COMPASS 2008

PROJECT OVERVIEW

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What is Compass 2008?

- **COMPASS 2008** - **Com**prehensive **P**ublic **I**nform**a**tion **S**ervices **S**ystem for the Olympic Games **2008** in Beijing

- A Sino-German High-Tech Olympic Project

The Consortium

- 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
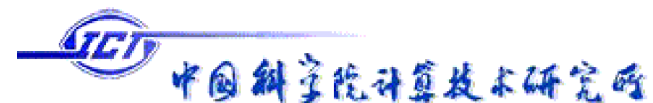
Motivation: Situation in Beijing 2008

- 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"

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

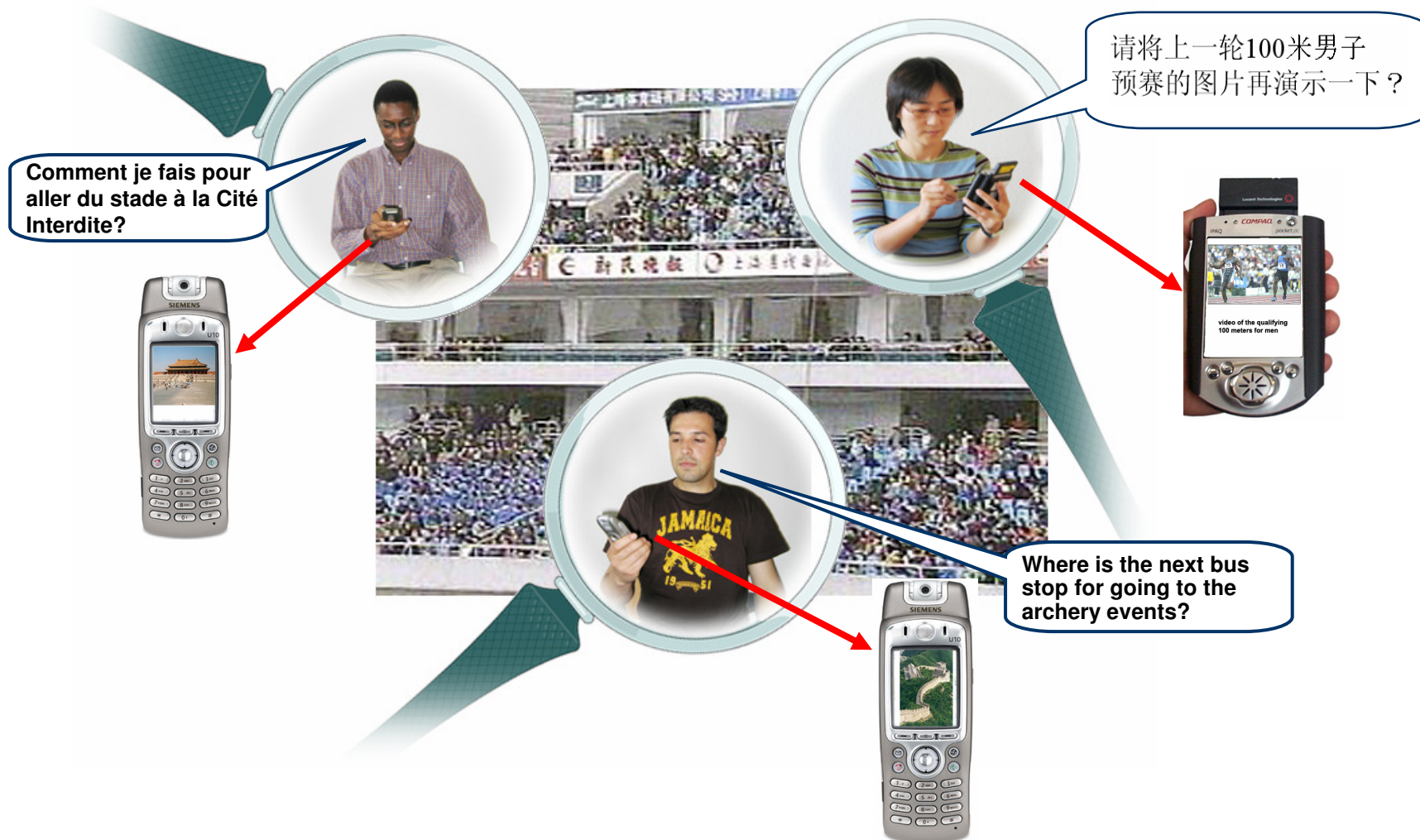## Hotel card with address in Kanji signs

