CANADIAN PIGGYBACK OPERATIONS

Canada 14.028,260 13.977,167 12.261,846 The products handled in July, in the three years, were as follows, in tons:—

Agricultural 2:408.841 2:512.295 1.770.520 Animal 129.083 175.855 181.980 Mine 5:004.519 4.965.427 4.862.125 Forest 1.667.573 1.087.670 1.669.536 Manufactures and

misceilaneous 3.817,351 4,128,912 3,877,885 Grand total 14,028,369 13,977,167 12,361,846 tion of all but the very largest generators as completely assembled units. Weight of car is about 106,000 lb. The car's first job was handling of a 163ton stator (the stationary part of a turbine generator) to the power station of Duquesne Light Co. at Elrams. Ps.

Railways Begin Trailer-Flat Car Service

Both transcontinental railways have placed in operation, between Montreal and Toronto, the freight service wherein highway semitrailers are given intercity rail movement on flat cars, in accordance with the plans described in our December issue.

The plans developed by the managements of the two transcontinental railways for the inauguration of a new type of freight service between Montreal and Toronto, wherein loaded semi-trailers are hauled by highway tractor to the freight yards, the semitrailers are backed on flat cars and secured thereon, the flat cars are hauled by rail to destination, and the semi-trailers are then unloaded from the flat cars and hauled by highway tractor to the consignee's premises. were described in our December issue, og. 670, and the statements issued by the Canadian National and Canadian Pacific managements in regard to the matter were reproduced. The C.P.R. statement noted that the service was beginning December 1, and that the semi-trailers, each 20 ft, long, would be loaded two on a flat car; it was also mentioned that the trailers would be equipped with both side and end doors, to facilitate handling on city streets. The C.N.R. statement noted that six 50-ton steel flat cars were being specially equipped for the new service, and that they would have roller bearings and automatic brake cylinder slack adjusters, and would also be equipped with rolled steel Each car would carry two wheels. trailers. It was indicated that twelve 24-ft, trailers would be provided, each with 12-ton capacity. The expectation was expressed that the new service would speed the movement of merchandise traffic, reduce handling at railway freight warehouses, and curtail loss and damage claims.

The C.P.R. new service began December 1, with the loading of two trailers on a flat car at the Place Viger freight terminal in Montreal. A statement issued by the C.P.R. in regard to the commencement of the service said.—

The whole operation is designed to speed up the railway's fast freight

the goods delivered to the door of the consignee before noon.

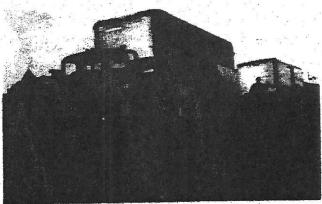
The service is speeded by the elimination of handling in freight sheds, damage is expected to be minimized, and the convenience of pickup and overnight delivery will be increased.

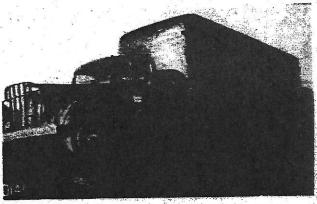
"Overseeing today's operations at the Place Viger terminal Montreal depot for less than carload freight shipments, were L. G. Savage, General Agent at Place Viger, and M. R. Martin. Superintendent of C.P.R. Montreal Terminals Division. Entrusted with the job of backing the trailers onto the 53 ft. flat cars was veteran truck driver John Barrette, whose job it also was to drive the familiar green C.P.R. freight trucks through Montreal today as they picked up their shipments.

"Similar truck-train operations were being carried on today in Toronto where shippers will also be able to take advantage of the new freight service between the two cities. If the Montreal-Toronto operations prove successful, it is expected that wider application of the new service will be made."

So far (to December 24), the C.P.R. service has been given with eight trailers, carrying capacity loads in both directions, entailing operation of two flat cars in the overnight fast merchandise trains, each way, each night

On the Canadian National, the new service was inaugurated December 12, following official inspection of the equipment and facilities by Donald Gordon, Chairman and President, S. F. Dingle, Vice President, Operation, and John Pullen, Vice President, Traffic.





Mandling Semi-Trailers in the Canadian Pacific By. T siler-on-Fint Car Montreal-Toronto Pacific Service.

