

European Intermodal Summit 2020

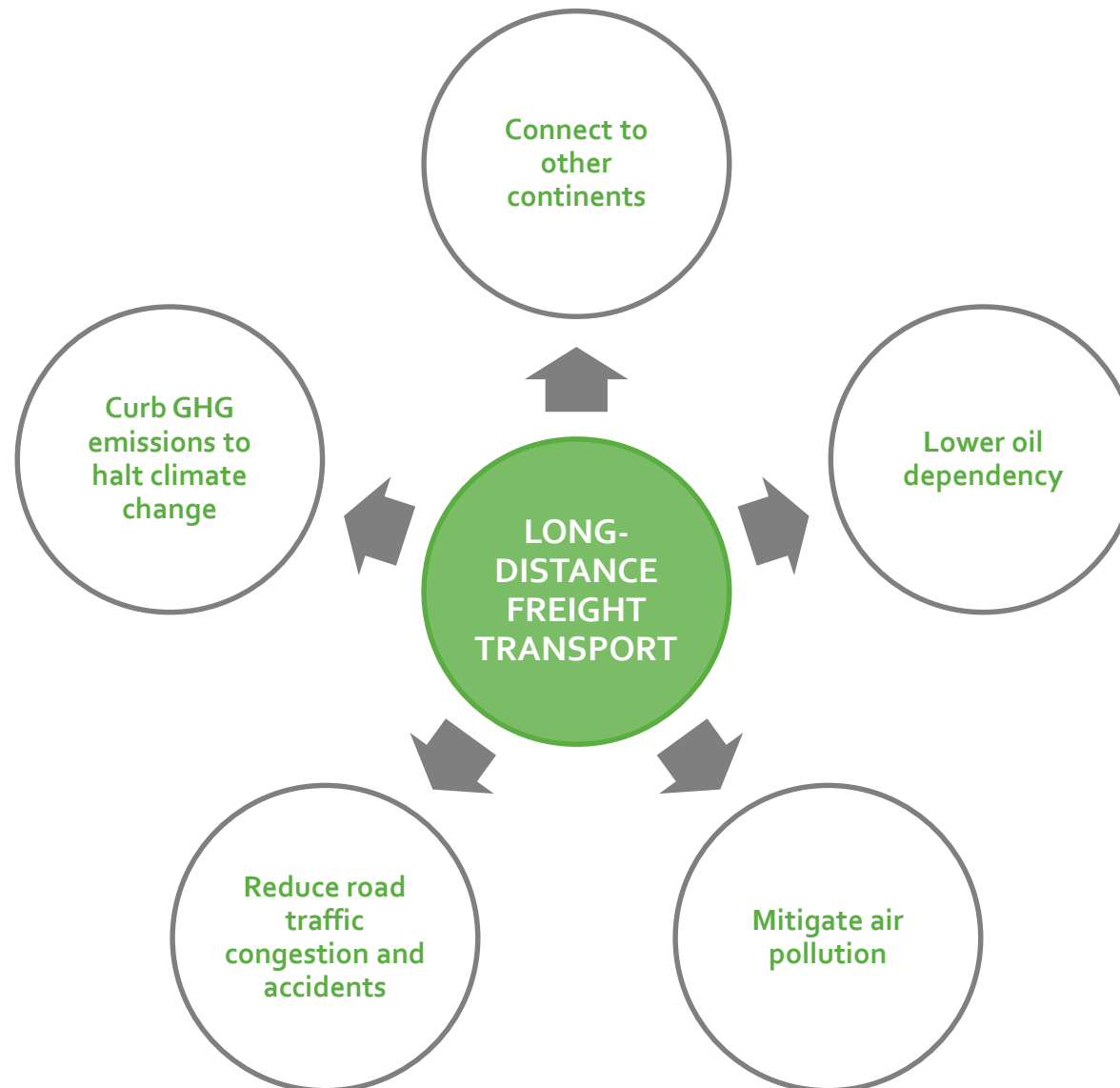
COMBINED TRANSPORT AND THE SOLUTIONS OF THE PAST



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President

The freight transport challenges of the past

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- **The shipping container:**
an invention of the 1950s to accelerate loading/unloading at ports
- **Versatile:**
capable of holding all kinds of manufactured or semi-finished goods as well as raw materials



Lower oil dependency: forwarding continental units

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- The Huckepack concept:
truck on a train - one mode carrying another
- Long distances:
trucks can cover longer distance sections of continental transport-chains by using rail or waterborne assistance



Mitigate air pollution: a loading unit for every type of cargo

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- Liquids: tank containers
- Perishable goods: refrigerated containers
- Open top or flat rack: for odd sized bulky cargo



FLAT RACK CONTAINER



OPEN TOP CONTAINER



End loading
fully enclosed

Ventilated

Side loading,
fully enclosed

Refrigerated

Open top

Liquid bulk

Open top
hard top

Flat bulk



Reduce road traffic congestion and accidents: semi-trailer transport

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- Accompanied Combined Transport: full trucks with drivers (RoLa)
- Unaccompanied Combined Transport of semi-trailers: vertical transshipment and horizontal transshipment of trailers onto trains



Curb GHG emissions to halt climate change: energy efficient modes

- **Electric trains:**
electric trains of 750 length and 2000t gross weight carry up to 56 truckloads of cargo



- **Modern barges:**
up to 100 truckloads can be carried on the most modern barges