

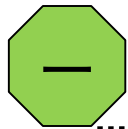
INTRODUCTION OF **JSTI GROUP and TRI**

Frank Hao Li

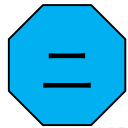
Deputy Director of TRI
JSTI GROUP

May 22th, 2017 Denver

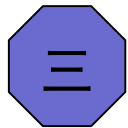
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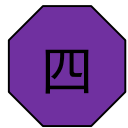
Introduction of JSTI GROUP



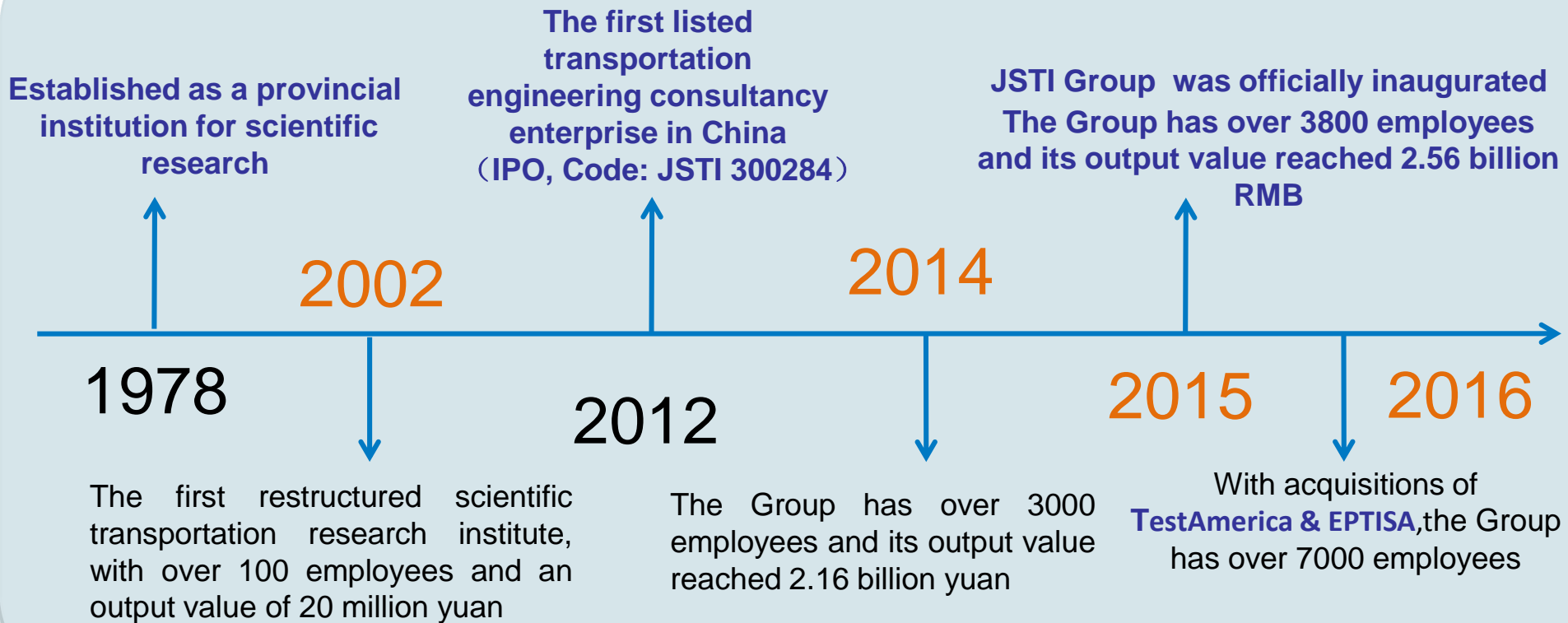
Introduction of Transportation Research Institute



