Introduction of NII

September, 2013

Shinichi Honiden

Deputy Director General, NII
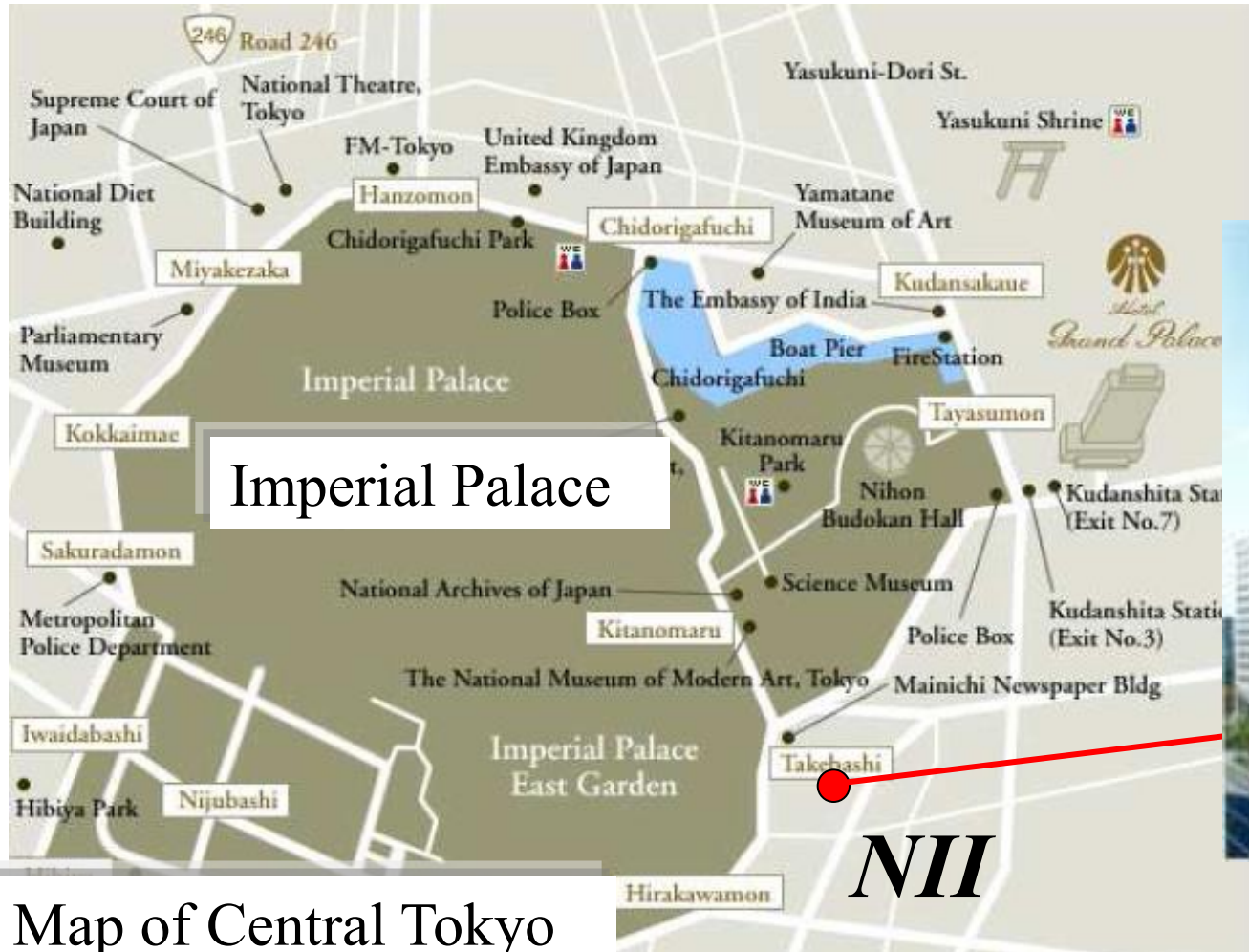
Imperial Palace

NII

Map of Central Tokyo

- **National Institute of Informatics (NII) was established when April 2000.**

National Institute of Informatics (NII)

Staff:

- ▶ 90 Professors with 200 visiting prof.
- ▶ 250 Administration, Development staff, Project researchers, etc.
- ▶ 140 Graduate students (University of Tokyo, etc.)

