

Session4.3 Room Karam4 Commercial / Service quality



Moderator: Mr. Fabrice SETTA Senior Advisor, UIC, France







Session4.3 Commercial / Service quality Speaker Lists;

1

2

3

4

5

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7

Ms.Anne Bigand

France



Mr.Michael Bradley

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Mr. Tewfik BOUARIF

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Mr.WANG Jianxiong

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Mr.HAMZA OURABAH

Morocco



Nacera BECHARI

Morocco



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France

HIGH-SPEED RAIL: THE RIGHT SPEED FOR OUR PLANET Under the High Patronage of his Majesty King Mohammed VI

11TH WORLD CONGRESS OF HIGH-SPEED RAIL

Marrakech, 7-10 MARCH 2023

PASSENGER EXPERIENCE FOR HIGH-SPEED TRAIN Delighting travellers to provide a cost-effective service

Anne BIGAND
Passenger Experience Director, Alstom
Session3-4.3 Commercial/ Service quality

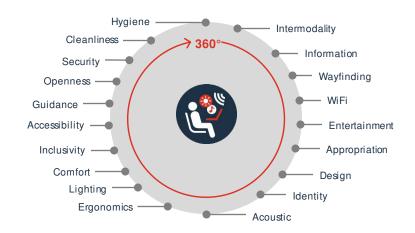






WHAT IS PASSENGER EXPERIENCE?

"The perception of the traveler in interaction with the products and services before, during and after the journey"











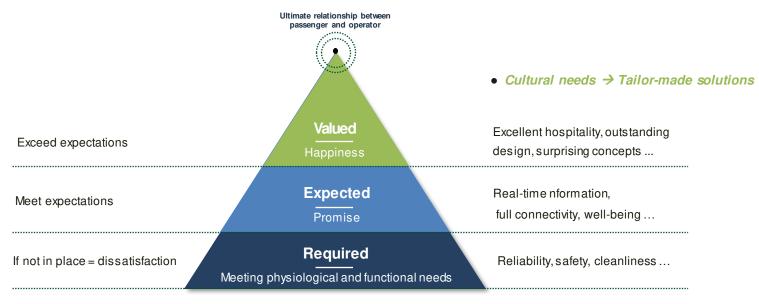








LEVELS OF EXPECTATION AND MEANS TO MEET THE EXPERIENCE



- Universal needs → Catalogue of solutions
- → Understand each specific need to offer the most appropriate answer





FROM STRATEGY TO DELIVERY, EMBRACE A PASSENGER CENTRIC MINDSET

Junior#ESSEC **in**Process Anticipate future needs **Ipsos** New behaviors, social trends French Business school Strategic research Institute Innov ation agency **Innovate** through agile process 2 Empathise - Define - Ideate - Prototype - Experiment - Develop Based on surveys, behaviors analysis ALSTO M Fundación Build partnerships with major actors 3 Virology and Customers, PRM associations, start-ups, incubators Collaboration agreement health labs with Once in Spain Co-design thanks to cross-expertise Engineering, Design, Perceiv ed quality, Pax exp, Ergonomics, Ecoconception, Marketing Embark all stakeholders

→ Always consider passenger's uses beyond technical constraints





PASSENGER SURVEY WITH LOCAL AGENCY & USERS

Dig deeper into the local expectations and cultural values

OBSERVE

Detect the habits, behaviors, pain points, expectations

IDENTIFY

Precise needs & improvements Build personas & journey maps

DEFINE

Address each specific need
Create the most suitable offer



"Sometimes I'm afraid of causing too much noise with my children"















→ Define the most beneficial solution to enhance the overall experience





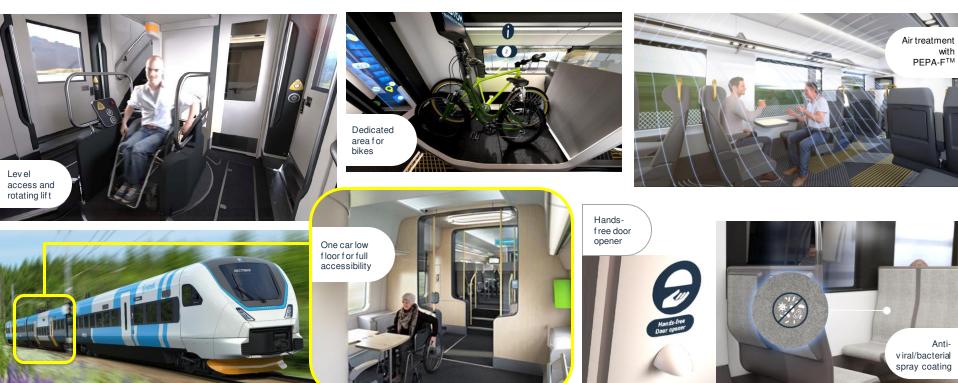
THE NEW MOBILITY: ACCELERATING CHANGE DRIVEN BY NEW TECHNOLOGIES



→ Opportunities for innovations, inclusive mobility and satisfying experience



INCLUSIVITY - HEALTHIER MOBILITY™







CONNECTIVITY - DIGITAL SERVICES - PROFILING











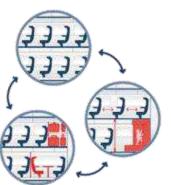




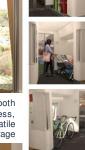


MODULARITY - FLEXIBILITY - SMART TECHNOLOGIES



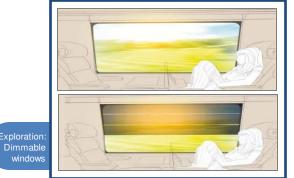
















HIGH END COMFORT - WELL-BEING













PASSENGERS ARE THE COMMON ASSET OF ALL SKATEHOLDERS

- Understand each other aspirations
- Identify existing needs and anticipate future expectations
- To define the most suitable and beneficial answer

→ Build a fruitful experience to attract passengers and to generate revenues



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THANK YOU

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11THWORLD CONGRESS OF HIGH-SPEED RAIL

Marrakech, 7-10 MARCH 2023

Inclusive Passenger Experience An approach to reduce exclusion and deliver an improved customer experience on high-speed rail

Speakers

Mike Bradley Senior Research Associate, University of Cambridge, UK **Paul Plummer**

Birmingham Centre for Rail Research and Education, University of Birmingham **Co-Authors**

Dimantha Gunawardana & Ying Cen Tee, Hitachi Rail
Matteo Zallio, Joy Goodman-Deane & P. John Clarkson,
University of Cambridge
Robert Morland, Astutim Limited

ONCF





Inclusive Passenger Experience

What is it?

