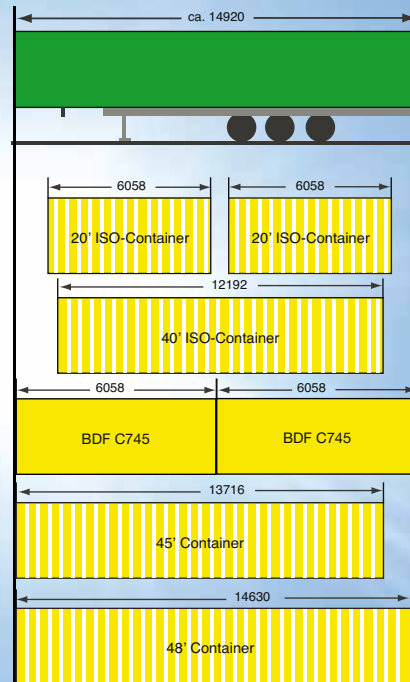


How to make Modular Concept work?

To realise the full potential of the Modular Concept in creating better, rather than more road transport and promoting efficient multimodal transport, political leadership is needed to:

- harmonise and standardise rules for weights and dimensions across all countries to ensure effective compatibility between all transport modes;
- conduct more field trials, both at national and cross-border level, to identify the best vehicle combinations and optimal Modular Concept standard.



Existing loading units



Standardised Modular Concept

The Innovative Solution for Efficient Multimodal Transport



Road - Rail



Road - Road



Road - Sea

Standardised Modular Concept vehicles have their place in modern transport systems, as do 25m buses which are used in city centres!



Innovation is a driving force in the road transport sector and a prerequisite for providing high quality customer service and remaining competitive. True to the **IRU 3 "I" strategy** to achieve sustainable development, based on **Incentives, Innovation and Infrastructure**, innovative solutions provided by the Modular Concept help create better, rather than more road transport.



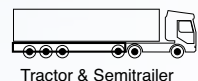
www.iru.org



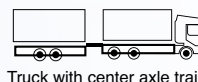
What is the Modular Concept?

The Modular Concept (MC) allows for the efficient use of existing loading units, using longer vehicle combinations where possible and shorter combinations when necessary.

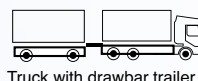
Current combinations



Tractor & Semitrailer

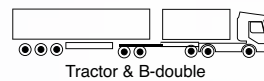


Truck with center axle trailer

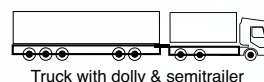


Truck with drawbar trailer

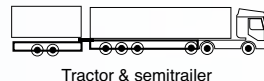
European MC



Tractor & B-double

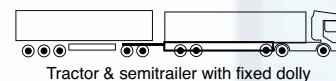


Truck with dolly & semitrailer

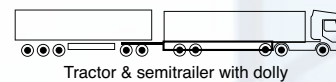


Tractor & semitrailer with center axle trailer

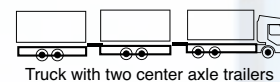
Other possible MCs



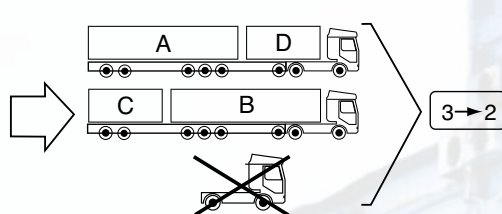
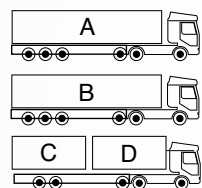
Tractor & semitrailer with fixed dolly (C-dolly) and second semitrailer



Tractor & semitrailer with dolly and second semitrailer



Truck with two center axle trailers



What are the benefits of the Modular Concept?

Government and industry studies have clearly shown that the Modular Concept improves road transport efficiency by achieving greater volume capacity with fewer vehicles, while supporting multimodal transport.

The Modular Concept reduces road transport's environmental footprint and offers a high degree of flexibility to meet various business requirements and infrastructure constraints.

On the basis of current trials, the Modular Concept:

- offers the possibility to carry the same volume with fewer vehicles, thus providing better, rather than more road transport;
- significantly improves road transport's environmental performance by removing trucks from roads, thus dramatically reducing fuel consumption and CO₂ emissions;
- facilitates the transfer of swap bodies and containers from one transport mode to another;
- improves interoperability between freight transport modes and makes multimodal transport more economically attractive;
- reduces road wear for the same payload carried due to a higher number of axles, thus reduced weight per axle.