NII's Four Major Missions

1. **'Only one' Academic Research Institute for 'Informatics' in Japan**
2. National Center of Japanese IT activities
3. Service operations of academic information infrastructure (academic networks & digital contents)
4. Education for graduate students

Dual Target Research System

Fundamental Research

Research Division

- **Principles of Informatics**
- **Information Systems Architecture Science**
- **Digital Content and Media Sciences**
- **Information and Society**

Strategic Research

Research Planning & Promotion Office

- GRACE Center: Center for Global Research in Advanced Software Science & Engineering
- Research Center for Community Knowledge
- Research Center for Quantum Information Science
- Research Center for Big Data Mathematics
- Research Center for Knowledge Media and Content Science
- Research Center for Cyber-Physical Systems

Priority Projects

■National Institute of Informatics (NII)

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  - ▶140 Graduate students (University of Tokyo, etc.)
- ■ **Budget:**
  - ▶About 12 billion yen (100 million Euro)

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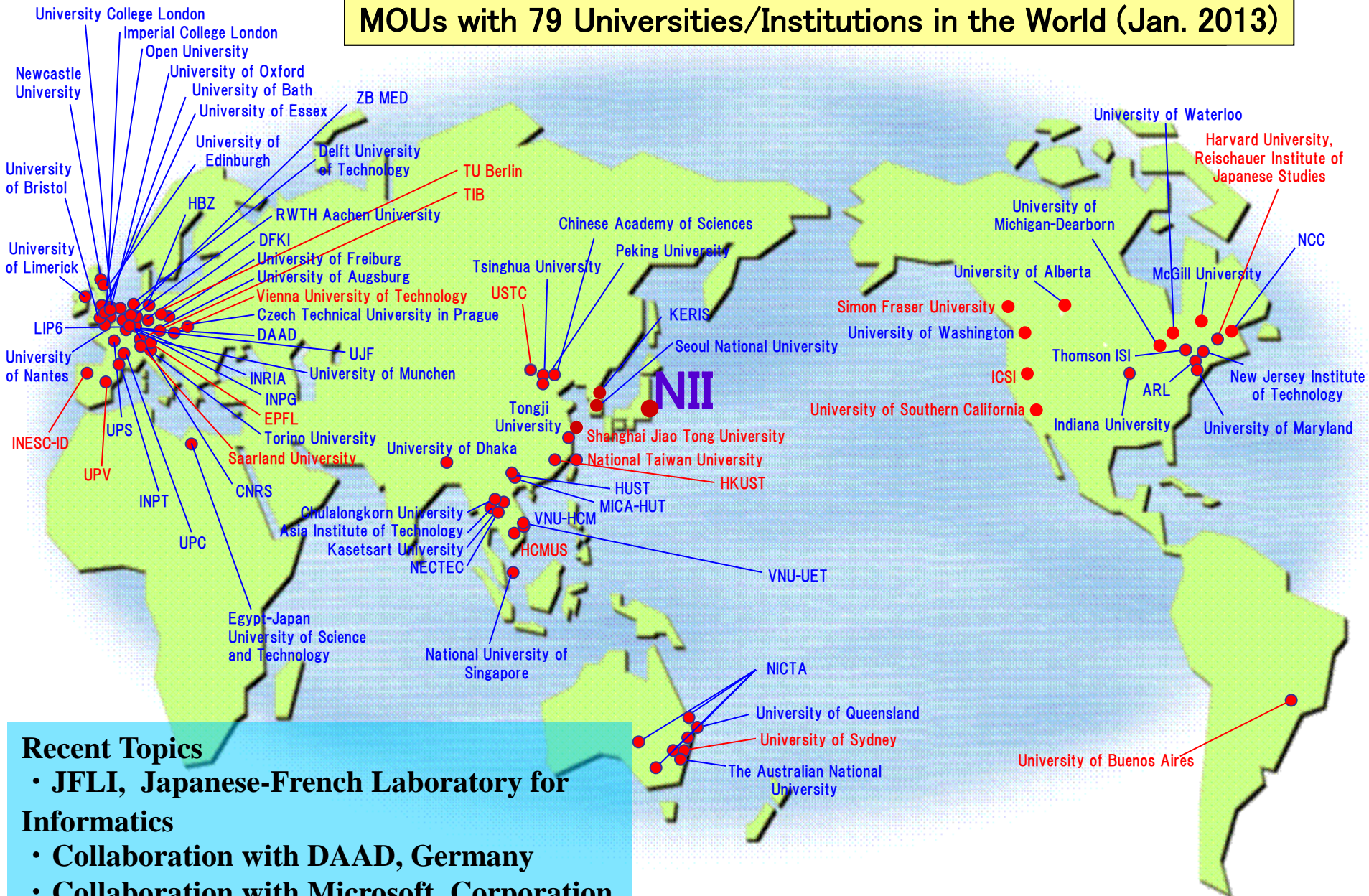 - ▶140 Graduate students (University of Tokyo, etc.)
- ■**Budget:**
  - ▶About 12 billion yen (100 million Euro)
- ■**MOU with foreign Universities**