Using Inclusive Design Tools to quantify the user experience from a human capability perspective

Why?

 To provide quantified evidence to assess and justify improvements in the inclusivity and by extension, the passenger experience of a rail journey

So how does this work?

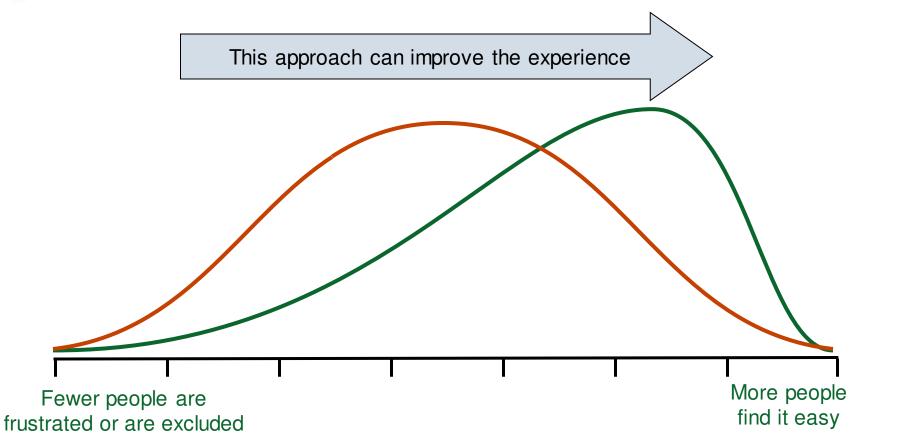
 Use of the Cambridge Exclusion Calculator to estimate the proportion of a population who cannot achieve a task step, series of task steps or a complete user journey

And that helps because?

 Quantification of the exclusion provides a summative measure by which problems can be prioritised, and the output of the tool is also diagnostic so assessing the impact of potential solutions is relatively simple







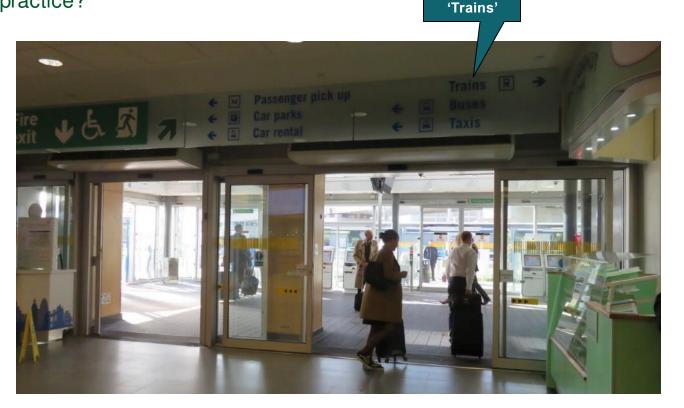




So how does this work in practice?

A very simple example:

In this scene, how exclusive is looking for and reading the signage for the Trains?







Using the Cambridge Simulation Glasses in combination with the Exclusion Calculator...

3.5% EXCLUSION FOR TASK (INCOMPLETE)



















Approaching train/carriage...

am now? Do I have to run?

What do I need to do?
Is this my train?
How long have I got to board it?
Where is my seat/carriage in relation to where I

Exclusion Estimates (2025 UK pop. figures):

Train A: >17.2% (vision, thinking & mobility)

Train B: >14.6% (vision & thinking)

Train C: >13.9% (vision & thinking)

Train D: >15% (vision & thinking)

 Walking to correct carriage and door is potentially highly exclusionary



 However provision of good information will help people manage their time and walk directly to the correct carriage





Approaching train/carriage...

Opportunities for reducing exclusion – consider improving/providing:

- Continuously visible intermediate station information
- Indication of time until doors close for boarding
- Indication of correct carriage and correct door
- Indication of reserved seats location.

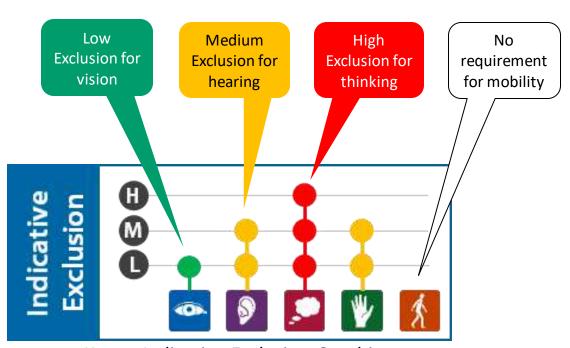








What about using this approach to make a more inclusive future passenger experience?



Lumada is Hitachi's advanced digital solutions, services, and technology banner for turning data into insights to drive digital innovation

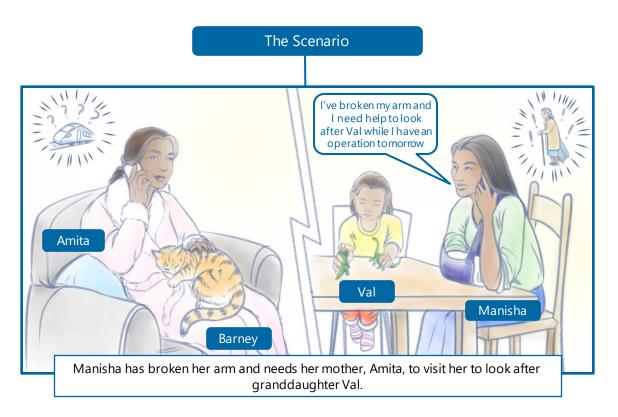


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Key to Indicative Exclusion Graphic