Technical Ability and Test Capability



International Communication & Cooperation

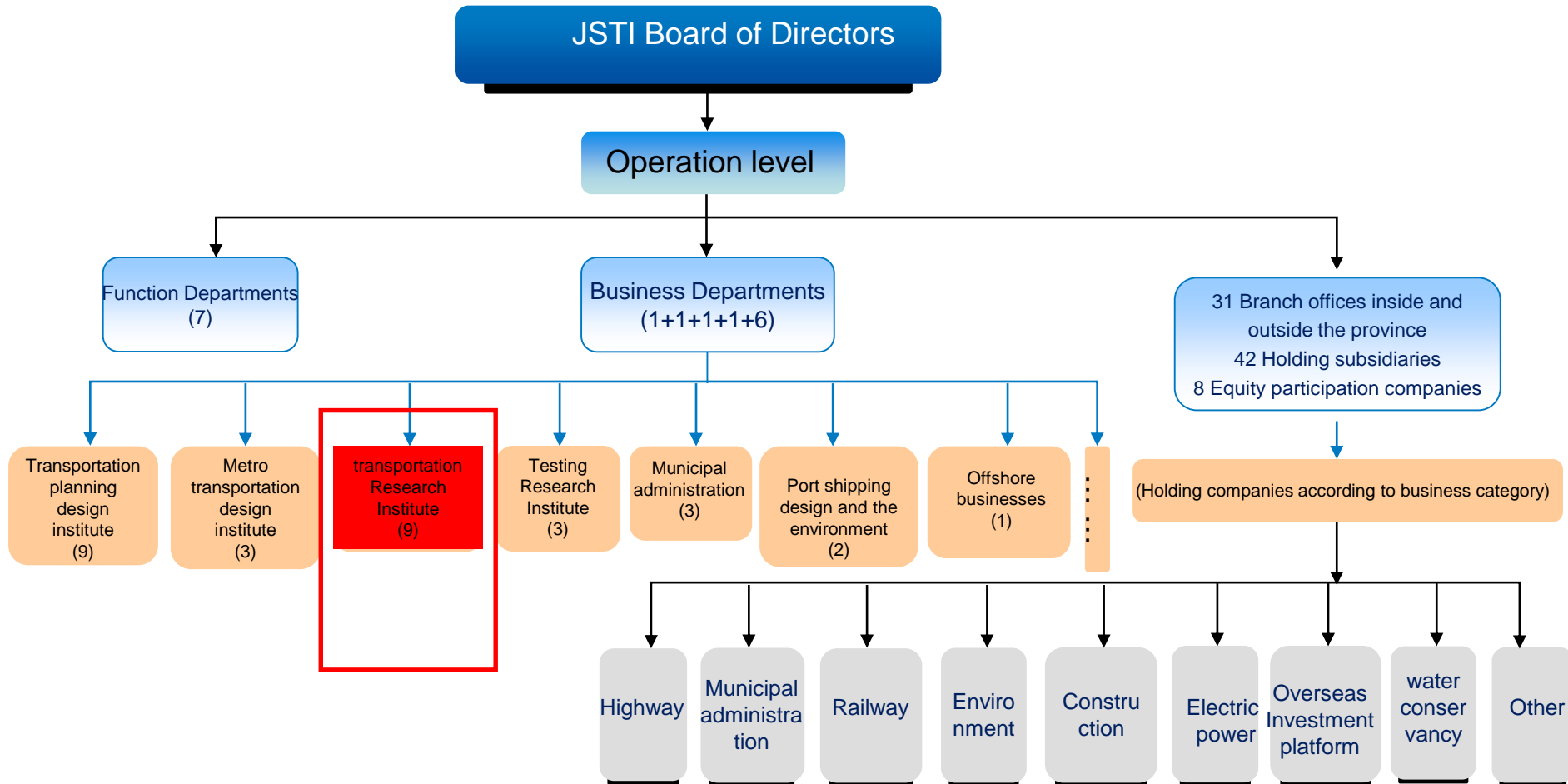


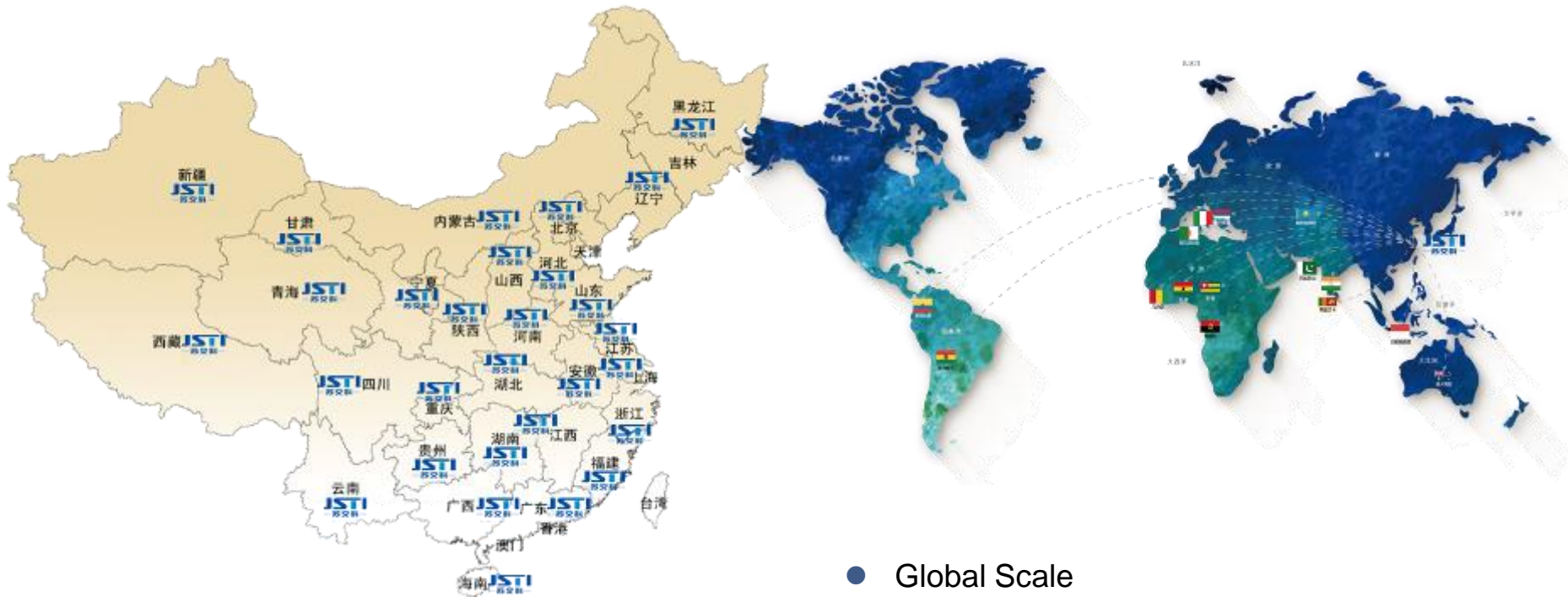


●With its scope of operation covering industries such as of highways, municipal administration, irrigation, railways, rail transit, environment, aviation, construction and electric power, JSTI has developed into a conglomerate with survey and design, scientific research, testing and new materials, and R&D for new technologies at its core.



