

TRANSNET



delivering freight reliably



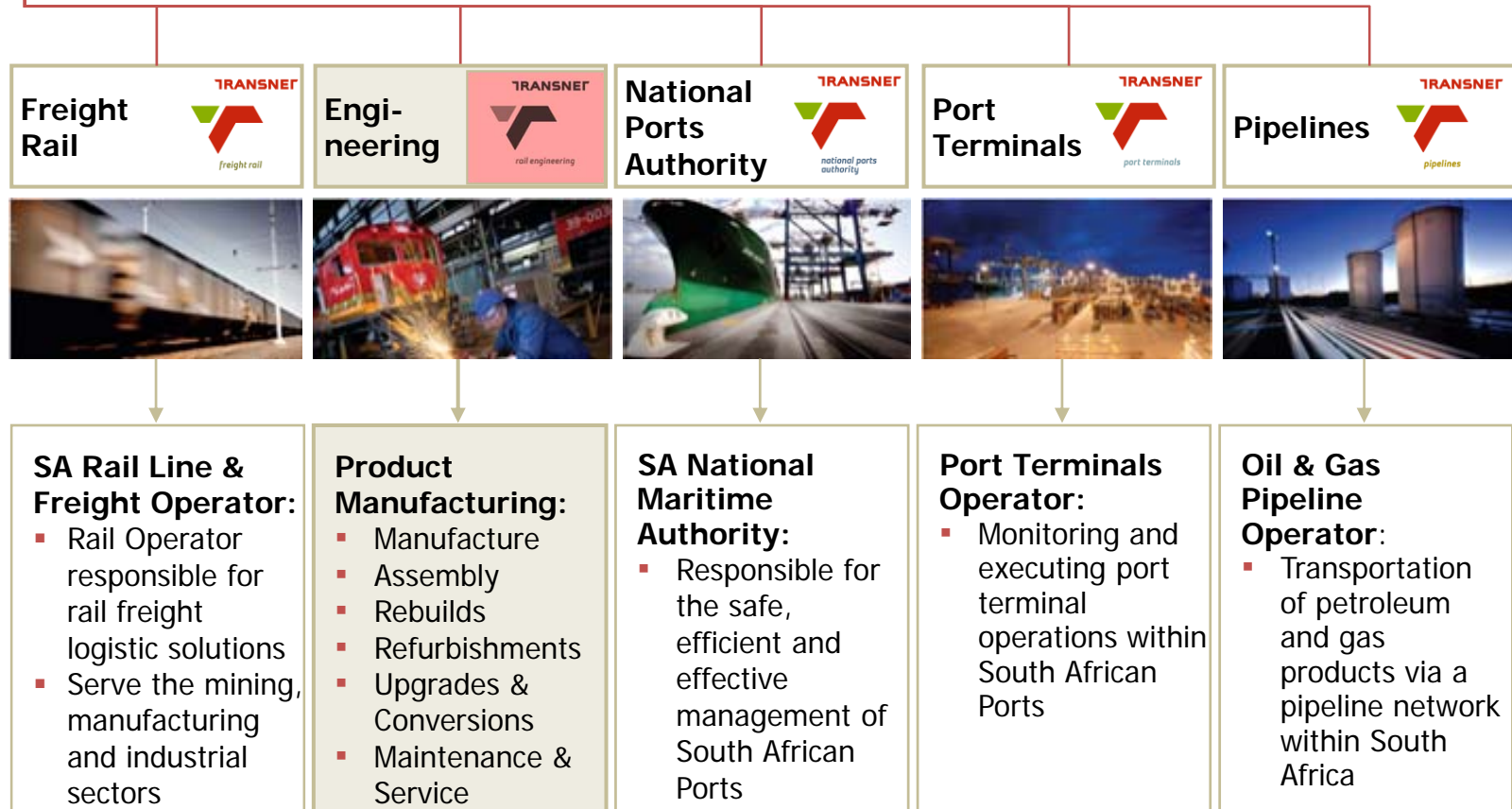
Developing Logistics Capabilities of Sub- Saharan Africa and Tapping into the Potential of the Land-Locked Countries



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17th Intermodal Africa 2017

TE is the Manufacturing Division of Transnet



1 SOC – State Owned Company
SOURCE: Team analysis

TE Offering



Locomotives



Wagons



Coaches



Port Equipment



Wheels



Rolling Stock Equipment



Rotating Machines



Auxiliary



Foundry



SOURCE: Team analysis



Services per product offering

	Research & Design	Manu- facture	Assembly / Kits	Re-build / Re-man.	Refurbish & Upgrades	Maintain & Repair
Our products						
Complete products	Locomotives	✓	✓	✓	✓	✓
	Wagons	✓	✓	✓	✓	✓
	Coaches	✓	✓	✓	✓	✓
	Port	✓		✓	✓	✓
Subsystem specialities	Wheels	✓		✓	✓	✓
	Rolling Stock Equipment	✓	✓	✓	✓	✓
	Rotating Machines	✓		✓	✓	✓
	Auxiliary	✓	✓	✓	✓	✓
	Foundry	✓	✓	✓	✓	✓



SOURCE: Team analysis

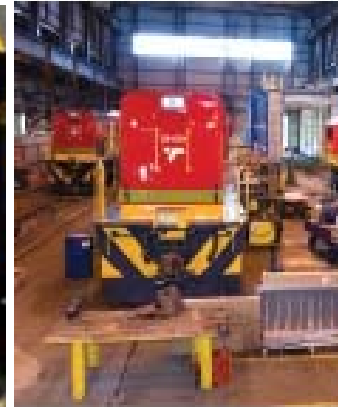
TE is strongly positioned along the manufacturing value chain, partnering with leading OEM's and component manufacturers to provide its broad set of quality products