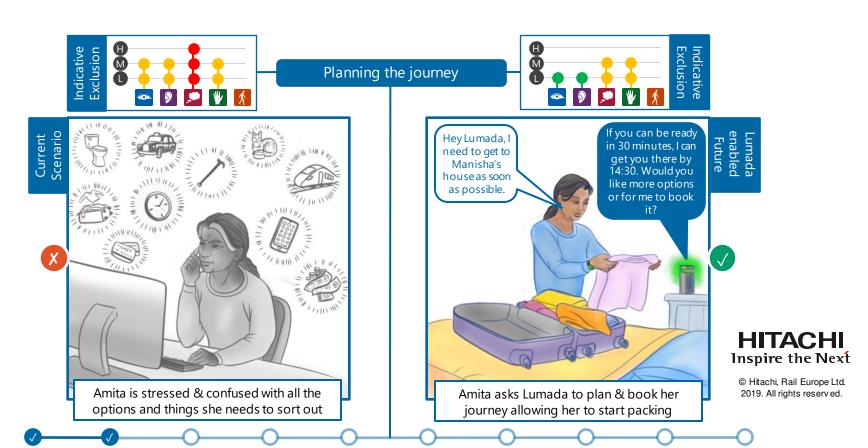


HITACHI Inspire the Next

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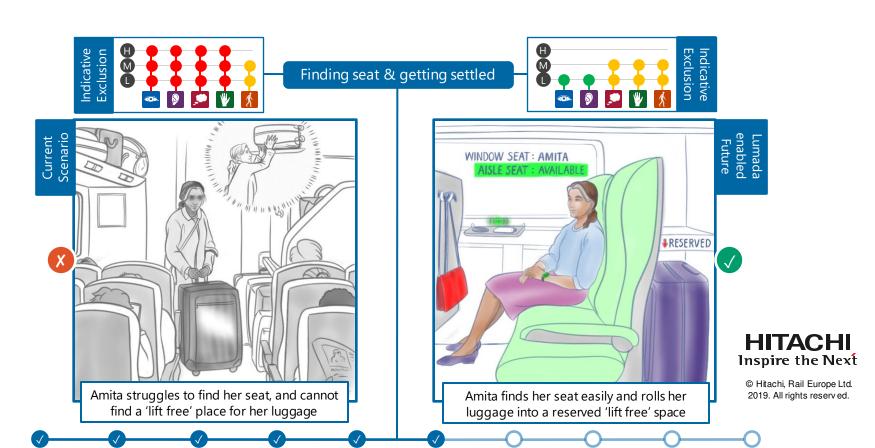
















Conclusions

- An inclusivity lens is key to customer-focus which is a major challenge for rail
- It is far more than a conventional focus on accessibility
- It can help reduce exclusion and improve experience for everyone
- It can therefore generate growth and improve capacity utilisation
- It is best applied at the design stage of a project but can still be applied later to identify exclusionary issues
- It is best applied to the whole journey rather than just high speed or just rail

THANK YOU

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NEW TRAVEL CONCEPT

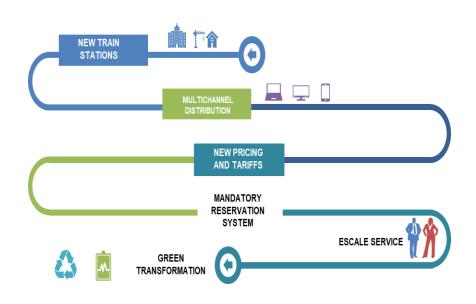






PRESENTATION OUTLINE

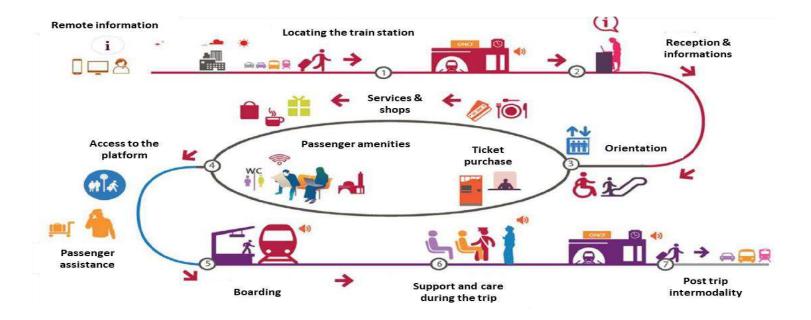
- THE PASSENGER JOURNEY
- NEW TRAVEL CONCEPT
- 1 NEW TRAIN STATIONS CONCEPT
- **2** MULTICHANNEL DISTRIBUTION
- 3 NEW PRICING AND TARIFFS
- **4** MANDATORY RESERVATION SYSTEM
- **5** ESCALE SERVICE
- ONCF GREEN TRANSFORMATION







THE PASSENGER JOURNEY



NEW TRAVEL CONCEPT 2





NEW TRAIN STATIONS CONCEPT

Train station: a living space of service and exchange



















MULTICHANNEL DISTRIBUTION

To ensure customer proximity





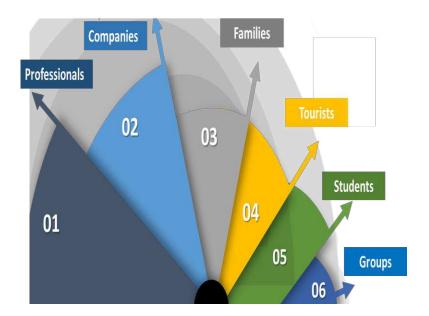






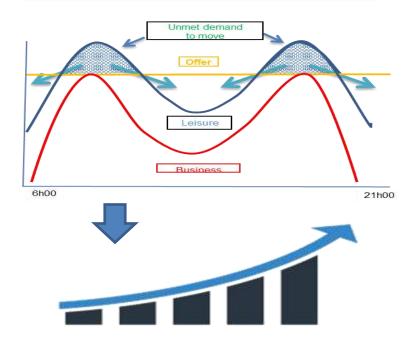
NEW PRICING AND TARIFFS

A flexible and customer focused pricing system



Dynamic pricing policy: Yield management

- TRAFIC SMOOTHING AND BETTER FILLING OF TRAINS
- OPTIMIZING THE TRAFIC AND REVENUE COUPLE
- Make the train accessible to all social classes

