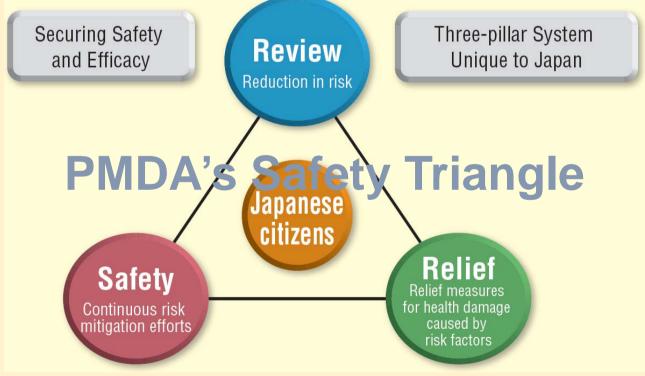


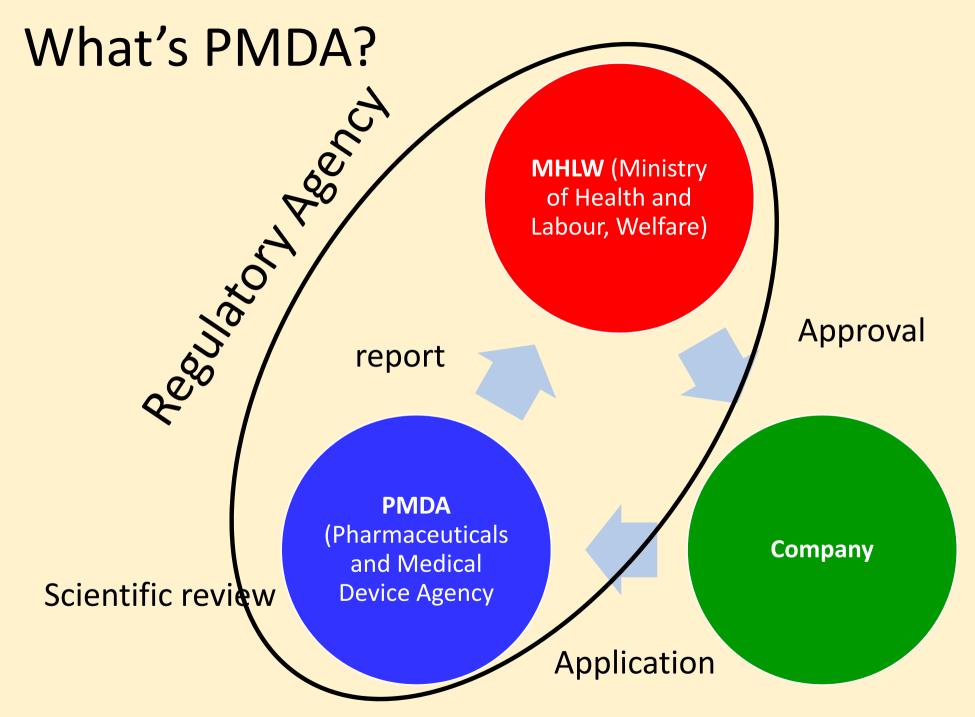
#### Introduction of PMDA



## Pharmaceuticals and Medical Devices Agency (PMDA)

an Incorporated Administrative Agency (IAA)





