

SINA GROUP L.I.R.A.



Territory is our value



ARGO Group



The ARGO Group

is acknowledged as a leader in the transport sectors, ranging from integrated logistics, to energy and telecommunications, thanks to its continuous updating of technical means and equipments, to its ability to offer services which are fully respondent to the needs of modern production and distribution, as well as to its multi-annual experience acquired in the services and use of high technology tools.

The activity of the Group, through the on-going orientation towards research and innovation, operates in terms of absolute efficiency in several sectors



MOTORWAYS



ENGINEERING

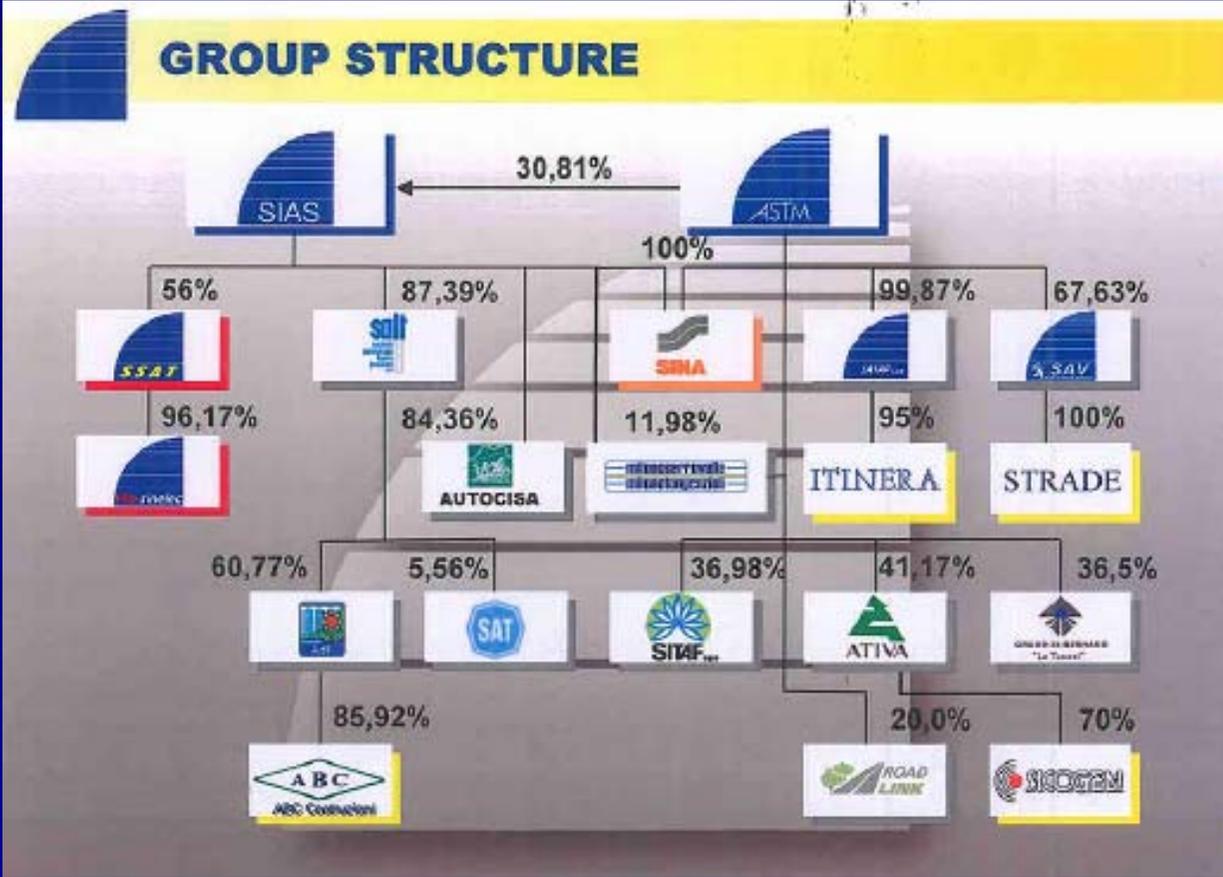
TRANSPORTS AND LOGISTICS

CONSTRUCTION

TELECOMMUNICATIONS

ENERGY AND COMMUNICATIONS

ARGO Group



ASTM S.p.A.	Km.
SATAP	
-Torino-Milano stretch	125,0
-Torino-Piacenza stretch	167,7
ATIVA	152,7
SAV	59,5
SITAF	94,0
SITRASB	12,5
ROAD LINK (UK)	84,0
TOTAL	695,4

SIAS S.p.A.	Km.
SALT	154,9
ADF	113,3
CISA	181,0
inclusive of 81 Km stretch linking Parma to the Autostrada del Brennero (under construction)	
ASTI - CUNEO (under construction)	90,5
COSTANERA NORTE CHILE	43,0
TOTAL	582,7

