



Recycling of aluminium from end-of-life commercial vehicles – ANNEX II

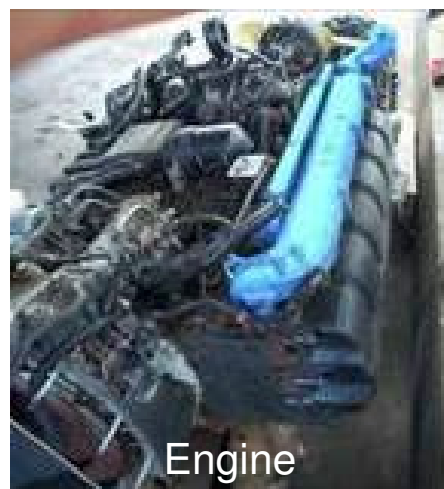
End-of-life processing and aluminium
inventory



Annex II.1

Road tractor

First dismantling steps



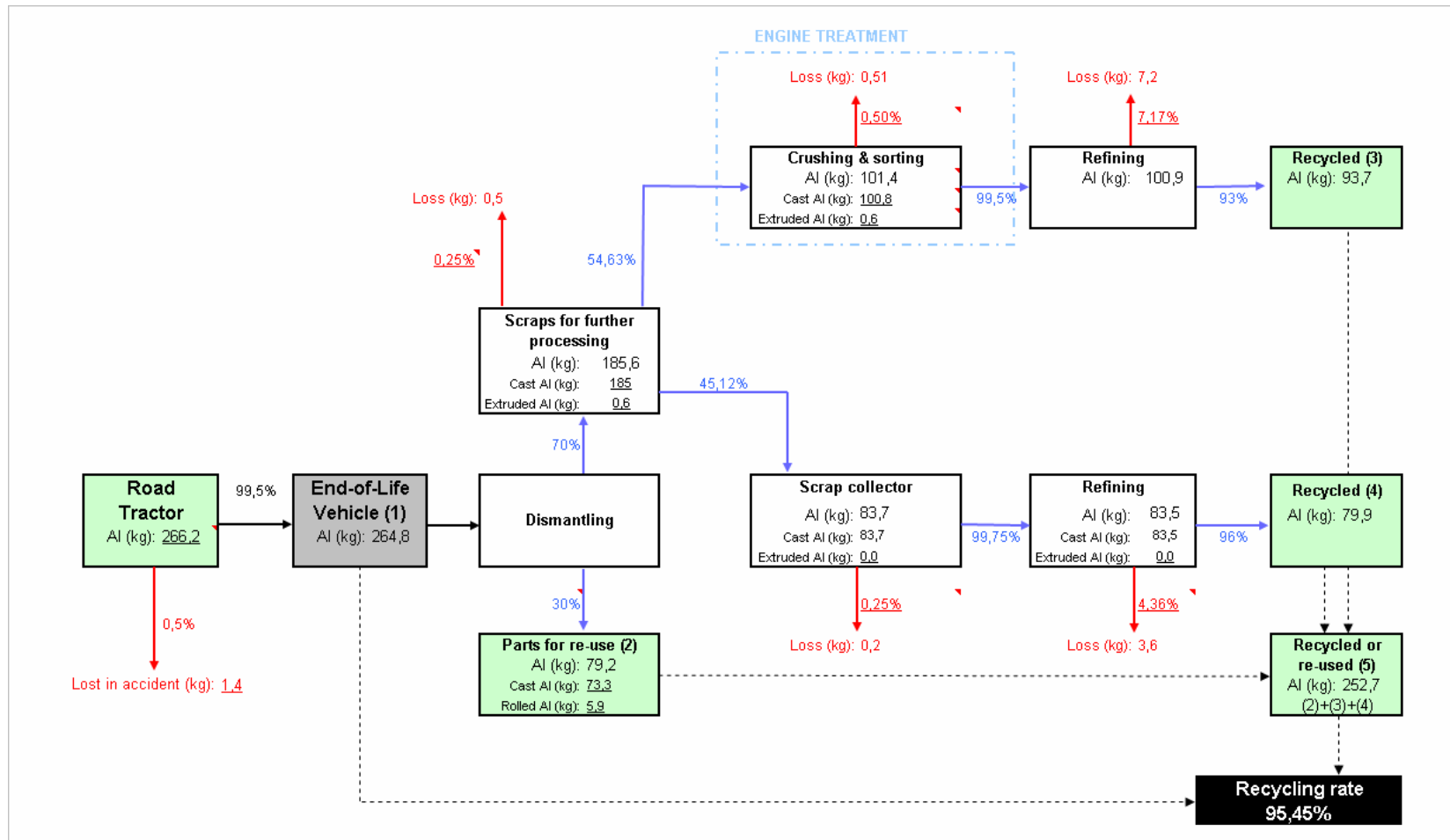
Aluminium inventory (powertrain excluded)

