

Eurailspeed

Parallel Session D.4

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KYUSHUSHINKANSEN TSUBAME 800

PRODUCED BY KYUSHU RAILWAY COMPANY SINCE 2004
FROM SHIN-YATSUSHIRO TO KAGOSHIMA-CHŪ



つばめ



九州新幹線800系

800 Series **TSUBAME**



Kyushu Shinkansen



North section

(Hakata ~ Shin-Yatsushiro: 130km)

Under construction

(To be completed around 2013)

South section

(Shin-Yatsushiro ~ Kagoshima-Chuo: 127km)

Service began in March 2004

Rolling Stock Specifications



Number of cars	36 (6 cars × 6 trains)
Designed max. speed	290km/h
Capacity	392 people
ATC system	New ATC
Restrooms	7 (including 3 men's restrooms)
Vending machines	1 per train
Public telephones	2 per train
Others	<ul style="list-style-type: none">- Accommodates steep angle, 35/1000- Fully electric motor car- Mono class

Design Concept



- 1) Presentation of Japan and Kyushu in a polished manner
- 2) Integration of advanced Shinkansen technologies and traditional materials and craftsmanship
- 3) Production of an accessible, user-friendly space

Exterior

- Illustrating pride and passion of Kyushu
 - ? Red and gold stripes
- Traditional Japanese aesthetics
 - ? “Tsubame” logo in brush calligraphy
- Colour scheme associated with quality
 - ? Solid white body and lacquer-black roof



Design Concept



Interior

- Elegant and relaxing space? Bright interior and wooden seating
- Japanese tradition? Seating featuring technology and ancient motifs of *Nishijin* textile
- Natural colours and light? Cherrywood blinds
- Kyushu materials? Cherry from Kumamoto and Kagoshima and *igusa* rush from Yatsushiro



New ATC

- New train control device -

Disadvantage of existing ATC

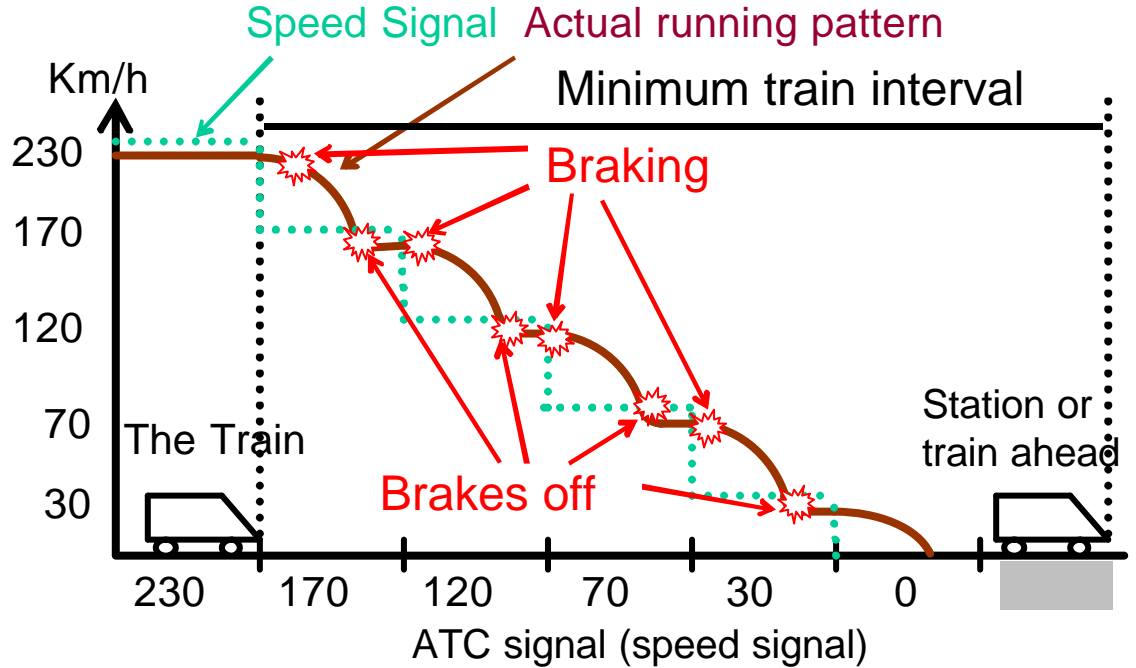
- Early braking causes time loss
- Frequent braking deteriorates riding comfort