In the view at the left, L. G. Savage, General Agent, Piace Viger I sight ferminal, Montreal, directs driver John Barrette as he backs in the view at the left, L. G. Savage, General Agent, Piace Viger I sight ferminal, Montreal, directs driver John Barrette as he backs in the view at the right. Mr. Barrette watches as freight handlers Beachamp, and the trailer up the ramp and on to the flat car for movement to Toronto by fact overnight freight train.

CANADIAN TRANSPORTATION, JANUARY, 1913

connections (both imports and intransit freight) in tons, July, 1952,

		July.	July.	July.
	Province	1982	1951	1950
	Newfoundland	200,846	129,661	129.314
0	Prince Edward			
	Island	0,061	23,329	8,467
	Nova Scotta	853,431	838.523	R64 037
	New Brunswick	351.938	435,552	310.321
	Quebec	2.807.733	2.224.181	2,549,562
	Ontario	5,890,342	6.124.504	5,248,720
	Manitoba	728.378	700,962	590,050
	Saskalchewan -	1,386,844	1.024,128	731,731
	Alberta	1.254.188	860 103	897,566
	British			
	Columbia	944,806	1.026,204	931,938
	Total for			

Canada 14,028,289 13,977,167 12,281,846
The products handled in July, in the three years, were as follows, in

the three yes	na. mere	as foll	ows, in	
tons:-			Town or	
Agricultural Animal	3,409,841	2.612.299 175,859	1,770,320	
Mine Forest	5,004,519	4,985,427 2,087,870	1.869.536	
Manufactures as miscellaneous	br		3,877,685	
Grand total	14,028,380			

Flat Car for Heavy Loads

Advice from Westinghouse Electric Corp., Pittsburgh, is that it has acquired a specially-built flat car of great strength and fitted with four four-wheel trucks (16 wheels in all) for use in shipping extremely heavy units, chiefly large generators from East Pittsburgh. The car, of about usual length, has a load limit of 493,-000 lb., and is equipped with extra heavy journals, enabling transportation of all but the very largest generators as completely assembled units. Weight of car is about 106,000 lb. The car's first job was handling of a 163ton stator (the stationary part of a turbine generator) to the power-station of Duquesne Light Co. at Elrama, Pa.

service between Montreal and Toronto by the utilization of the truck trailers and the flat cars. Under the new system shipments are picked up throughout the city by the trucks which are then loaded onto flat cars by means of a ramp.

The state of the s

Tractors back the trailers onto the flat cars and are then detached. Two trailers are loaded on one flat car.

Today's shipment will be sped to Toronto by a fast overnight merchandise freight train, where other tractors will be attached to the trailers and the goods delivered to the door of the consignee before noon.

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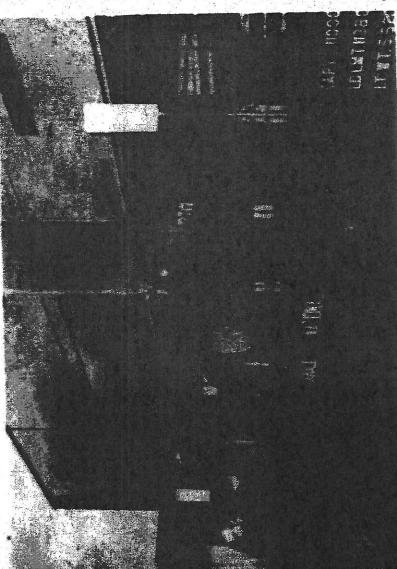
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The whole operation is designed to speed up the railway's fast freight







From left to right are John Pullen, Vice President, Traffic, S F Dingle. Vice President, Operation, and Donald Gordon, Chairman and President Canadian Mattenal Mys. Officers Mote Inauguration of Trulier-on-Flat Car Service

A statement issued by the C.N.R. in regard to commencement of the service mentioned the flat car features referred to above, and added that they have been so equipped that the trailers can be securely placed to prevent shifting in transit. Three-foot, hinged type, steel counterbalanced aprons at one end of each car bridge the ramps and the cars. Twelve 20-ft, trailers, equipped with special devices, are being used in the initial service.