Global Infrastructure Consulting Service Provider





- National Scale
- JSTI operations have covered all 31 provinces, autonomous regions and municipalities in the country except Hong Kong, Macau and Taiwan

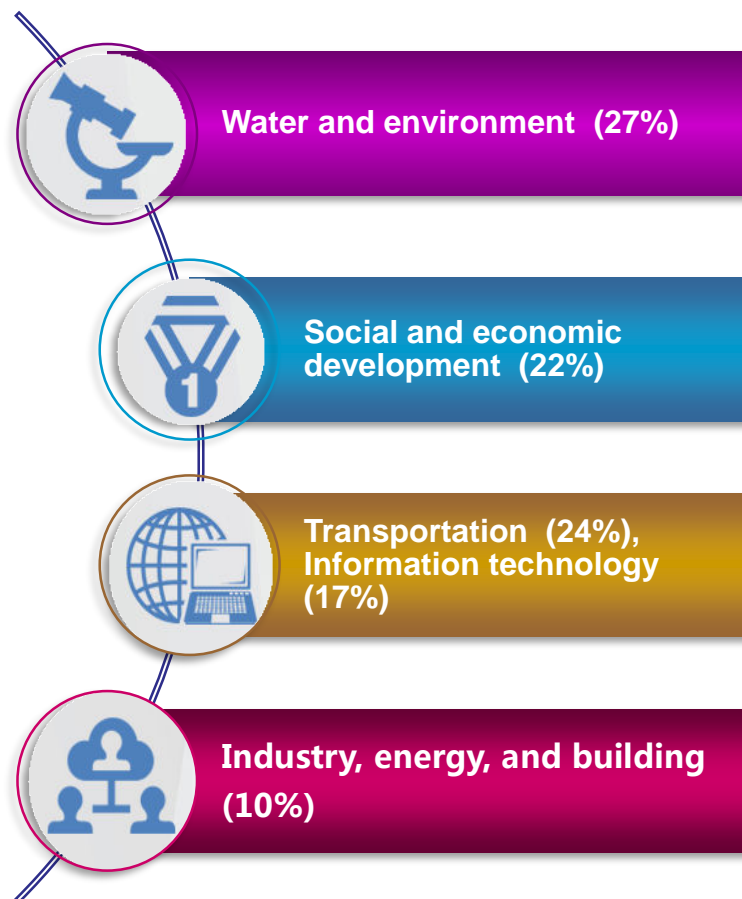
- Global Scale
- Business has been extended to such countries and regions as Africa, Southeast Asia, America, East Europe, Australia, Italy, and Pakistan, etc.
- Based on the overall development trend of internationalization
- One of the first Chinese engineering design and consultancy enterprises that went global



US **Largest** environmental
monitoring service provider-
TestAmerica

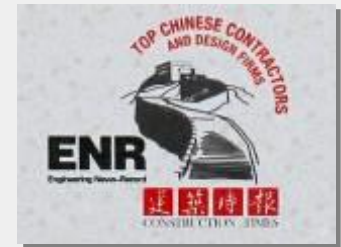


World **leading** engineering design
consulting service provider-
Spain EPTISA

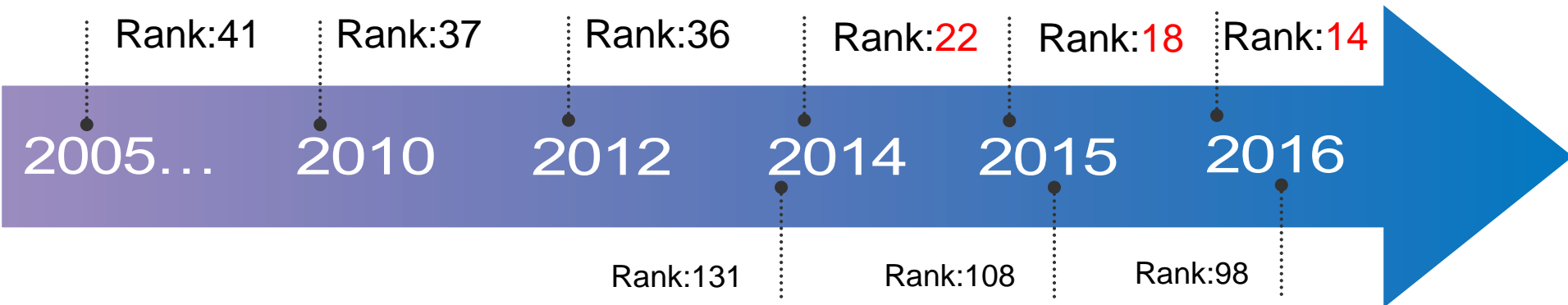




- Appraised by America's ENR as among the “Top 60 Chinese Survey Planning Enterprises” for 12 consecutive years (ranking 14th place in 2016).
- JSTI ranked 108th and 98th among the “Global Top 150 Engineering Design Companies” by America's ENR in 2014-2016.



In the annual rankings of the “Top 60 Chinese Survey Planning Enterprises” for 2005-2016



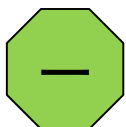
In the annual rankings of the “Global Top 150 Engineering Design Companies” for 2014-2016

Rank:131

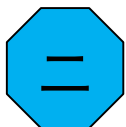
Rank:108

Rank:98

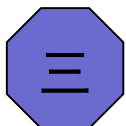
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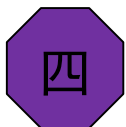
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Introduction of Transportation Research Institute



