International bio-medical imaging based R&D and support imaging CRO and ARO service.

LISIT, Co.,Ltd.

LifeSaving Imaging Technologies

http://www.lisit.jp/indexE.html

Shuji Yamamoto,PhD
04.01,2013

About Us

LISIT, Co.,Ltd(*LifeSaving Imaging Technologies)* is a first company to fulfil the integration of medical image analysis service , R&D support of medical imaging and assessment of the drug efficacy as mainly technical aspect (radiological technology and medical physics) with first introducing as "Imaging ARO and CRO" support service.

Imaging ARO and CRO service

LISIT have developed long-tailed imaging marker with rapid programing.

Software development of new imaging biomarker

Zero footprint Cloud PACS system is also very important to make speed up and safety for the data delivery around the world.

World Wide Cloud DICOM network

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URL: Under construction
SHUJI YAMAMO, PhD
Personal site is
http://sites.google.com/site/texelcraft/

LISIT was established in April 1 2010.

Executive Officer

Shuji Yamamoto,PhD

Experienced in University Hospitals and Cancer related center for more than 15 years

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Education・Graduation

Osaka University, Graduate School of Medicine Faculty of Medicine, Medical Physics, PhD, March 2003

＜Resident Training of Medicine＞

.Research Resident: The 3rd. Term Comprehensive 10-Year Strategy for Cancer Control (BioMedical Imaging Science :Ministry of Health,Japan)

Career

Present:

.LISIT Co.Ltd. CEO

.Tokyo Institute of Technology, The Education Academy of Computational Life Sciences (ACLS), Project Associate Professor.

.National Cancer Center, Research Center for Cancer Prevention and Screening. Visiting Researcher

.Osaka University Hospital, Department of Radiology, Medical Researcher

.International Cancer Imaging Society Member (United Kingdom)

University and Research Facility using LISIT's remote support system
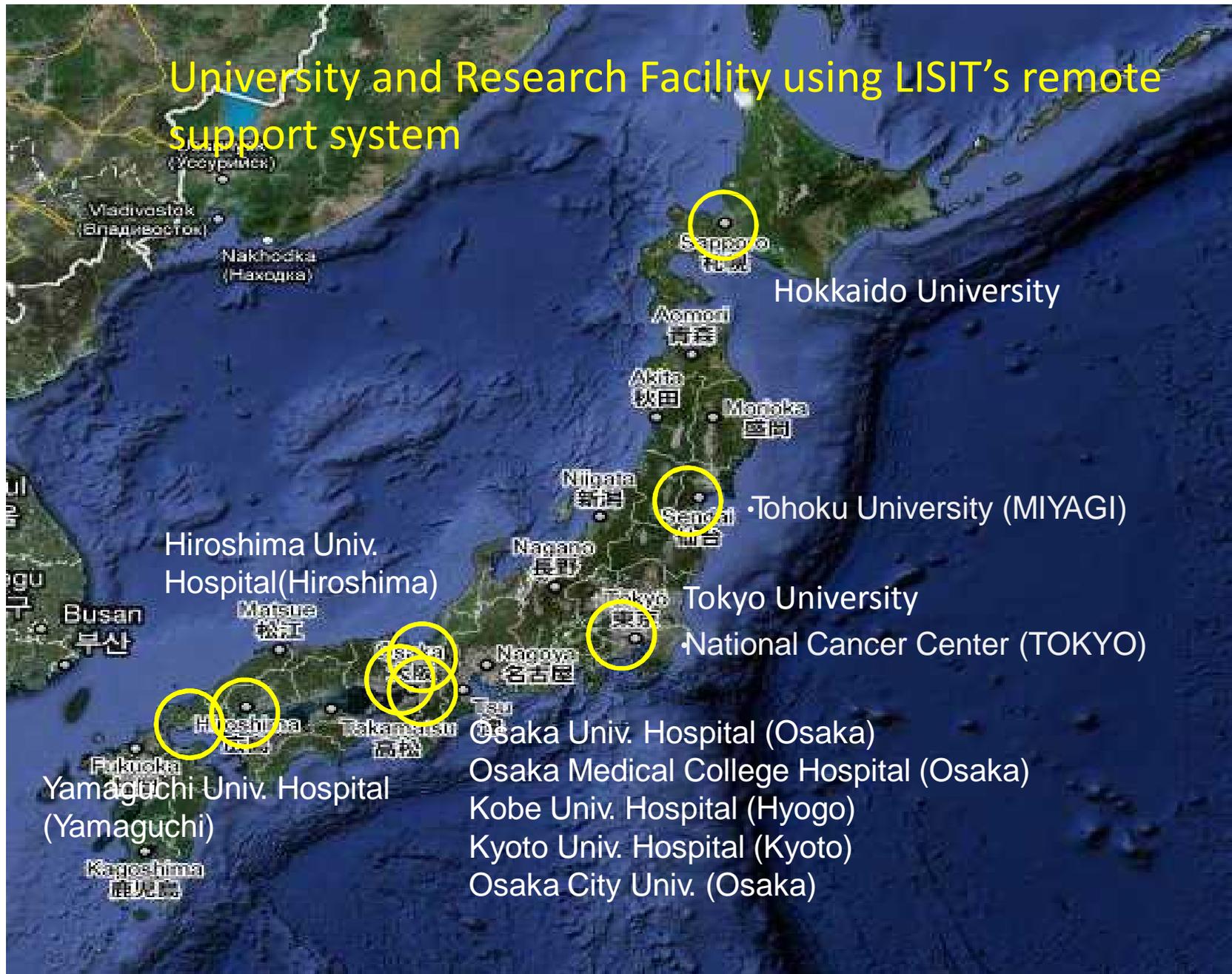
Business Opportunity