Reaction of Interesty Truckers From the Canadian Automotive

From the Canadian Automotive Transportation Association, representative of the highway intercity truck transport service throughout Canada, we have obtained the following statement:—

Trucking industry leaders have indicated interest but not opposition to the trailers-on-flat-car service which the two major railroads are operating between Toronto and Montreal.

the Canadian Automotive Transportation Association, stated during the
Association's recent annual meeting in
Montreal: This is the kind of enterprise and competition we understand
and appreciate, We'll do our best to
meet it by providing better truck service, but we certainly have no intention of opposing the rallways' move.

reply has been that the railways, vantage of modern developments. The railway plan, and said he hoped the would do better to concentrate on improving their own service, taking adtrailer-on-flat-car service is an indication that they are now thinking on "He denied earlier reports that the railways' move would mark the openthe trucking industry as a means of ing of a new era in rail-truck relation-For years, he said, the railways have advocated restriction of Iruckers' group would oppose increasing their own business. those lines. SOLUS

continue to oppose rail entry into the a matter of public interest. Our feeling in this matter is that the transtowards a transport monopoly. However, he added, the latest rail-truck plan is something quite different from general field of highway trucking as portation needs of Canada can best the railways into trucking would be a move against this principle and "Mr. McCaig said he wished to make it clear that his industry would We believe that large scale entry of be met by free competition,' he said. this, hence the absence of any objection from the truckers' association."

Canadian Transportation

Rail Flat Car Movement of Highway Trailers

Over the past 14 years, The New Yark, New Haven and Hartford Rd. Co. has developed; in New England, a type of traffic in which loaded highway trailers are given rail movement on flat cars. The business has increased to the point where more than 3,000 trailers per month are handled. Last year 200 flat cars at special design and construction were added to the road's equipment for year 200 flat cars at special design and construction were added to the road's equipment for the handling at this type of traffic. To cope with the growing demand for TOFC service, orders the handling at this type of traffic. To cope with the growing demand for the same design.

In an address presented at last year's annual meeting of the American Society of Mechanical Engineers, by G. L. Goebel. Mechanical Engineer, of the New York, New Haven and Hartford Rd. Co., progress made by that company in development of an unusual type of freight traffic, over the past 14 years, was described thoroughly, and accompanying illustrations, prepared from photographs supplied by the author, provide particulars of the way in which the traffic, furnishing an outstanding example of coordination between highway and railway transportation, is handled. The traffic has now been developed to the point at which more than 700 trailers per week are handled on railway flat cars, the trailers, or more properly semi-trailers, being handled by highway tractor from the original freight loading point to the railway yard, and then being loaded on flat cars for shipment by rail to the point of destination, where the trailers are taken

off the flat cars and given highway movement by tractor to the final point of freight unloading.

In handling this traffic, the railroad offers its facilities to any highway truck operation firm legally entitled to use the highways, and to any manufacturer, wholesaler or other shipping concern operating its own tractors and semi-trailer equipment, but all highway transport concerns participating the co-ordinated highway-rail movement must meet all of the requirements imposed by the Interstate Commerce Commission, and must also comply with the railroad's regulations covering dimensions and mechanical condition of the trailer equipment offered for movement. At the present time, a number of different highway operators are taking advantage of the co-ordinated highway-rail service.

It must be evident that to provide an efficient co-ordinated service of this type, a very complete organization, with adequate and smoothly-

operating transfer facilities at loading and unloading points, is required, and this the railroad has provided. The equipment employed in loading the trailers on the flat cars at shipping points, and in unloading them at points of destination, effects prompt handling of the trailers. Specially designed flat cars, to the number of 200, are part of the railroad's rolling stock, provided with the handling of the trailer traffic in view, and the methods used at transfer points are such that the time consumed in loading and unloading is kept to a minimum. An additional 200 similar flat cars were recently ordered.

