

HIGH-SPEED RAIL TECHNOLOGY



Chandra Dwiputra

CEO of PT Kereta Cepat Indonesia China



**Republik Indonesia akan mampu
menjadi negara maju pada 2045.**

Presiden Joko Widodo



“

3

Makna HSR

PROJECT FINANCE STRUCTURE



30%

70%

EPC CONTRACTOR

High Speed Railway Contractor Consortium (HSRCC)



WIKA

Civil Contractor



CRIC

Project
Management



CREC

Civil Contractor



中国水电
SINOHYDRO

Sinohydro

Civil Contractor



CRRC

Rolling Stock
/ EMU



CRSC

Signaling &
Communication



CRDC

Design

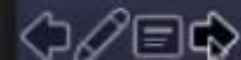
OUR VISION

“To make people’s life better by providing the first choice of connectivity and creating the happy living environment”



OUR MISSION

“To provide the safest, fastest, punctual, comfortable, modern transportation and to create the most wonderful, happy and environment-friendly living style along the corridor to be elaborated”



“

Integrasi/
MaaS
Mobility as a Service

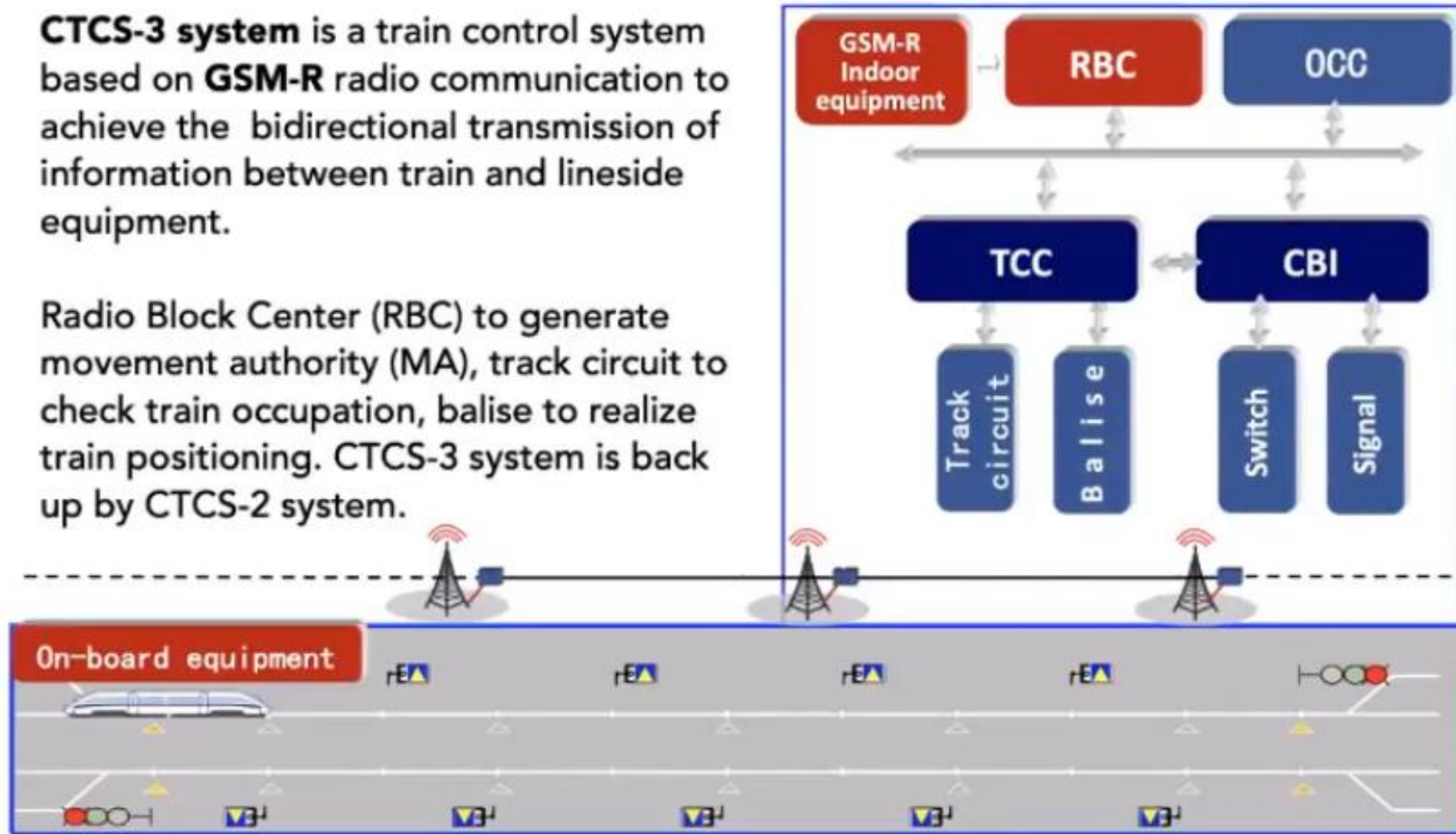




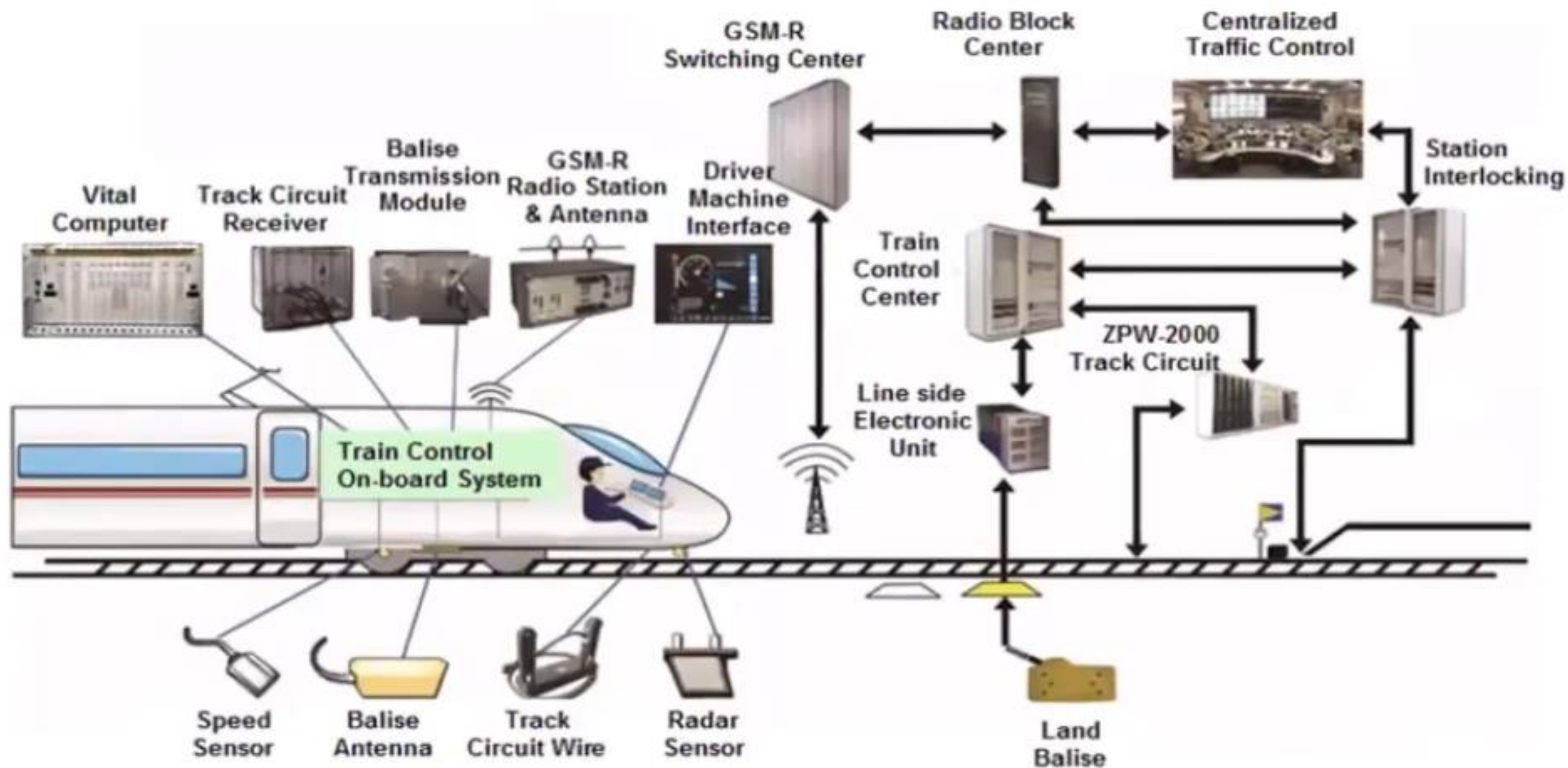
SIGNALING

CTCS-3 system is a train control system based on **GSM-R** radio communication to achieve the bidirectional transmission of information between train and lineside equipment.