Global collaboration of NII

MOUs with 79 Universities/Institutions in the World (Jan. 2013)

University College London
Imperial College London
Open University
University of Oxford
University of Bath
University of Essex
Newcastle University
ZB MED
University of Edinburgh
Delft University of Technology
TU Berlin
TIB
University of Bristol
HBZ
RWTH Aachen University
DFKI
University of Freiburg
University of Augsburg
University of Limerick
Vienna University of Technology
Czech Technical University in Prague
DAAD
LIP6
UJF
University of Munchen
University of Nantes
INRIA
University of Munchen
INPG
INESC-ID
EPFL
Torino University
UPS
Saarland University
UPV
CNRS
INPT
Chulalongkorn University
UPC
Asia Institute of Technology
Kasetsart University
NECTEC
Egypt-Japan University of Science and Technology
National University of Singapore

Chinese Academy of Sciences
Peking University
Tsinghua University
USTC
KERIS
Seoul National University
NII
Tongji University
Shanghai Jiao Tong University
University of Dhaka
National Taiwan University
HKUST
HUST
MICA-HUT
VNU-HCM
HCMUS
VNU-UET
NICTA
University of Queensland
University of Sydney
The Australian National University

University of Waterloo
Harvard University, Reischauer Institute of Japanese Studies
University of Michigan-Dearborn
NCC
University of Alberta
McGill University
Simon Fraser University
University of Washington
Thomson ISI
ICSI
ARL
Indiana University
University of Southern California
New Jersey Institute of Technology
University of Maryland
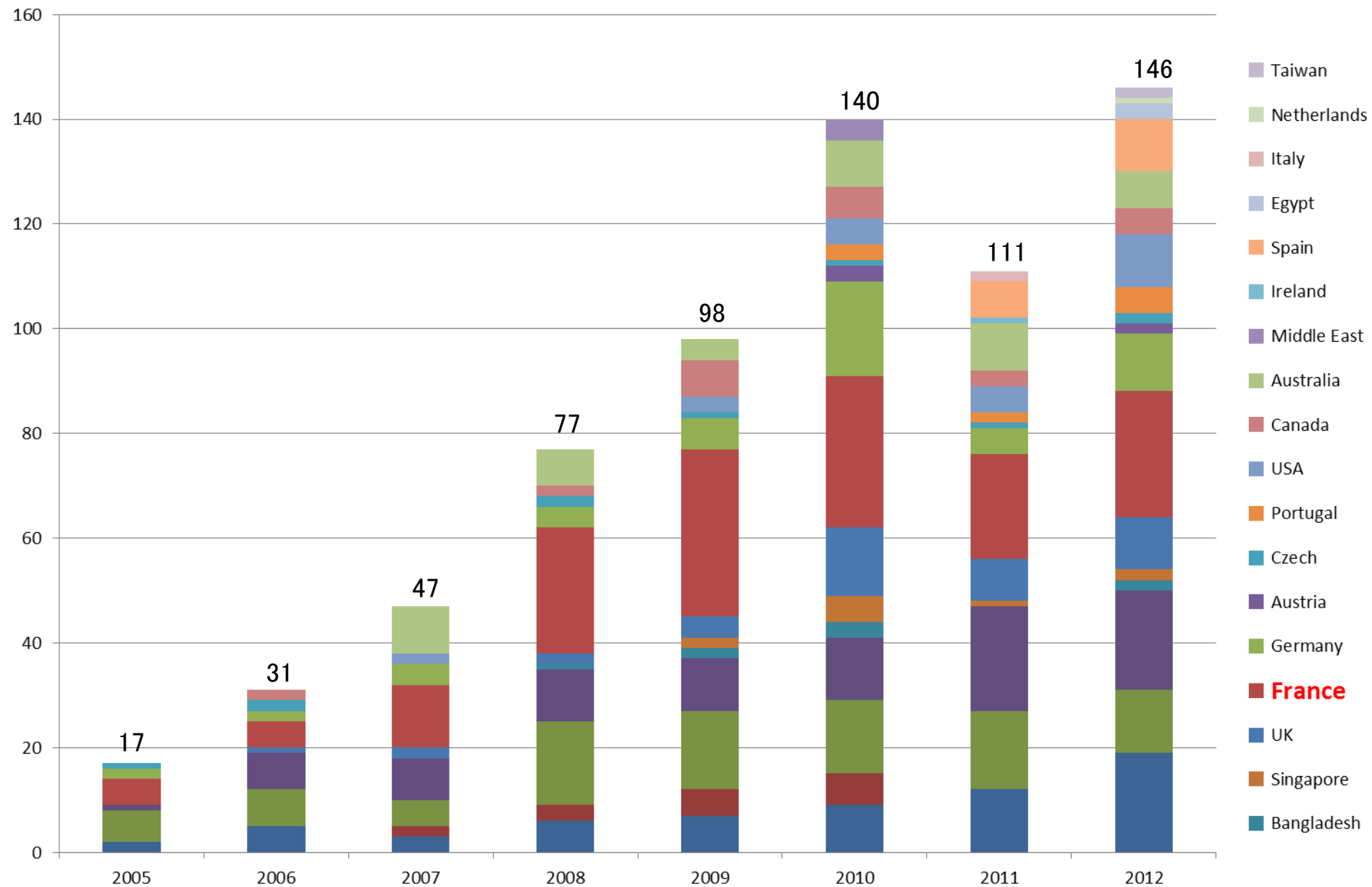University of Buenos Aires

