

Overview of KU MEDINFO team

Tomohiro Kuorda Vice CIO / Assoc. Prof. Kyoto University Hospital

Kyoto University

- Since 1897
 - Second Univ. of JP
 - 5 novel prizes
 - 2 fields prizes
- Sketch at 2010
 - 6900 staffs
 - 1082 Profs
 - 22819 students
 - 13537 under grad
 - 9282 post grads
 - 139.2 billion JPY
 - 18% from outer source
 - 21% from hospital



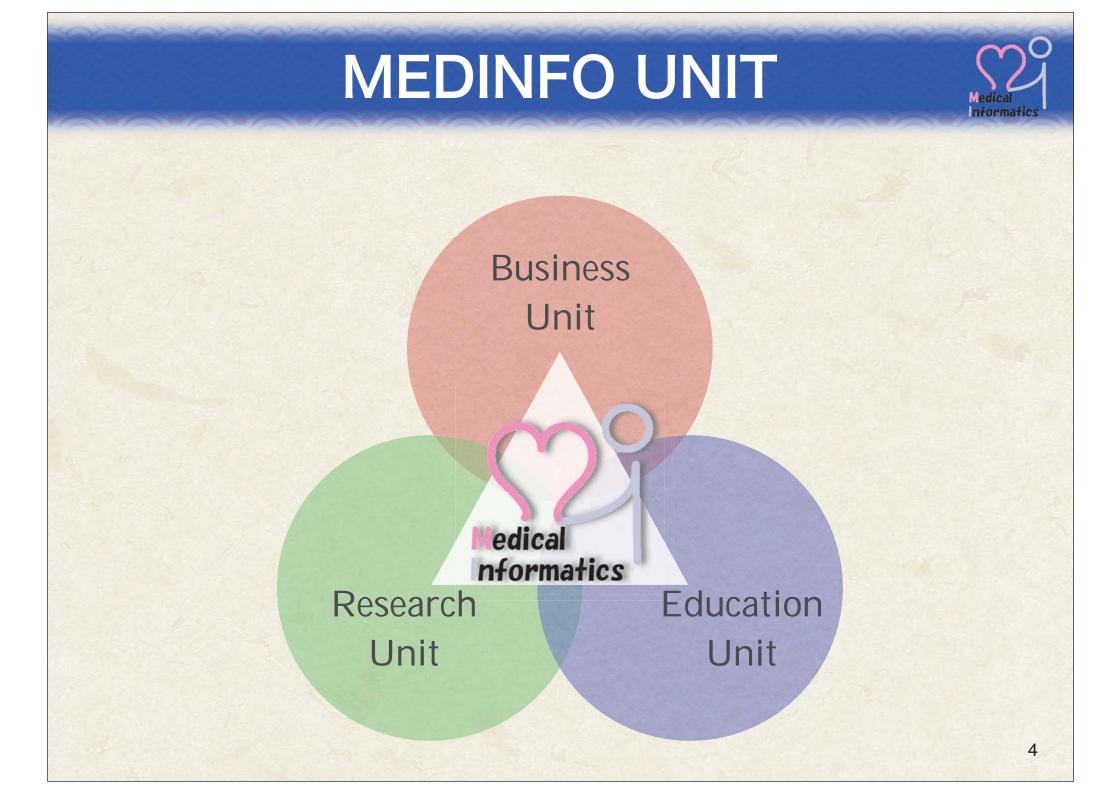


Kyoto University Hospital

Medical Informatics

- Founded in 1899
 - *1121 beds
 - 33 main clinics and departments
- *2727 staffs @2011.4
 - *773MD 1017Ns
- *3660 patients/day @2010
 - *992 patients admitted/day
 - *2668 out-patients/day