Radio Block Center (RBC) to generate movement authority (MA), track circuit to check train occupation, balise to realize train positioning. CTCS-3 system is back up by CTCS-2 system.



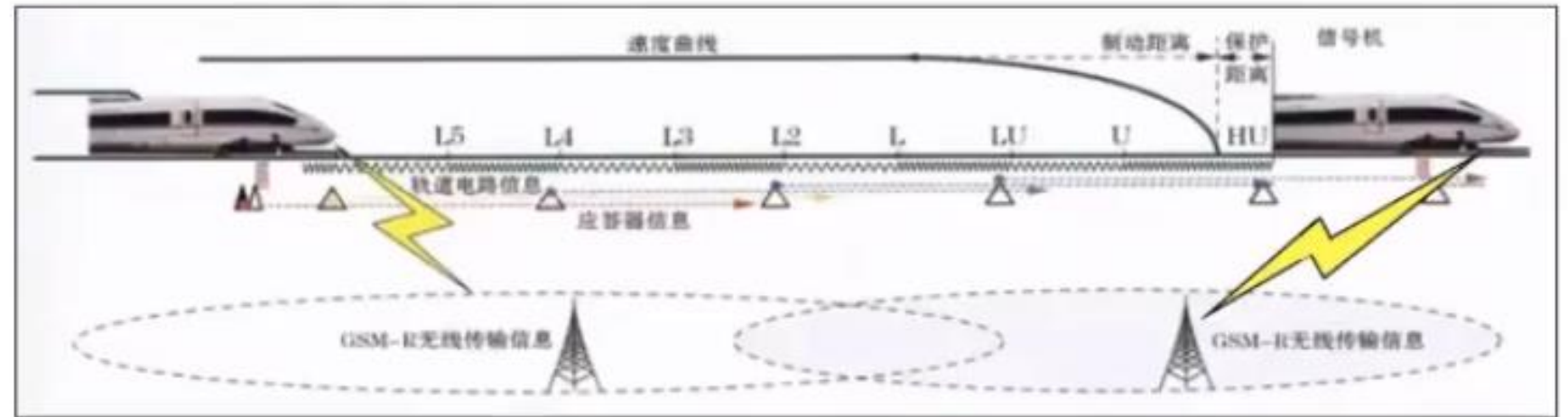
SIGNALING



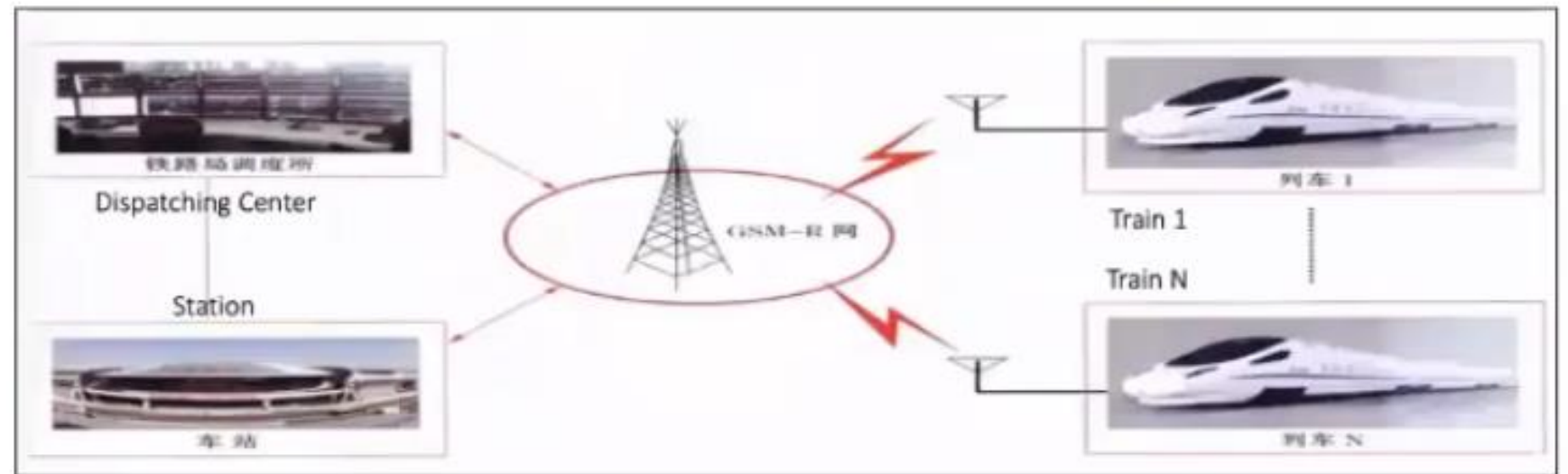
COMMUNICATION

Wireless Communication for Signaling Data and Voice Communication

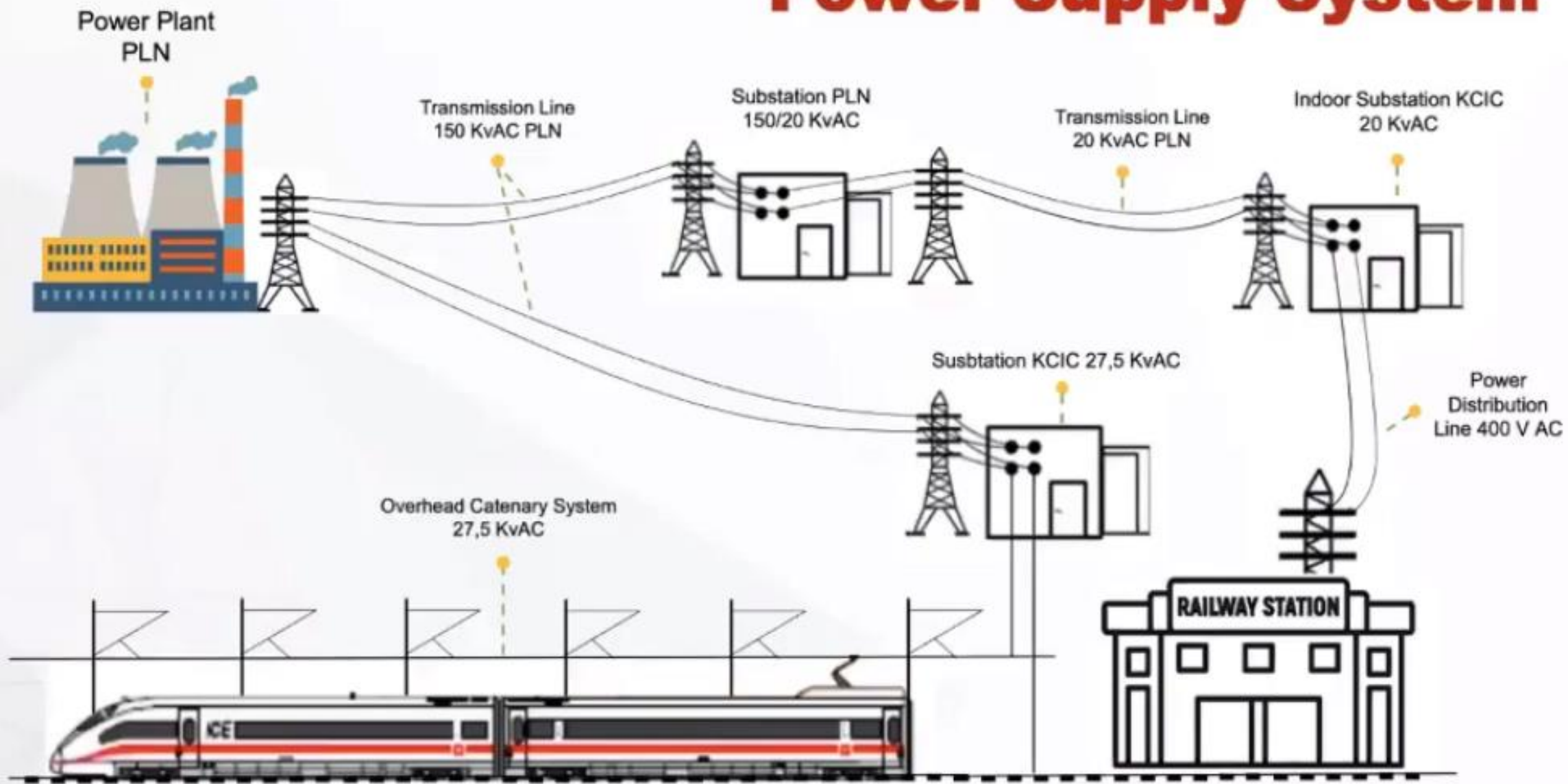
SIGNALING DATA COMMUNICATION



VOICE COMMUNICATION



Power Supply System



EMU

Electric Multiple Unit



142,3 km
Double track



RAIL GAUGE
1435 mm



SPEED
Up to 350 km/hours



TRACTION VOLTAGE
Single
Phase AC 25 kV/50Hz

CR400AF

SIFANG QINGDAO

CAPACITY

1 TRAINSET - 8 CARS

vip, first class, dinning car, second class

VIP :  18

FIRST CLASS :  28

SECOND CLASS :  555

passengers **601**



Height **4,05** meters

Length **208,95** meters

Width **3,36** meters