✓ Our capability



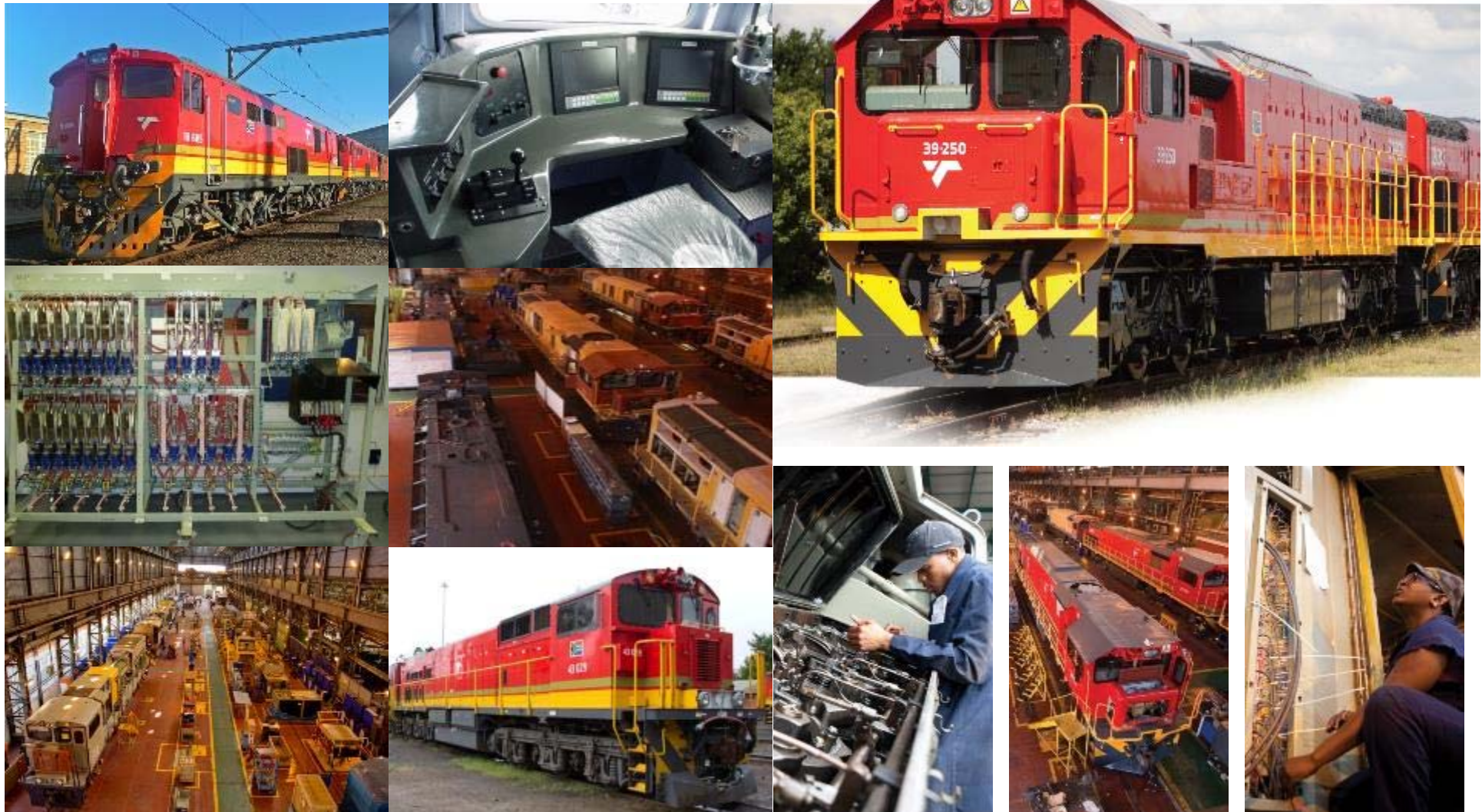
Locomotive Business

- Designed by Africans for Africa
- Designed and manufactured in South Africa
- State of the art electronic control system
- $\frac{3}{4}$ cab placement for acceptable visibility in both directions for travel
- Dynamic braking down to 0 km/h
- Improved adhesion with AC traction
- Black box and event logger
- Slow speed loading ability





Images of our Locomotive products



SOURCE: Team analysis



Coaches Business

The Coach Business has the capacity to Upgrade & Manufacture :

