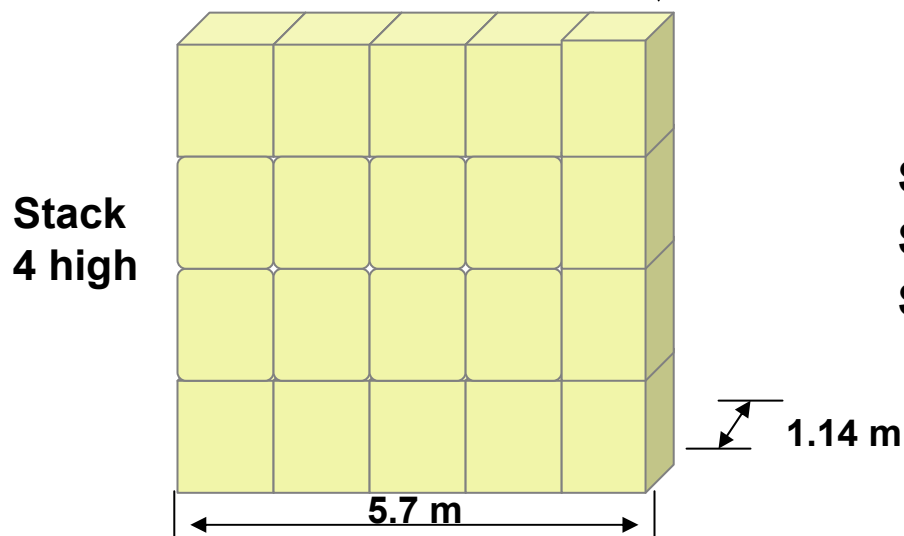
Improve Storage Efficiency

(B) Less Storage Floor Area (stored horizontally)



Storage Floor Area Used = 5.0 m²
Storage Capacity = 9.8 m³
Storage Area /m³ = 0.5 m²

Improve storage area per m³
by 35 %

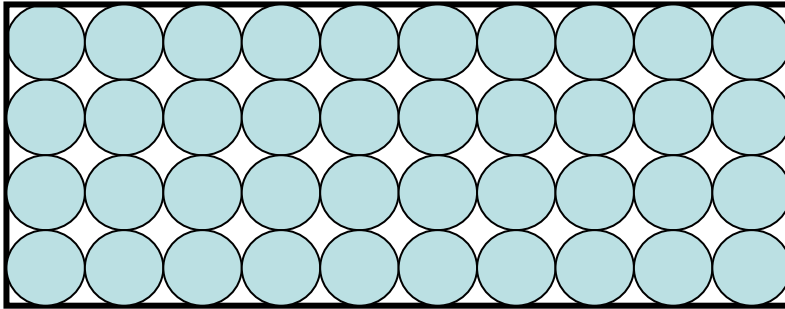


Storage Floor Area Used = 6.5 m²
Storage Capacity = 20 m³
Storage Area /m³ = 0.325 m²



