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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



**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 Otemachi, Chiyoda-ku,  
Tokyo 100-0004, JAPAN  
phone: 03-3287-2921  
fax: 03-3287-2913



Hotel card with address  
in Kanji signs

Bargaining with  
calculator

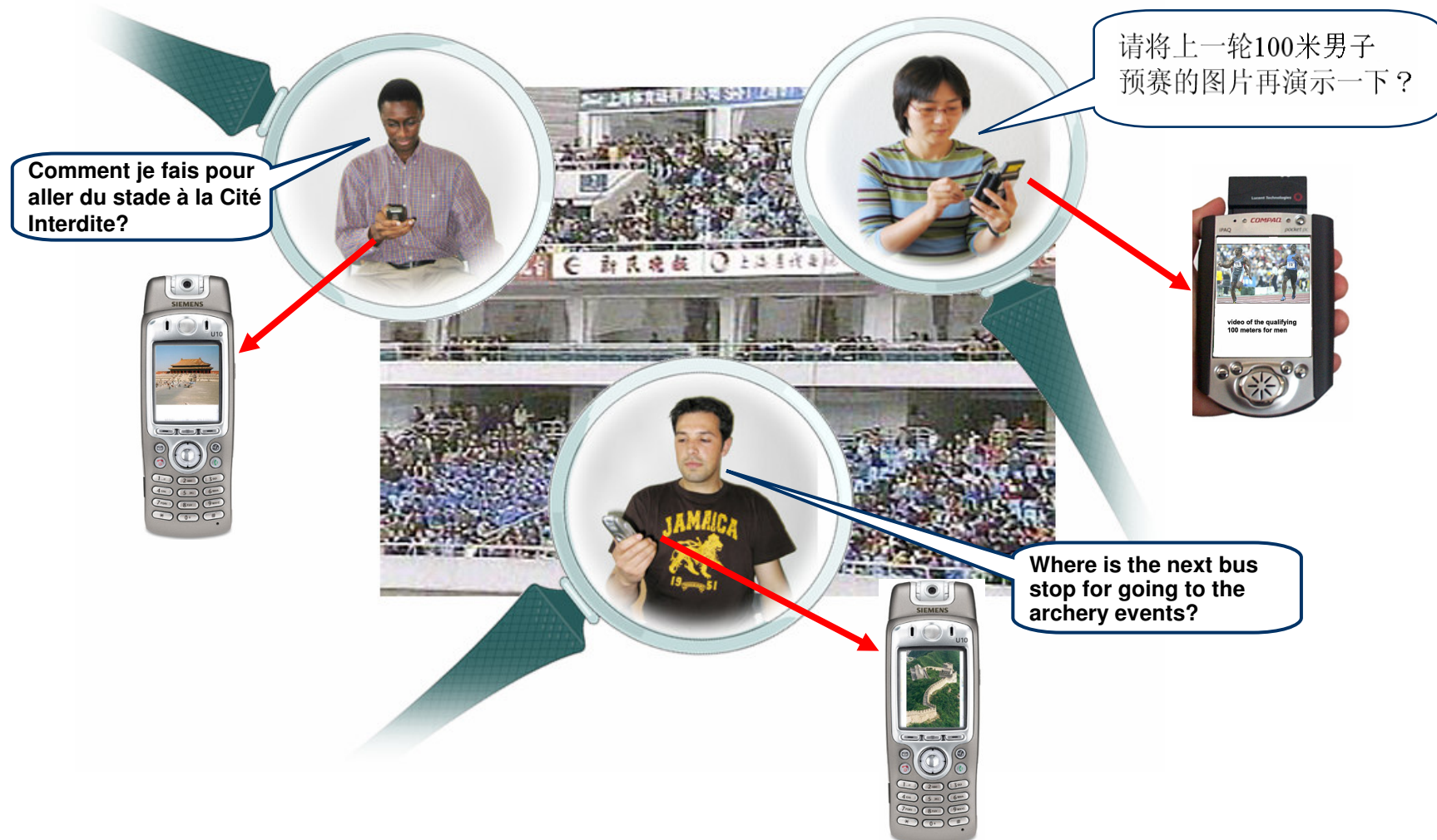


- Simple phrasebooks, calculator, paper based information is not really acceptable.
- Language Technology can do better:
  - Machine translation
  - Speech recognition and synthesis
  - Modern Handhelds (Handy, Smartphone, ...)