Incorporated administrative agency

### **Shared Responsibilities**

#### [MHLW] (Ministry of Health, Labor and Welfare)

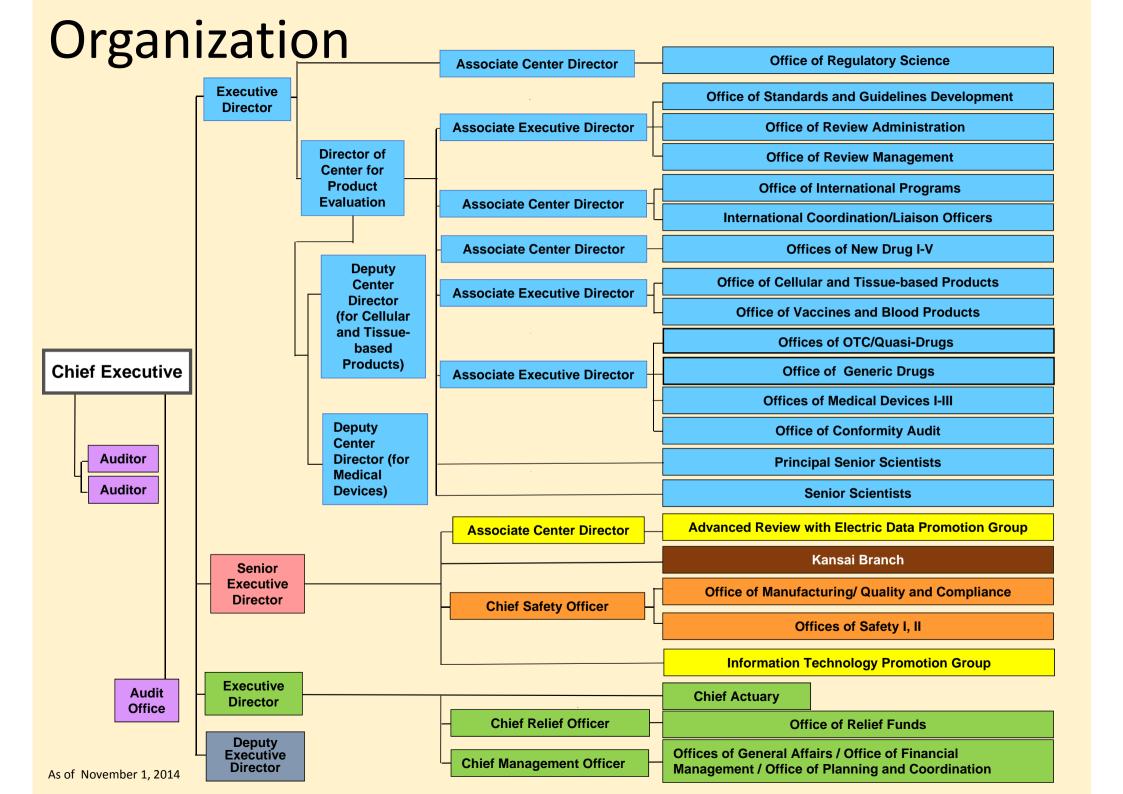
Ultimate Responsibilities in policies & administrative measures

- ex. Final judgment on approval
  - Product withdrawal from market

#### [PMDA]

Actual review, examination, data analysis, etc. to assist MHLW'S measures

- ex. Approval Review of MDs
  - QMS/GLP/GCP inspection
  - Collection and analysis of Adverse Event Reports



## Overview of Medical Device Regulation

Classification	Class I	Class II	Class III	Class IV	
Extremely low risk Low		Low risk	Medium risk	High risk	
Example	X-Ray film	MRI	Dialyzer, Artificial bone	Pacemaker, Artificial heart valve	
Category	General MDs	Controlled MDs	Specially control	led MDs	
Review regulation	Self-declaration	Third party Minister's appro- certification review)		val (PMDA's	
Post-market safety vigilance/surveillance	PMDA and MHLW Re-examination for Brand New MDs, Re-evaluation, AE reporting, Researches, etc.				