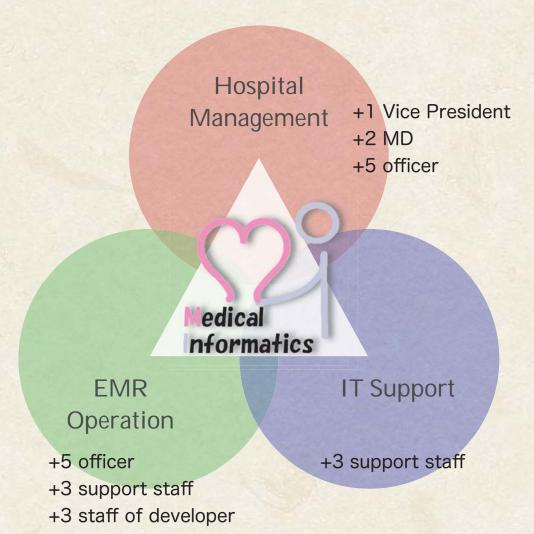






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MEDINFO : as business unit

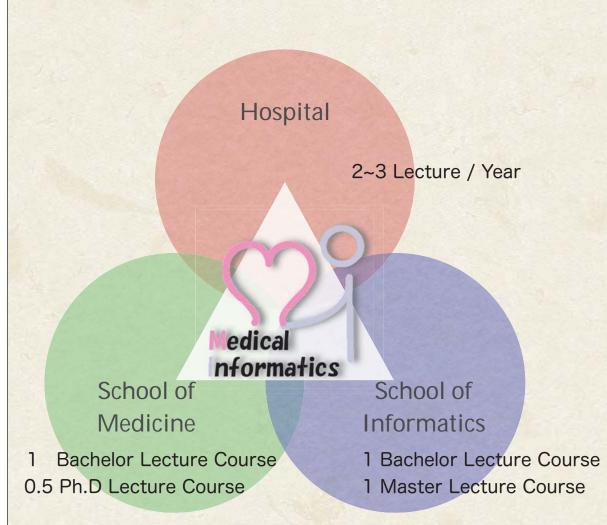


Hospital Management

- Analysis/advice
- Economy/quality
- EMR Operation
 - Design/intro./operation
 - Anal. 4 R&D/Management
- IT support
 - Net/Web/Mail/Teleconf.
 - Care/surgery/educate

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MEDINFO : as education unit



- For medical student
 - IT literacy
 - Advanced medical IT
- For informatics student
 - Basics of clinics
 - Applied informatics
- For hospital staff
 - IT literacy
 - IT literacy

MEDINFO : as research unit

Medical

Education

Support

Clinical

Activity

Support

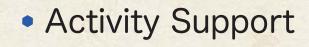
edical

Networked

Medicine

nformatics





- Clinical DSS
- Management DSS
- Networked Medicine
 - Telemedicine
 - HIS : ubicomp
- Education Support
 - VR Surgical Education
 - Hosp. Manag. Game

EHR Development



1970~1989



Prof. Akina Hirakawa

Handmade accounting systems by M lang.

systems by ivi lang.