Market Pains:

- Creating bio-medical imaging marker require professional knowledge and time consuming work.
- Statistics and data management after image processing is essential for clinical research and trials
- PACS system is expensive and only for department of Radiology. Cloud-based vender neutral archive (VNA) is keep low cost, efficiency and robust.
- Not enough standardization QC for medical device, patient exposure dose controlling in Japan.
- Not enough standardization to validate the measurement methods to assess drug safety and efficacy in Japan.

LISIT's International Partners

- Mint Medical GmbH, Dossenheim / Heidelberg, Germany

- Image Information Systems, Rostock, Germany

- Object Research Systems, Montreal, Quebec

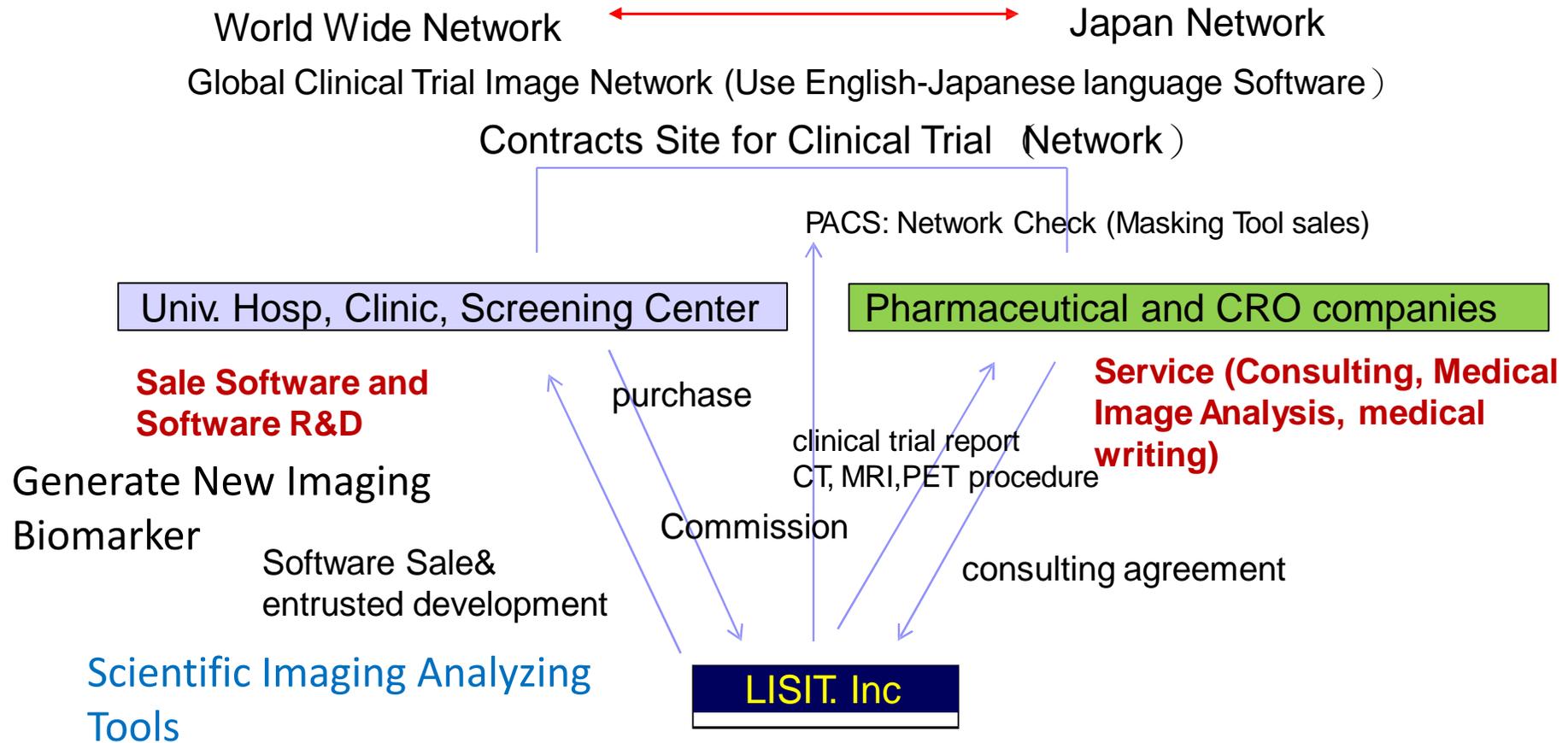- imagilyts, Brussels, Belgium

- Clariso, San Francisco, USA

- tWAN Biotech Company, Taichung, Taiwan

Our Solution

Zero footprint imaging cloud network

World Wide Network ←——————→ Japan Network

Global Clinical Trial Image Network (Use English-Japanese language Software）

Contracts Site for Clinical Trial （Network）

PACS: Network Check (Masking Tool sales)

Univ. Hosp, Clinic, Screening Center	Pharmaceutical and CRO companies

Sale Software and Software R&D

Service (Consulting, Medical Image Analysis, medical writing)

Generate New Imaging Biomarker

purchase

clinical trial report
CT, MRI,PET procedure

Software Sale& entrusted development

Commission

consulting agreement

Scientific Imaging Analyzing Tools

LISIT. Inc

•Validated measurement using FDA approved workstation and tools
•Custom Development for Educational and Research Facilities
•Quality Control service to the CT, MRI, PET device, Images, Display regulated DICOM

Value Proposition of LISIT

Professionals for medical imaging