	Designation	Alu	Parts for re-use	recycling	Weight (kg)
Cabin part	Transmission case	•		•	30
	2 step plate support	•		•	21.2
	2 driver's cab support	•		•	
	2 filler panel support	•		•	
	Bracket + top bracket	•		•	
	3 Radiators	•		•	31
	Air valve	•		•	1.5
	Sub total :				83.7 kg
	Front suspension	•	•		8.8
	Tilt arm	•	•		2.8
	Rear fitting	•	•		1.5
	Rear E strike	•	•		3.3
	Sub total :				16.4 kg

Aluminium inventory from powertrain

	Designation	Alu	Parts for re-use	recycling	Weight (kg)
Powertrain parts	Extension housing	•		•	20.7
	Mounting joint spie AV	•		•	1
	Valve housing	•		•	2.2
	Filter head G.O.	•		•	1.6
	Oil filter head	•		•	4.3
	Vanne Parker	•		•	0.8
	Cylinder head cover G9	•		•	18.8
	Cup G9	•		•	27.1
	Intake manifold	•		•	5.3
	Timing gear cover	•		•	1.8
	Vanne AVU	•		•	1.7
	EPG	•		•	4.3
	Belt tensioning idler pulley	•		•	1.5
	Logic controller	•		•	1.8
	Cooling plate	•		•	0.7
	Air heater	•		•	0.8
	Air inlet tube	•		•	0.8
	PTO plate	•		•	0.6
	Exchanger plate	•		•	5.8
	Spacer engine fan	•		•	0.3
	Sub total :				101.9 kg
	Oil pump	•	•		1.2
	Hydraulic pump	•	•		6.3
	Water pump	•	•		10.9
	turbocharger	•	•		2
	Starter	•	•		8.9
	Air conditioning system	•	•		7.9
	Alternator	•	•		5.5
	Air compressor	•	•		20.1
	Sub total :				62.8 kg