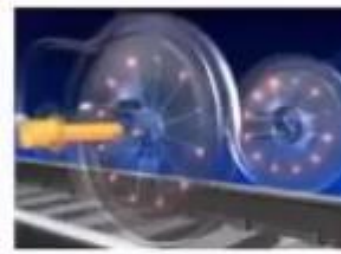
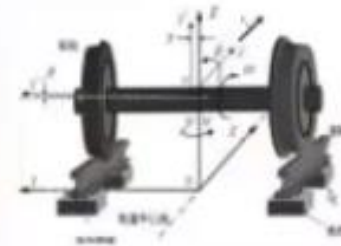
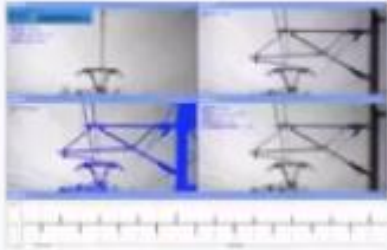
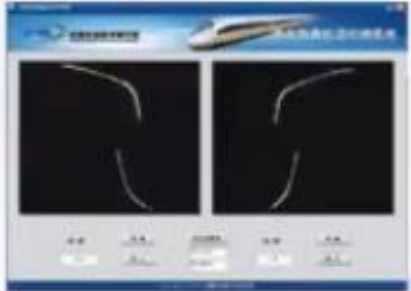
CIT

Comprehensive
Inspection
Train



CR400AF

**The First CR400AF CIT in the world*



Track Geometry
Inspection

Catenary Inspection

Communication
Inspection

Signal Inspection

Wheel/Rail Force
Inspection

Integration System



connecting,
sharing growth



Construction

Progress of the construction work of Jakarta – Bandung HSR Project

Latest Report: **23rd October 2020**

62,9 %



424 Site Hand Over
points Over

Already start construction work

391
points

1

318
points

MASSIVE construction

2

69
points

Construction process

3

4
points

Constructions Preparation And Land Clearance



TRAINING & TRANSFER KNOWLEDGE

TOTAL:

2.132

Mahasiswa dan perorangan yang melakukan kunjung lapangan

**FREKUENSI
TERTINGGI**

**8x
Institut
Teknologi
Bandung
(ITB)**

PER TAHUN

2018

UNIVERSITAS: **779**
INSTITUSI: **96**

2019

UNIVERSITAS: **889**
INSTITUSI: **160**

2020

UNIVERSITAS: **178**
INSTITUSI: **20**

LIST UNIVERSITAS

INDONESIA

Politeknik Negeri Jakarta
Politeknik Negeri Semarang
Politeknik Negeri Bandung
Politeknik Negeri Pontianak
Institut Teknologi Bandung
Universitas Indonesia
Universitas Gajah Mada
Insitut Teknologi 10 Nov Surabaya

Universitas Brawijaya Malang
Universitas Diponegoro Semarang
Telkom University
President University
Universitas Katholik Pararahyangan Bandung
Sekolah Tinggi Transportasi Darat (STTD)
Universitas Mercu Buana
Universitas Pertamina

Universitas Pancasila
UKRIDA Jakarta
Universitas Tarumanegara Jakarta

LUAR NEGERI

Universiti Teknologi Mara (UITM)
Shah Alam Malaysia

1.623 Batang Pier

20 November 2020












KCIC

