

Overview of Taiwan High Speed Rail



Taiwan High Speed Rail Corporation 2015/10/14

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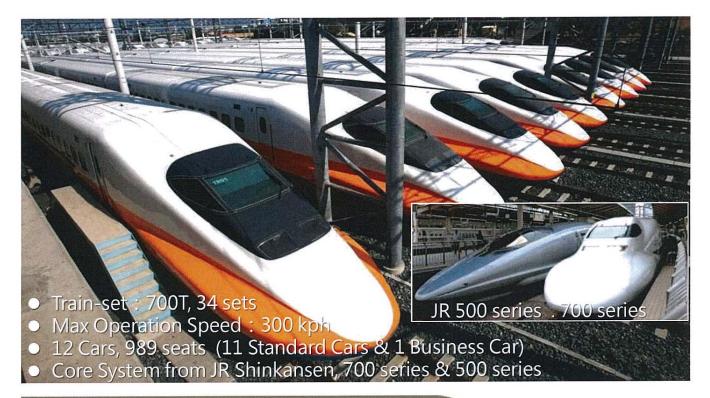


Taiwan High Speed Rail Project

The first oversea project based on Japan's Shinkansen technology

700T Train-set





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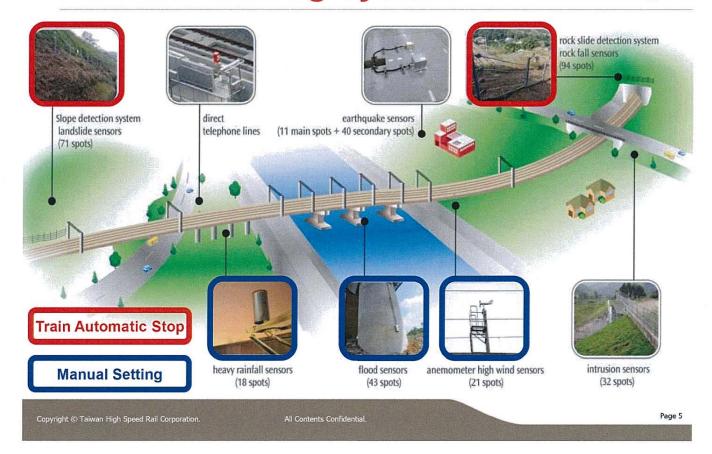




System Assurance & Operation Readiness

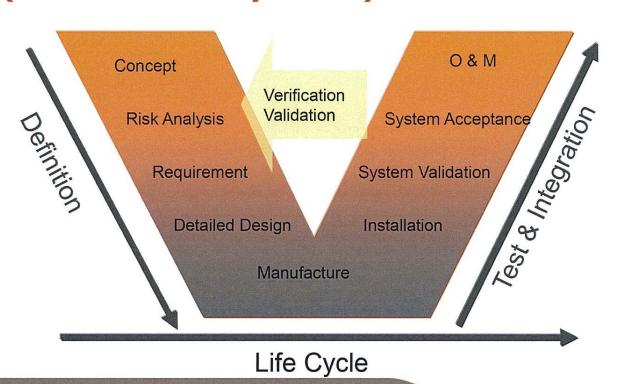
Disaster Warning System





System Safety Design & Operation (EN50126 Safety Norm)

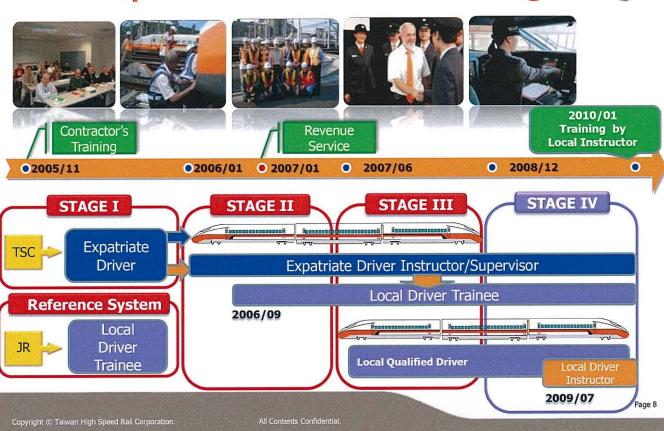




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Build up in-house Driver Training