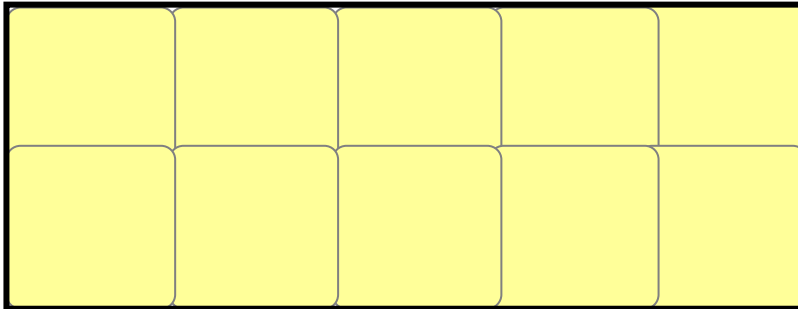
Improve Storage Efficiency

(C) Improve Container Loading



Total drum = 80 units
Total volume = 16,000 lit

**Additional 20%
per 20 ft container**



Total IBC = 20 units
Total volume = 20,000 lit



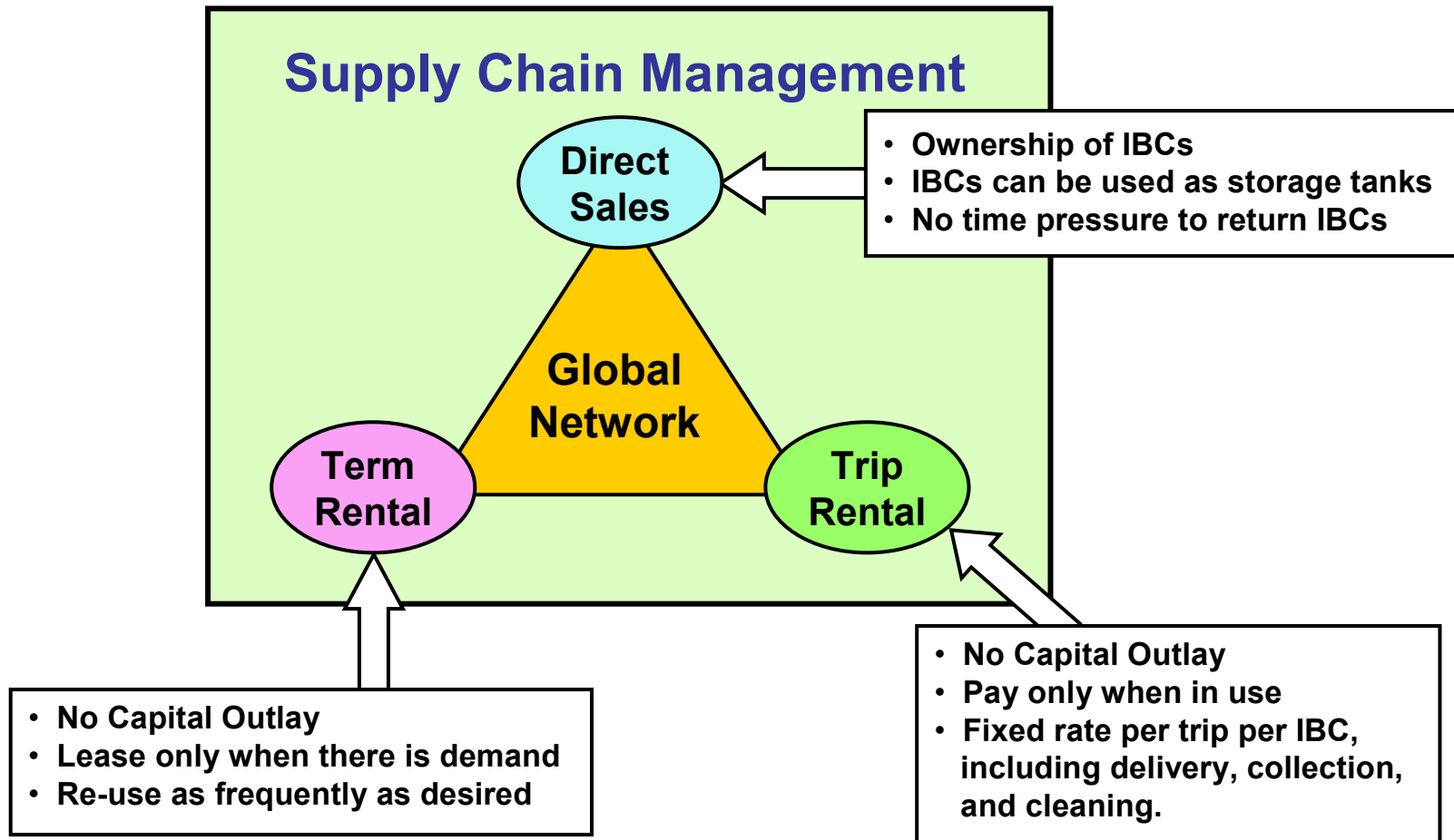
Improve Health, Safety, Environment

- **Minimize manhandling** ⇒ **Improve accident and injury rate**
- **Reduce residue** ⇒ **Minimize disposal cost**
- **Reduce spillage** ⇒ **Improve housekeeping**
- **Re-Use** ⇒ **Improve Environmental Friendliness**



