

## How ICT Helps Seniors to Create Networks and Share Knowledge in Ageing Society

26 April, 2008

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### 1. Introduction

#### Goal

To explain which ICT is suitable for each part of process of seniors' participation in society

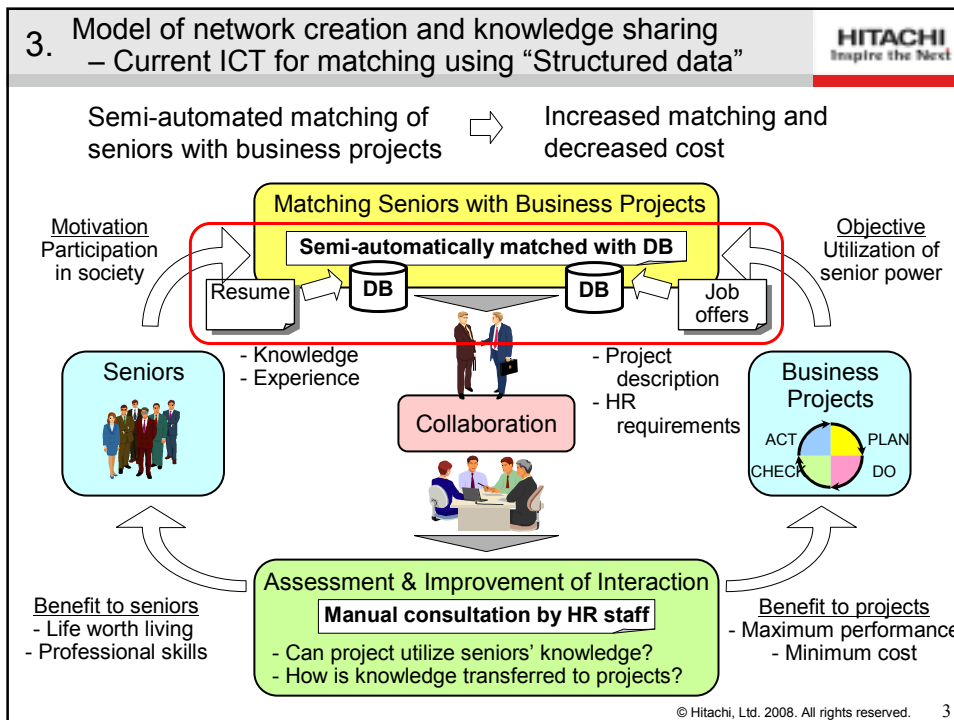
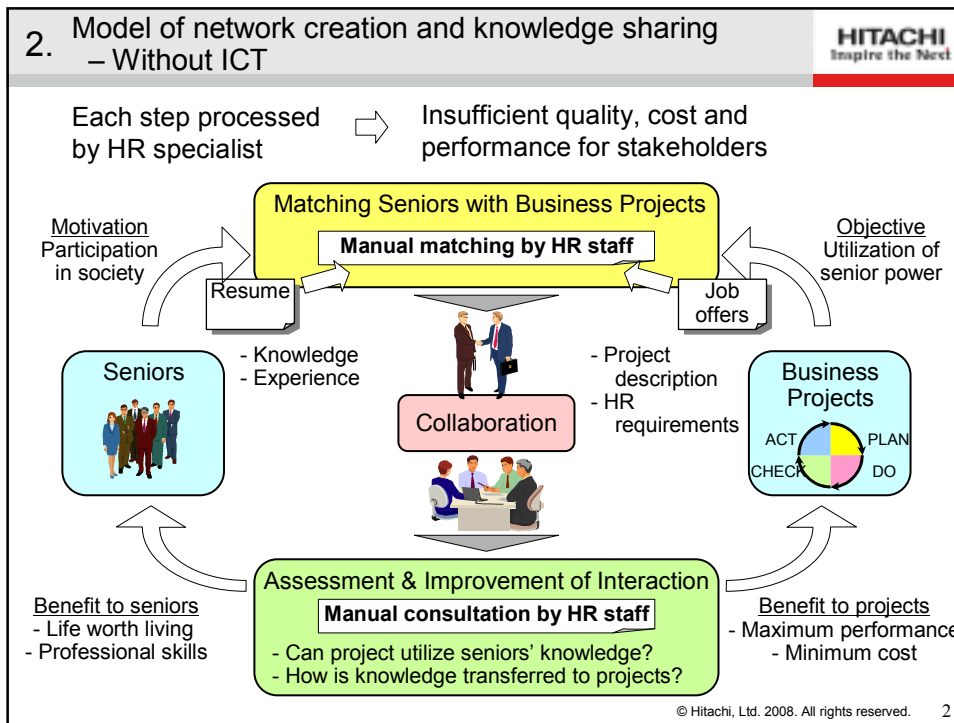
#### Issues

- How can ICT create networks bringing seniors' knowledge and experience to people who need it?
- How can ICT facilitate tracking of individuals' knowledge and its sharing?