1990~2001



Prof. Takashi Takahashi

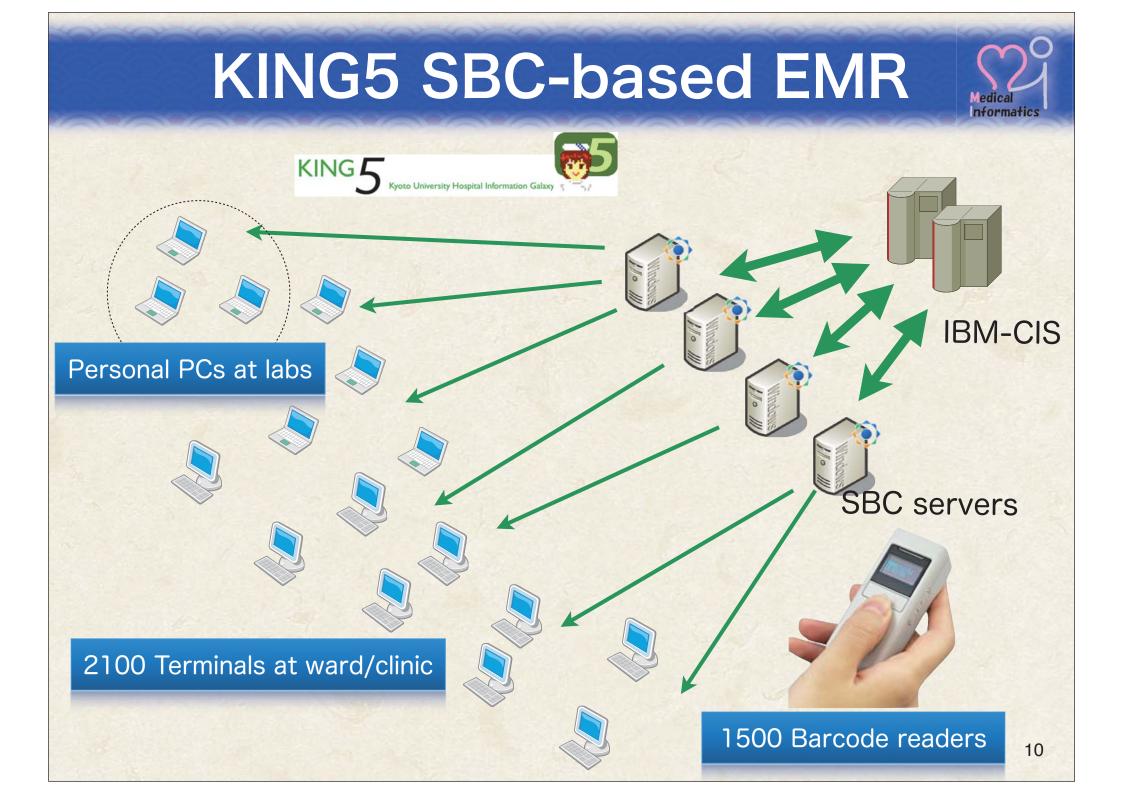
Custom made CPOE

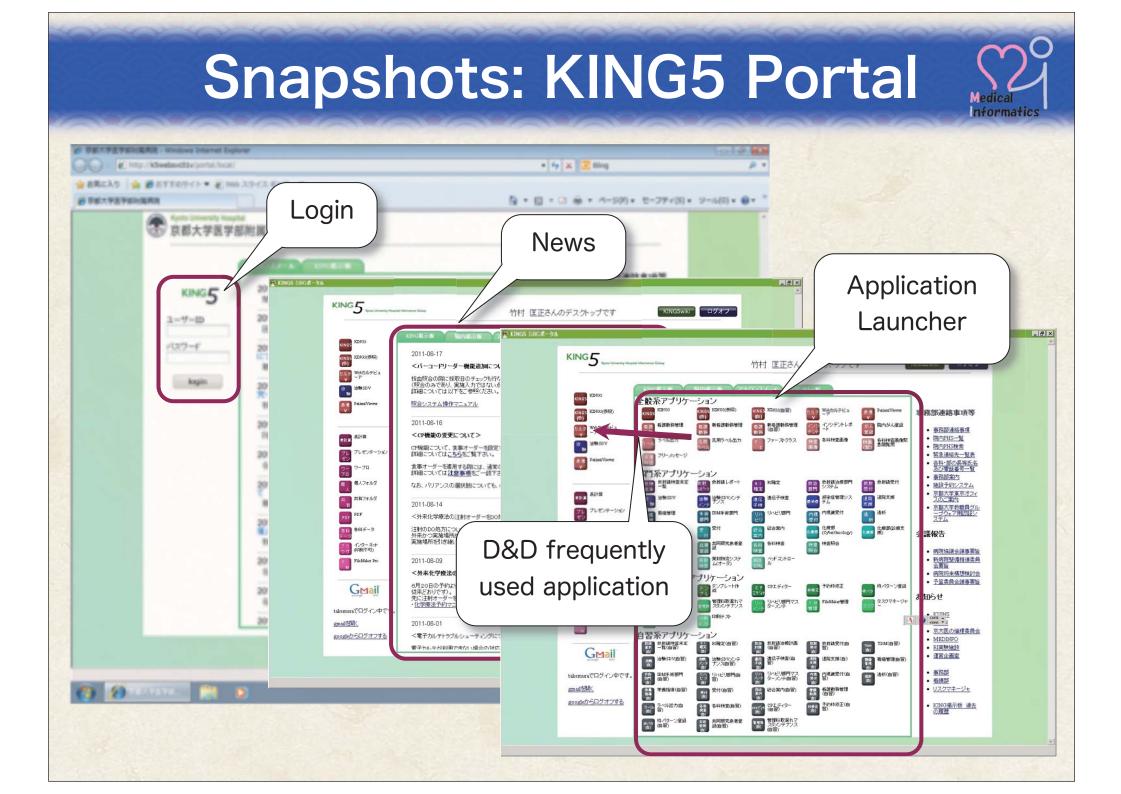
2003~



Prof. Hiroyuki Yoshihara

Full EMR and EHR

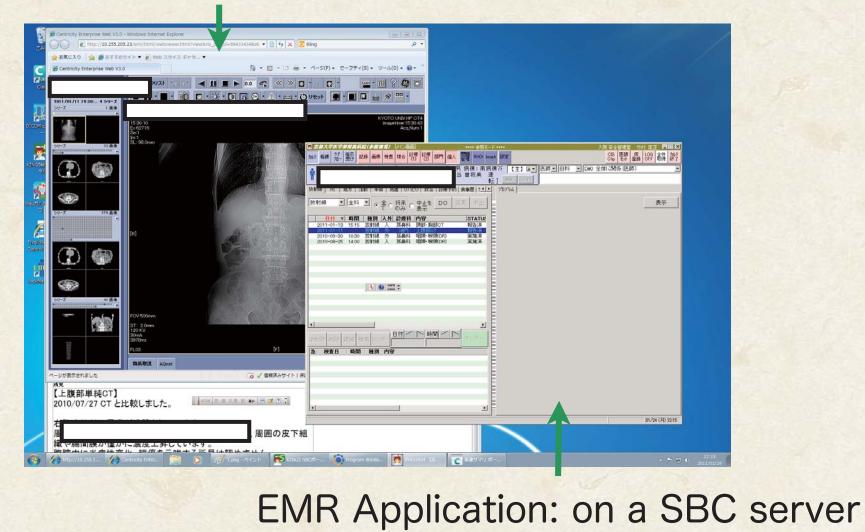




Snapshot : using KING5

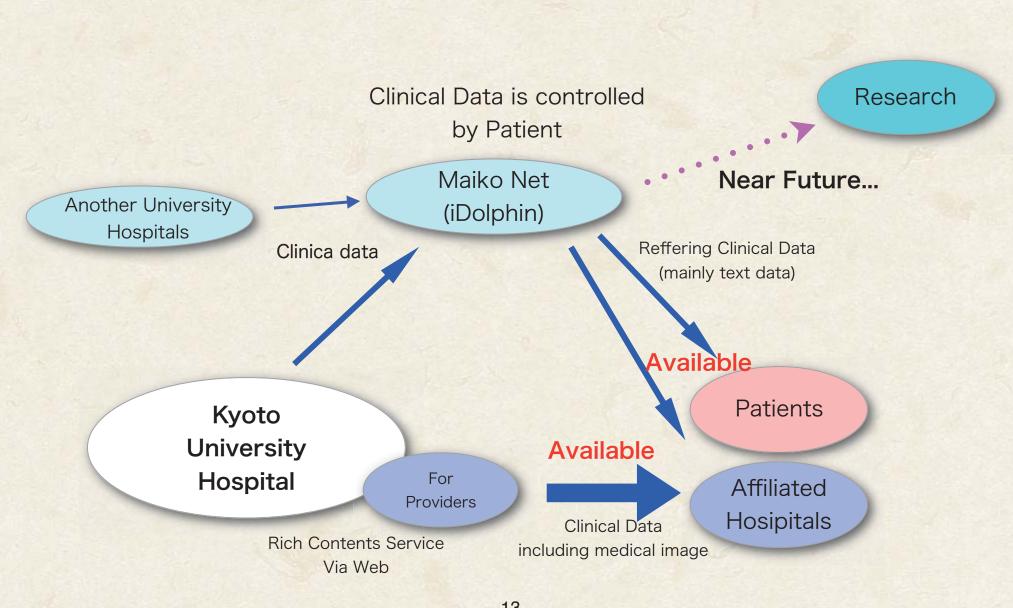