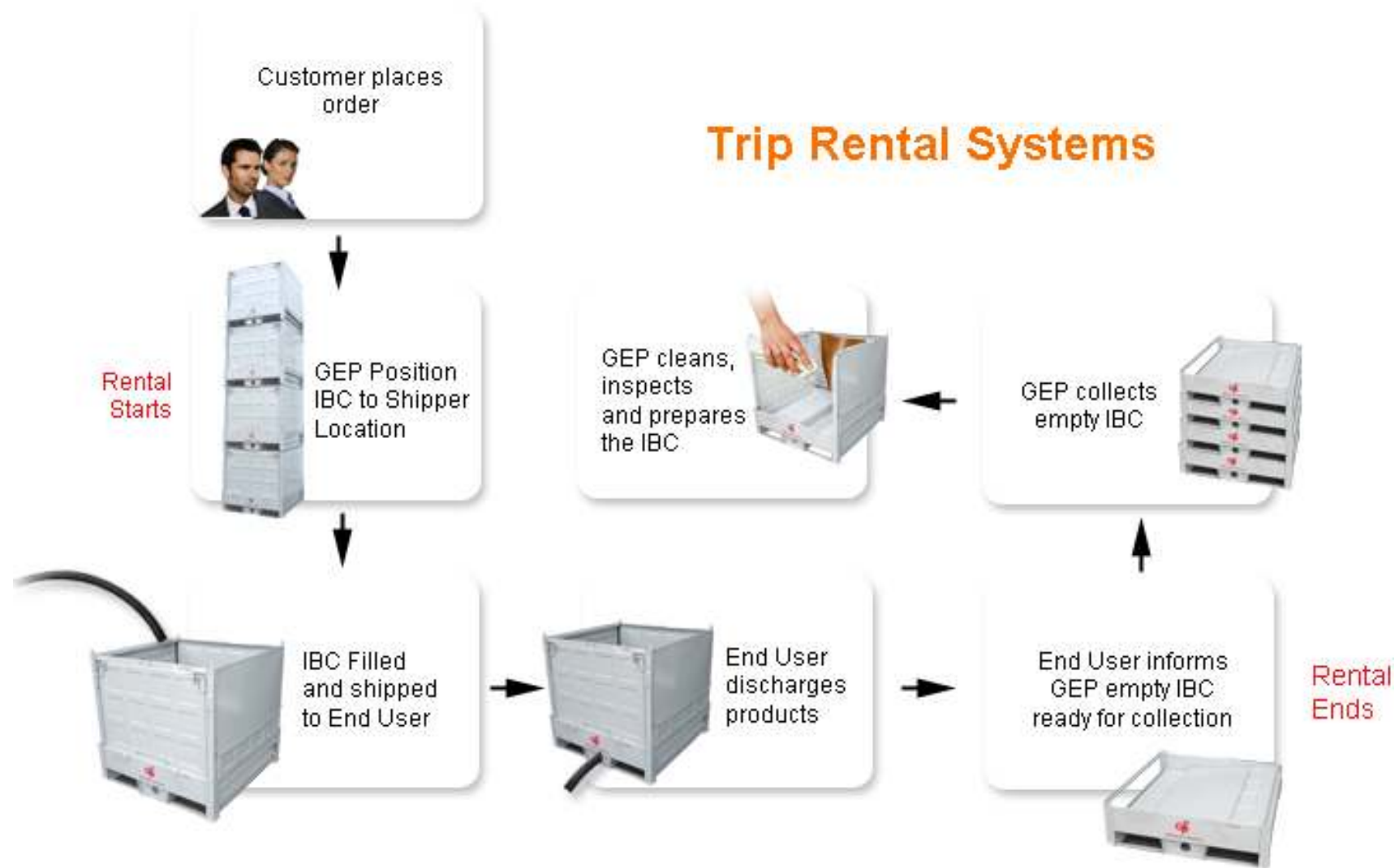


GEP Bulk Containers Supply Models





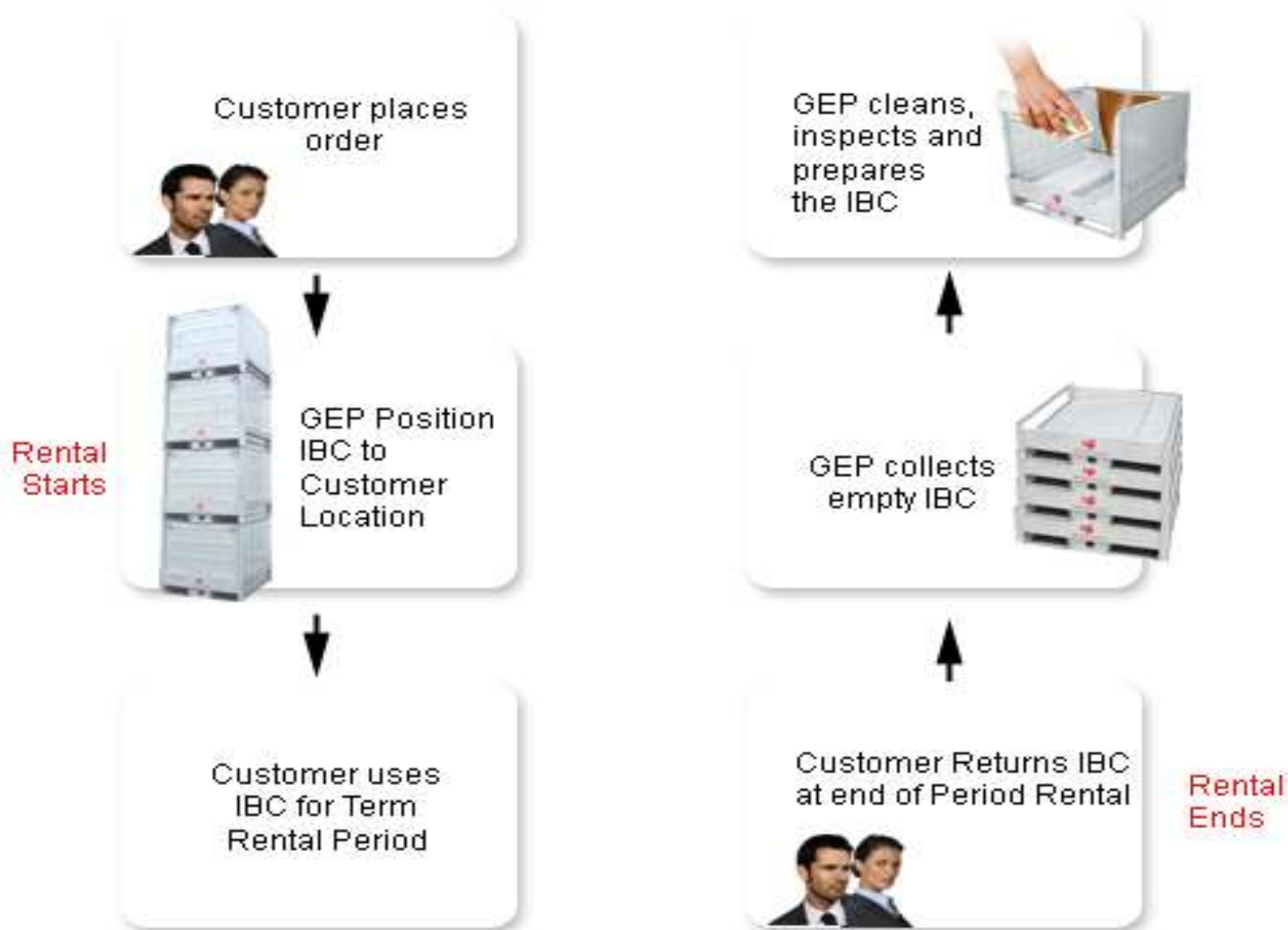
GEP Bulk Containers Supply Models





GEP Bulk Containers Supply Models

Term Rental Systems





In a Snapshot

	Cube 1000 IBC 1x 1100L	Drums 5x 210L	% Savings
Packaging Cost	Appx USD\$ 75/trip	Appx USD\$125/trip	40%
Pallets	Not Needed	USD \$4 per pallet	100%
Total Handling Time needed	17.5 Hrs per FCL	70 Hrs per FCL	75%
Residue Loss per 1000 litres	1 – 3 Litres	10 – 30 Litres	84 – 90%
Storage Floor Area Per M³	1.3 m ²	1.69 m ²	23%
Container Loading	20,000 Litres	16,000 Litres	20%



IBC Worldwide network



- Australia
- China
- Europe
- Indonesia
- Israel
- Malaysia
- Singapore
- Thailand
- Vietnam