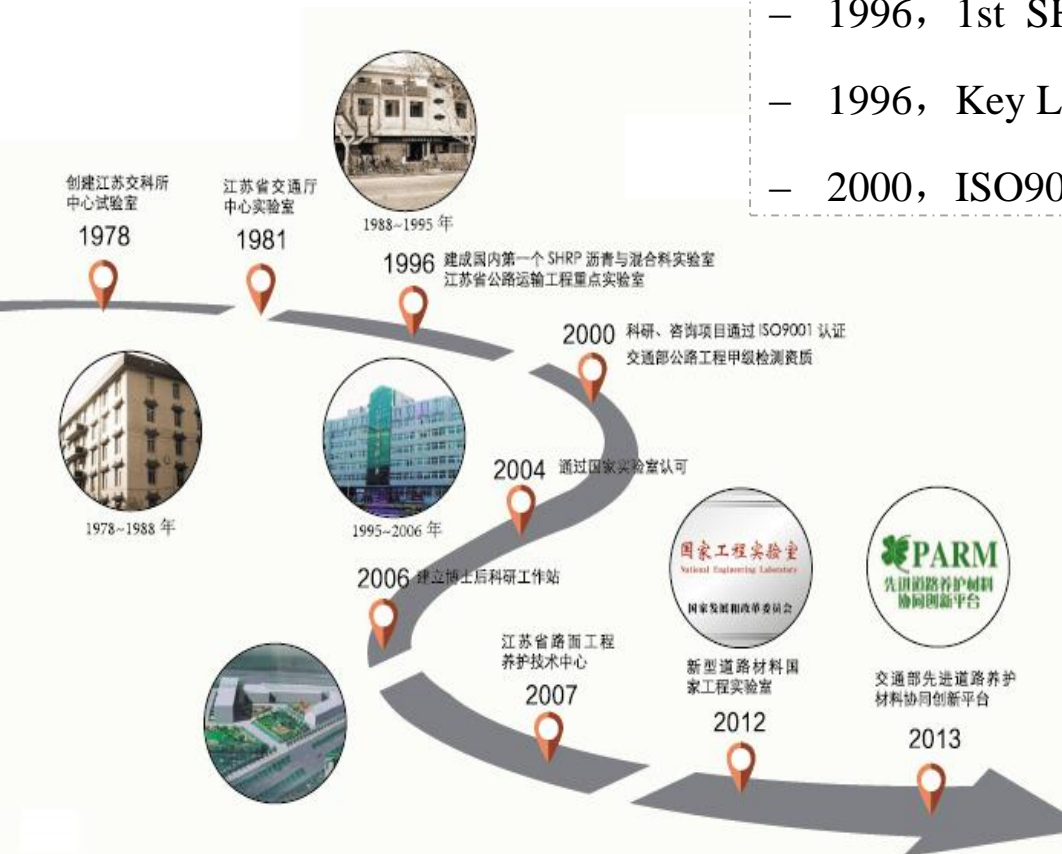
Technical Ability and Test Capability



International Communication & Cooperation



- 1978, Founded as central lab of Jiangsu Transportation Research Institute
- 1981, Central Lab of JSDOT
- 1996, 1st SHRP Lab in China
- 1996, Key Lab of Transportation Research of JS Province
- 2000, ISO9001 Certification

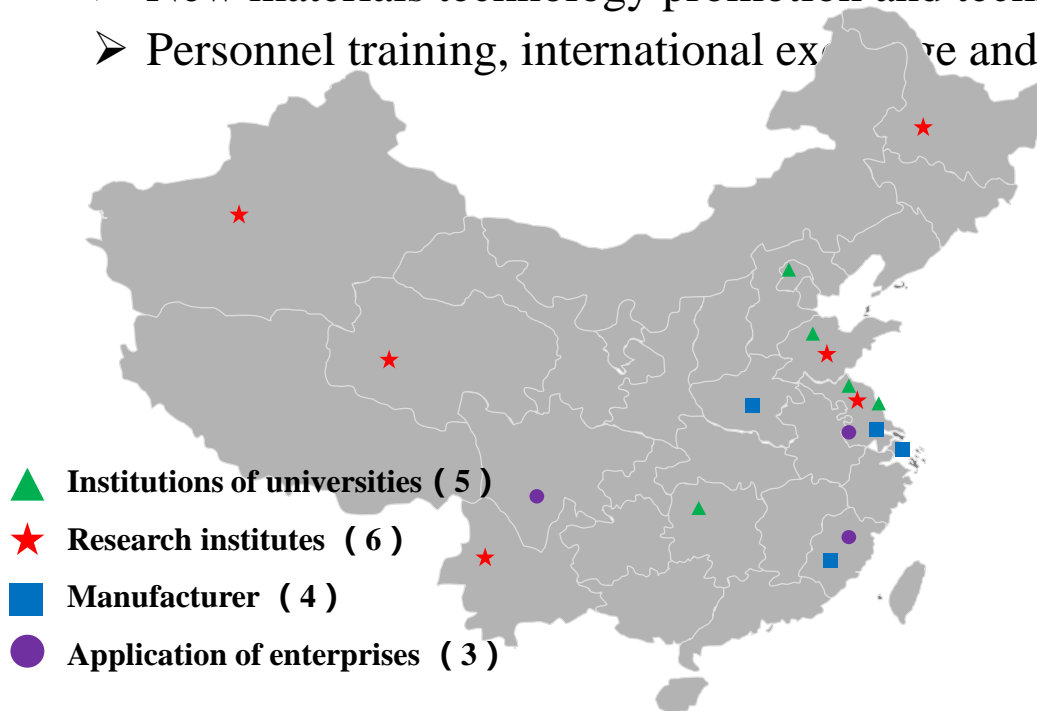


- 2000, Class's A Qualification
- 2006, Post Doctor Station
- 2007, Pavement Maintenance Center of JS
- **2012, National Lab of Advanced Road Material (NLARM)**
- **2013, Collaborative Platform for Advanced Road Materials (CPARM)**



