

Parallel Session 2A – Smart Solutions for Stations



# The Intelligence of China Railway Passenger Transport Station and its Application in Practice



**UIC next station**  
TEHRAN 2019

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*Director*

# Introduction

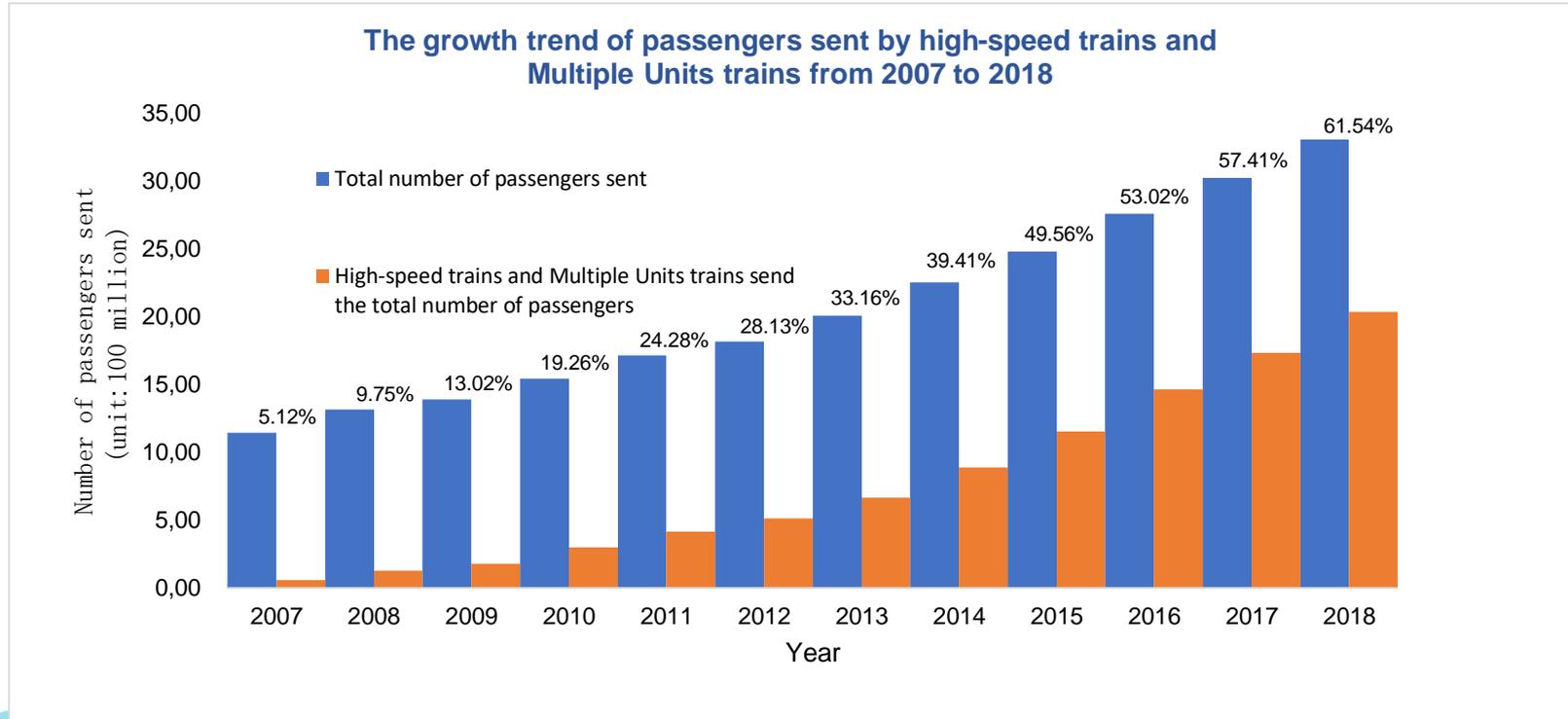


"Four Vertical and Four Horizontal" high-speed railway network in China

"Eight Vertical and Eight Horizontal" high-speed railway network in China

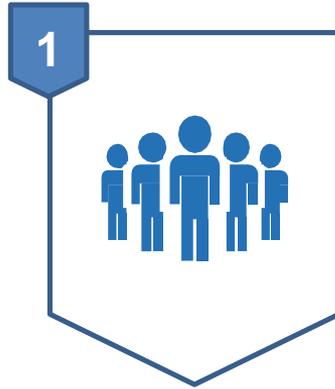


# Introduction



# What is the smart station brain?

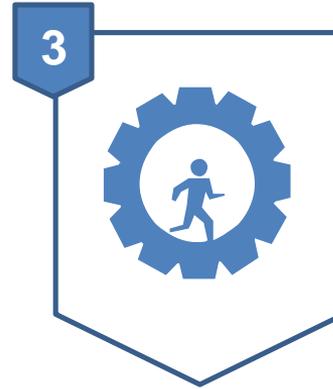
## Intelligent Passenger Station Passenger Service and Production Control Platform