Mass flow and recycling rate





Annex II.2

Flatbed semi-trailer

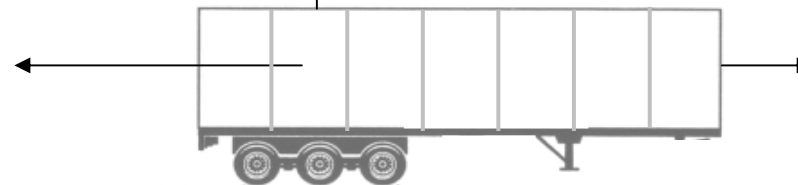
Dismantling of the superstructure



← Framing system →



Side curtain



Front wall

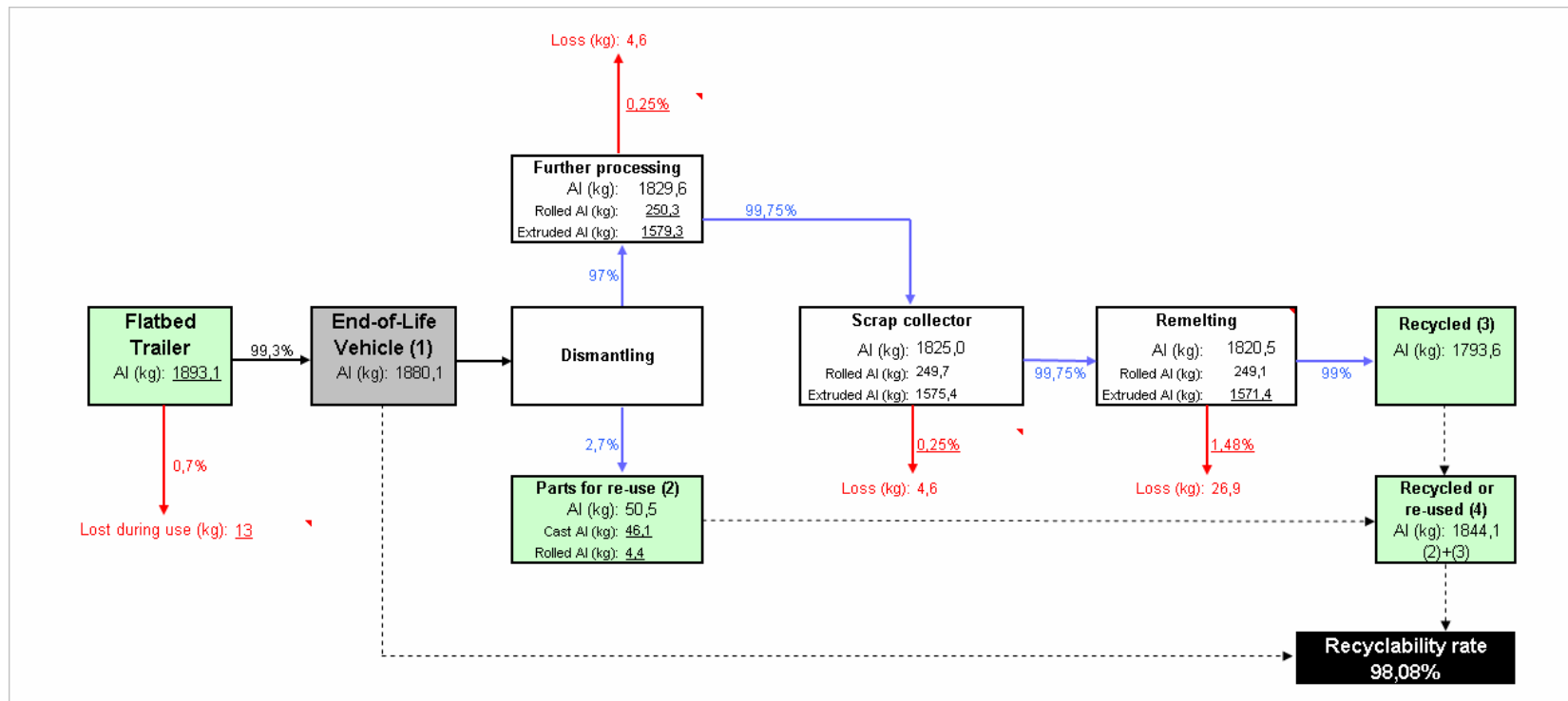
Dismantling of chassis and flooring



Aluminium inventory

Designation	Alu	Other Mat.	Re-use	recycling	Weight (kg)	Process
Cross sill of roof	•			•	429.3	Extruded
Omegas	•			•		Extruded
Rear door pillar	•			•		Extruded
Outer rail	•			•		Extruded
Safety hoods	•			•		Rolled
Front face protection shield	•			•	120.3	Rolled
Front face	•			•		Rolled
Chassis (in 3 parts)	•			•	1280	Rolled 10% Extruded 90%
Sub total :					1,829.6 kg	
Air valves (x5)	•		•		9.4	Cast
Valves safety hood	•		•		4.4	Rolled
Suspension gears on axles (x6)	•		•		30.6	Cast
Brake cylinders (x4)	•		•		6	Cast
Spacer bands	•		•		0.12	Cast
Sub total :					50.5 kg	