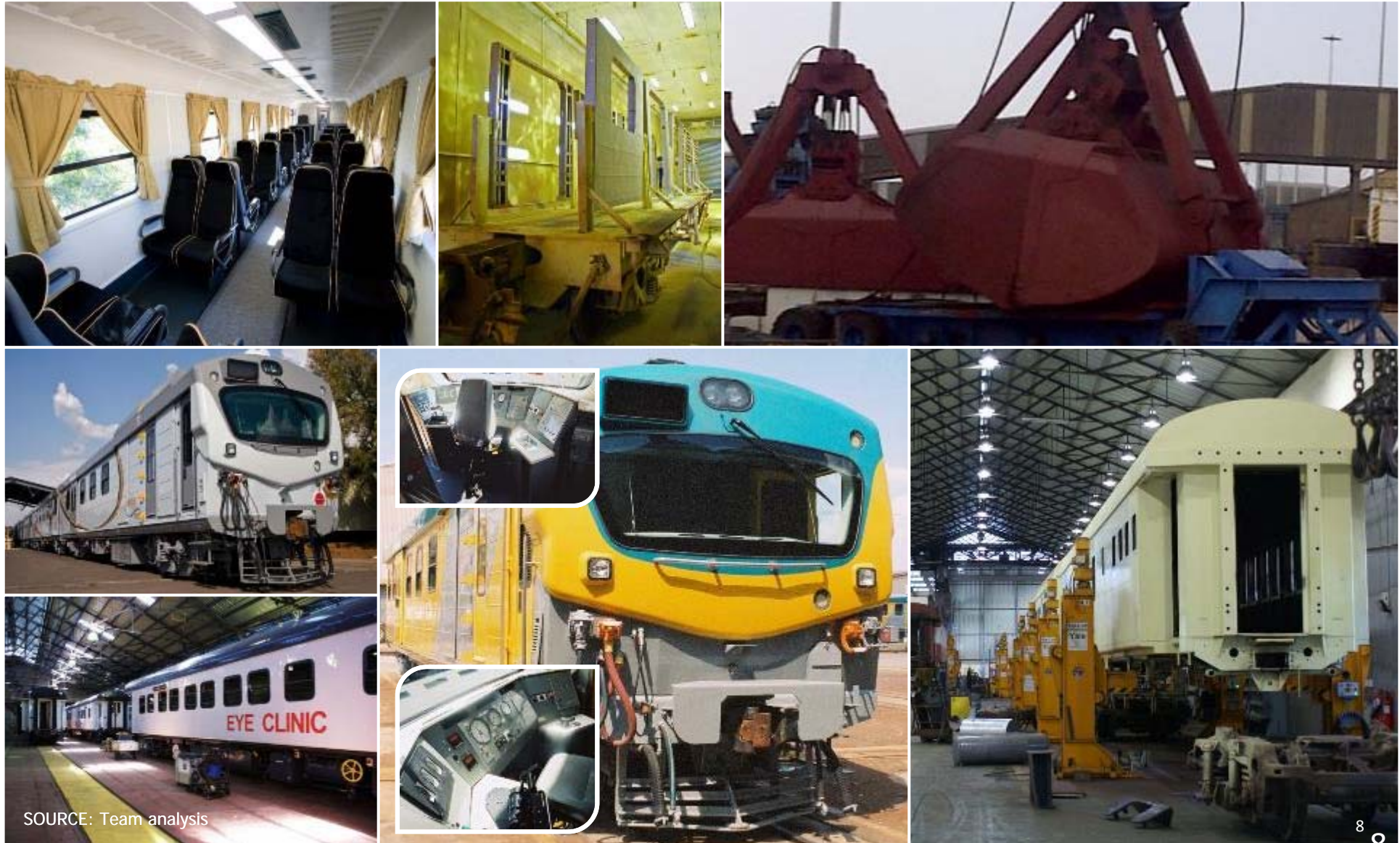
- Suburban Electric Train Sets
- Mainline Coaches
- Development of 10m5 and Business Express

Design Includes:

- Dining Cars
- Lounge & Kitchen Cars
- Sleeper & Seater Coaches &
- Power Units



Images of our facilities and products



SOURCE: Team analysis

Wagon Business

Manufactures :

- Heavy Haul Coal & Iron Ore Wagons with a tare ratio as high as 5:1
- Cement Wagons
- Car Carriers
- Intermodal wagon solutions
- Fuel & Gas Tankers

Heavy Refurbishment:

- Wreckage Repairs
- Heavy Overhauls to add new life
- Conversions & Upgrades to improve haulage efficiency

Capacity:

- Maintains a fleet of more than 75 000 Freight wagons
- Manufactures more than 3500 new wagons per annum