# Multilingual Mobile Multimodal Info Services



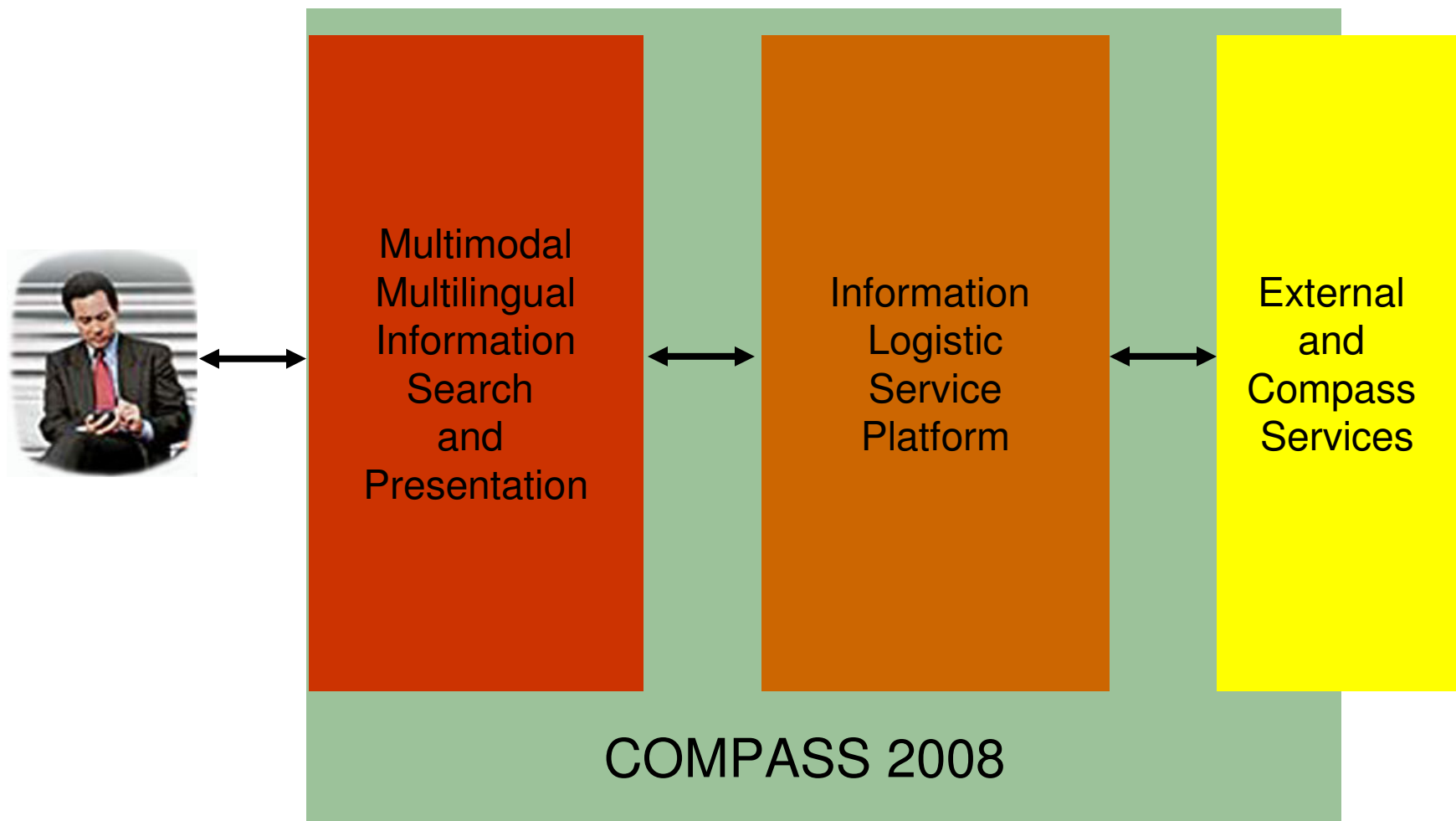
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# COMPASS Information Service Framework



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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?*