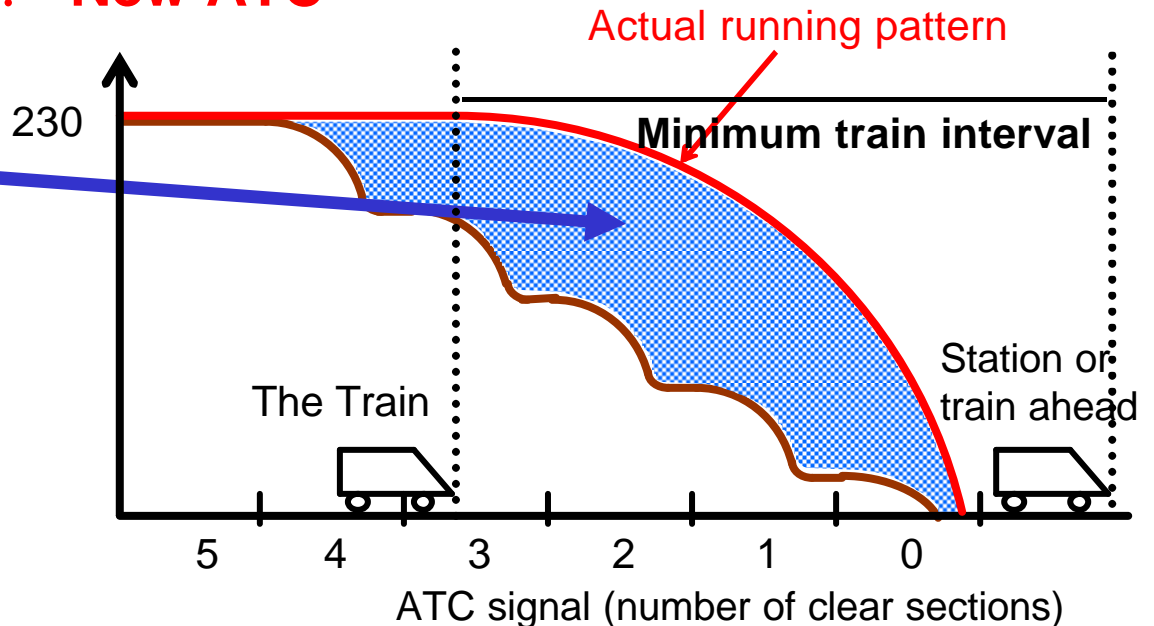
Appropriate Braking Control

- ? Reduce travel time
- ? Improve riding comfort
- ? Increase the number of trains operated

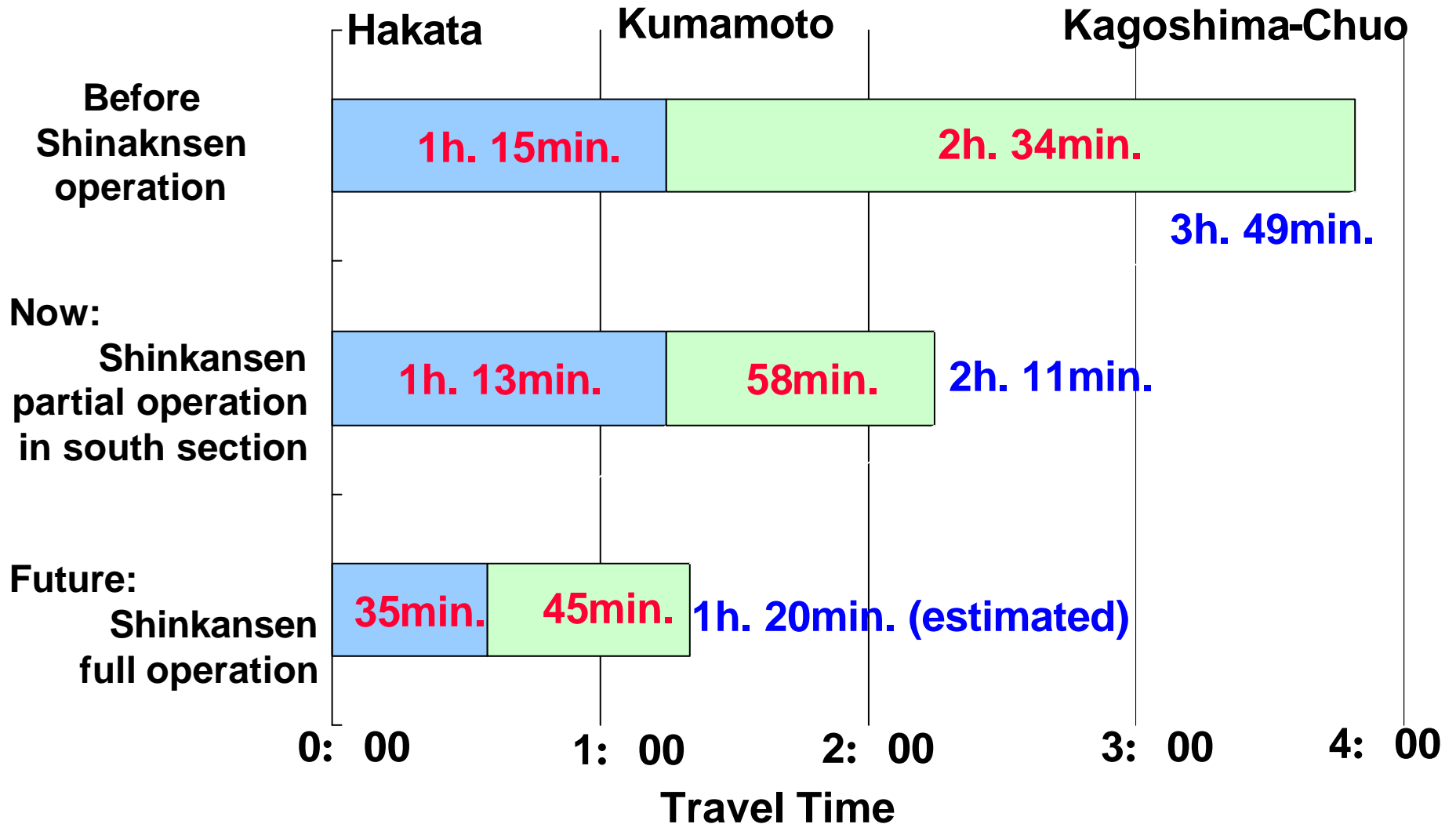
? Existing ATC (Sanyo Shinkansen, etc.)



? New ATC



Reduction of Travel Time



Frontal View of Tsubame