Images of some of our products

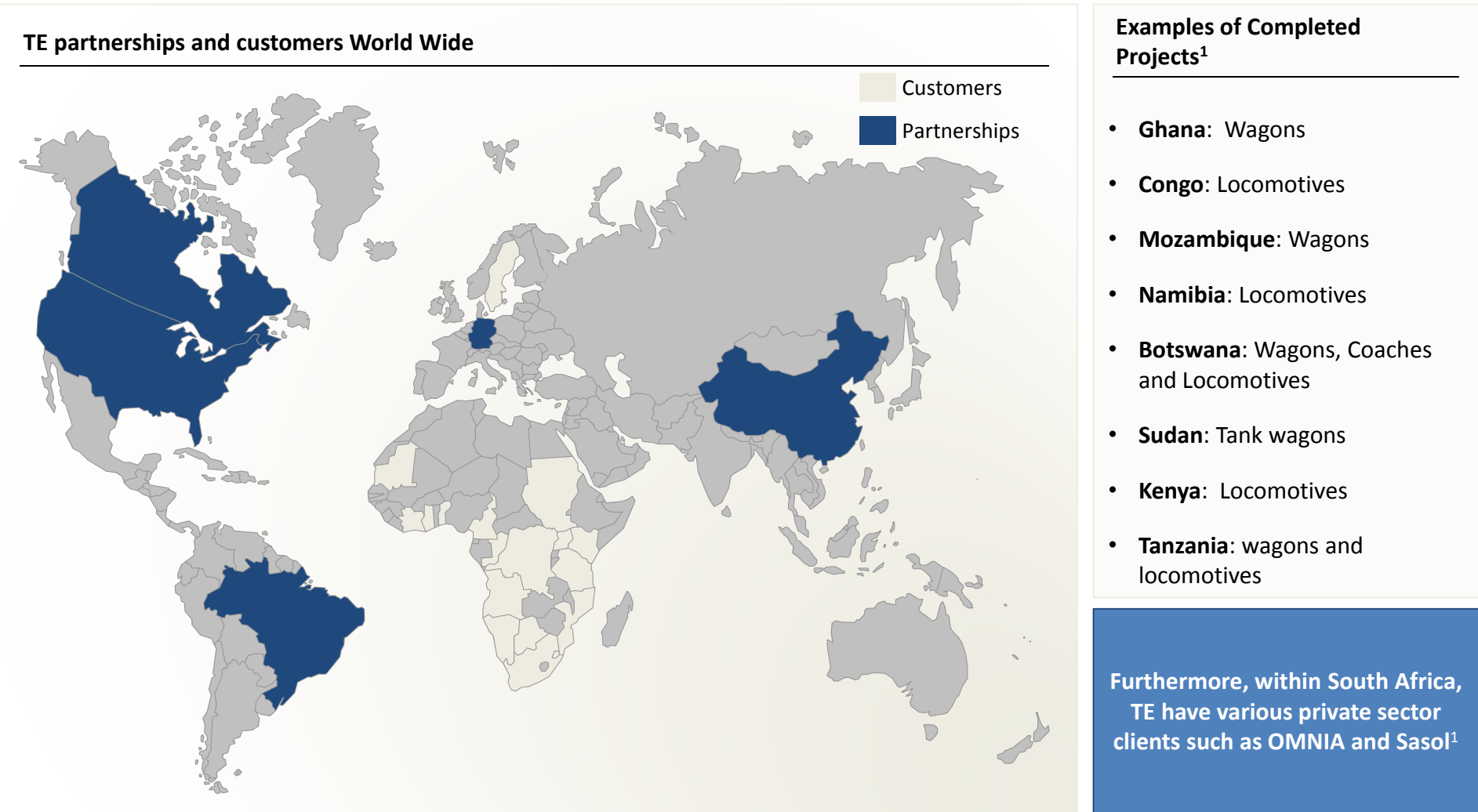


SOURCE: Team analysis

Worldwide Footprint

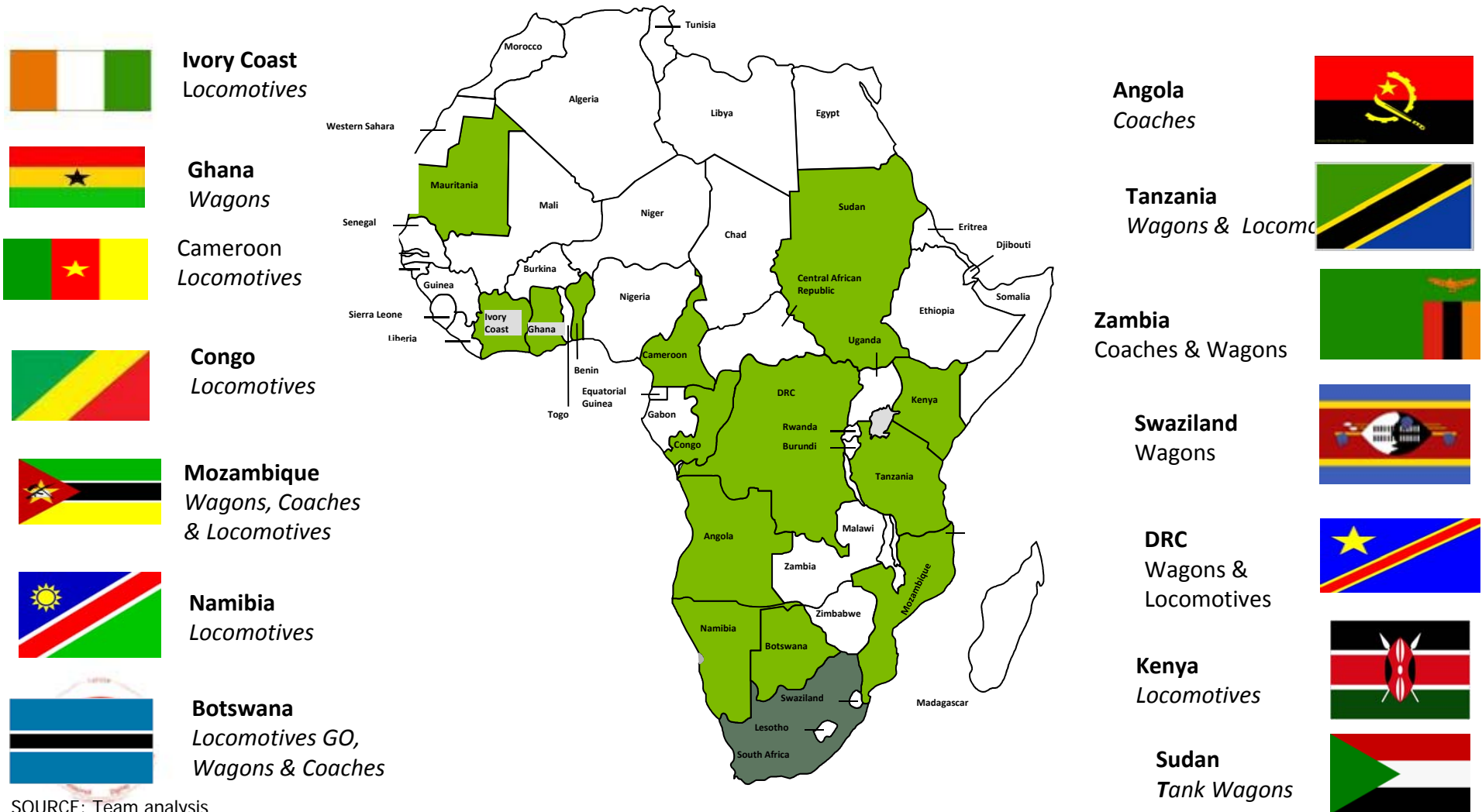


TE's customer and partnership reach



1: Not exhaustive and recent examples
SOURCE: Team analysis

Transnet Engineering's Footprint in Africa



SOURCE: Team analysis



CHALLENGES

The majority of railway operators utilises specialized wagons for specific commodities

These specialised wagons are utilised seasonally.