**Convenient  
service for  
passengers**



**Efficient  
production  
organization**



**Secure real-  
time protection**

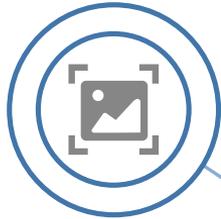


**Centralized  
management of  
equipment**

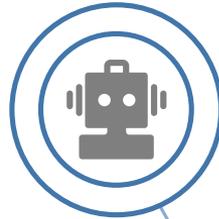
# Intelligent smart station brain application scenario

— Convenient service for passengers

Entering the train station  
depends on  
artificial intelligence  
technology



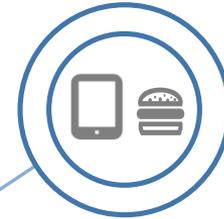
Intelligent query robot



Key passenger service  
information is  
completely covered



Unified ordering  
platform by the Internet



Convenient service for passengers

# Intelligent smart station brain application scenario

——Efficient production organization

Shared passenger service data

Provide a full range of information services to passengers in real time

Adapt to business handling under multiple scenarios

Passenger flow real-time statistics

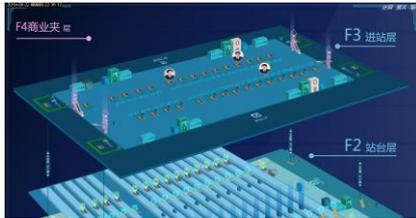
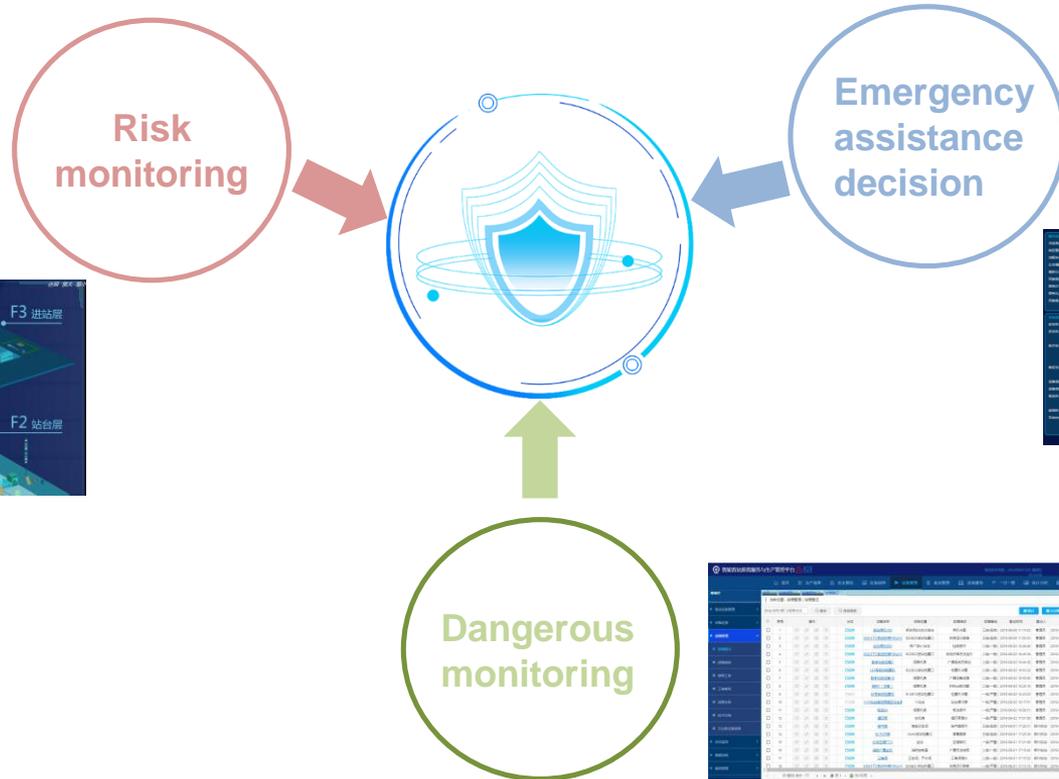


Train late information inquiry

发/到站	郑州东	许昌东		
出发日期	2019-09-01			
G547次	正点			
到站	发站	8道	车型:CR40	编组:8
16:44	16:44	OAF		
G2625次	正点			
到站	发站	14道	车型:CRH3	编组:8
16:56	17:00	80BG		
G1273次	正点			
到站	发站	16道	车型:CRH3	编组:8
17:03	17:07	80BG		
G519次	正点			
到站	发站	12道	车型:CR	编组:16
17:20	17:23	400AF重		
G1215次	正点			
到站	发站	13道	车型:CRH3	编组:8
17:36	17:50	80B		

# Intelligent smart station brain application scenario

——Secure real-time protection



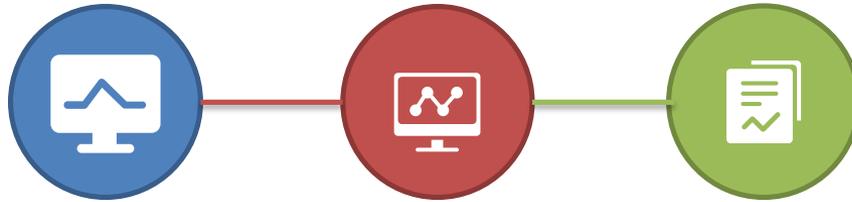
A screenshot of a data table with multiple columns and rows, likely representing station performance or safety data.