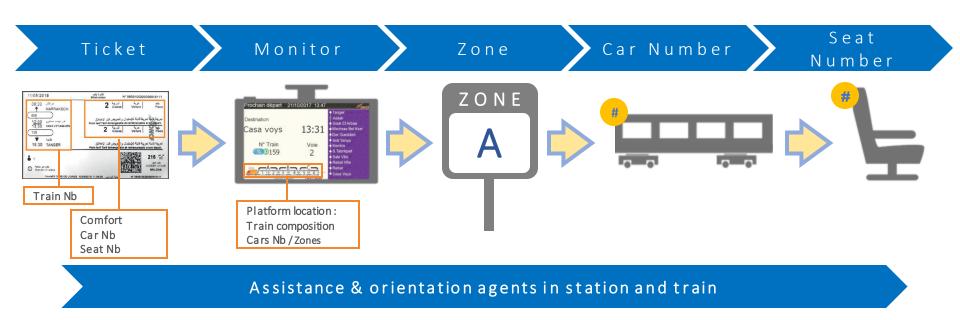






MANDATORY RESERVATION SYSTEM

A garanteed seat on board!



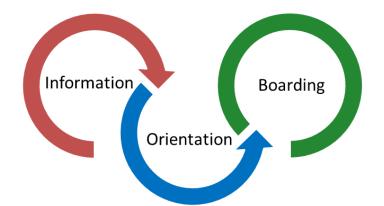
NEW TRAVEL CONCEPT 6





ESCALE SERVICE

For a smooth stay at the station, on departure and on arrival



Head of Escale

Secures the best possible coordination between the services in the station and the preparation of the trains





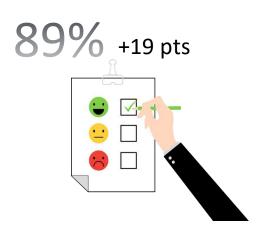
NEW TRAVEL CONCEPT 7





IMPACT OF THE NEW TRAVEL CONCEPT

CUSTUMER SATISFACTION



TRAFIC BOOST







ONCF GREEN TRANSFORMATION

AL BORAQ gone Green since january 1, 2022!



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11TH WORLD CONGRESS OF HIGH-SPEED RAIL

Marrakech, 7-10 MARCH 2023

Research and Prospect on the Architecture of China Railway Intelligent Travel Service System

Jianxiong, WANG
Technical Director, China Academy of Railway Sciences Corporation Limited, China Session3-4.3 Commercial / Service quality







China railway intelligent travel service architecture

Intelligent Ticketing Service

E-ticket

- Travel planning
- Design of products
- Precision marketing
- Ticketing organization
- Integrated traffic information sharing

Travel Extended Services

Intelligent travel service

- Hotel reservation
- * Receive and send off
- Railway tourism
- Air-rail intermodality
- Attraction tickets
- Plane ticket booking
- ❖ Catering reservation ❖ Internet car hailing

Station and Train Intelligent Service

- Accessibility service
- ❖ Intelligent service for station and train
- Passenger transport integrated production command management
- Intelligent management and monitoring of passenger transport equipment
- Passenger station safety





China railway ticketing and reservation system (12306)

China Railway Ticketing System Technology and Service Development in 28 years (1996 - 2023)

1 Headquarter (2 Data Centers)18 Regional Centers

3000+ Railway Stations



12306 Internet Ticketing Website with Dual-Active Data Centers
Nationwide Inventory Cloud Computing Center Consisted of 50+ Nodes



600M+
Registered Users

400M+ App Installation 20M + daily tickets sales

260B + Peak daily visits



30K+Ticket
Windows



30,000+ TVMs/TPMs



50,000+ Gates



110,000
Telephone Booking
Access Lines





Intelligent ticketing system with ticket sales as the core



- Travel Planning
- Inquire & Reservation / Continuous Transfer / Counting and Fixed Ticket
- Railway All-in-one Card
- ❖ Air-Rail / Rail-Sea
- Car Hailing / Bus Ticket



- Innovative Services
- E-Ticket
- Waitlist Function
- Insurance
- Adaptive Aging and Accessibility Service, etc.



- Flexible Time
- Flexible Adjustment of Pre-Sale Period
- Consistent Pre-Sale Period
- 24-Hour Service
- Differentiated Ticketing Time







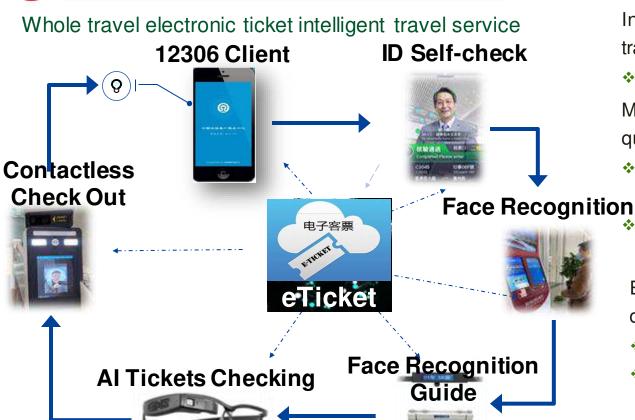




- Integration
- Offline: Ticket Counter, TVMs/TPMs, ATM-TVMs
- Online: Internet / Smart Phones, Telephone
- Convenient Change
- Refund / Rebooking / Destination Rebook
- Downgrade / Region Suspension / Turn-Back Refund
- Overdue Rescheduling / Credits Exchange
- ❖ COVID-19 Full Refund
- Multiple Payment
- Cash
- ❖ Bank Card / International Bank Card
- Third Party Payment
- Railway Expresspay







Intellectualization improves passenger transport efficiency

- ❖ Gate check-in speed: 3.8 s/ppl → 1.3s/ppl Management integration, improve the quality of service
- Online & offline refund, convenience for passengers, reduce station pressure
- Reduce the process of picking up tickets, save passengers' time

Eco-travel without paper tickets, decrease operating costs

- Cost saving: 660M/year
- Save a lot of equipment procurement, maintenance, management and labor costs





One-stop railway travel extension service system

- online hotel booking
- * railway tourism
- scenic spot tickets
- catering reservation
- shuttle service

- air and rail intermodal
- air ticket booking
- car-hailing booking
- business lounges
- exclusive VIP channels
- station and bus catering services

The 12306 connects and prospers the cities along the route with the modern intelligent railway service of "Internet plus travel," helps the recovery of the tourism industry in the post-COVID-19 era, and creates a one-stop ecological circle of railway travel services of "food, accommodation, travel, tourism, shopping, and entertainment."