These poses a challenge with maintenance operational costs

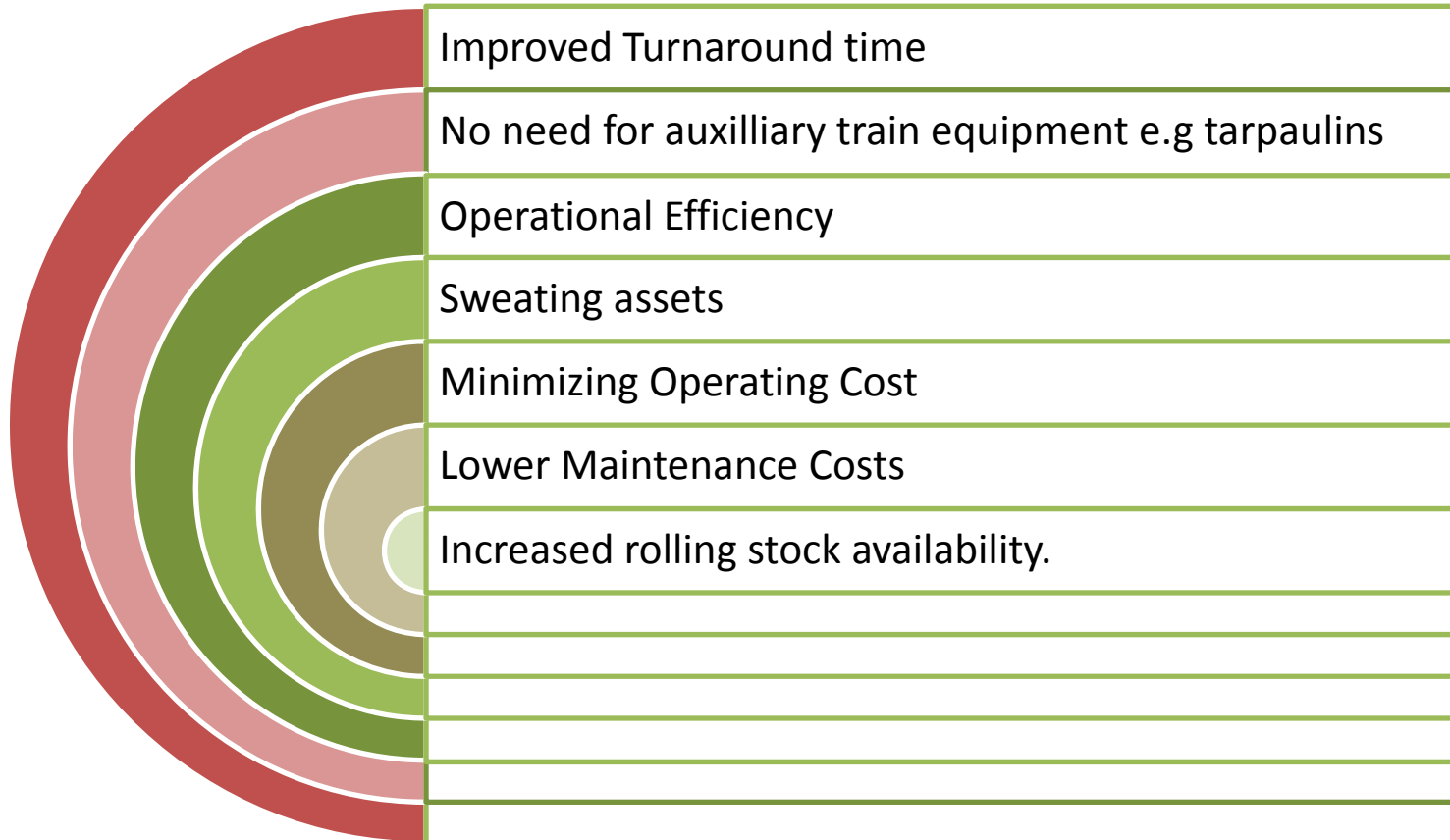
Operational inefficiency due to the empty train on the return leg

Due to these wagons being seasonal, you tend to stage them during off season and this creates a problem with storage.

