



# SOLUÇÃO SISTEMÁTICA DE TRÂNSITO FERROVIÁRIO, CONTRIBUIRÁ NA FUTURA DE "SMART CITY" NO BRASIL

**Key Speaker: Xavier Xu**

CRRC CHANGCHUN RAILWAY VEHICLES CO., LTD.



**intelligent construction**



**intelligent stations**



**intelligent trains**



**intelligent passenger transport**



**5G**

**intelligent transportation system**

**intelligent energy system**

**intelligent passenger service system**

**intelligent train operation system**

**Intelligent Rail Transit System**

**intelligent network management system**

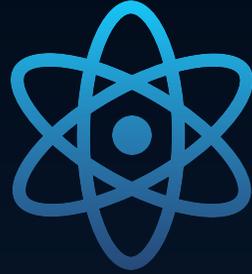
**intelligent assembly system**

**intelligent operation and maintenance safety system**

**intelligent infrastructure system**



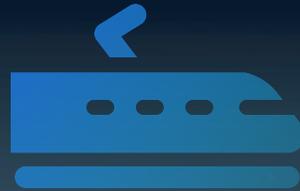
**the users  
requirement**



**the key  
technology**

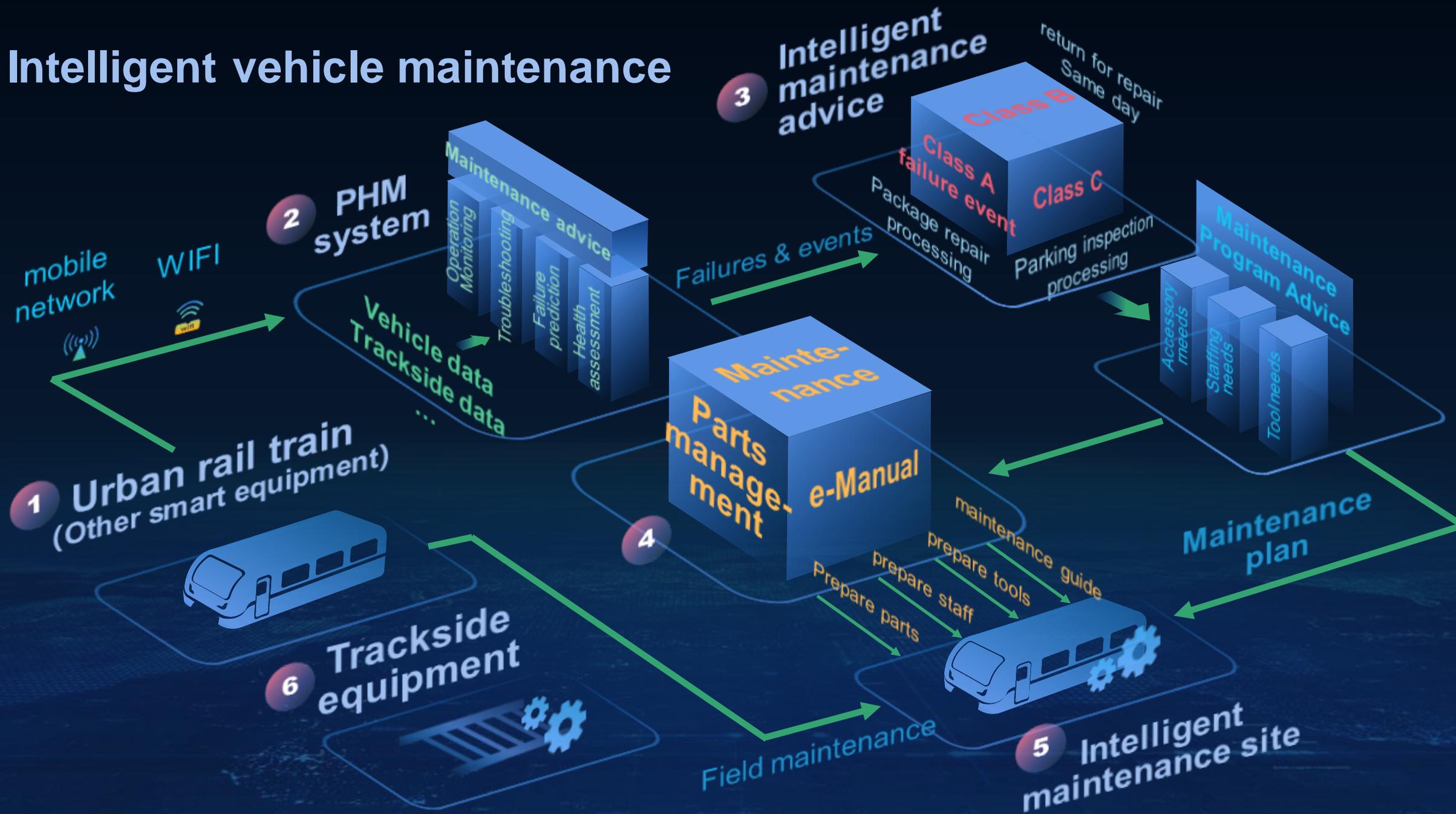


**environment-  
friendly**



**intelligent  
trains**

# Intelligent vehicle maintenance





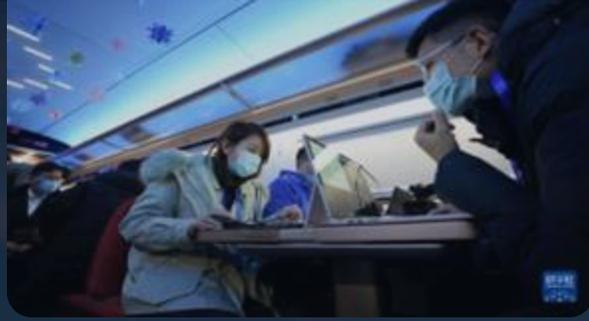
People's Republic of China

中国

# Beijing 2022 Winter Olympic Games and Winter Paralympic Games



# Beijing 2022 Winter Olympic Games and Winter Paralympic Games



# Next Generation Metro

Monitoring Integrated Industrial Ethernet

Flexible Coupling

GOA4 Driverless

Carbon Fiber Body



# • Bogota Metro Line 1

GOA4 Driverless

Bogotá

METRO BOGOTÁ

Bogotá

Obstacle Detection

Track Break Detection



# · Light Rail Train

ATO Autonomous Driving

Highly Intelligent Hydraulic Control System

Speed 80km/h



# World's 1st 160km/h Hydrogen Energy Inter-city Train

Vehicle-to-Vehicle  
Communication

Automatically Wake Up / Start & Stop / Return

Intelligent Operation & Maintenance

High Intelligence, Self-Examination,  
Self-Awareness

Hydrogen Fuel Cell-Energy  
Storage Hybrid Power System



# Thanks For Attention