□ National Lab of Advanced Road Material (NLARM)

- Awarded by NDRC and MOT
- China's unique national road material R&D platform
- Research on the application of new road materials
- Product equipment development research
- New material design verification and standard research
- New materials technology promotion and technical services
- Personnel training, international exchange and cooperation



**MOT Collaborative platform for
advanced road materials**

**Academy, Industry, and
Consultant, with
collaboration for innovation**

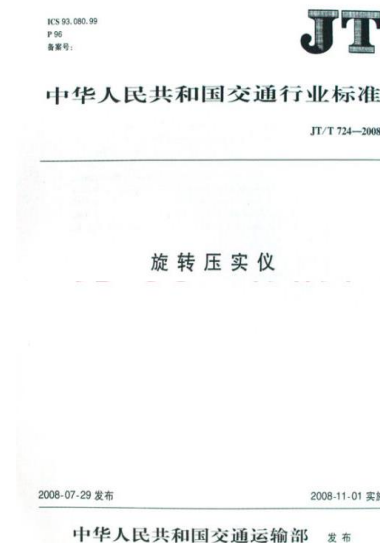
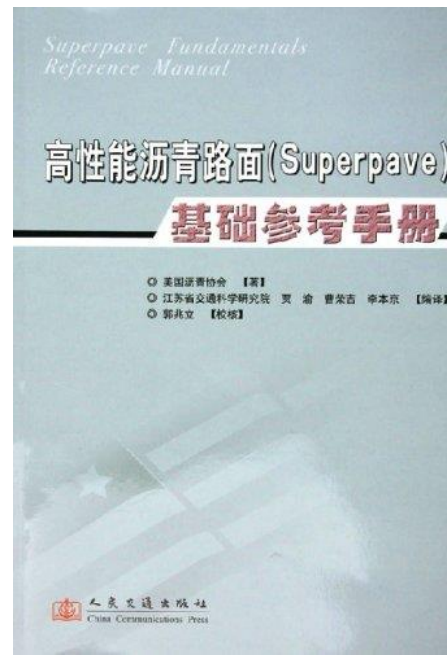


Mr. YU Jia

Chief Engineer

Famous expert of
asphalt pavement,

Former Chairman
of International
Society of
Asphalt
Pavement(ISAP)





Dr. Rongji Cao

Professor,
Vice President of JSTI
International rubber
asphalt ambassador



Dr. Chen Ling

Director of JSTRI
Professor level senior
engineer , Famous
expert of asphalt
pavement



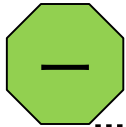
Mr. Hao Li

Senior Engineer, RCE,
Deputy Dean of JSTRI,
Pavement
maintenance and
management Expert



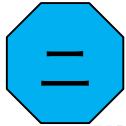
Awards	Year	Winning Projects
Jiangsu Province outstanding engineering consulting achievement award first prize	2007	Study on Construction Technical Specifications of Expressway Asphalt Pavement in Jiangsu Province
	2008	Study on the Application of Rubber Asphalt in Expressway
	2015	Long - term observation of service performance of research section of asphalt pavement of expressway in Jiangsu province
China Highway Society Science and Technology Award	2009	Study on Management and Key Technology of Extension Project of Jiangsu Section of Huning Expressway
	2010	Research on Technology Integration of Superpave
	2012	Study on Key Technology of Long - span Steel Deck Pavement Maintenance
Scientific Research Outstanding Achievement Award (S&T) - Technology Invention Award first prize	2014	Key Technology and Equipment for High Efficiency Recycling of Highway Asphalt Pavement
Guizhou Provincial Highway Institute Award	2016	Study on Preventive Maintenance System of Main Road Surface in Guizhou Province

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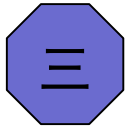
Introduction of JSTI Group

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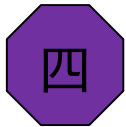
Introduction of Transportation Research Institute