Station Shop: 500+

Train Service: D-series High-Speed train 3000+, Ordinary Train 10000+





Intelligent passenger station service

In-and-out service







Intelligent inquiry machine



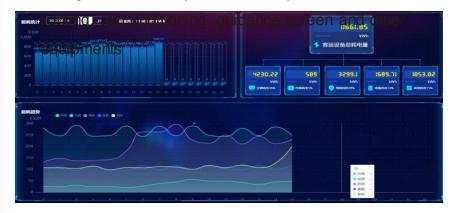




■ Equipment green energy saving



Intelligent control of power consumption of station



Power consumption management

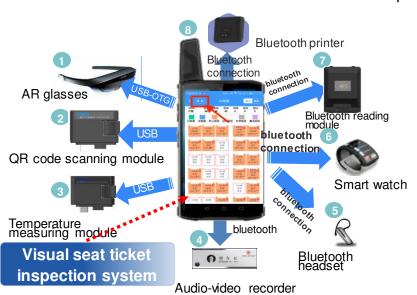
Inquiry robot





Intelligent service of station and train integration

The invention of the "individual soldier" operating system



"Individual Soldier" Operating System Composition Scheme



Headset

Voice transmission and voice control

Audio-video recorder

Inspection record

Smart watch

 Information reminder, voice transmission and health monitoring

Passenger transport mobile operation terminal

 Passenger transport mobile operation, intercom, train ticket and GSM-R communication

Reduce the number and weight of equipment, improve the efficiency and intelligence of passenger crew

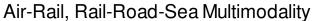


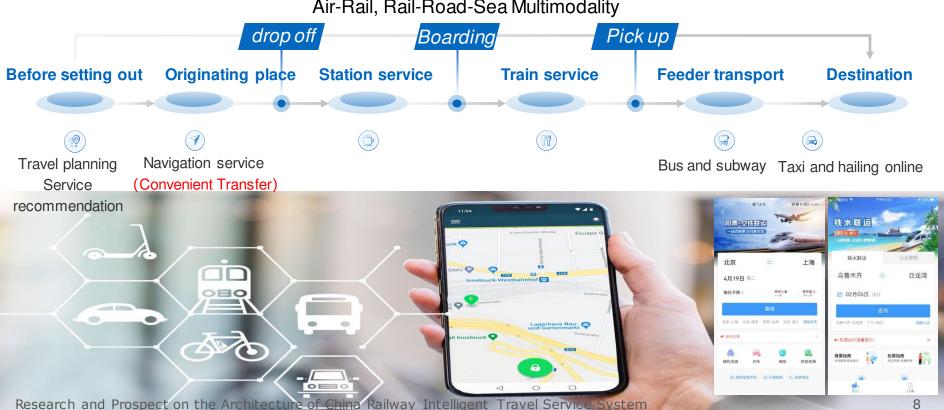


Passenger intermodal service



Technical requirements for interoperability of integrated transportation electronic ticket information system (JT/T 1310-2020)

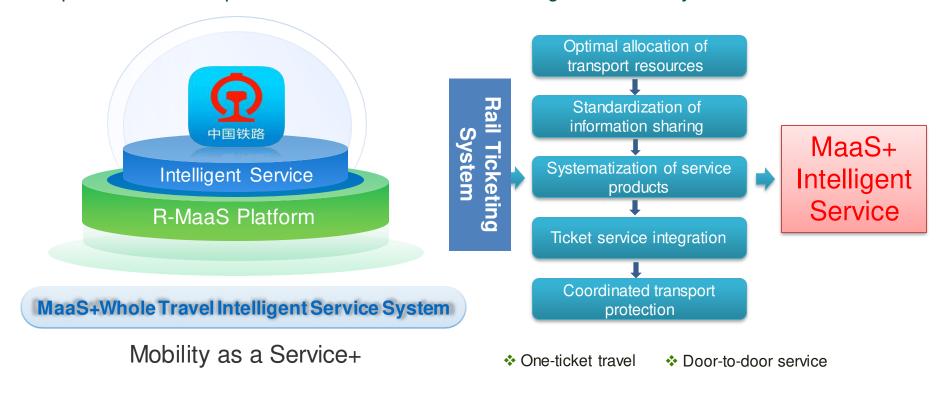








Prospects1: More ubiquitous - MaaS+ whole travel intelligent service system

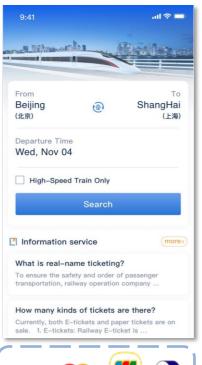






Prospects 2: More intelligent, more international





- During the 2022 Winter Olympic Games in Beijing, we upgraded our ticketing system internationally and intelligently, successfully serving the needs of passengers from all over the world, and made a series of progress in cross-border railway and connectivity.
- * With the support of 5G, blockchain, artificial intelligence, and other new technologies, and the direction of ticket sales to ticket services, we are building a comprehensive ticket service platform with available capabilities, resource sharing, safety, and efficiency, and realizing a passenger service system featuring intelligent passenger service, digitalized business management, intelligent revenue management, and integrated travel.
- ❖ In the future, we plan to fully integrate with the international railway industry and conduct more research and cooperation in e-ticket standards, international ticketing, international combined transport, and intelligent technology.



nternational



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THANK YOU

Jianxiong, WANG
Technical Director, China Academy of Railway Sciences Corporation Limited, China Email: wjx304@163.com



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11TH WORLD CONGRESS OF HIGH-SPEED RAIL

