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RÉPUBLIQUE FRANÇAISE

MINISTÈRE
DE L'EUROPE ET DES
AFFAIRES ÉTRANGÈRES

Service for Science & Technology

Embassy of France in Japan

5th France-Japan Cybersecurity workshop

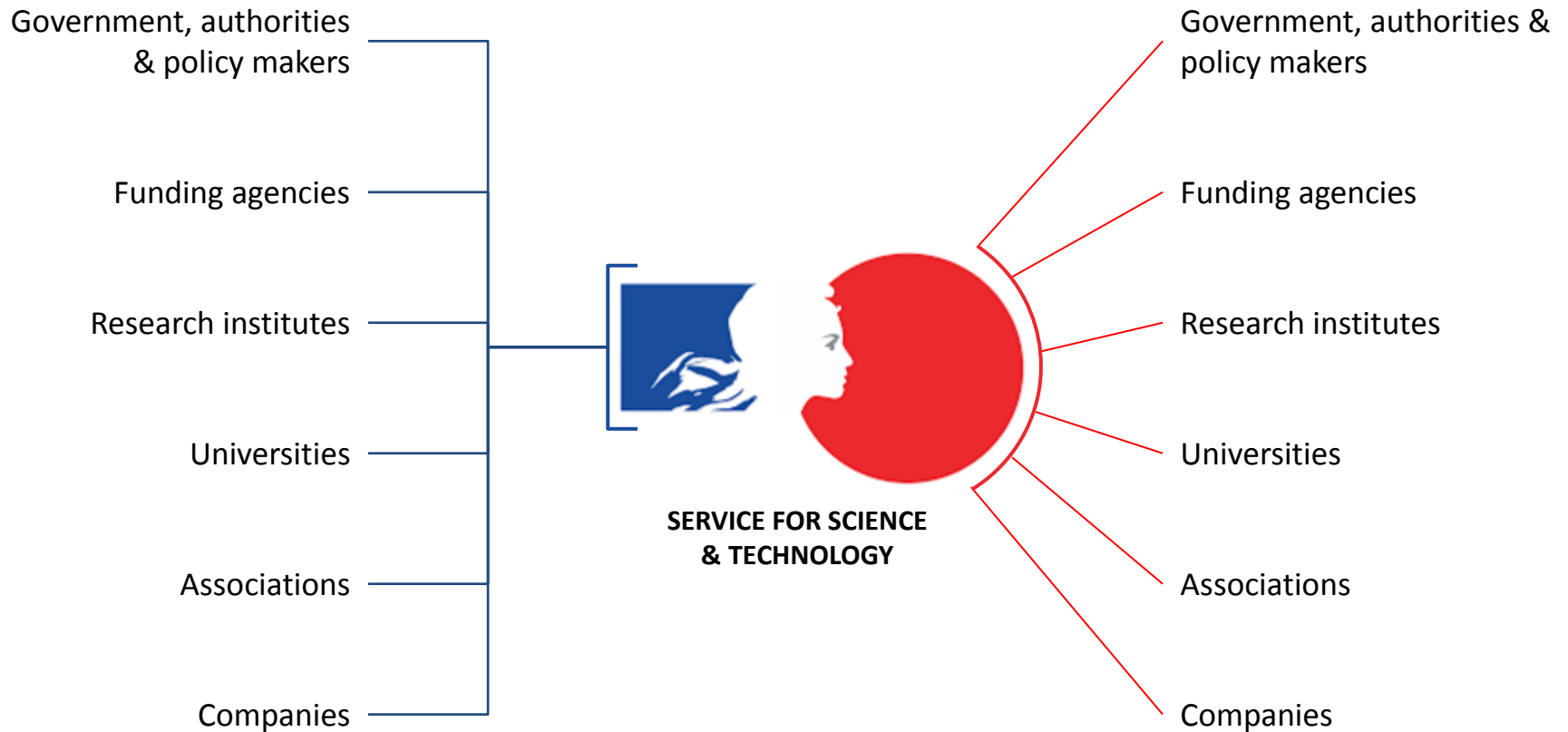
Dr. Sandrine Maximilien, Attachée scientifique
M. Guillaume Barraud, Chargé de mission scientifique