The service is so organized as to provide overnight movement of the trailers between New York and Boston, New York and Providence, New York and Springfield, and Boston and New Haven. In order to ensure that the freight trains (known as Trailiners") handling the flat cars with the trailers aboard leave on time, a time



limit for receipt of trailers in the rail-way yard is set, and rigidly adhered to. As in the case at many freight stations, most of the trailers arrive at the railway yard late in the day, and not long before the scheduled time of train departure. With the loading time thus restricted, the transfer operations must proceed smoothly and without interruption. It has been found, employing the new specially-designed flat cars, that the loading time is shortened greatly if only one trailer is loaded on each car; therefore these cars have been designed to

removal of the trailer from the flat car, requires between four and five minutes on the average. While the highway truck operator, or firm employing its own tractor-trailer equipment, hauls the trailers from point of freight loading to the railway yard, these privately-owned tractors are not allowed to participate in the actual work of transferring the trailers to the decks of the flat cars. When the tractor which has hauled the trailer to the yard arrives there, it leaves the trailer at a designated parking space, where the trailer is then picked up by

A String of Flat Cars Ready to Receive Trailers

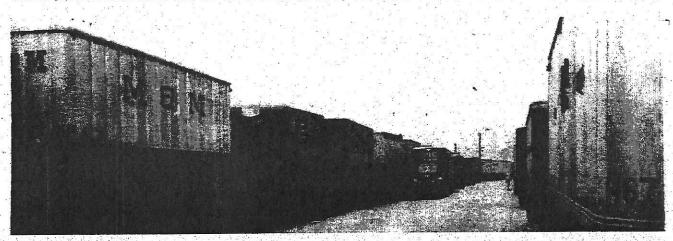
transport but one trailer to a flat car. On the average, with the equipment and procedure as developed to date, it takes between six and seven minutes to load a trailer on a flat car, this covering the time required to get the trailer into its place on the car and to fasten it securely. The reverse operation at point of destination, viz., the

a special tractor owned by a highway subsidiary of the railroad, the New England Transportation Co. These special tractors, employed to do the actual work of loading trailers on the flat cars, are equipped with an extra low reverse gear, provided to afford the additional power required to back the loaded trailer up the incline over

which the trailer must pass to attain the height of the flat car deck. While the cost of furnishing this extra low reverse gear exceeds \$600 for each tractor so equipped, experience has shown that the expense has been more than justified, for the reason that in addition to securing greater facility in handling the loaded trailers, tractor maintenance expenses have been reduced in great measure.

Each loading track in the railroad yard, with capacity up to 12 cars, has at its stub end a concrete ramp, with 10% grade which extends for about 35 ft., ending with a five-foot level portion at flat car deck height, adjoining the end of the track. All of the flat cars on one track are loaded serially from this one ramp. Alongside each loading track is a platform or catwalk 312 ft. high and three ft. wide, fitted with a railing carrying sealed beam lights. This platform is of great assistance to the men employed in loading and unloading the trailers. particularly during the winter. At convenient points along the platform. there are bins provided for storage of materials and repair parts required in the work. Adequate shelter for employees is provided. The yard track area has black top surfacing, and elevated floodlights, in addition to those on the catwalk rails, provide adequate yard lighting. At the Harlem River (New York) yard, a 50 ft. tractor-trailer platform weighing scale of automatic type, with capacity up to 50 tons, has been installed, to permit quick automatic weighing of vehicles as the combination moves into the

When a semi-trailer is being loaded on a car, being backed up the ramp by the tractor with special low gear, the auxiliary wheels at the front of the trailer are lowered just enough to provide contact with the car floor, and in this manner these trailer wheels are made to afford stabilization laterally, thus assisting in this function the jacks which are employed to support



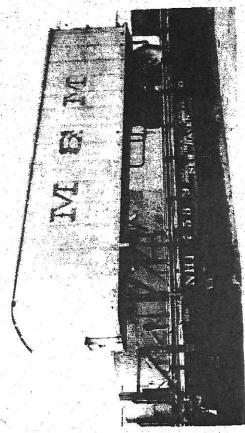
equipment costs about \$1,500 for each the front of it to the desired height in tractor, it was a good investment, in wheels, when backed into its position on the car, and then lower the front end of the trailer, as shown in accompanying illustrations. To save lime, and the expense of an additional man to perform the work of adjusting wheels manually, the special tractors equipped with a device, operated by hydraulic pressure, which is operated by controls inside the tractor cab, and which is employed to lift the and of the trailer without adjusting its auxilthe trailer auxiliary view of the fact that the expense in loading the trailers an extra employee 15 avoided. relation to the Jacks.