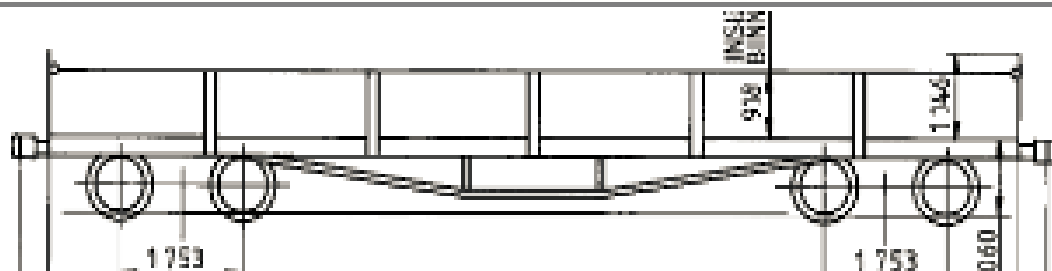
TE Intermodal Solution



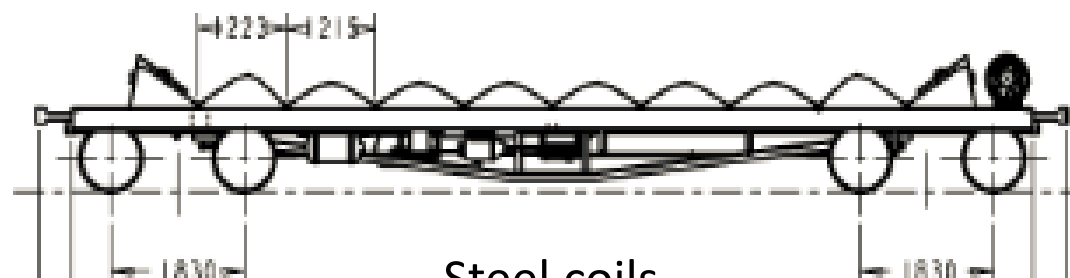
BENEFITS



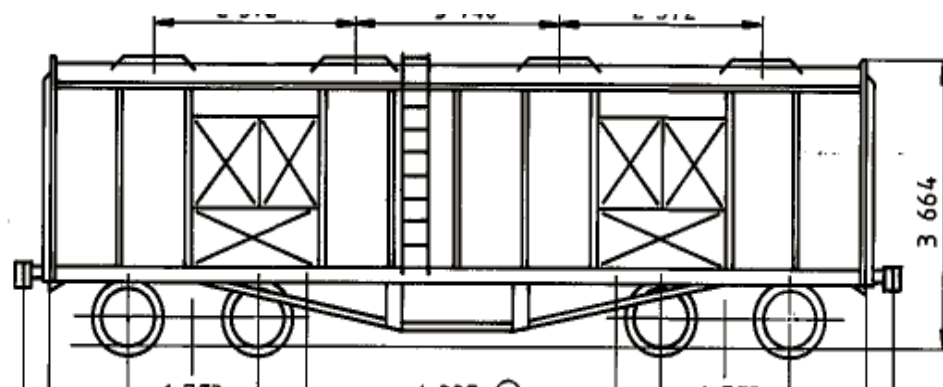
Specialized wagons



Cement



Steel coils



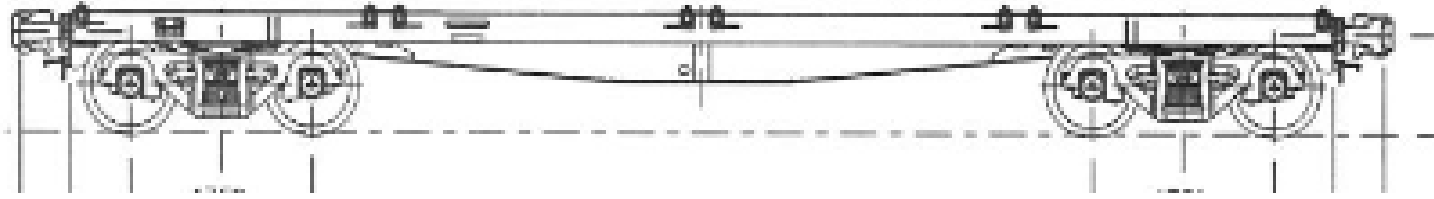
Grain



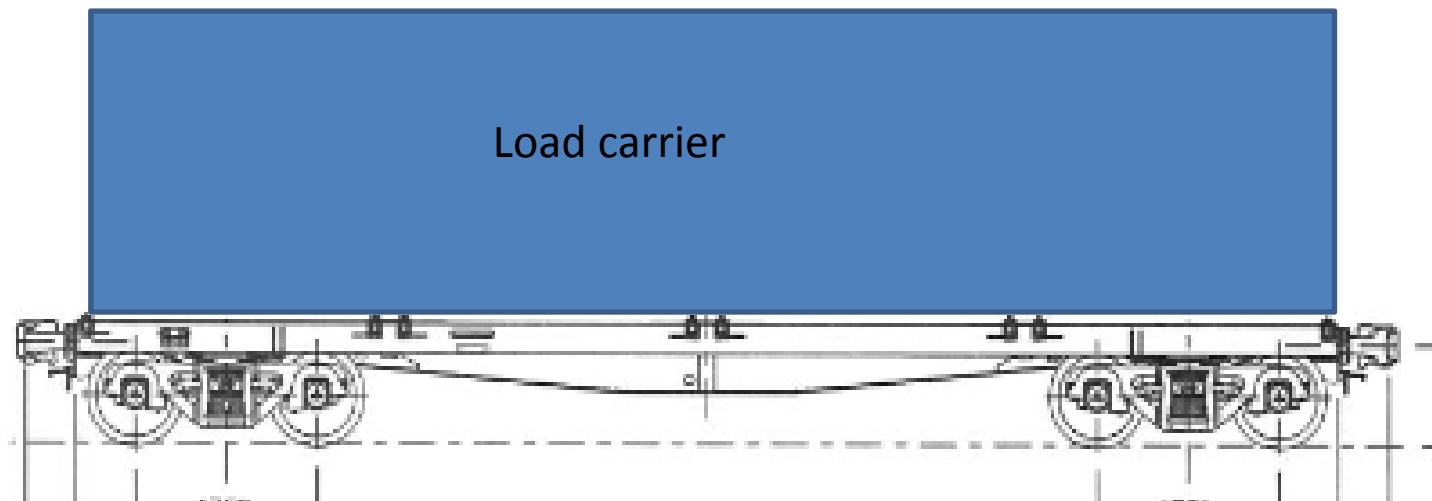