April 24th, 2019



Service for Science & Technology

We aim at being an interface between various players, helping them to understand each other in order to facilitate scientific exchanges



Agenda

- I. Status of French – Japanese scientific collaboration

 - II. Our mission & activities

 - III. Perspectives 2019 & 2020
-

Status of French – Japanese scientific collaboration

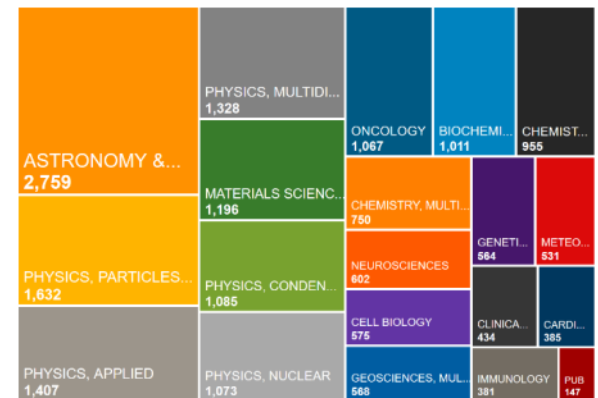
Key figures



Population	67 millions	126 millions
> 65yo	19.6%	27.2%
< 25yo	30.0%	11.0%
GDP per capita (2017, in USD)	38 476	38 428
Unemployment rate (Jan 2019)	~8.8%	~2.4%
R&D budget (%GDP, 2018, OECD)	2.2%	3.2%
French-Japan co-publications over the past decade	~25 000	
Partner rank (based on nb of co-publications)	Japan : 12th	France : 5th

Status of French – Japanese scientific collaboration

- On political level, French and Japanese strategies on Information and Communication Technology have a lot in common
- French-Japanese scientific co-publications are :
 - ❑ Qualitative (co-publications have a high impact indicator)
 - ❑ Opened to public-private collaboration (>10% of all co-publications)
 - ❑ Still too few (Japan is France's 12th partner ; France is Japan' 5th partner)



French – Japanese cooperation domains

- Scientific cooperation through various formats :
 - ❑ Many existing agreements between universities on student mobility
 - ❑ France-Japanese joint laboratories in Japan
- ➔ **Improvements still possible especially regarding the links education-research and public research-private sector**

Japan and France relationship - Research Jointed Units

With CNRS

With Pasteur Institute

Associated teams with INRIA

With Inserm

With INRA

Innovative Catalysts & Processes for Oxidation Reactions, Biomass Conversion, with Hokkaido U.

ELyTMax, Engineering & Science Lyon Tohoku joint laboratory, with Tohoku University, Sendai

Laboratory for Innovative Key Materials & Structures, with St Gobain K.K., at NIMS – Tsukuba
Partnership with industry

Engineering & Science Lyon Tohoku Lab, with Tohoku U.

Joint Robotics Laboratory, with AIST - Tsukuba

Human Protection & Responses to the Disaster, with Doshisha U. & Fukushima U.

3N-Lab: Nanosciences and Energy for the Future, with NIMS

France-Japan Nuclear Structure Problems, with RIKEN

LIA INRA TILTskuba
Plants genomics

France-Japan Particle Physics, with KEK, Tsukuba

Chiral Nanostructures for Photonic Application, with Kyoto U. & Kumamoto U.

Japan-France Laboratory for Informatics, with Tokyo University, Keio University, & Nat. Institute of Informatics

NextPV (Photovoltaic), with Tokyo U.