PACS viewer : on a local PC (FAT Client)



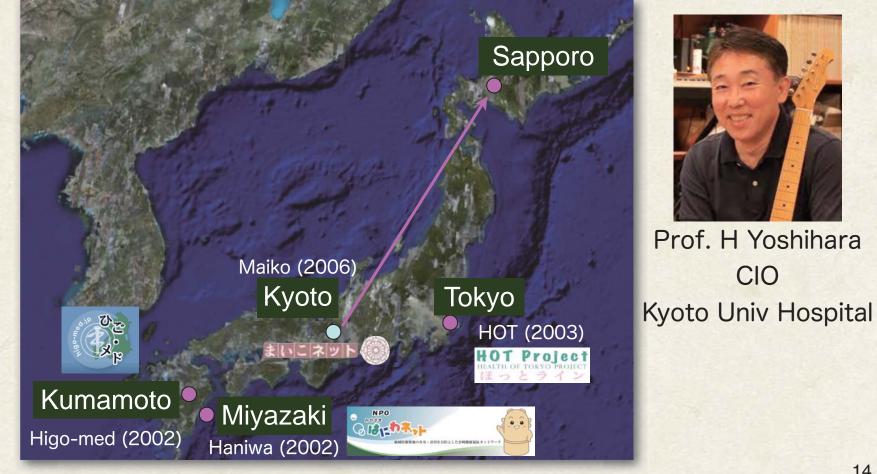
EHR of KUHP

Informatic:



Dolphin Project

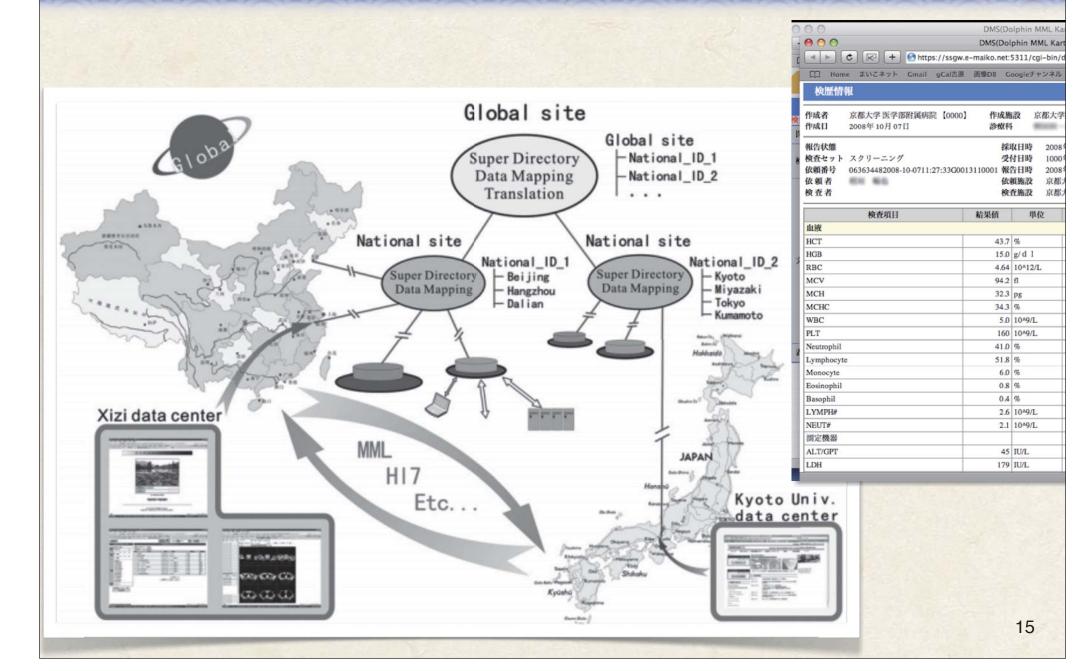
- Attempt to develop EHR/PHR since 2001
 - Based-on MML (Medical Markup Language) since 1994