Recent Topics
• **JFLI, Japanese-French Laboratory for Informatics**
• **Collaboration with DAAD, Germany**
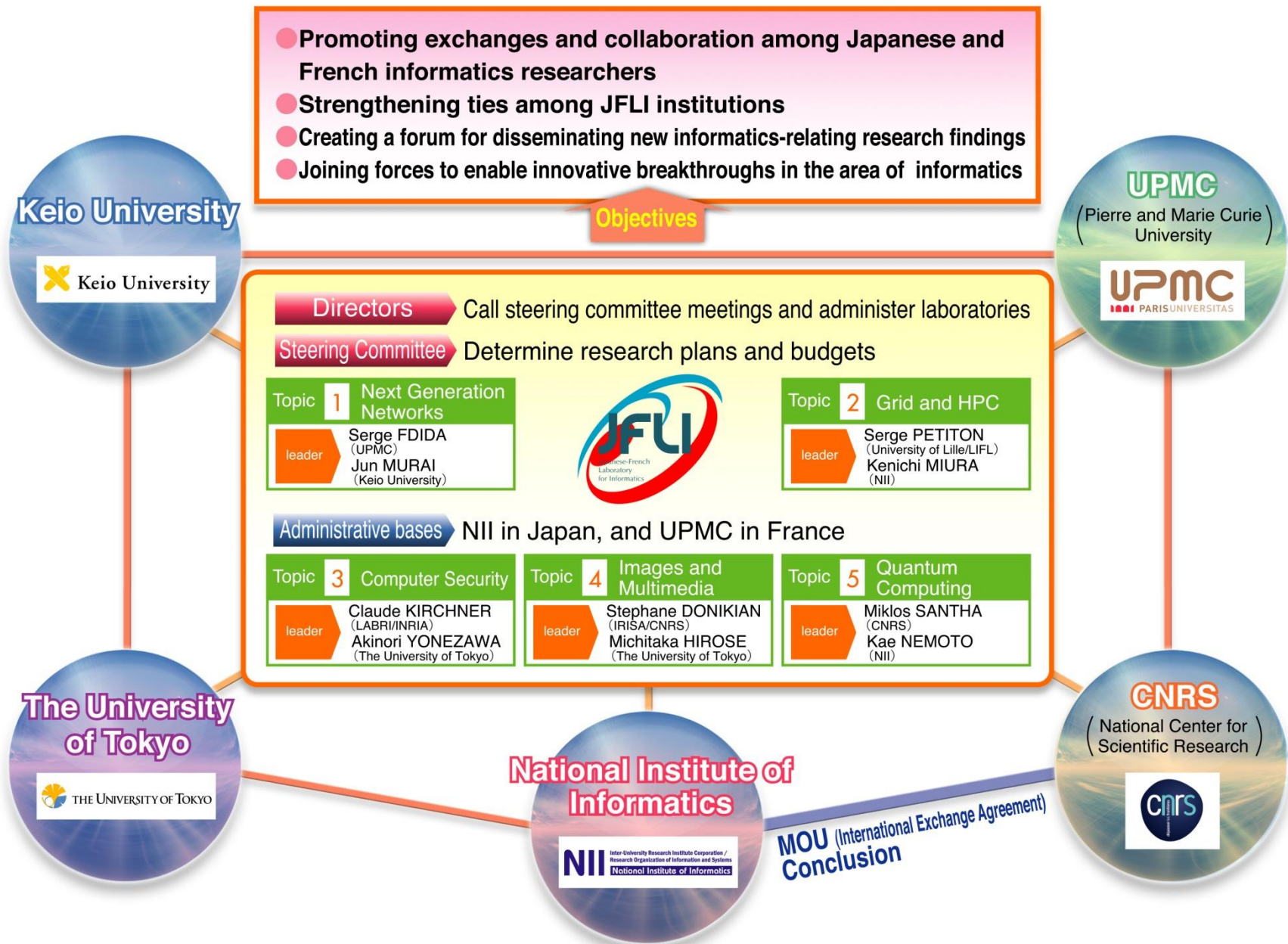• **Collaboration