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COMPASS 2008

PROJECT OVERVIEW

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What is Compass 2008?



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- **COMPASS 2008** - **Comprehensive Public Information Services System** for the Olympic Games **2008** in Beijing
- A Sino-German High-Tech Olympic Project

The Consortium



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- German Research Center for Artificial Intelligence GmbH
- CAPINFO Company Limited
- T-Systems International GmbH (TSI)
- Fraunhofer Institute for Software and Systems Engineering (ISST)
- The Institute of Computing Technology (ICT), Chinese Academy of Sciences



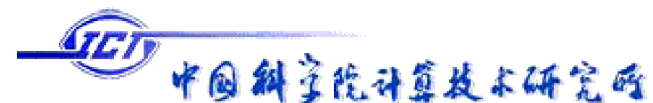
German Research
Center for Artificial
Intelligence GmbH



Deutsche
Telekom



Fraunhofer
Institut
Software- und
Systemtechnik



Motivation: Situation in Beijing 2008



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- Quote from the Action Plan for the Beijing Olympic Games created by the Beijing Municipal Government and the Beijing Organizing Committee of the Olympic Games (BOCOG):

“...to ensure that anybody at anytime and in any place can enjoy the information service that is affordable, comprehensive, personalized and multilingual...”

- Extract from Beijing Travel Tips:

“If you are going to take a taxi, get someone to write down the address of your destination in Chinese”

Impressions



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If you need, please show this to Taxi Driver.
The sentence says "please go to KKR Hotel Tokyo (Takebashi Kaikan)" in Japanese.

KKRホテル東京(旧 竹橋会館)へ行ってください。

KKRホテル東京
〒100-0004 東京都千代田区大手町1-4-1
国家公務員共済組合連合会 東京共済会館
Tel: 03-3287-2921(代) Fax: 03-3287-2913

KKR Hotel Tokyo
1-4-1 Otomachi, Chiyoda-ku,
Tokyo 100-0004, JAPAN
phone: 03-3287-2921
fax: 03-3287-2913



Hotel card with address
in Kanji signs

Bargaining with
calculator

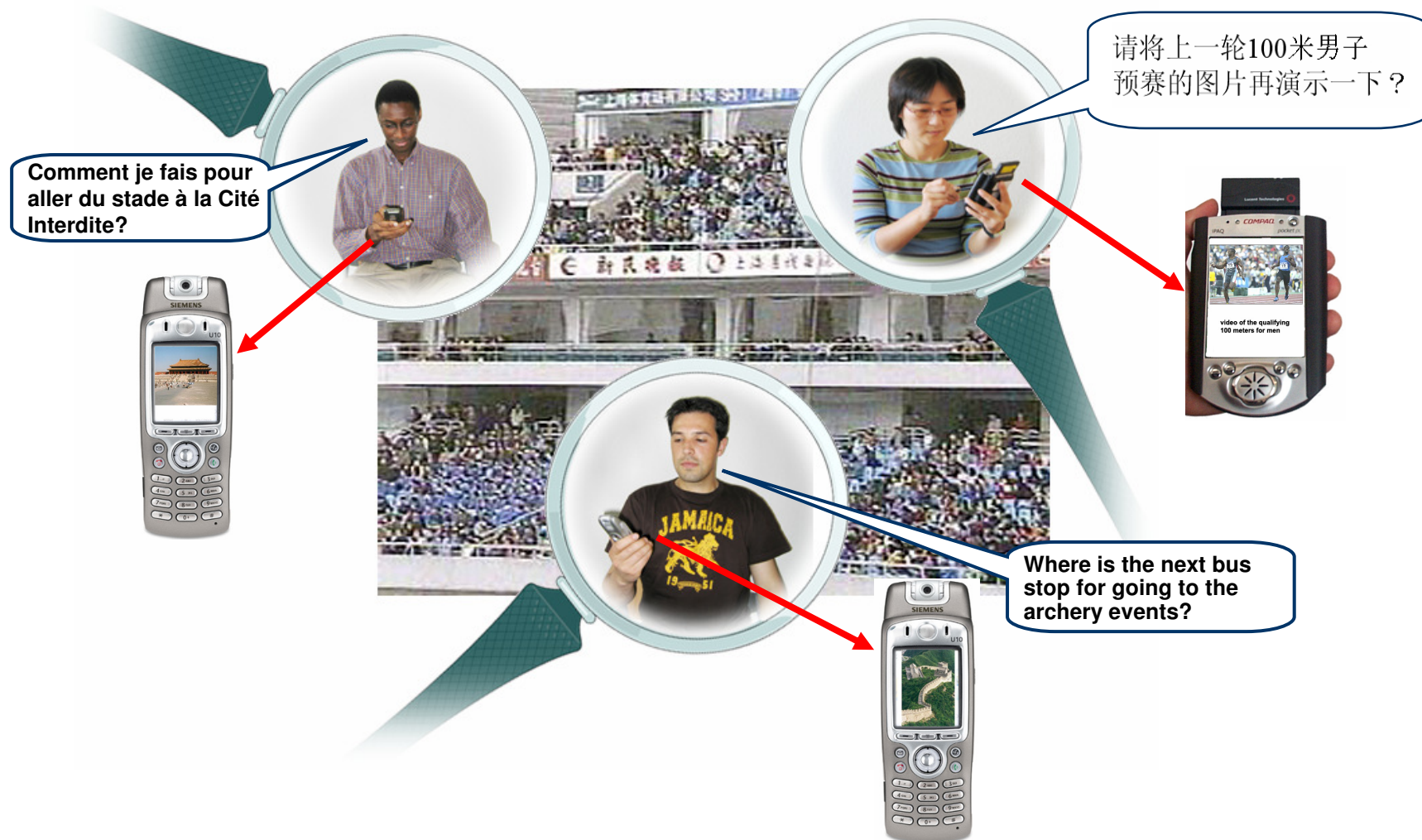


- Simple phrasebooks, calculator, paper based information is not really acceptable.
- Language Technology can do better:
 - Machine translation
 - Speech recognition and synthesis
 - Modern Handhelds (Handy, Smartphone, ...)