Mass flow and recycling rate





Annex II.3

Silo semi-trailer

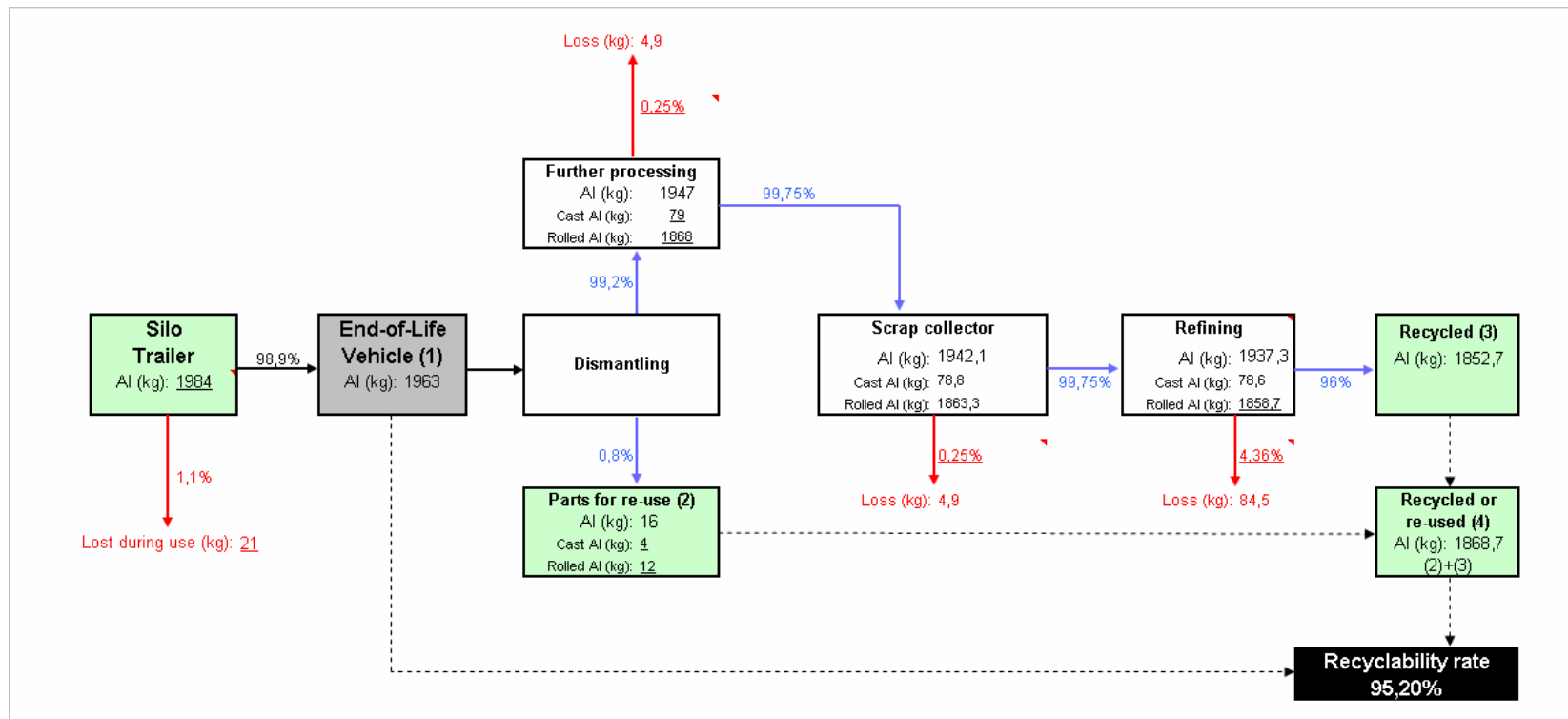
Main processing steps



Aluminium inventory

	Designation	Alu	Other Materials	Part for re-use	recycling	Weight (kg)	Process type
Silo parts	Tank vessel	●			●	1,868	Rolled
	Tank lids (x3)	●			●	73.5	Cast
	Discharge piping	●			●	5.5	Cast
	Sub total :						1,947 kg
Chassis Part s	Valves	●		●		1	Cast
	Wheel cover	●		●		3	Cast
	Fender bracket	●		●		12	Rolled
	Sub total :						16 kg

Mass flow and recycling rate

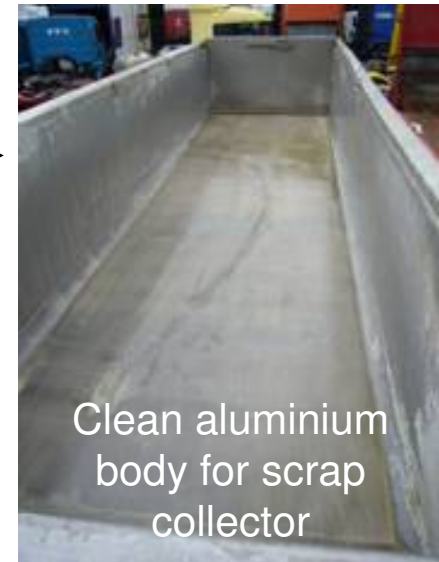
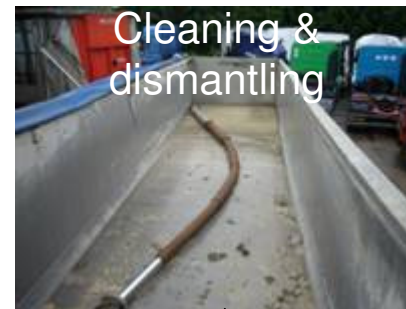




Annex II.4

Tipping semi-trailer

Main dismantling steps



Some of the dismantled
non-aluminium parts



Mass flow and recycling rate