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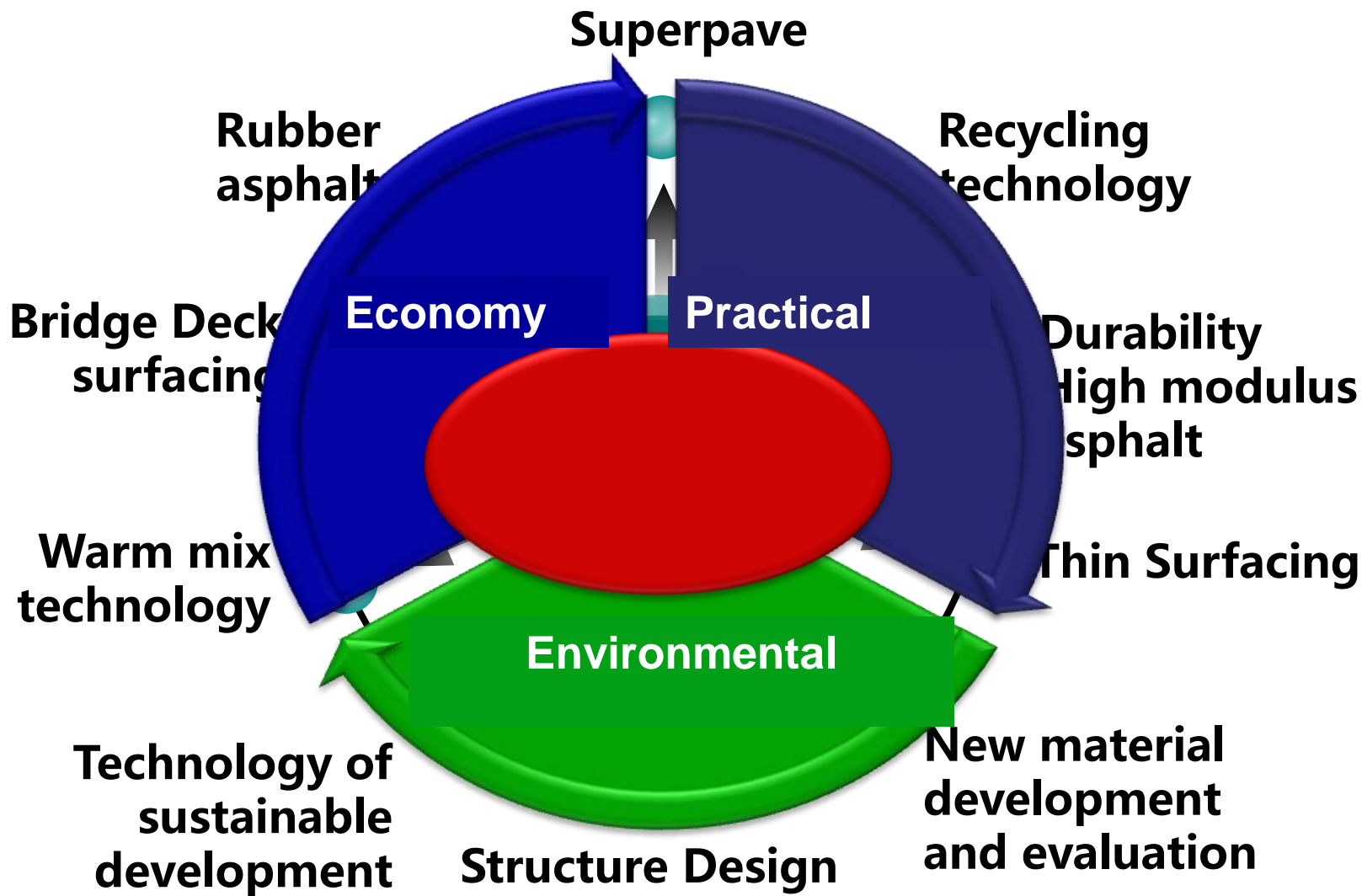
Technical Ability and Test Capability

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International Communication & Cooperation