Marrakech, 7-10 MARCH 2023

CUSTOMER ENGAGEMENT STRATEGY IN THE DIGITAL TRANSFORMATION OF CLIENT SERVICES

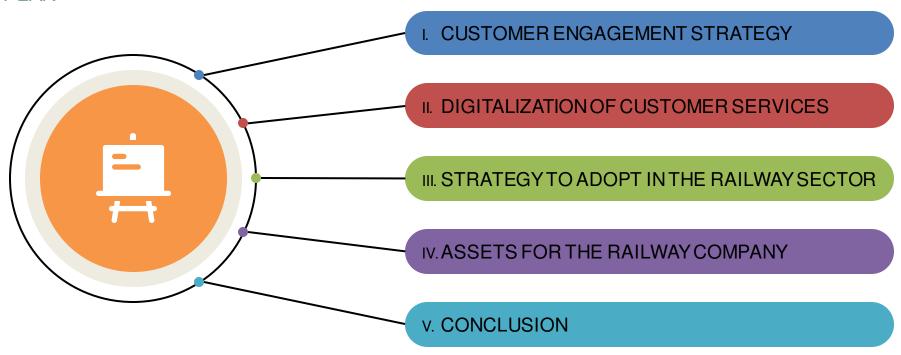
HAMZA, OURABAH Head of Passenger IT systems, ONCF, MOROCCO Session3-4.3 Commercial / Service quality







PLAN







I. CUSTOMER ENGAGEMENT STRATEGY

Definition

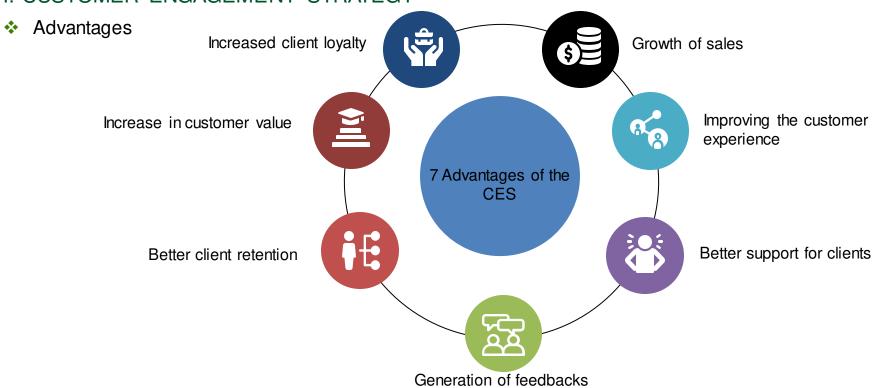
- ❖ A customer engagement strategy draws attention to :
 - The quality of the customer experience;
 - Customization of the offer;
 - Creating emotional connection with the brand.
- To implement an effective customer engagement strategy, it is essential to :
 - Understand customer needs and expectations;
 - o Collect (anonymously) data on customer behavior on enterprise platforms;
 - Conduct satisfaction surveys or organize focus groups with customers.