Identified multipurpose wagon



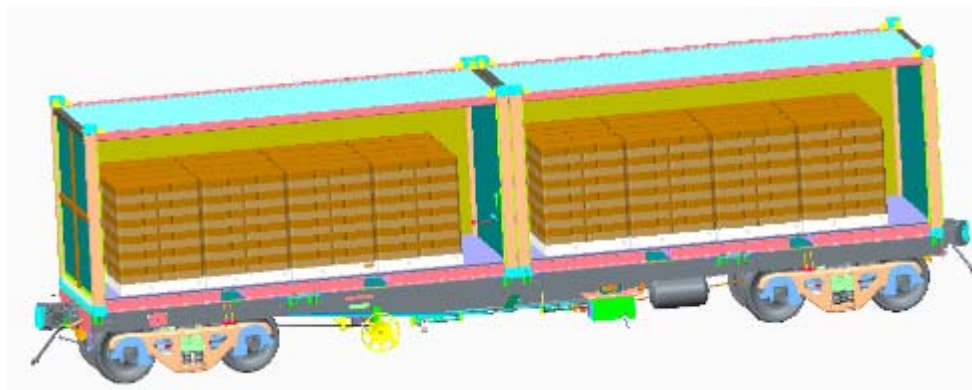
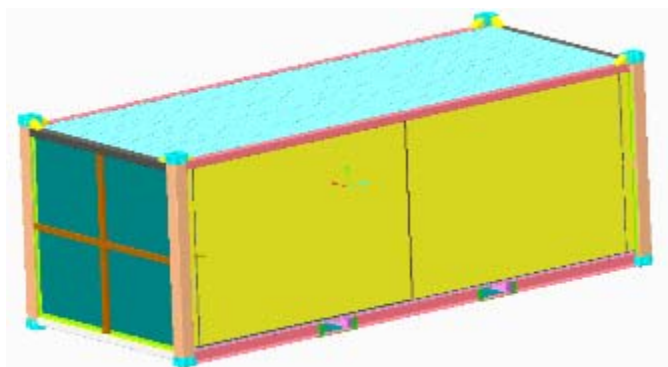
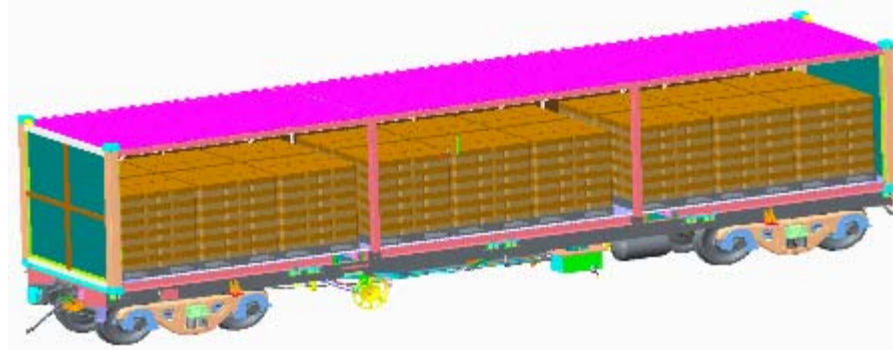
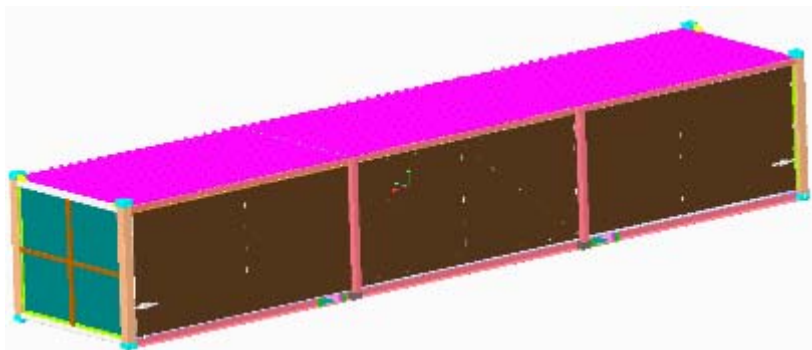
The multipurpose wagon identified for load carrier solution is a flat-bed wagon.