with Microsoft Corporation**

Transition of the Number of the M O U

As of Jan.2013
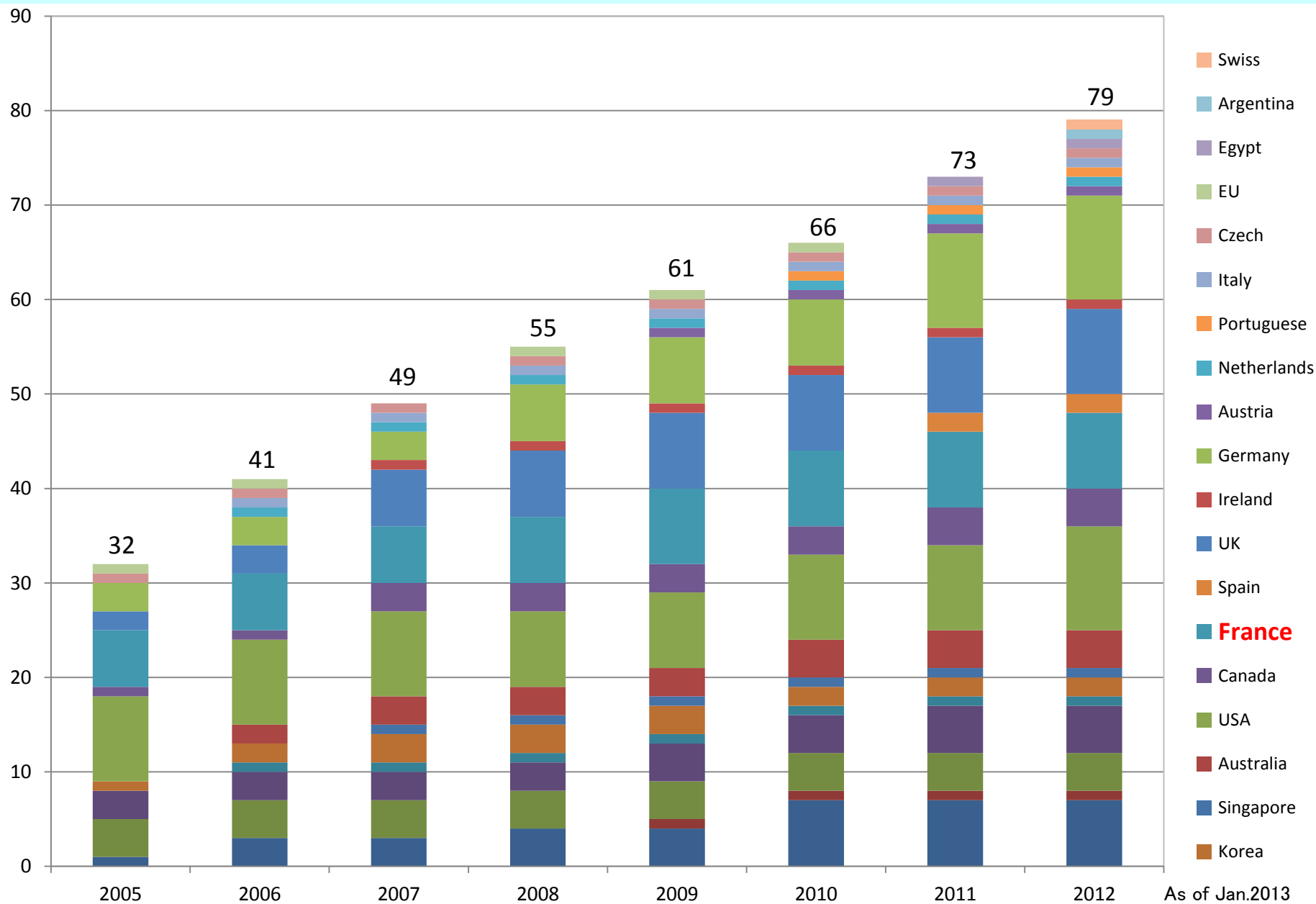
NII International Internship Program