Bargaining with calculator
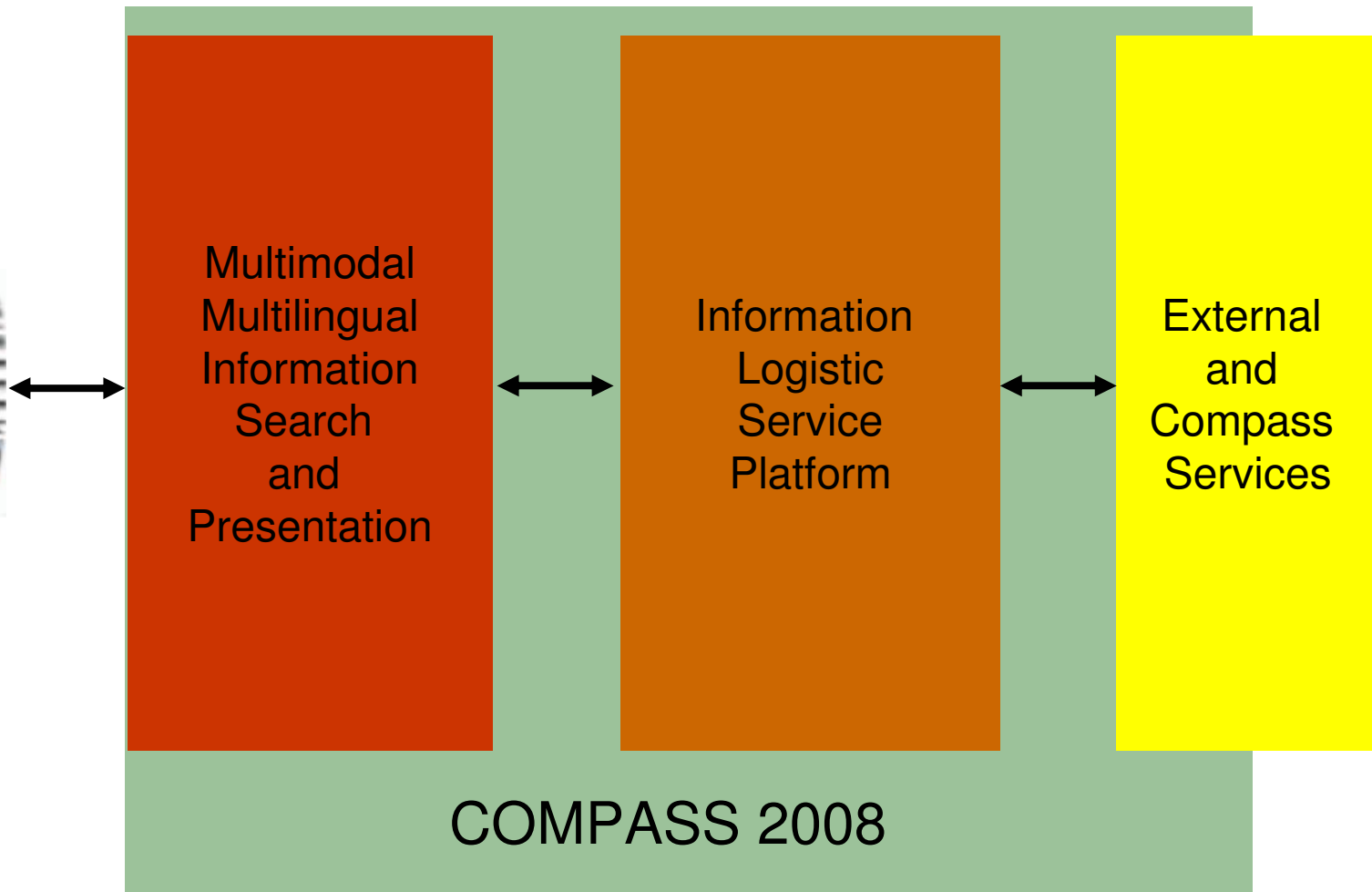
Improvements

- 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

COMPASS Information Service Framework

Multimodal Multilingual Information Search and Presentation ↔ Information Logistic Service Platform ↔ External and Compass Services

COMPASS 2008

Information Services & Dialog Assistants

- 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

COMPASS Smart Dining Assistant

- ## Finding restaurant, food and drinks

  Multimodal and Multilingual search-queries

- ## Communication with restaurant staff

  Speech output

  Translation

COMPASS Taxi Dialog Assistant

- ## 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?