#### Medical Devices Regulation







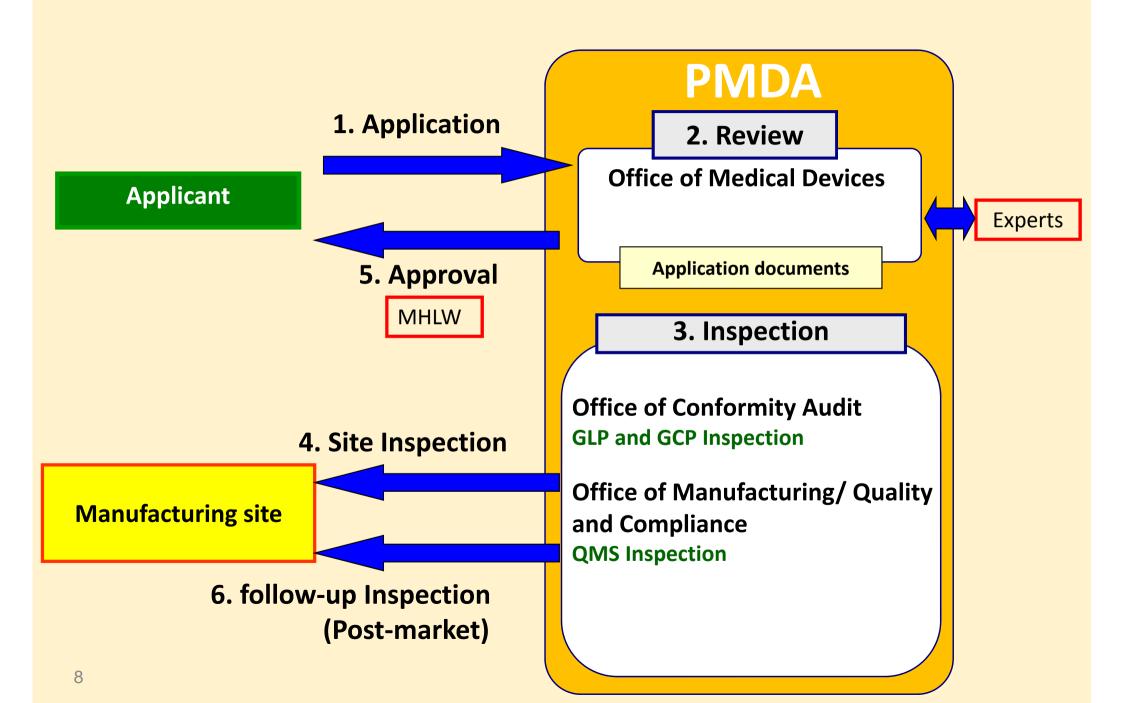
EU	Japan	US	
Pre-market review			
Notified body certification (requirements depend on device classification)	Class III, IV: Minister's approval	Class III: PMA Approval	
	Class II: Notified body certification	Class II: 510(k) clearance,	
	Class I: Self-declaration	Class I: exemption	

Governmental approval/license

Notified body review/certification

Self declaration/exemption

### Overview of review process



### Medical Device Marketing Regulation in Japan

#### Marketing Regulation

## License for Manufacturing (Accreditation for Foreign Manufacturers)

- Standards of buildings and facilities
- Obligation of QMS regulation compliance

#### **License for Marketing**

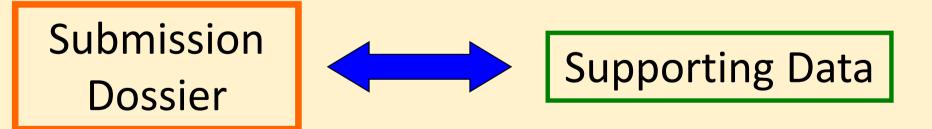
- •GQP (Good Quality System)
- •GVP (Good Vigilance Practice)

#### **Marketing Approval**

- Review of quality, efficacy and safety
- Compliance with QMS regulation on each manufacturing site

### Application document

- Submission Dossier
- STED (\*Summary Technical Documentation, GHTF SG1N11)
- Supporting Data
- Reference Data



Identification of application items

Justifying data

#### Submission Dossier and Supporting Data

**Submission Dossier** 

**Supporting Data** 

- Category
- Designation
- > Purpose of use, indication
- > Shape, structure and principles
- Raw materials or component parts
- > Specification of the device
- ➤ Method of operation or usage
- > Manufacturing method
- Storage and expiry date
- ➤ Manufacturers of items for production and distribution
- > Manufacturer of raw materials
- Remarks

**Efficacy** 

Safety

Quality

Identification of application items

Justifying data

#### Pre-market review

**Essential Principles** 

**Conformity Assessment** 



- Standards
- Device Specification
- Design Control
- Design verification and validation
- •Clinical Evidence
- •STED
- Declaration of conformity