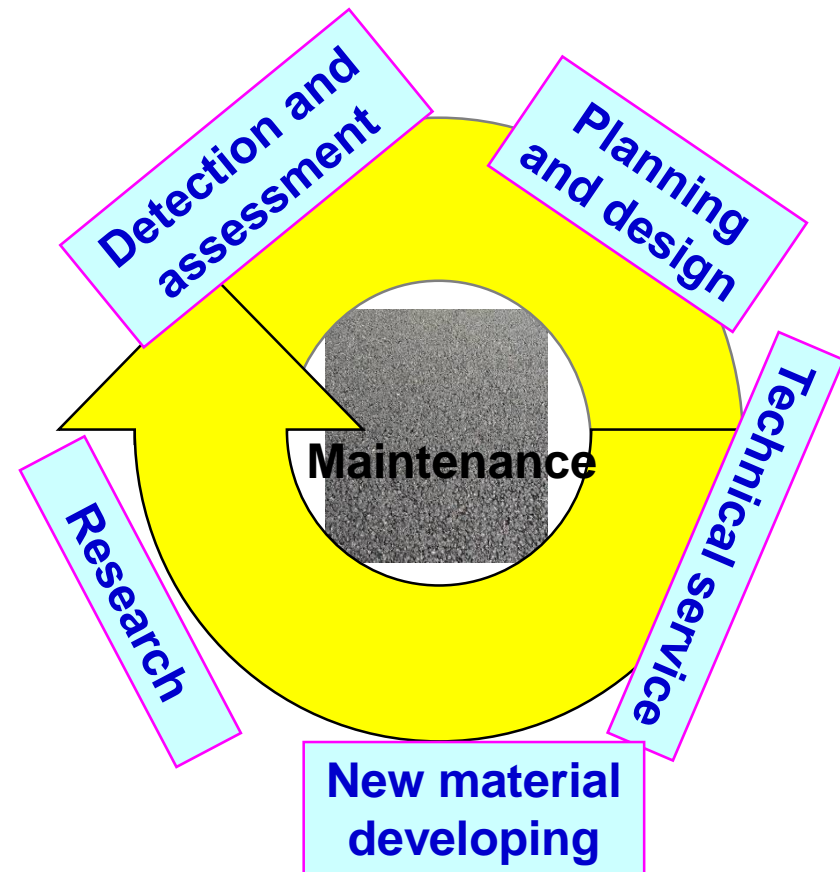
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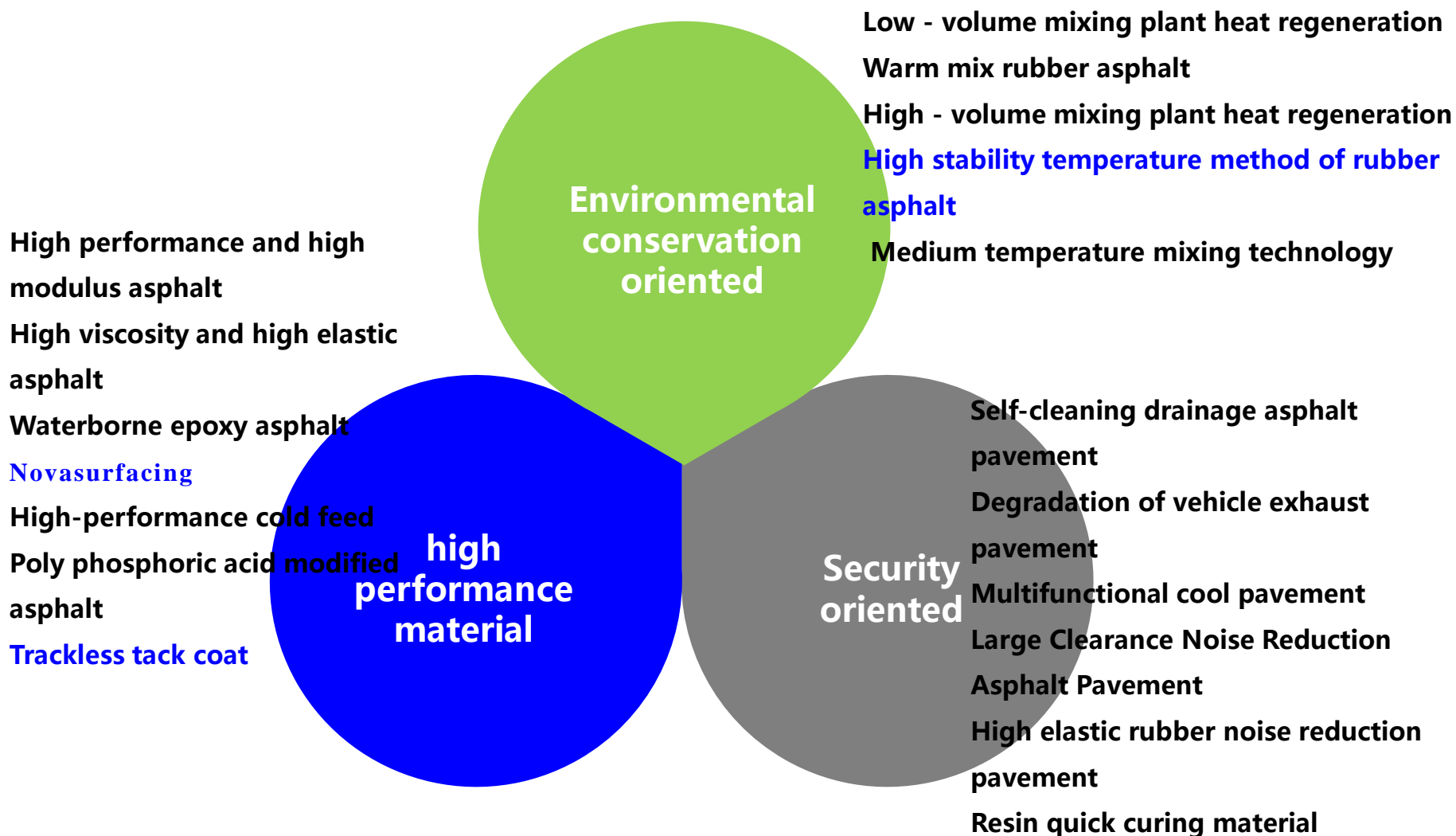
➤ Main Service—Full life cycle service for road construction and preservation