Multilingual Mobile Multimodal Info Services



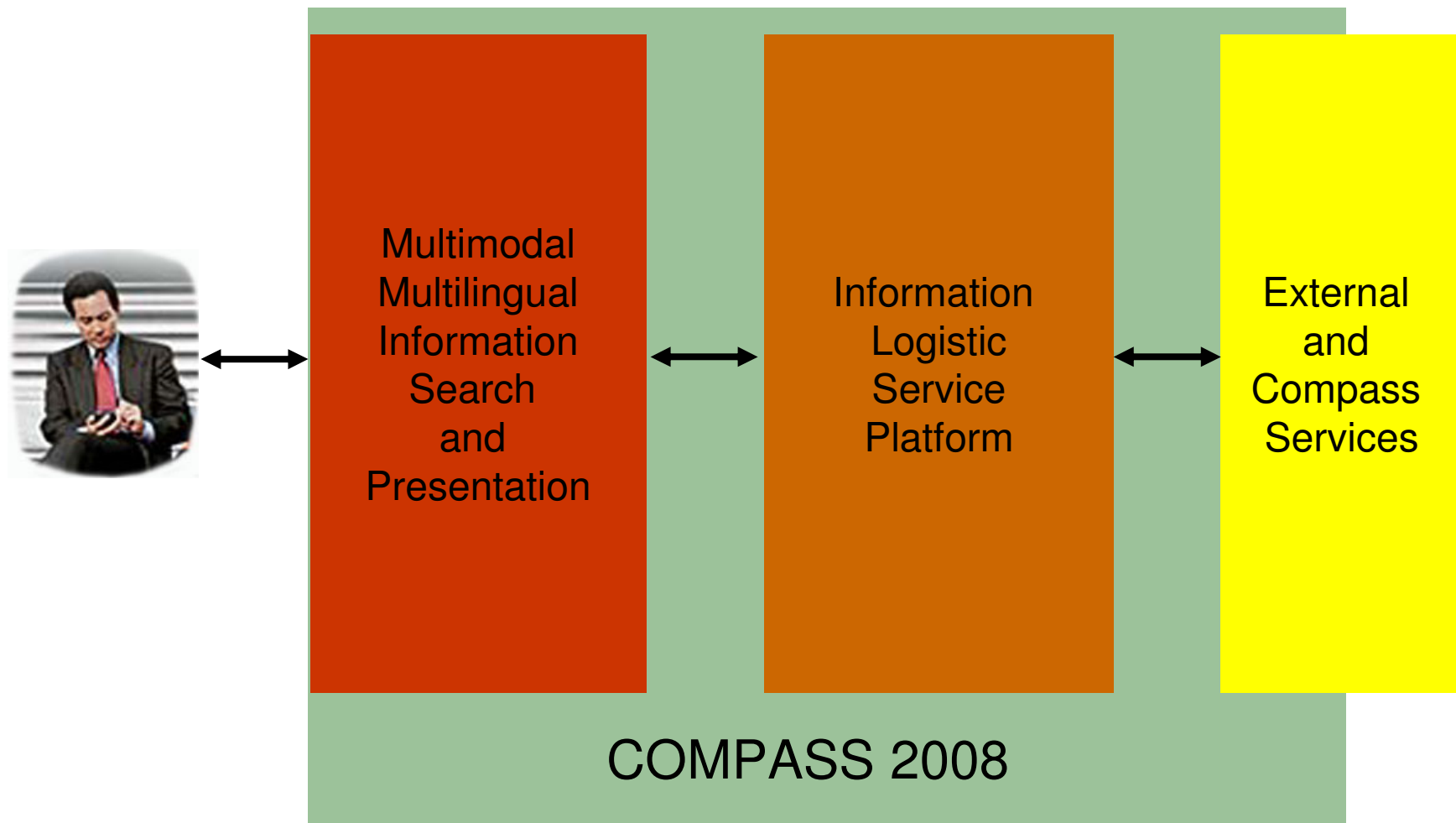
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COMPASS Information Service Framework



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Information Services & Dialog Assistants



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- Information Services
 - Smart Dining Assistance
 - City Navigation
 - Event Information
 - Weather Service
 - Tourism Information
 - Olympic News Service
- Dialog Assistants
 - Dining Dialog Assistance
 - Taxi Dialogue Assistance
 - Emergency Help
 - Shopping Assistance
 - Translation Services





- Finding restaurant, food and drinks

Multimodal and Multilingual search-queries

- Communication with restaurant staff

Speech output

Translation





- Situation-based dialogue structure

Before Transportation

After Transportation

- Phrasebook-based input

Please bring me to ____?

How much does it cost?

How much time will it take?