**Risk < Benefit** 

Then,

On the Market

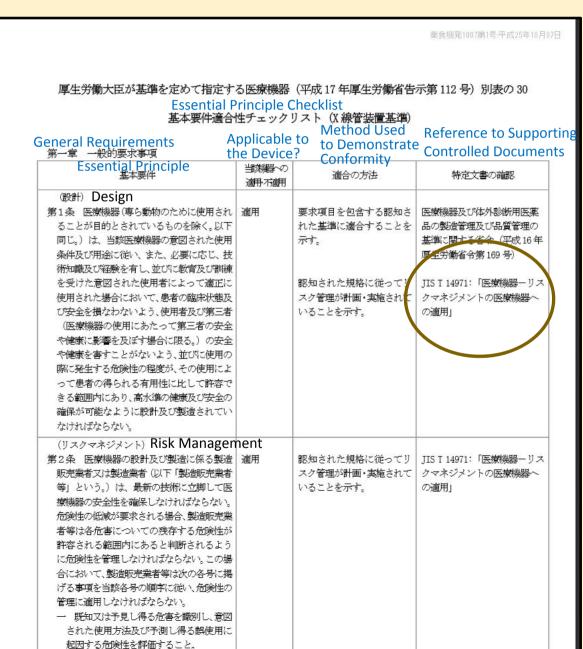


## Approval/Certification Standards

Class	Japanese Medical Device Nomenclature (JMDN)	
Class I	1,195	
Class II	1,800	Certification Standards: 827 (JMDN: 1369)
Class III	756	Approval Standards:
Class IV	343	44 (JMDN: 90)
Total	4,094	

# Essential Principle Checklist for Approval/Certification Standards

- Clearly showing requirements for the products in individual standards
- JIS standards are referred but most JIS standards are basically harmonized with ISO, IEC etc standards
- Products which doesn't meet standards can be reviewed via other review process



### Acceptance of Foreign Clinical Data

 MHLW/PMDA have accepted foreign clinical data for years if it is good enough to evaluate a device's clinical safety and efficacy on Japanese population under Japanese medical practice/environment.

#### Number of devices approved after review with clinical trial data

	FY2009	FY2010	FY2011	FY2012	FY2013
Foreign clinical study results	32	29	38	23	34
Domestic and foreign clinical study results	6	2	5	3	8
Domestic clinical study results	14	19	14	23	24

\*Source: PMDA annual report FY2013.

# Action Program for Acceleration of Medical Device Reviews (issued in Dec. 2008)

MHLW / PMDA will accelerate the Medical Device review processes and reduce total review time\* for approval,

- on the premise of ensuring quality, efficacy, and safety of medical devices
- paying due consideration to minimize burdens to applicants
- under combined efforts by both the regulatory side and the applicants side
- by taking scientific and reasonable measures

#### Action program for Acceleration of Medical Device Reviews

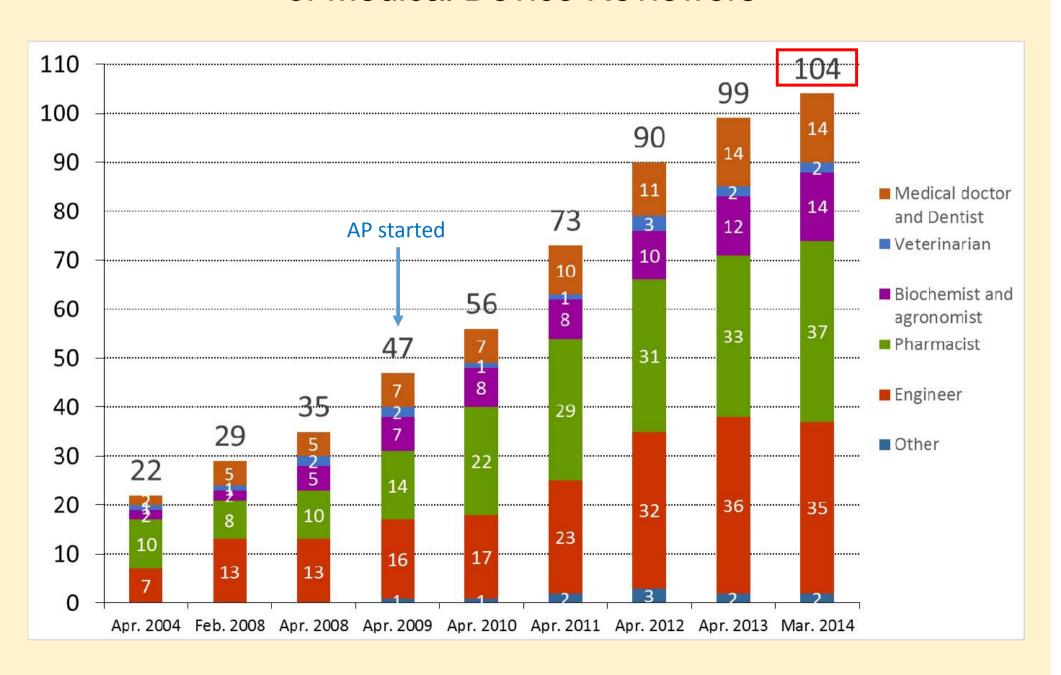
	FY2009	FY2010	FY2011	FY2012	FY2013			
Improve quality by increasing								
the number of staff and	Increase staff 35 → 104 (FY2013)							
enhancing training								
Introduce 3-Track system								
·		3-track Review Sy			/stem			
Clarify ravious aritaria								
Clarify review criteria	Formulate Approval standards/ Good Review Guideline							
Set review time goals	<ul> <li>New Medical Devices (Standard 14 mos. Priority 10 mos.)</li> <li>Improved MD with clinical data: 10 mos.         w/o clinical data: 6 mos.</li> <li>Generic MD 4 mos. (FY2013)</li> </ul>							
Full transition to Third-party								
Certificate of class II Medical	Transit by FY	2011						
Devices								
Progress management	Governn	 nent & Industi	y Dialogue 2/	 year(from FY	2009)			