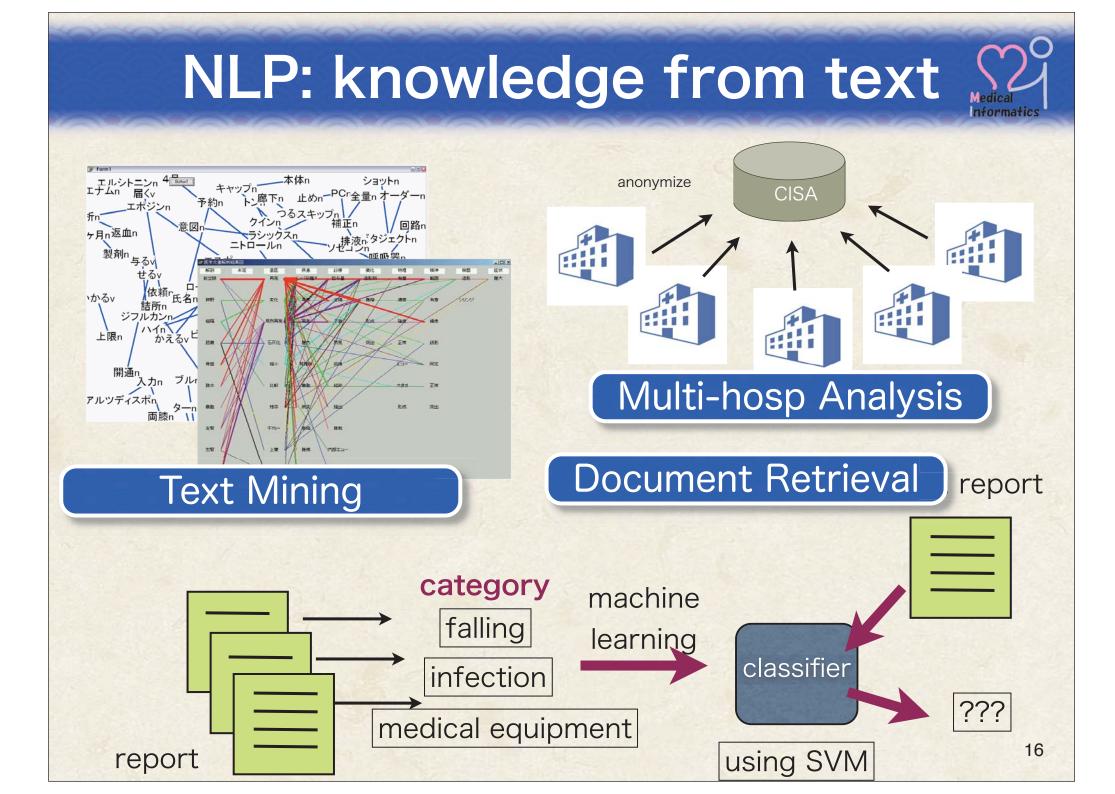


by Google Earth

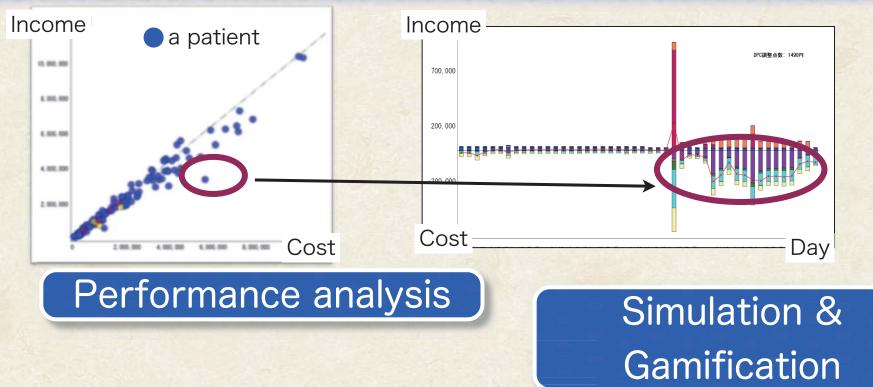
EHR: Dolphin Project

nformatics





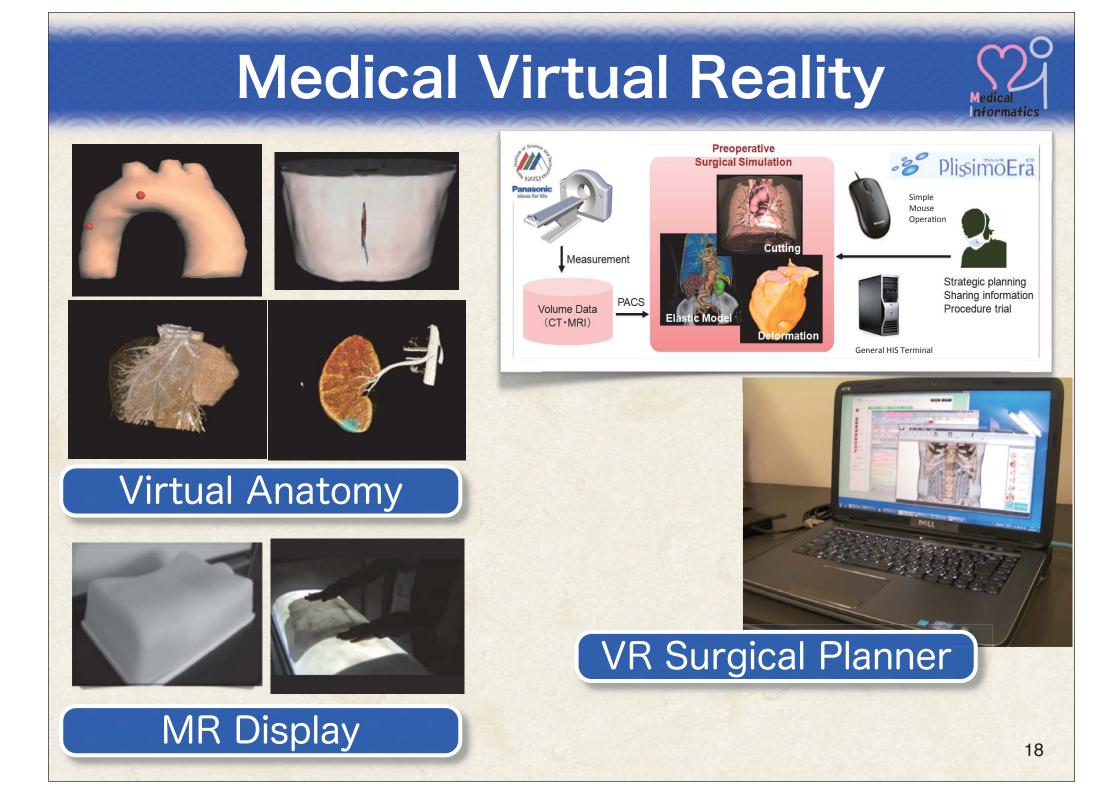
Hospital Management

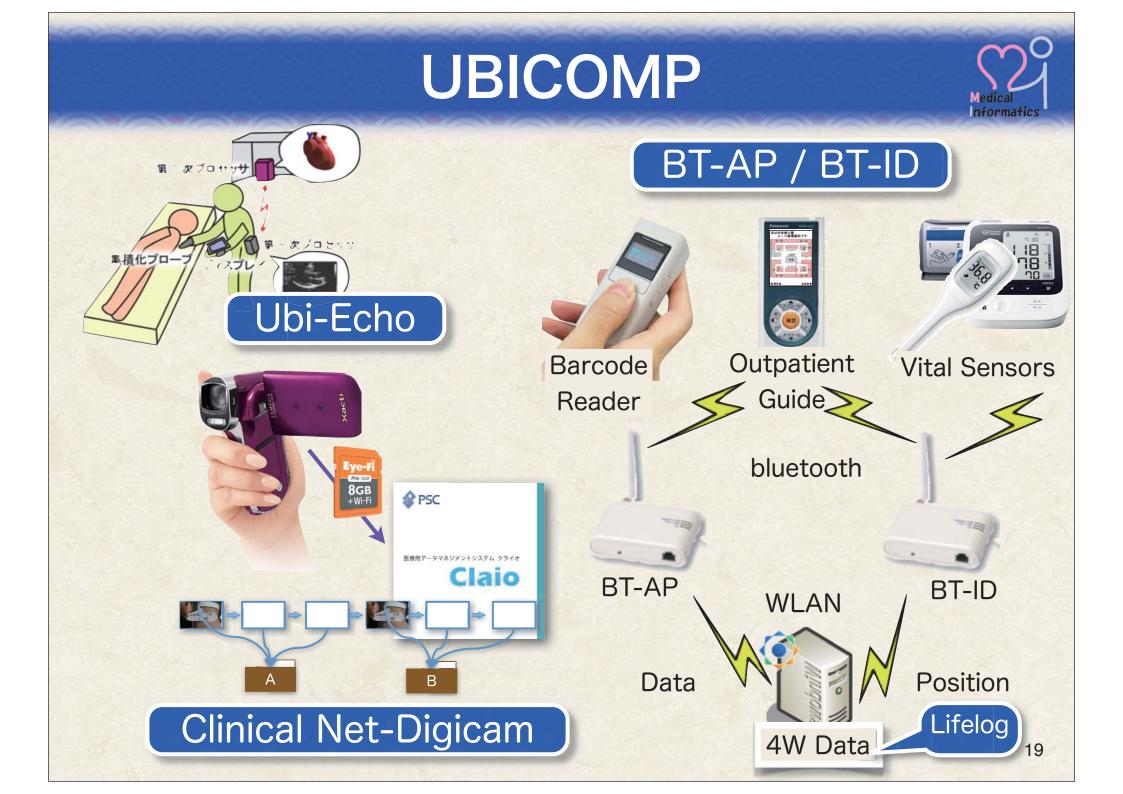