I. CUSTOMER ENGAGEMENT STRATEGY

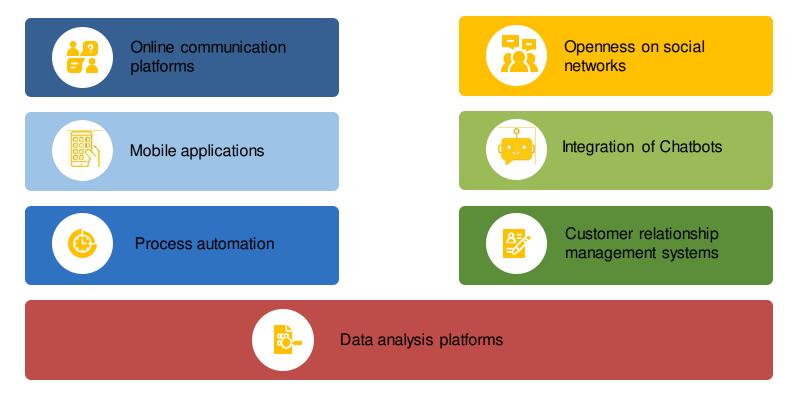


and customer reviews





II. DIGITALIZATION OF CUSTOMER SERVICES

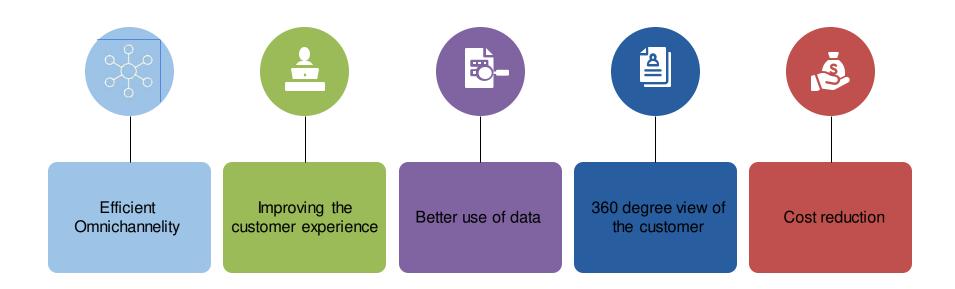






II. DIGITALIZATION OF CUSTOMER SERVICES

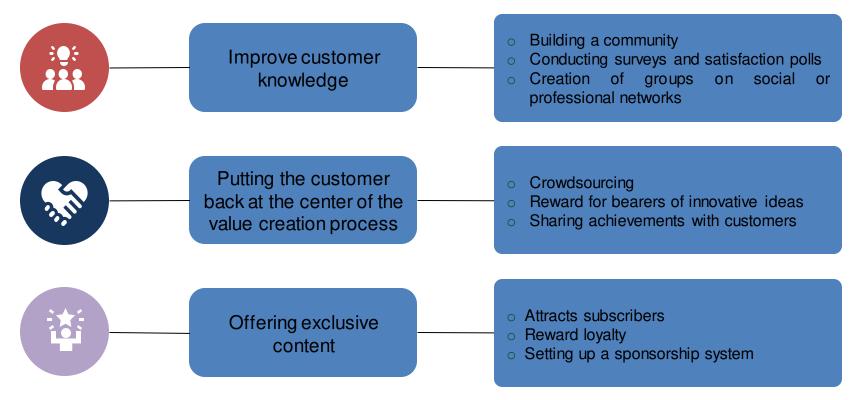
Benefits







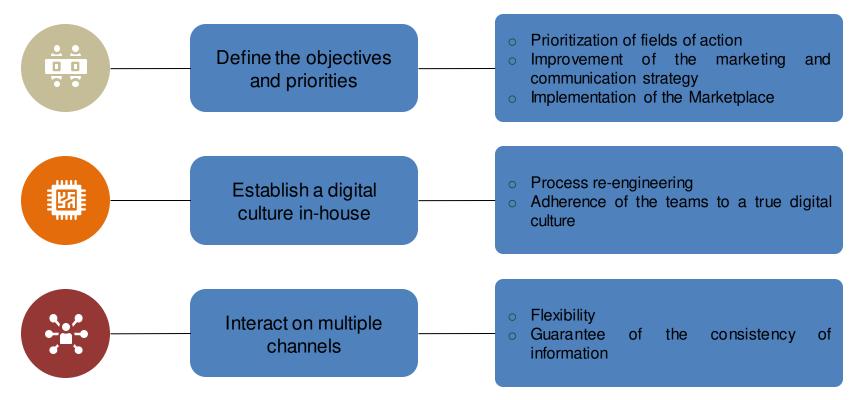
III. STRATEGY TO ADOPT IN THE RAILWAY SECTOR







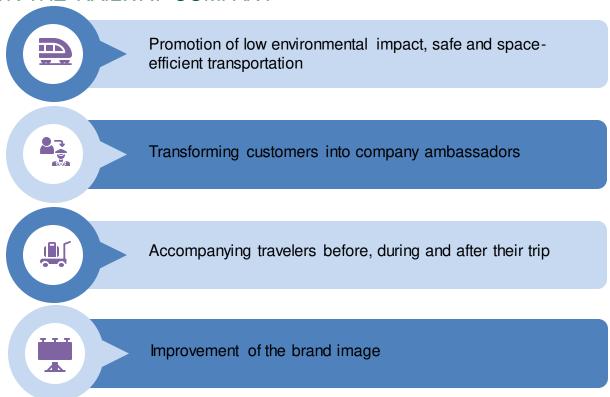
III. STRATEGY TO ADOPT IN THE RAILWAY SECTOR







IV. ASSETS FOR THE RAILWAY COMPANY







IV. ASSETS FOR THE RAILWAY COMPANY







V. CONCLUSION





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THANK YOU

HAMZA, OURABAH Head of Passenger IT systems, ONCF, MOROCCO Ourabah.hamza@oncf.ma





11THWORLD CONGRESS OF HIGH-SPEED RAIL

Marrakech, 7-10 MARCH 2023

ONCF SERVICES to facilitate and enrich the customer experience

Nacéra, BECHARI ONCF, MOROCCO Session3-4.3 Commercial / Service quality







SUMMARY

- 1 REMOTE INFORMATION
- 2 DOOR TO DOOR INTERMODALITY
- 3 AL BORAQ LOUNGES IN STATIONS
- 4. CATERING ON BOARD

- 5 ONLINE AFTER SALES SERVICES
- 6 PRM SERVICES
- PACKAGE OFFERS





REMOTE INFORMATION



ONCF TRAFIC APPLICATION

Your train in real time!

This application provides real-time useful information to better plan your train journeys

- Locate the stations closest to you
- Check train schedules
- Stay informed in real time on the state of traffic
- Easy access and useful information about your trip

CHATBOT « M'ONCF »:



- Equipped with artificial intelligence, which answers your questions in writing instantly to make your daily trip easier.
- available at any time.
- respond instantly to messages to get all the information possible about trips
- Understands different languages Classical Arabic, Darija, French, English, written and Vocal messages.





REMOTE INFORMATION

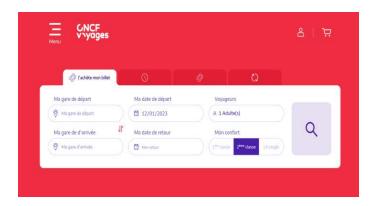
CUSTOMER RELATIONSHIP CENTER



Operational 7 days a week and 24 hours a day, our customer relations center is accessible from any point in Morocco by a single easy-to-remember number 22-55.

this center goes further than timetable information by offering services that are today intimately linked to travel: traffic situation, travel prices, suggestions, complaints, etc.

E-COM WEBSITE/ ONCF-Voyages:



Oncf-voyages is the online sales site of ONCF, it allows you to consult timetables, buy train tickets, find the latest offers and manage reservations, in particular exchange or cancel travel tickets.





DOOR TO DOOR INTERMODALITY

«TRAIN+AUTO » Service:

This available service is part of ONCF's strategy to develop complementary services to the train, with high added value to offer its customers a range of services to improve their mobility.







Customers can benefit from accessible prices with exclusive preferential rates and adaptability thanks to the variations of car rental service formulas with or without driver, which adapt to the different customer segments to cover their needs.

Travelers can benefit from a simplified customer journey from booking the "Train + Auto" service online to picking up/returning the vehicle in dedicated car parks at the station.





Al Boraq lounges in stations

The new GV stations are designed to improve the journey of travelers as soon as they arrive at the station

The Al Boraq Travelers Lounge at the station is a premium space, conducive to relaxation, accessible to all our 1st class customers;

Vous voyagez en première classe? change de billets

The services offered free in the Al Boraq travelers lounge:

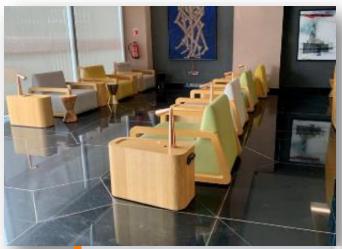
- A comfortable space;
- > Free wifi access in the lounge;
- Sockets to be able to recharge mobile terminals;
- A TV screen broadcasting information on our offers and our news;
- Monitors relaying information related to train departures and arrivals.

And self-service:

- Water bottles
- A large selection of hot and cold drinks.