- Technical Consultation for road construction
- Pavement Preservation Technology Research
- Pavement testing and evaluation
- Forensic Study
- Maintenance and Rehabilitation Design
- Technical support during implementation
- New material R&D and Industrialization





Development and Application of New Road Materials

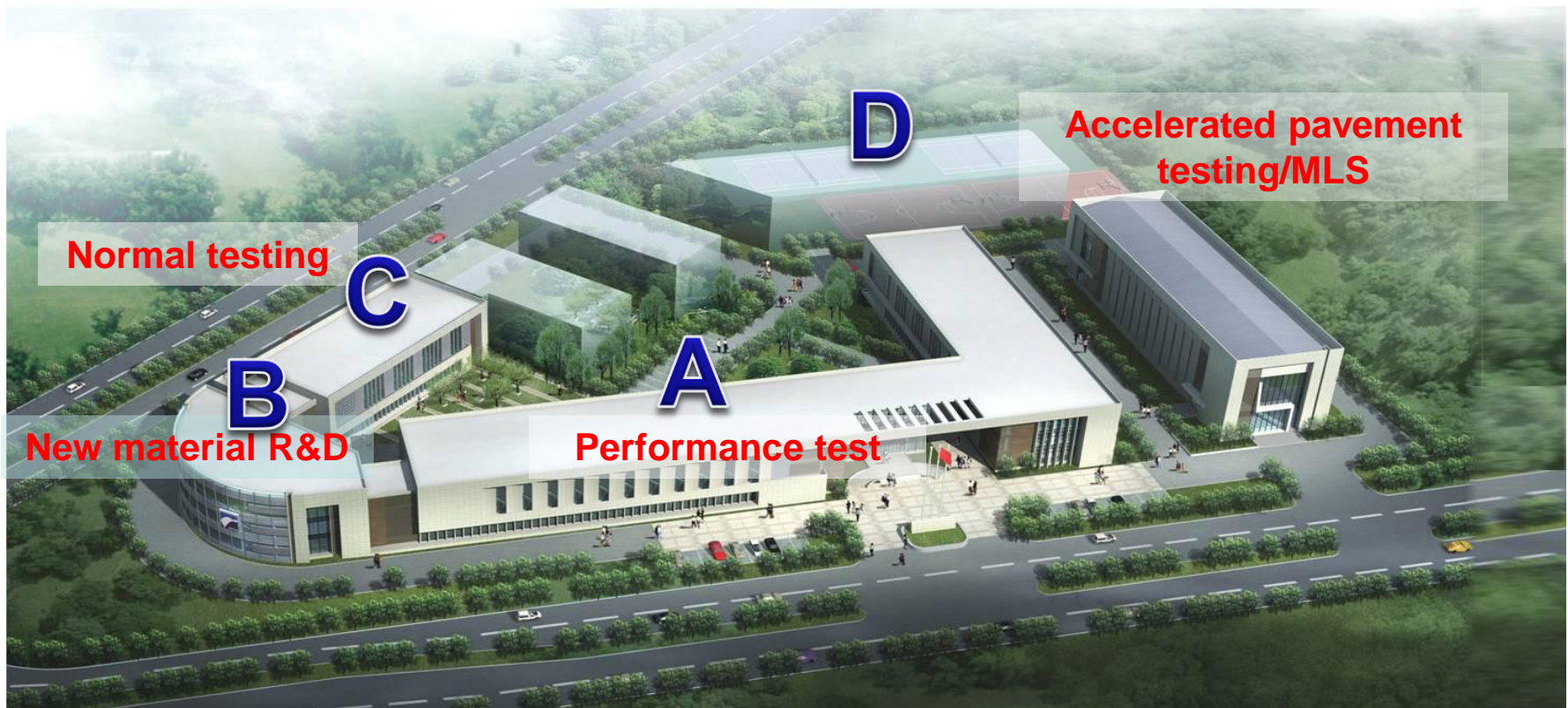




□ National Lab of Advanced Road Material (NLARM)

The largest pavement research laboratory in China

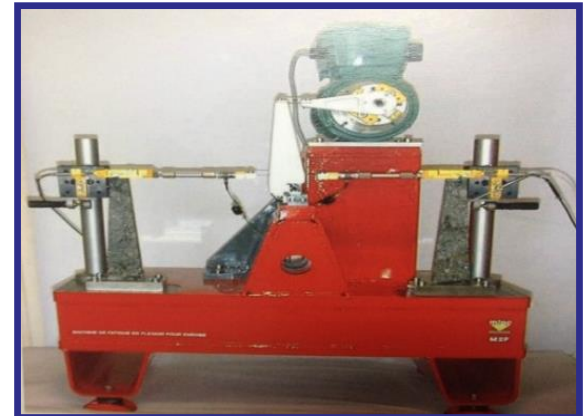
Functional area	A	B	C	D	Total
Area (m ²)	2224.6	810	603.3	602.7	4240.6





• Advanced instrument and equipment

- 1st Full SHRP Apparatus (The first set of equipment in China)
- 1st Gyratory Compactor (The first set of equipment in China)
- NAT
- Full set of French Mix Design Equipment
- UTM100





MLS



□ Pavement Investigation Equipment

The most complete equipment in China



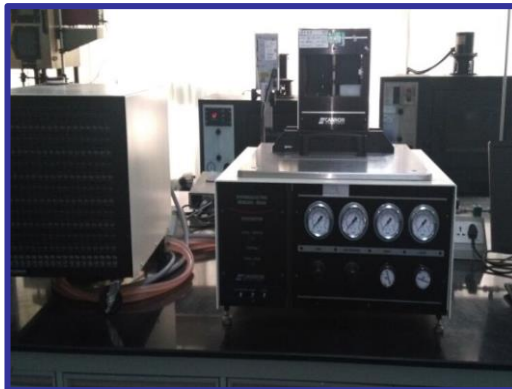
Longitudinal force coefficient vehicle





• TEST EQUIPMENTS OF EMULSION

- Emulsified asphalt colloid mill, lab and pilot equipment
- Laser particle size analyzer
- DSR
- BBR
- Brookfield viscometer
-



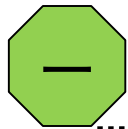


- **AMRL Comparison Test**

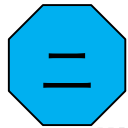
- AMRL Proficiency Sample Program

- Performance Graded of Asphalt Binder
 - Gyratory tests
 - Coarse Aggregate test
 - Emulsified asphalt test samples from 2016
 - Evaporated Residue
 - Distilled Residue
 - Saybolt Viscosity

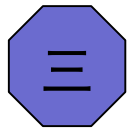
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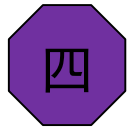
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Introduction of Transportation Research Institute



Technical Ability and Test Capability



International Communication & Cooperation



- The Federal Highway Administration--FHWA (U.S)
- Western Research Institute (U.S)
- Applied Research Association-ARA (U.S)
- FP2、NCCP、NCAT、LSU、TTI、ISSA
- IFSTAR (Past LCPC) (France)
- Transport Research Laboratory-TRL (UK)
- Bundesanstalt Fur Strassenwesen—BAST(Germany)
- National de Controle Technique des travaux Publics--CTTP(Algeria)
- Kazakhstan transportation research institute .JSC—KazdoNII (Kazakhstan)



FHWA



WRI



IFSTAR (LCPC)



CTTP



BAST



KazdoNII JSC



Rubber Asphalt 2009 Conference



ISAP Symposium 2012



LCA Symposium 2015



2016 Conference on Superpave



序号	Project Source	Project Name	Time
1	Kazakhstan	Kazakhstan TKU&UD highway reconstruction project center laboratory	2016-
2	China CITIC - China Railway Construction Consortium Project	Algeria East-West high-speed technical advisory services and in France and the United States comparative analysis of asphalt mixture design system	2009.7- 2012.12
3	Ministry of Science and Technology International Science and Technology Cooperation Project	Research on establishment and application of key technology system of asphalt pavement in African Countries	
4	CREEGC	Assistance to Pakistan national highway network repair (N5, N55) project pavement structure gradation optimization design consultation	2014.8-now



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