# Intelligent smart station brain application scenario

—Centralized management of equipment

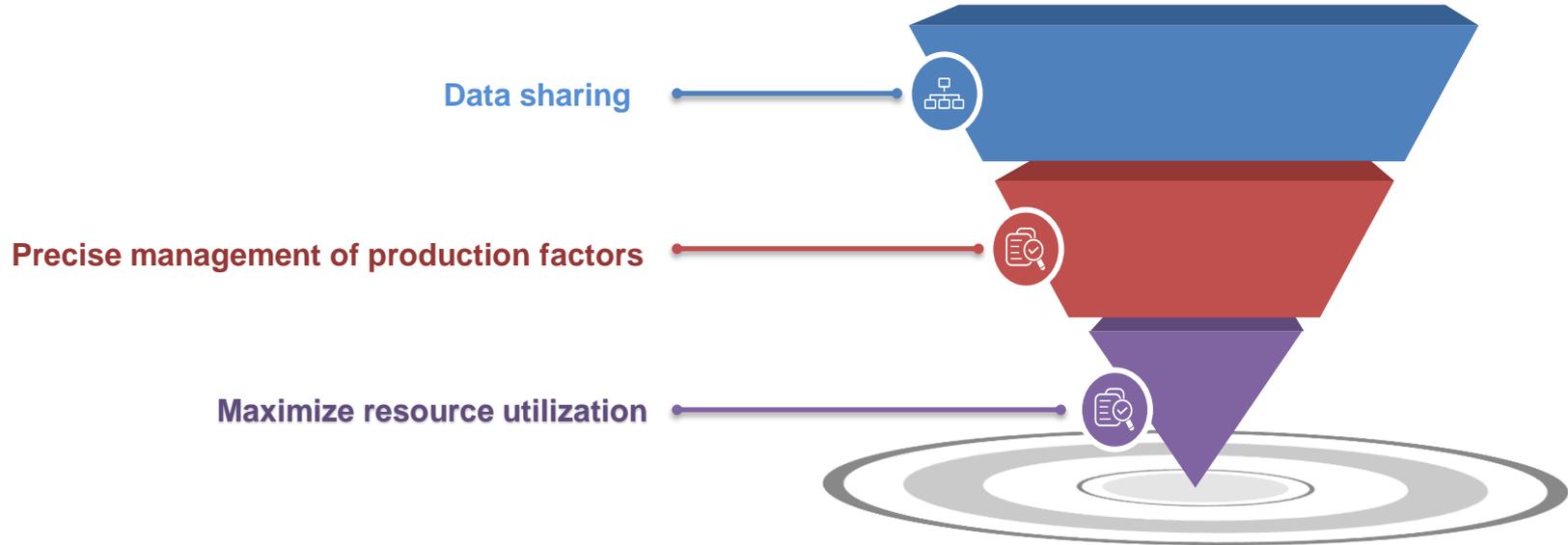
Dynamic monitoring of  
equipment operating  
status in the station

Propose a self-discipline  
management strategy for  
large energy equipment



Analyze equipment operation and  
maintenance plan and propose  
equipment maintenance strategy

# Achievement



# Outlook

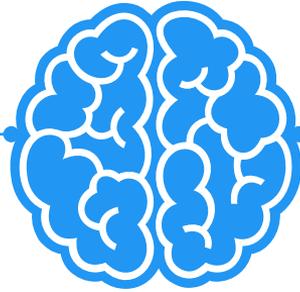
Ticketing service  
based on speech  
recognition



Mobile-based  
recommendation  
service



Artificial  
intelligence  
assistant



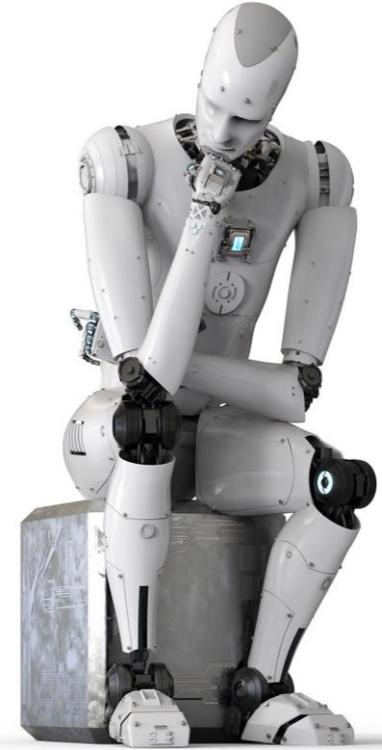
5G-based equipment  
operation and  
maintenance



Emergency treatment  
based on artificial  
intelligence



Tacking train based on  
face recognition





**11th World Congress on High Speed Rail**  
**2020.6.30-2020.7.3**  
**Welcome to Beijing**

**More Information : <http://www.china-railway.com.cn/>**



**Thank you**  
for your kind attention