Exchange:

The possibility of exchanging tickets in the Al Boraq lounge, a premium service reserved exclusively for Al Boraq 1st class passengers









Several events organised to introduce

travellers to new flavours

Chhiwat Mama

dégustation continue

NOUVELLE

CARTE

HIVFR 2022

embre à la gare de Tanger

avec cheffe Khadiia

Catering on board

The "Chhiwat Mama" menu is fully in line with current food trends:

The "Chhiwat mama" menu follows the rhythm of the seasons and offers tasty products for a gourmet and healthy cuisine. It concerns a varied offers with gourmet recipes in Moroccan flavors, freshly prepared every day and according to the seasons.



RECIPES CREATED BY CHEF KHADIJA







ONLINE AFTER SALES SERVICES

ONCF-VOYAGES.MA



cancelation /refund:

Unused or partially used tickets can be refunded if their validity indicated therein has not expired, according to the general conditions of after-sales service.

Exchange:

Customers can exchange tickets purchased on the Oncf-voyages.ma website (tickets to be collected at the station, e-tickets) or by going to the station, according to the general conditions of the after-sales service.

ONLINE CLAIM PLATFORM ONCF2255.MA



ONCF also provides a reclamation platform online on "oncf2255.ma".

6





PACKAGE OFFERS







several partnerships with tourism and cultural players to enrich the customer experience at attractive prices

Al Borag Nautico

Offering Several choices of activities wich are available to make a stay in tangier the pearl of the north an unforgettable moment

Train'Art:

offering access to museums at attractive prices





PRM services

The new high-speed stations are designed and adapted to the specific needs of people with reduced mobility.

In order to bring the facilities, tracks and platforms into conformity, various equipment intended to improve accessibility has been installed:

In stations: Adapted reception and sales areas, toilets for people with reduced mobility in the station, dedicated parking spaces and accessibility convenience (access ramps, lifts, wheelchairs,

On the platform: Adapted circuits, uneven passages, raised platforms and PAV lifts for hire.

On board: Dedicated travel space and toilets adapted to PRMs and possibility of traveling in 1st class at the price of 2nd class.

ONCF also offers a service allowing the necessary adaptation to the different needs of PRM customers free of charge by contacting the ONCF Customer Relations Center at 2255











THANK YOU!

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SEATS ALLOCATION OPTIMIZATION FOR HIGHSPEED TRAIN SERVICES

Valentina Pozzoli Project Manager, SNCF Technologies, Innovation and Group projects Direction Session3-4.3 Commercial / Service quality







CONTEXT

High speed train services in France

- Growing in terms of infrastructure, services and passengers
- SNCF is the main operator (InOui, OuiGo)
- New competitors appearing since market was open to competition (2020)

OuiGo

- Low-cost high-speed service launched in 2013
- Operating model revolving around optimizing costs and maintaining a high occupancy rate







SEAT ALLOCATION FOR OUIGO

- Automatic assignation of seats to passengers (unless a paid seat selection option is chosen)
- Communication of the seat number 4 days prior to the train departure, as opposed to at the moment of reservation

Seat allocation can have an impact on the quality of the train occupancy:

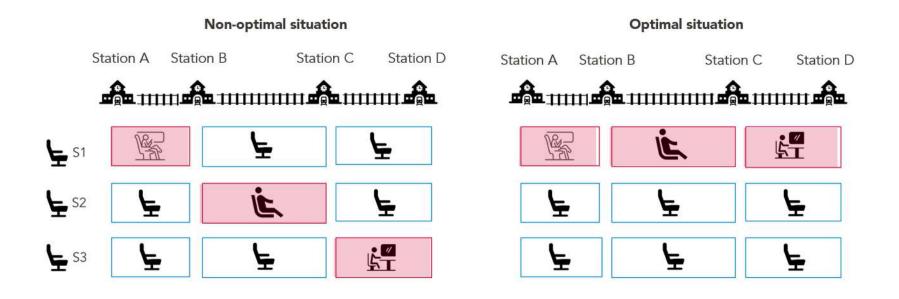
- Sales performances
- Clients' satisfaction
- Operational preferences







MAIN PRINCIPLE







GOAL: OPTIMIZE PASSENGERS' ALLOCATIONS

Allocate passengers simultaneously, right before the communication of the seat number, to optimize



Occupancy

Free seats that could be sold before the train departure



Proximity

- Placement of people travelling together
- Focus on families with young children



Homogeneity

- Homogeneity of the occupancy rate of each coach
- Important for passengers' comfort and equal use of train equipment



Exchange

- Homogeneity of passengers getting on and off for each coach
- Important to respect train stopping time



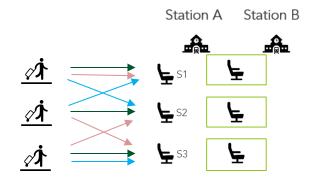


MODEL

- Optimization algorithm modeled as an integer linear problema
- Objective function is a weighted sum of the optimization criteria:
 - More enphasis on occupancy for full trains
 - Enphasis on Passenger's comfort for less full trains

	3 seats 3 passengers	10 seats 10 passengers	450 seats 450 passengers	1 train
# possibilités	6	3M	~10 ¹⁰⁰⁰	

· 10 ¹⁵³³







TESTS AND RESULTS

- Tests on historical data
- Comparison between optimized and historical allocation

Average improvement per train









	Occupancy	Proximity	Homogeneity	Exchange
Full trains	+7,6%	+84%	+53%	+59%
Other trains	+0,1%	+95%	+73%	+81%

No separation for passengers travelling together





CONCLUSIONS AND PERSPECTIVE

- Significant improvement of the quality of train occupancy by simultaneously allocating passengers right before the communication of the seat number, via an optimization algorithm
 - Increase of sales performances
 - Increase of customers' satisfaction
- Easy to add new criterion, change parameters, or use algorithm for tests
- Operational implementation of the algorithm foreseen in 2023/2024
- Challenges
 - Computation time
 - Reservations/modifications during the computation time

HIGH-SPEED RAIL: THE RIGHT SPEED FOR OUR PLANET Under the High Patronage of his Majesty King Mohammed VI

THANK YOU