trailers, all trains make their 207-mile runs between terminals in six hours and twenty minutes, and arrivals are in the early morning hours. Cars are placed on the unloading tracks within 20 minutes after arrival of trains. evening train, the early train leaving 10.00 p.m. for a later train, the train 11.24 p.m. Similarly, exact schedules At Providence, the loading period is from 6.00 p.m. to 10.00 p.m., ng trailers for the early train and departure times being 10.50 p.m. and concerns handling of the inbound trailers are loaded from 3.00 p.m to acceptance of further trailers at 7.00 p.m., if they are for an early evening train, and at 9.00 p.m. if for a later at 8.00 p.m. and the later one at 10 with time limit of 9,00 p.m. for receivcars are made up, they are given high proaching 50 m.p.h. At Boston, the are in effect at the yards at Spring-The time limit for receipt of loaded trailers at the various terminals is, as stated, adhered to closely, and unce speed road movement, these freight trains maintaining average speed apthe trains containing the loaded flat 9.30 p.m., but the yard is closed field, New Haven and New York. E G

The system of using only one ramp, at the stub end of a track, for the serial loading of trailers on a number of flat cars on the track, was first

hegun experimentally, this method having been adopted because of the low first cost, not only as concerns terminal equipment, but also as concerns the equipment necessary to be carried on the cars for securing the trailers. Also, the whole co-ordinated highway-railroad service was decided. It experimental in nature, and it was only the part of prudence to embark upon it in limited and conservative manner. As this end loading system

To maintain a close check on possible damage claims and to secure strict enforcement of the regulations covering the condition of trailers, a daily report covering trailer defects noted is issued by each terminal; several copies of this report are made, each terminal furnishing one copy to each of the other terminals, with one going of the trailroad's manager of TOFC. All trailers are rigidly inspected by a railroad mechanical department representative, to make sure that all are in



A Trailer Loaded and Secured on Fist Car

demonstrated itself as fully satisfactory, it has been retained.

As concerns the railroad's liability for the freight entrusted to it under this co-ordinated handling method, the tariff regulations provide that the railroad is not responsible for the lading riself, its responsibility being limited only to the condition of the trailer, and the only claims entertained being for damage to the trailer. Claims have been very few, in relation to the volume of traffic handled. The railroad accepts a trailer for rail movenant only with doors locked and sealed by the shipper of the freight.

easte condition for rail movement. To ensure uniformity to greatest possible extent, and in the interests of safety, the railroad regulations covering dimensions and conditions of trailers have been printed in a booklet, and freight shippers must observe the regulations to ensure that their trailers will be accepted for rail movement.

The railroad's charges for the rail transportation of the trailers is based on trailer length, at a designated maximum weight limit for trailer and contents; if that limit is exceeded, the charge is at a fixed rate per 100 lbs. Trailers handled empty on a return

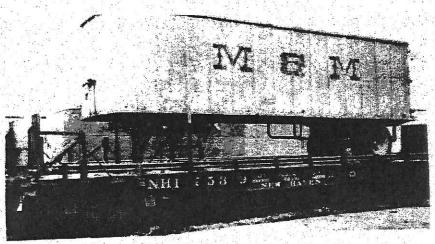


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equipment costs about \$1,500 for each tractor, it was a good investment, in view of the fact that the expense of an extra employee is avoided.

The time limit for receipt of loaded trailers at the various terminals is, as stated, adhered to closely, and once the trains containing the loaded flat cars are made up, they are given high speed road movement, these freight trains maintaining average speed approaching 50 m.p.h. At Boston, the trailers are loaded from 3.00 p.m. to 9.30 p.m., but the yard is closed to acceptance of further trailers at 7.00 p.m., if they are for an early evening train, and at 9.00 p.m. if for a later evening train, the early train leaving at 8.00 p.m. and the later one at 10 At Providence, the loading period is from 6.00 p.m. to 10.00 p.m.. with time limit of 9.00 p.m. for receiving trailers for the early train and 10.00 p.m. for a later train, the train departure times being 10.59 p.m. and 11.24 p.m. Similarly, exact schedules are in effect at the yards at Springfield. New Haven and New York. As concerns handling of the inbound trailers, all trains make their 207-mile runs between terminals in six hours and twenty minutes, and arrivals are in the early morning hours. Cars are placed on the unloading tracks within 20 minutes after arrival of trains.