#### Approach

1. Make model of network creation and knowledge sharing processes
2. List ICT tools for each part of process, including advantages and disadvantages

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#### 4. Profile matching using “Structured data”

Structured database technology is one kind of developed ICT  
Disadvantages may occur when matching seniors to business projects

- Merits: - High-speed matching at low cost  
Demerits: - High-cost of database construction and maintenance  
- Detailed information may be dropped from database records in tables  
- Difficult to design generic and useful database schema

Job offer table in structure database called RDB

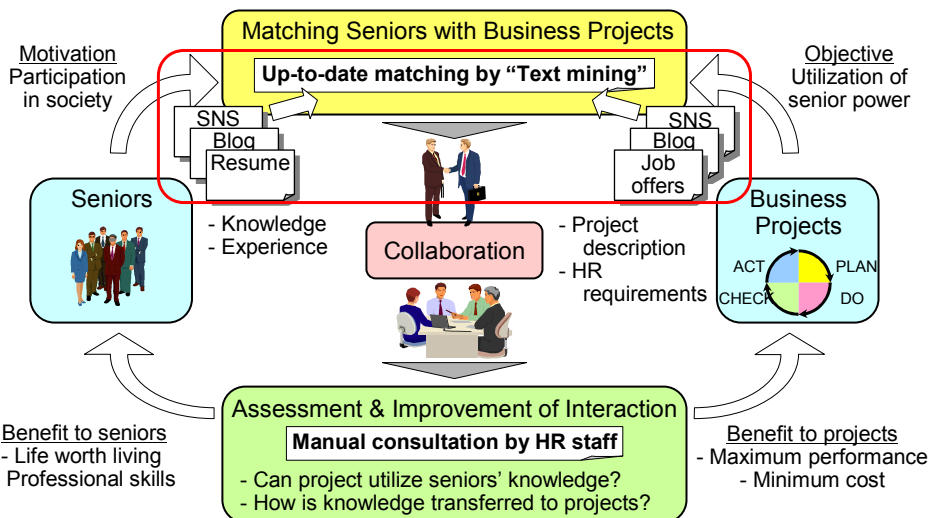
Job Title	Education	Experience	Skills	etc.
Service Developer	B.S.	5+ years	Developing BI solutions	
Financial Analyst	B.S	N.A.	Financial systems implementation	
BI Architect	M.S.	3+ years	BI, Multidimensional tools, RDBMS	

Resume table in structure database called RDB

Name	Education	Graduation Date	Major	Experience	etc.
John Doe	B.S.	Aug. 1970	IT		
Jane Doe	M.S	Aug. 1968			

#### 5. Model of network creation and knowledge sharing – Coming ICT for “unstructured data” matching

Huge amounts of information sources frequently updated on Web  
Goal: increased opportunities and high-quality matching



## 6. Profile matching using “unstructured data”

Many Web pages written in daily language → Easy to create and update information oneself

Merits: - Detailed and up-dated profile matching  
- Low-cost of Web page construction and maintenance  
- No need for database schema

Demerits: - Text mining (unstructured data matching) is challenging

Job offers on Web

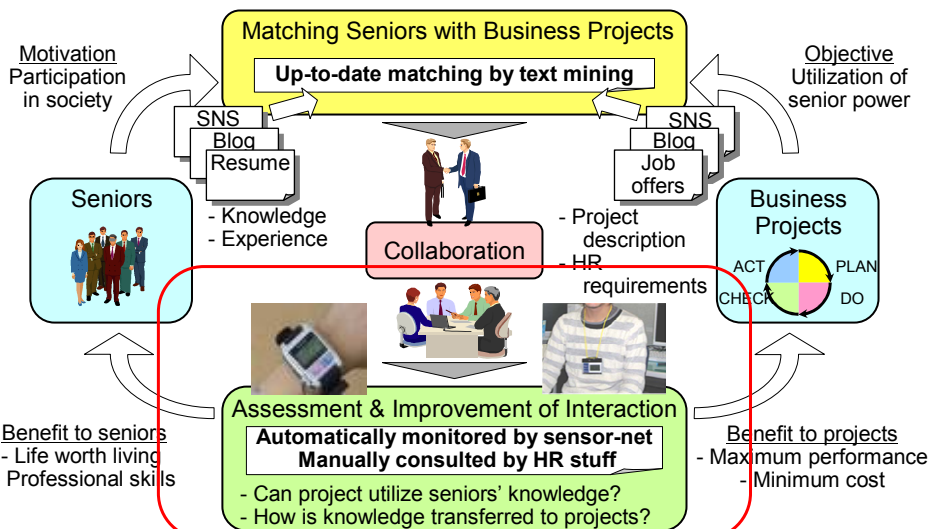


Personal info. sources on Web



## 7. Model of network creation and knowledge sharing - Future ICT for network assessment & improvement

WSN (wireless sensor network) monitors people's activity and interaction  
Goal: maximize performance of senior and project respectively



## 8. Summary

Model of network creation and knowledge sharing in ageing society, consisting of 3 steps:

1<sup>st</sup> step: Matching of seniors with business projects can be assisted:

- Currently, structured data matching e.g. RDBMS
- In future, unstructured data matching  
e.g. blogs, SNS, text mining

2<sup>nd</sup> & 3<sup>rd</sup> steps: Networking assessment & improvement can be assisted:

- In future, WSN monitoring and analysis of people's activities and interaction

NB: In addition to technology itself, legal issues such as privacy must be cleared

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