#### Performance Goal of the Time Period of Review

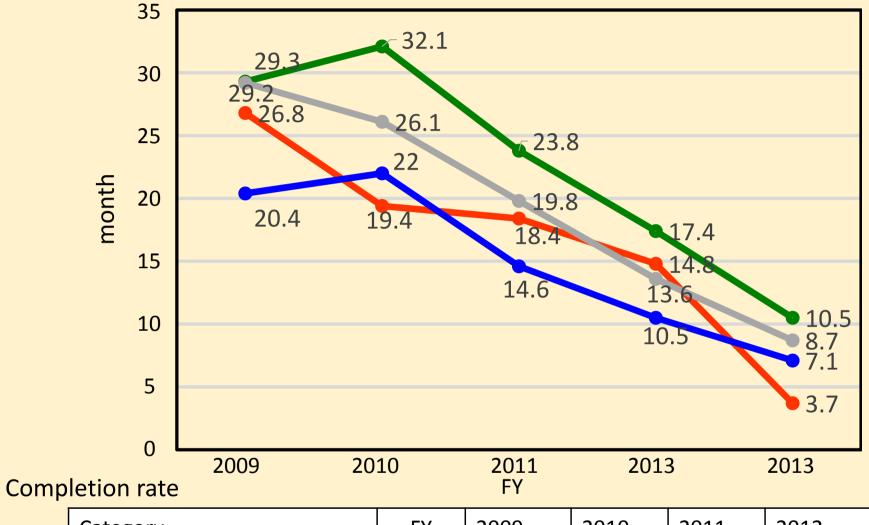
With combined efforts by both regulatory & applicants, total review time should be reduced to the below goal:

Performance Goal: total review time (median, unit: months)		~ FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	
Standard	total time	~ 21	21	21	20	17	14	
	Standard items	for agency	~ 8	8	8	8	7	7
New MD		for applicant	~ 14	14	14	12	10	7
(Shin)	D. C. C.	total time	~ 16	16	16	15	13	10
(31111)	Priority items	for agency	~ 9	8	8	7	7	6
	ittorii o	for applicant	~ 9	9	9	8	6	4
	with clinical data	total time	~ 16	16	16	14	12	10
		for agency	~ 9	8	8	7	7	6
Improved   MD		for applicant	~ 7	7	7	6	5	4
(Kairyo)		total time	~ 11	11	11	10	9	6
(Rail yo)	w/o clinical data	for agency	~ 6	6	6	6	5	4
	data	for applicant	~ 5	5	5	5	4	2
Gener	Generic MD (Kohatsu)		~ 8	8	6	5	4	4
			~ 5	5	4	4	3	3
(with specific criteria)		for applicant	~ 3	3	2	1	1	1