- Provide solutions for various problem of diagnostic, therapeutic imaging, research and educational medical image processing work.

- Thorough knowledge of multi-dimensional image processing and analysis.
  - ☐ Wide experienced operations of vender's 3D workstation.
  - ☐ Self-developed software for image analysis related to clinical trials.

- Provide medical imaging network & communication solution
  - Based on validated international "Masking tool: DICOM anonymous"
  - Developed image data communication system for clinical trials
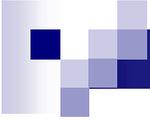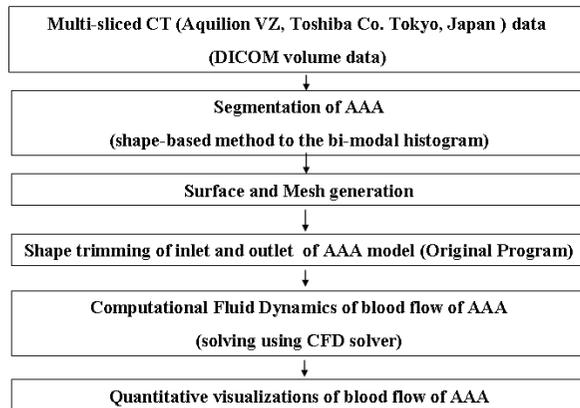
Value Proposition of LISIT (2)

Professionals for imaging solution in clinical trials

- Provide up-to-date diagnostic imaging methodology (academic base)

- Translate protocol (imaging exam related contents) to Japanese-English for global study
  - ☐ Optimize to fit Japanese situation in radiology department

- Consulting RECIST, Cheson, PERCIST, RANO, ir-RC, ir-RECIST1.1 etc measure using our developed software

- Analyze image data using various validated methods.
  plan and make CSV(computer system validation for ARO: Academic Research Organization)

- Provide the standardized validated reports based on Validated Large World Wide International Clinical Trials

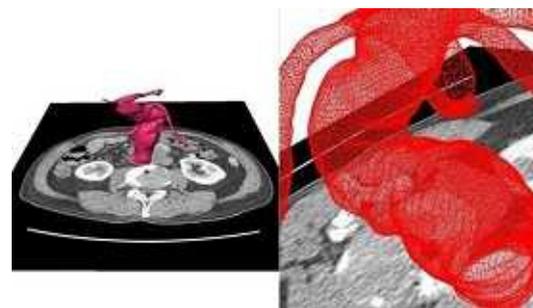# Consulting and Entrusted Analysis Service using Advanced Partner's Software

Computational Flow Dynamics (Research and Academic work)

Flowchart of 3D modeling and CFD

Multi-sliced CT (Aquilion VZ, Toshiba Co. Tokyo, Japan) data (DICOM volume data)
Segmentation of AAA (shape-based method to the bi-modal histogram)
Surface and Mesh generation
Shape trimming of inlet and outlet of AAA model (Original Program)
Computational Fluid Dynamics of blood flow of AAA (solving using CFD solver)
Quantitative visualizations of blood flow of AAA