JFLI: Japanese-French Laboratory for Informatics

- Promoting exchanges and collaboration among Japanese and French informatics researchers
- Strengthening ties among JFLI institutions
- Creating a forum for disseminating new informatics-relating research findings
- Joining forces to enable innovative breakthroughs in the area of informatics

Objectives

Keio University

Keio University

UPMC
(Pierre and Marie Curie University)

UPMC
PARIS UNIVERSITAS

Directors Call steering committee meetings and administer laboratories

Steering Committee Determine research plans and budgets

Topic 1 Next Generation Networks
leader
Serge FDIDA (UPMC)
Jun MURAI (Keio University)

Topic 2 Grid and HPC
leader
Serge PETITON (University of Lille/LIFL)
Kenichi MIURA (NII)

JFLI
Japanese-French Laboratory for Informatics

Administrative bases NII in Japan, and UPMC in France

Topic 3 Computer Security
leader
Claude KIRCHNER (LABRI/INRIA)
Akinori YONEZAWA (The University of Tokyo)

Topic 4 Images and Multimedia
leader
Stephane DONIKIAN (IRISA/CNRS)
Michitaka HIROSE (The University of Tokyo)

Topic 5 Quantum Computing
leader
Miklos SANTHA (CNRS)
Kae NEMOTO (NII)

The University of Tokyo

THE UNIVERSITY OF TOKYO

National Institute of Informatics

NII Inter-University Research Institute Corporation / Research Organization of Information and Systems
National Institute of Informatics

CNRS
(National Center for Scientific Research)

cnrs

MOU (International Exchange Agreement) Conclusion

NII Shonan Meetings: Overview

NII

SHONAN MEETING

湘南会議

Organized by
National Institute of Informatics

Supported by
Village Shonan Inc.
Kanagawa Prefecture

The first Dagstuhl-style seminars in Asia

- For top-level/active researchers in all fields of informatics
  - ▶ Not for students to learn
- For research discussion (open problems and research vision)
  - ▶ Not just for presenting results
- 10-20 meetings/year

Dec. 2008
- Trail Meeting on Bidirectional Transformation
- Succeeded with 28 participants from DB/SE/PL

Feb. 2011
- The First Shonan Meeting on Algorithms
- Succeeded with 39 participants

Feb. 2013
- 20 Shonan meetings have been successfully held
- Over 400 participants (60% from outside of Japan)