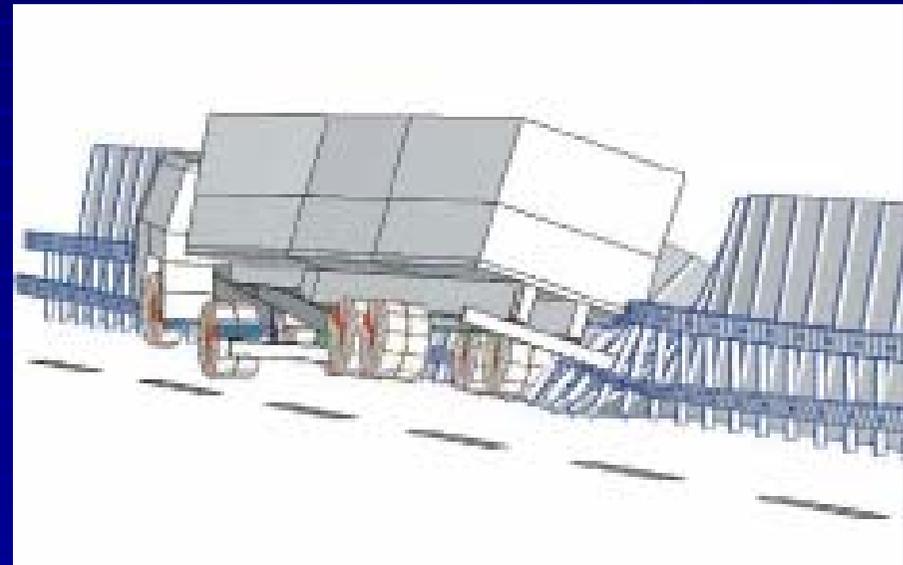
L.I.R.A.



 **L*i*/R A**

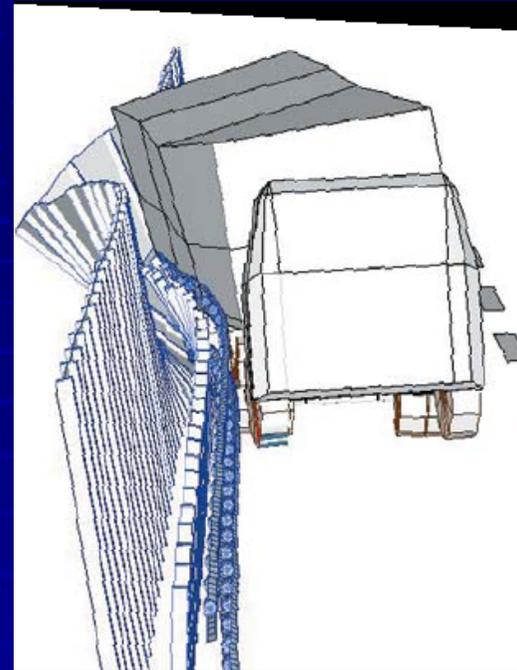
**Italian research
laboratory
on equipment
for passive safety
in the field
of vehicle traffic**

**Italian
laboratory for
safety**

The image shows a road with a guardrail on the left side, receding into the distance. Overlaid on this image is the L.I.R.A. logo, which includes a circular emblem of the University of Pavia. The text is in a clean, white, sans-serif font.

Who's L.I.R.A.

LIRA S.r.l. - Laboratorio italiano di ricerca sulle attrezzature per la sicurezza passiva nell'ambito del traffico veicolare (Italian research laboratory on equipment for passive safety in the field of vehicle traffic) - was established in 2002 by the engineering companies SINA and SINECO and by the Polytechnical School of Milan. This company merges the professionalism and know-how of two of the most important national companies in the field of safety, with the prestigious support of university institution.



LIRA task is to promote study, research and experimentation in the field of equipment suitable to ensure the highest level of passive safety for human, personal and collective protection on roads.

L.I.R.A. Goals

LIRA has several business goals. The most important one is the creation of a laboratory or test field for study, research and experimentation in the field of devices necessary to ensure an adequate level of passive safety in vehicle traffic. To such purpose, assessment studies are under way to identify opportunities and possible collaborations with companies already working in this sector, in order to define the most suitable framework for the launch of the testing activities. Always in the field of passive safety, LIRA takes care of execution of calculations and numerical simulations useful to equipment efficiency assessment, by promoting the development, management and use of a specific software and the supply of advances services for technological innovation support.



LIRA activities comprehend inspection and validation concerning with projects of equipment engineering and passive safety for transport infrastructures and vehicle traffic, as well as participation to research programs and studies aimed at the development of specific technical rules, together with national and international work groups



L.I.R.A. Activities

Since its first years of activity, LIRA has given important contributions to the sector in which it operates. On behalf of its partner SINA, it accomplished calculation services, simulations and verification of system and safety device projects, as well as organization of live crush tests, in particular for a terminal system for P4 class junctions and interchanges areas, subjected to certification tests at LIER laboratory in Lyon. Moreover, for the verification of some particular engineering situations during barrier installation, LIRA has cooperation agreements with other companies in this sector, such as the Polytechnical School of Worcester (USA); together they are developing a specific study concerning with loads transmitted to bridge road floor understructure during the crash of a vehicle against a safety barrier, in order to define parameters featuring this phenomenon, by the cooperation with the Polytechnical School of Milan.



Thanks to LIRA activities, now it is possible to dispose of an integrated system of safety barrier-acoustic barrier of class H4b, which has already undergone some certification tests at LIER laboratory in Lyon; this system was jointly developed with Tubosider S.p.A., and it can be used on the sides of the viaducts, especially in new constructions or upgrading works, which according to the first information, will have a good response from the market.