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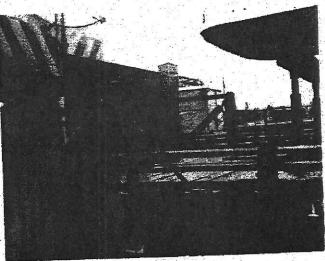
A Trailer Loaded and Secured on Flat Car

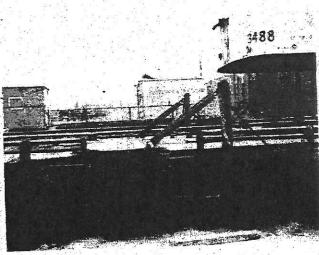
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Detail of Aprons Between Cars. Jacks. Etc., Employed in Loading and Securing Trailers.

relative to the railway e outset, the practice of the greater part of the rail proved popular with ators and the results were g to the railway. However, y was unable to hold this sufficient volume to warhe minds of the railway xtending the trial period tober, 1933, when the rates hdrawn and the railway returned to regular serthe truckman's standpoint for the transport of loaded considered too high. nsufficient inducement in tion to enforce them to element of complete flexl responsibility to no fixed especially as regards deme, to cause them eagerly t the rail operations.

other railways have intrailer-on-flat car service. New York, New Haven & being an outstanding exnat railway inaugurated the n 1937 whereby highway wned by motor truck operre transported by rail in rection between New York on, Mass., on specially deat cars in regularly schededited freight trains. Thus way performed the linethe congested area between commercial centers, while ors themselves were availdirect origin and destination To make the operation posiding ramps were located at rk and Boston. The service le available to all highway es operating between the two he tariff for the railway between designated tracks wo terminals was quoted at er loaded semi-trailer, one 1 a charge of \$16.25 for space rning empty a trailer previcorded the loaded movement. mum charge of \$65.00 was n the day consignment did eed one loaded semi-trailer of \$32.50 when the consignd not exceed one empty semi-These rates applied only to weighing, with lading, up to bounds; on shipments of two made on the same day, the weight of the two loaded was required not to exceed pounds. A rate of 15 cents pounds was levied on loading ss of these standards. Current-New Haven offers this service is between New York and ince, Boston and New Haven, ew York and Springfield, in n to the original New York-

the flat cars and hauled by highway tractor to the warehouse or plant of the consignee. This type of freight business has been developed on the New Haven to the point where more than 4,000 semi-trailers were handled during the month of October, 1952, and not long ago the railway installed 200 specially designed and built cars for handling the semi-trailers and an additional 200 cars are at present on order. When delivery of this order is consummated the total fleet will number about 630 flat cars. Numbered among other railways offering similar service are several prominent Midwestern carriers, and here also the service is reported to be successful.

The two transcontinental Canadian railways inaugurated trailer-on-flatcar service between Montreal and Toronto, the Canadian Pacific on December 1, 1952 and the Canadian National on December 12, 1952. Both railways, of course, improved their service by eliminating the time consumed in handling shipments through freight houses, by minimizing damage to shipments, and by accelerating the service through assigning the cars to fast overnight trains between the two Canadian cities. The statement relative to the service issued by the Canadian Pacific contains the following information: "The trailers, after being loaded, will be moved on to the flat cars by tractors and secured for the trip to their destination. Ramps and loading platforms will be used for the loading of the trailers, and at destination a tractor will pull the trailers from the flat cars and immediately handle them to the consignee. To secure the trailers on flat cars, jacks are used to raise the weight of the trailer from its own tires and spring suspension. Steel blocks steady the wheels at front and rear. Anchor chains hold the trailer in place. Steel guard rails on the sides of the flat car guide the truck while being moved into place on the flat cars by the tractors. Folding steel aprons allow the trailer to be driven over more than one flat car to its assigned location. Each flat car carries two 20-foot trailer units and the capacity of the two units practically equals that of an ordinary box car. These trailers are equipped with both side and end doors to facilitate handling on city streets." A similar statement issued by the Canadian National Railways contains the following information: "The inauguration of the new freight service follows studies by company officers of highway-rail transport systems in the United States and Europe. The initial operation will be between Montreal and Toronto. Its development will be