Operation Stage

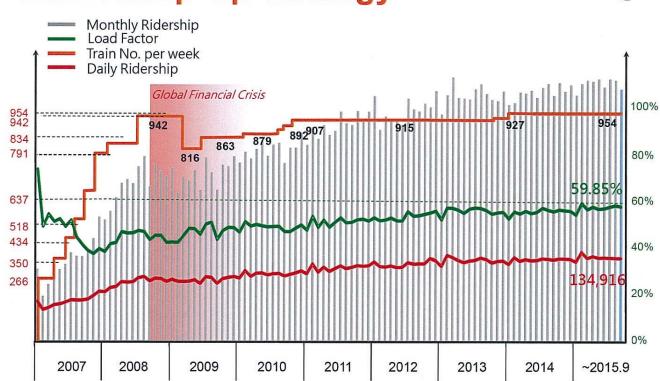
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Train Ramp-Up Strategy





HSR Maintenance Strategy





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Innovative Service

Innovative Ticketing Service



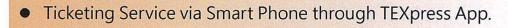
Convenience Store Tickets (over 10,000 stores in Taiwan)











 Multi-Ride Ticket and Periodic Ticket through CSC (Contactless Smart Card) provide convenient service for commuters.



- Easy Card is a kind of CSC used for Taipei Metro with issued number over 49 million.
- Co-branded Easy Card is Easy Card linked with a credit account to add value automatically which is able to take Non-Reserved seat of THSR.



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Innovative Ticketing Service



- SMIS (Seat Map Information System) installed on smart phone is equipped for Train Master.
- Clear seat occupation status and ticket holder identification for effective ticket validation.
- Seat Map information downloads & updates automatically.



Each Ticket Type with Specific Color

Full Fare Senior Person

Children Disabled Promotion

Each Seat Usage with Specific Image

No passenger

Occupied

Occupied (taken by another passenger at next station)

Seat to be taken

innovative maintenance Service



Route Confirmation System of Maintenance Vehicle in Railway

Management System

- Data Interchange
- Live Monitoring and Tracing
- Breakdown train assistance

On-board System

- ATP
- On-board Information(wrong direction, turnout approaching, Ei boundary, system status, etc...)
- Fail-safe concept

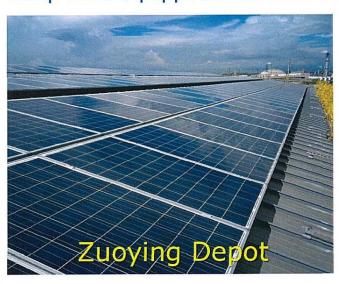
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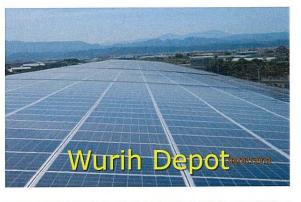
Innovative Energy Saving Service



Shop Roof equipped with Solar Power System



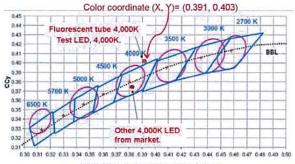
Solar Power System	Capacity (kW)
WUD	1106.85
ZUD	395.74
MWS	3856.58





Innovative Energy Saving Service

700T Train-set Carriages LED Lighting Application for Energy Saving
Color coordinate (X, Y)= (0.391, 0.403)
Cost Benefit analysis

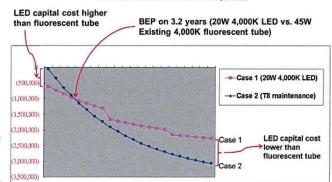


ANSI Fluorescent Lamp Standard ANSI C78.377A LED Standard

Comparison between the existing fluorescent tube, THSRC 4,000K LED & Other LEDs



LED color temperature 4,000K, same as the original configuration



Major achievements

- 55.3% energy saving per train can be achieved. NT\$5 million energy cost saving for 30 trains per year.
- LED tube has been put into service since November, 2013. No complain from passenger so far.
- Train maintenance cost can be lower (Replacement of traditional fluorescent tube can be extended from 2 years to 7 years.)
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Awards

















Golden Service Champion

Awards

Best Winter Trips 2013

Traveling through western Taiwan on the country's high speed rail line has been selected by the editors of National Geographic as one of its "Best Winter Trips" 2013,"

"Hop on a high-speed bullet train in Taipei to zip across western Taiwan's valleys, plains, and Central Mountain Range foothills,"







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Thanks!