Schematic diagram of the technique in blood flow visualizing and analysis

Analysis Planning

Inlet : Velocity Prescribed

optimal approach for setting algorithms

Model and Parameter Condition

Condition

ρ (Blood Density) = 1.06 g/cm^3

h (Blood Viscosity) = 0.0471 poise

U (Inlet Velocity) = 50.0 cm/sec

L (Inlet Diameter) = 2.50 cm

$$Re = \frac{\rho UL}{\eta} \approx 2800$$

208610 Tetra Meshes

39831 Nodes

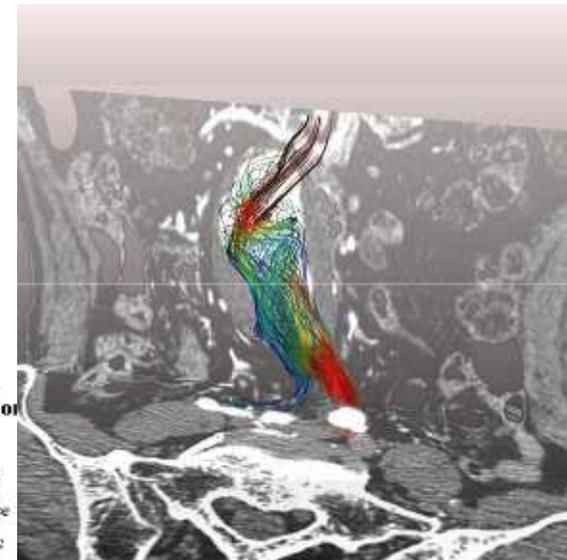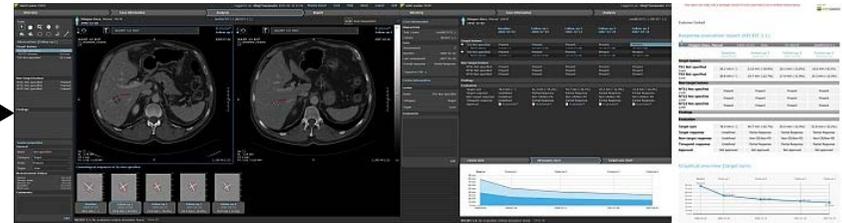Outlet : Pressure Prescribed (P=0)

Image based solution for persistent case in clinical trial
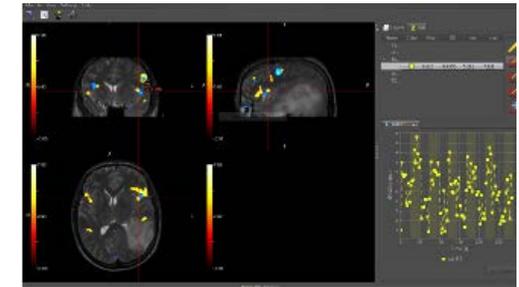
Novelty LISIT Inc. Business

mint Lesion developed by Mint Medical (Germany)

malignant neoplasm (Oncology)
1) Clinical trail of anti-cancer drug
2) RECIST

cranial nerve disease

1) cerebral infarction
2) Alzheimer disease

Bone disease
1) Osteoporosis
2) (RA:Rheumatoid Arthritis

cardiovascular disease

1) Measure angiographic stenosis
2) Cardiac Function (4D)

pulmonary [pulmonic] disease
1) interstitial lung disease
2) COPD, asthma 、emphysema

BrainMagix,
imagilyts,
Brussels, Belgium

WatchinGGO (Lung cancer imaging
biomarker original developed LISIT)
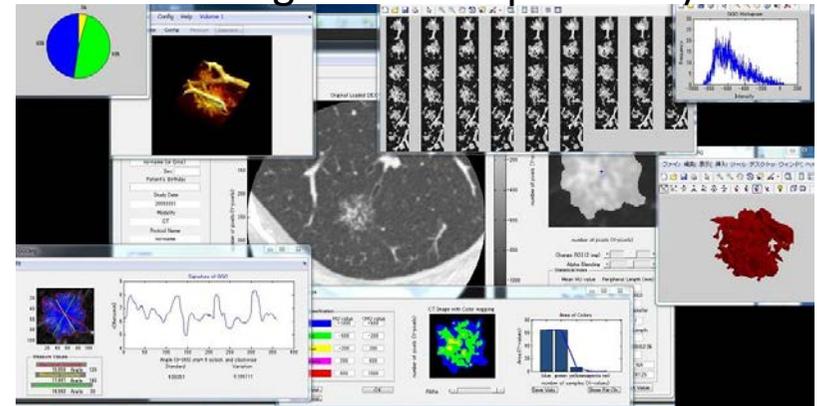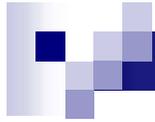
LISIT, Co., Ltd.
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We believe that the clinical –based medical imaging technology save a life and open the doorway to a bright future for the people all over the world

Thank you