Univ de Kyoto (Vaccinology)

Laboratory of Integrated Micro-Mechatronic Systems, with Tokyo U – 20th anniversary in 2015
Opening to EU partnership (INCOLAB)

FJ-HLA – Kyoto Immunology

France-Japan Magnetic Fusion Lab, with Kyushu U., Osaka U. & Nat. Institute for Fusion Science

Univ de Tokyo
(Microbiome)

Maison Franco-Japonaise, with French Ministry of Foreign Affairs

Service for Science & Technology

Our mission

- Cross-promotion of French and Japanese science activities and technologies
- Support and development of French-Japanese collaborations in science & technology



Our activities

1. Mobility & collaboration programs



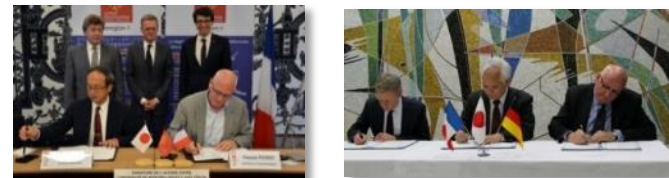
2. Events



3. S&T watch






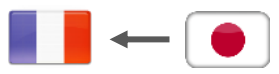

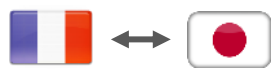


4. Support to S&T collaborations



1. Mobility & collaboration programs

We actively support exchanges of students and researchers between France & Japan through our dedicated programs:

				
Mobility direction				
Objective	<p>Enable the mobility of young Japanese students to a French university / laboratory</p>	<p>Initiate new scientific collaborations through short exploratory visit of Japanese researchers in France</p>	<p>Initiate new scientific collaborations through short exploratory visit of Japanese researchers in France</p>	<p>Develop research collaboration between France and Japan</p>
Who is it for ?	<ul style="list-style-type: none"> • Bachelor's students • Master's students • PhD students 	<ul style="list-style-type: none"> • Researchers / Post-docs 	<ul style="list-style-type: none"> • Researchers / Post-docs 	<ul style="list-style-type: none"> • PhD students • Researchers / Post-docs • Companies

1. Mobility & collaboration programs

We also promote all programs opened to French-Japanese collaboration :

- **ANR/JST CREST Program** : Funding of joint research projects involving French and Japanese teams.
2019 calls on "Symbiotic Interaction" and "Computational Foundation"
Deadline: May 3rd, 2019
- **BPI-France/NEDO** : Joint program for IoT in the next-generation industry
Deadline : April 26th, 2019
- **EIG CONCERT-Japan** : European-Japanese call for projects on « *Smart Water Management for Sustainable Society*”
Deadline: June 14th, 2019
- [...]
- **COMING SOON** : ANR/DFG/JST trilateral call on Artificial Intelligence
To be opened in June 2019



bpifrance

[→ Check our booklet listing all funding schemes](#)



2. Events

We support the creation and the development of strong ties between France and Japan in science and technology through the organization / funding / sponsorship of events

Examples of events organized on digital topics



5G



Big Data



Smart cities



Cybersecurity



AI



HPC

2. Events

Focus on trilateral AI symposium (Nov 2018):

- On November 21th-22nd 2018, a trilateral symposium (Japan-German- French) on Artificial Intelligence was held in Tokyo
- The event was organized by the German Center for Research and Innovation (DWIH/DAAD), and the Embassies of France and Germany in Japan.




Artificial Intelligence –
International Research
and Applications:
1st Japanese-German-French
DWIH Symposium

Key figures :

 **360** participants

 **63** speakers

 **240,000**
impressions on Twitter

 **4+** side meetings
(METI-DFKI+, DFG-JST-ANR, AIST-DFKI, ...)



3. S&T watch

We ensure a follow-up of :

- the latest news about Science & Technology policies in Japan and R&D strategies in all scientific domains
- the latest scientific breakthroughs involving Japan stakeholders and/or Japan-French collaborations

We provide publications through dedicated channels:

Science & Tech news

The screenshot shows the website for the French Embassy in Tokyo. The header includes the French flag and the text 'La France au Japon Ambassade de France à Tokyo'. Below the header are navigation tabs: 'Ambassade', 'Services aux Français', 'Visas pour la France', 'Vivre au Japon', and 'Présence française au Japon'. The main content area is titled 'Science et technologie' and features several news items with small images and text snippets, such as 'Signature d'un accord franco-germano-japonais pour renforcer la recherche trilatérale en intelligence artificielle'.