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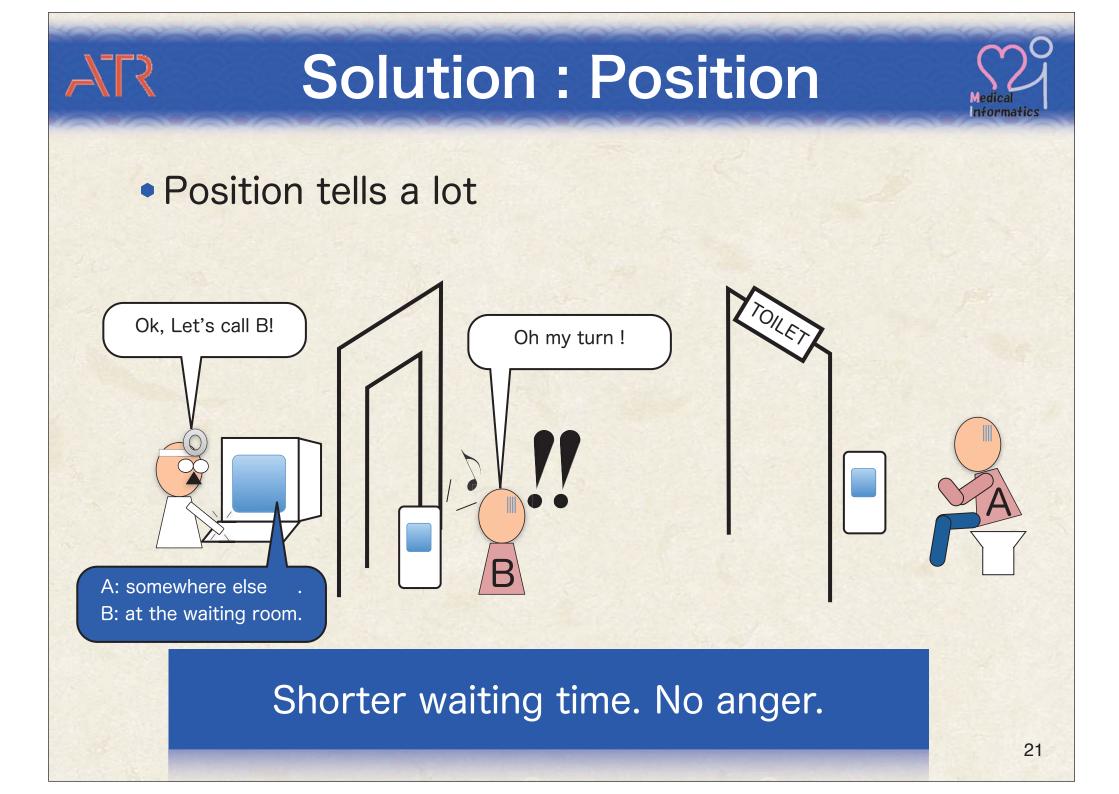
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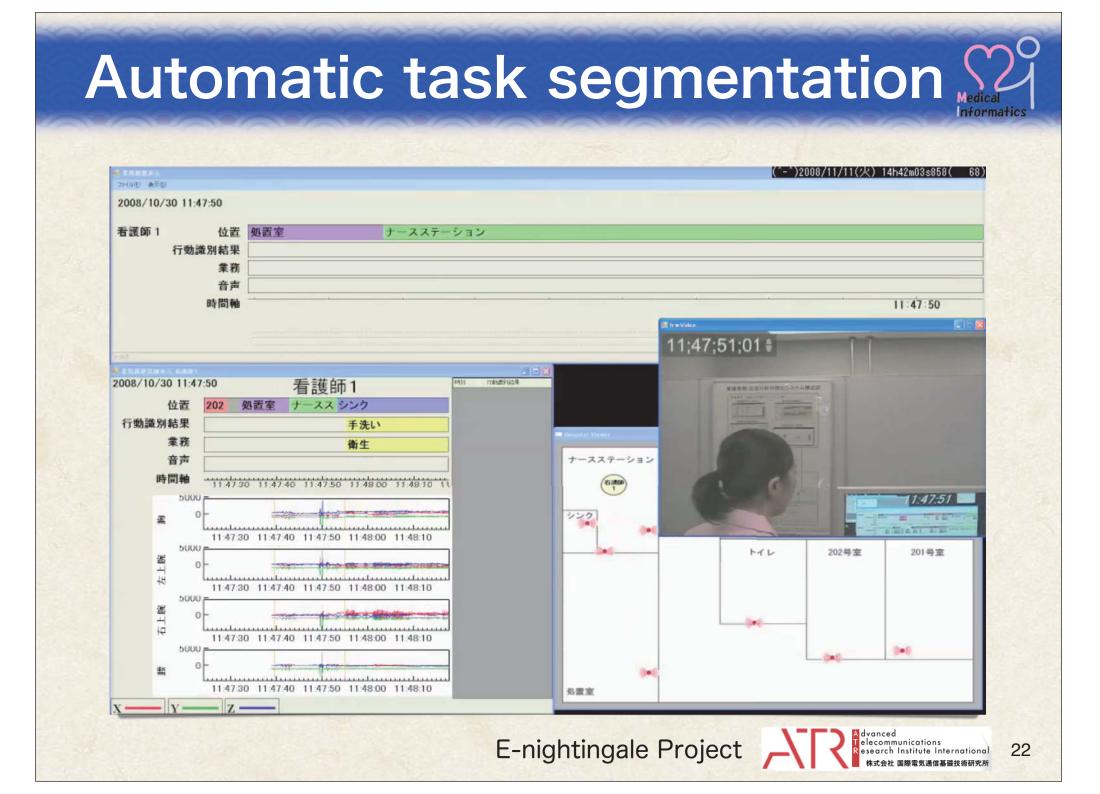
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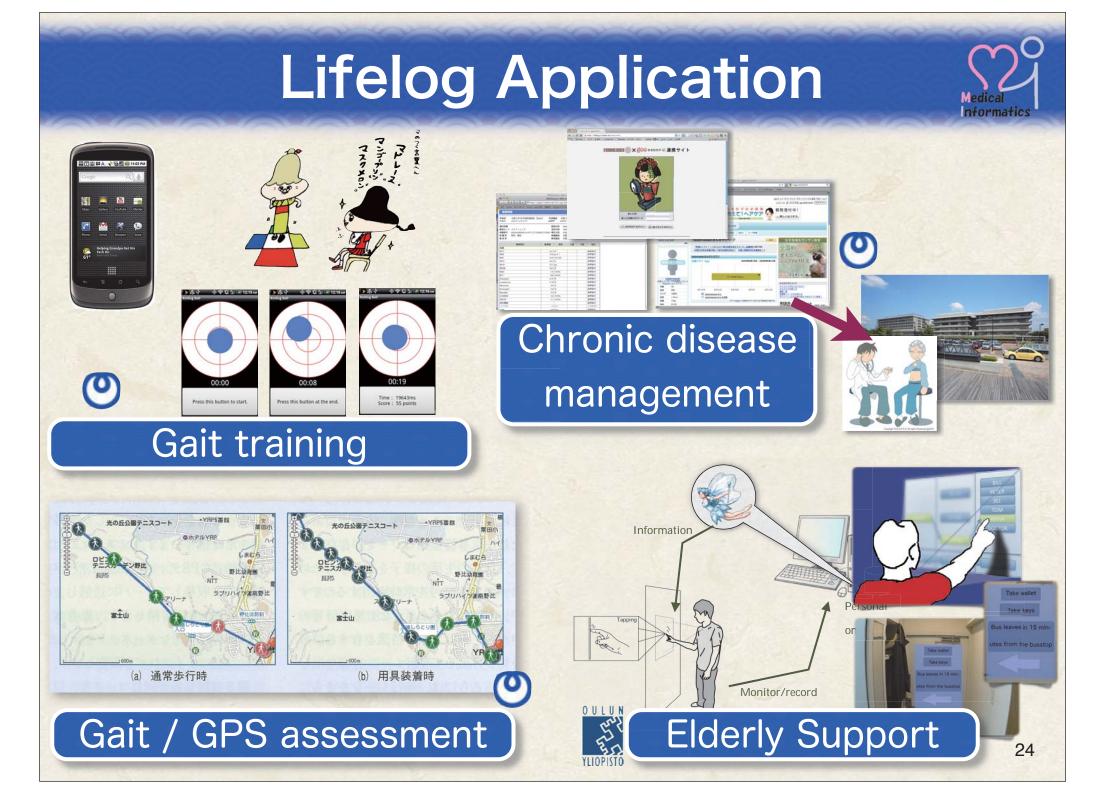












Telemedicine

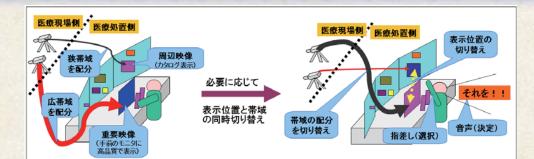


Tele ausculatation

遠隔地にいる

Tele-Echo

専門医の指示



Tele robotic surgery





Non-constraint Monitoring



Summary

- Research Topics
 - Sys. Implement. > Analysis > Modeling > App.
 - Text / Account / Image / Position etc
- Budget and Task
 - Main Appointment: HOSPITAL
 - Administration Management First
 - Second Appointment: Schools (Medicine / Informatics)
 - Lecture Duties and Students Intake
 - Small outsource research fund
 - No time for research