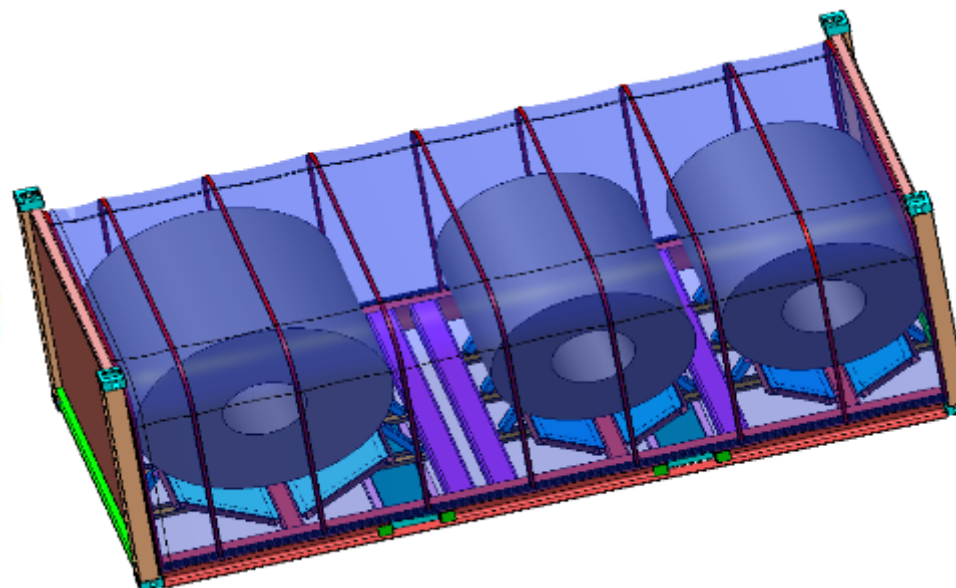
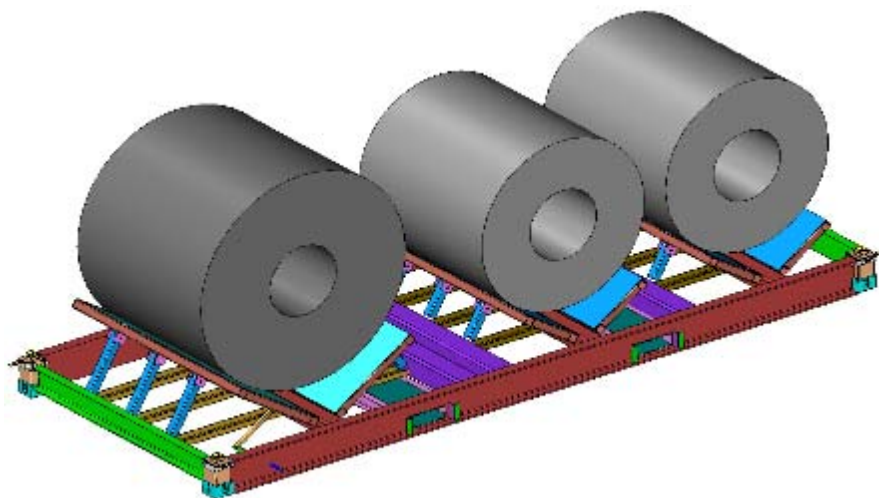
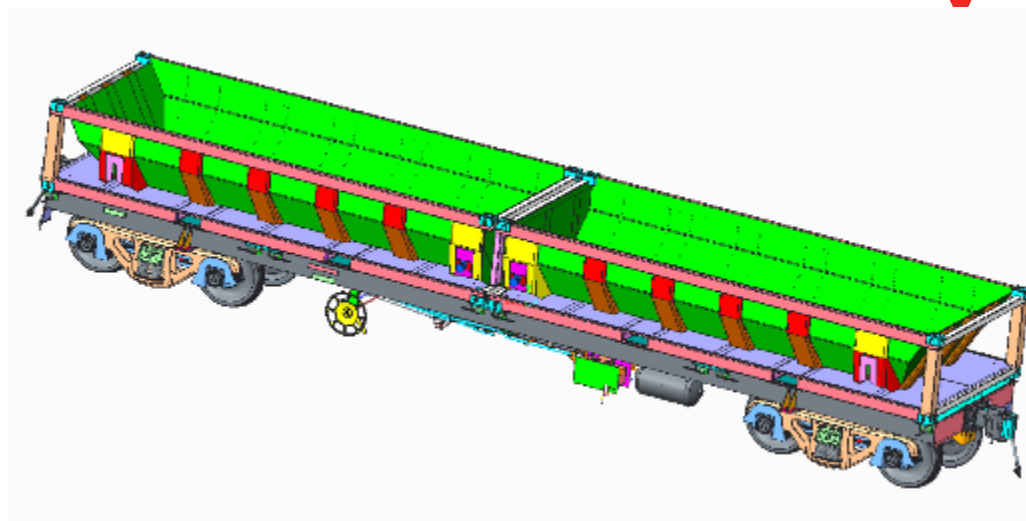
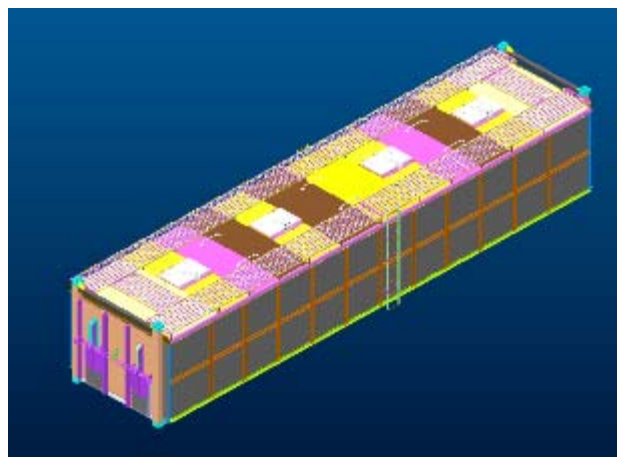
Specialised load carrier solutions can be fitted and removed from the wagon when required.



Load Carrier Solutions



Load Carrier Solutions



Skeletal Wagon



Model designation	Skeletal Flatbed Container Wagon
Fleet size	1
Date Manufactured	2016
Type of design	Skeletal flatbed
Gauge	1067mm & 1435mm
Length	13 170mm (Across couplers)
Height	1060mm
Width	2460mm
Designed for	Standard ISO Container Only
Tare	13.5 tons
Off loading method	Straddle carrier/Fork lift
Payload	60 tons
Materials of construction	S 355
Max. mass on rail	63.5 tons
Type of bogie	Three piece, Spoorbarber D
Brake system	AAR Air brake system
Max. operating speed	80 km/h
Coupler system	"E" type coupler
Wheels/bearings	34" wrought steel/5 ¹ / ₂ × 10" AAR D

The Skeletal Container wagon is designed to operate at 1000mm and 1067mm and 1435mm track gauge and carries a payload of 61 tons. It is a flat type of wagon and was designed for any rail conditions. It is fitted the three piece Spoorbarber – D type bogies. It is designed to can 6m (20 ft.) and 12m (40 ft.) ISO containers. The Skeletal Container wagon also features the AAR E type coupler system.



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THANK YOU ...



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