Thematic reports

The screenshot shows a report cover from the French Embassy in Tokyo. The title is 'La cybersécurité au Japon & coopération scientifique franco-japonaise'. Below the title, it says 'Rapport d'Ambassade' and 'Octobre 2016 version 3.0'. The report is edited by Yan-Taric Clochard and Evelyne Etchebéhère. The cover features the French flag and the text 'REPUBLICQUE FRANÇAISE Ambassade de France au Japon service pour la science et la Technologie'.

Science & Tech market watch

The screenshot shows the 'France Diplomatie' website. The header includes the French flag and the text 'France Diplomatie'. Below the header, there is a navigation bar with 'Accueil', 'Politique étrangère de la France', 'Diplomatie scientifique', 'Veille scientifique et technologique', and 'Japon'. The main content area is titled 'Japon' and features a large image of a person working in a laboratory. Below the image, there is a section titled 'Veille scientifique et technologique du Japon.' and a link to 'Retrouvez toutes les informations concernant le réseau diplomatique au Japon sur le site web de l'ambassade'. There is also a section for 'DERNIÈRES ACTUALITÉS' with a news item about micro-waves replacing X-rays for mammography.

4. Support to Science & Technology collaborations

Finally, we basically support all kind of scientific cooperation between French and Japanese counterparts

- Support to French and Japanese entities for specific requests:
 - ❑ Identification of the most suitable partners in the other country
 - ❑ Initiation and follow-up of bilateral cooperation
 - ❑ ...

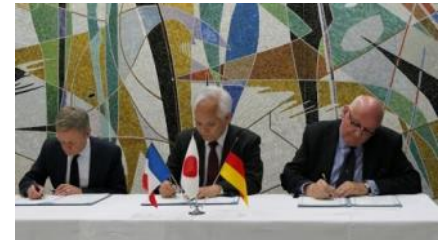
- Facilitate relationships between academia and industrials through the « Club R&D » network

- Identify trending topics with huge potential for French-Japanese collaboration

- Organize missions for French officials visiting Japan

- Stay informed about Japanese R&D environment by visiting scientific institutes/locations and attending to scientific events in Japan

- ...



Perspectives 2019-2020

Events to come this year on digital topics :

Date	Topic	Location
April 23rd-25th	5th Japan-France Cybersecurity workshop	Kyoto University
June 3rd-6th	IRIXYS Summer school : 3rd edition on « Transfer Learning »	Passau
June 29th	Debate « From repaired humans to augmented humans »	Tokyo University
October 24th	AI & SDGs	German Cultural Center Tokyo
Nov. 6th- 8th	3rd Japan-France HPC workshop « HPC and Big Data for intelligent applications »	French Embassy in Tokyo
December	AI & Healthcare	German Cultural Center, Tokyo
Fall 2020	French German Japanese trilateral AI Symposium – 2 nd Edition	TBD

Perspectives 2019-2020

French-Japanese collaboration on science & technology topics feeds wider discussions

- French-Japanese political dialog on cybersecurity – in France, date TBC
 - G20 Summit - Osaka (june 28th-29th)
 - G7 Summit - Biarritz (august 25th-27th)
 - Global Forum on Artificial Intelligence for Humanity - Paris, end of October 2019
 - Japanese-French scientific joint committee (COMIX) – Paris, end of 2019
 - Worldwide sports events (Olympic & Paralympic Games, Rugby world Cup)
-

How can we help you ?

“Digital, Materials and Engineering science” pole



Sandrine Maximilien

Attachée

sandrine.maximilien [at]
diplomatie.gouv.fr

Tél. : +(81)-(0)3-5798-6043



Guillaume BARRAUD

Chargé de mission

guillaume.barraud [at]
diplomatie.gouv.fr

Tél. : +(81)-(0)3-5798-6045



Ikuyo Matsumoto

Assistante

ikuyo.matsumoto [at]
diplomatie.gouv.fr

Tél. : +(81)-(0)3-5798-6044



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Conclusion/Questions