## Quantitative Increase and Background of Medical Device Reviewers

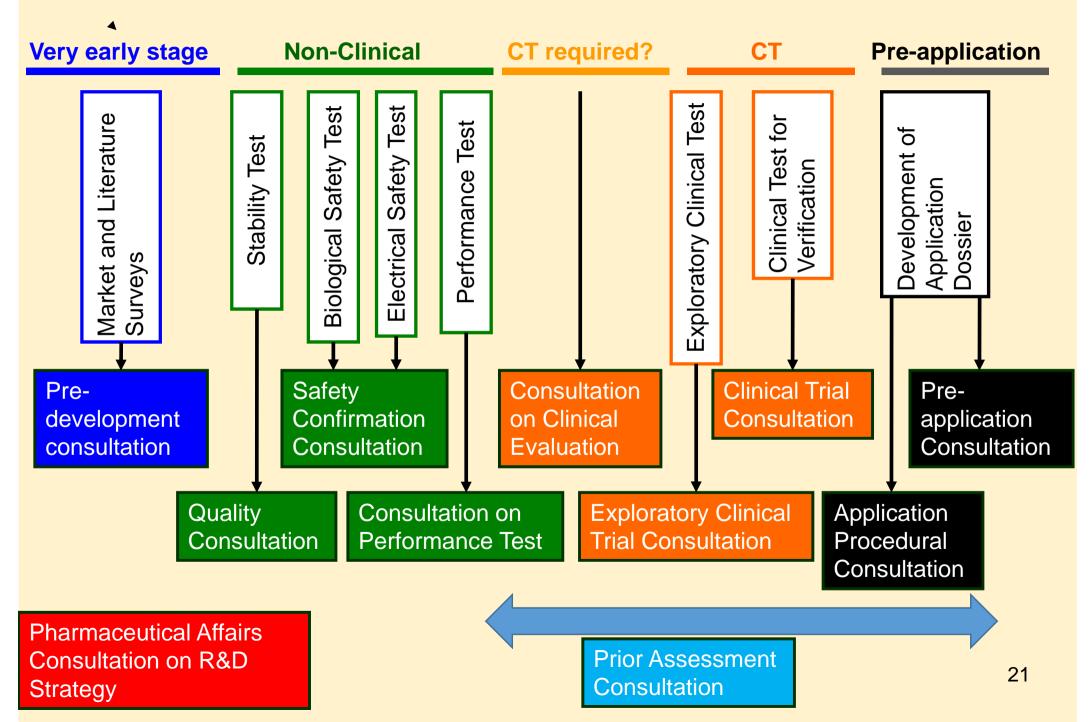


## 90% Tile Review Times for Medical Devices (Total time in submission cohort)

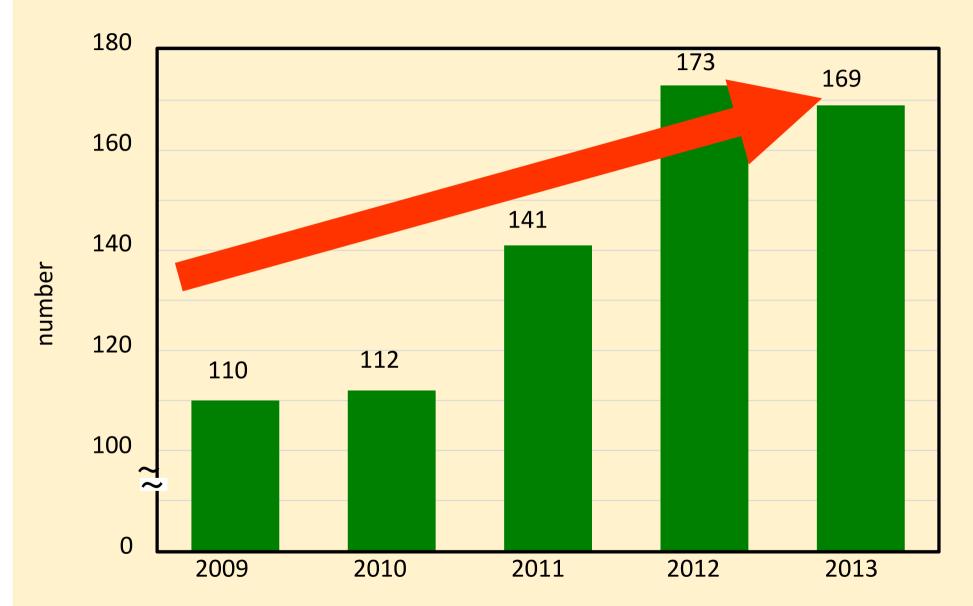


Category	FY	2009	2010	2011	2012	2013
New		100%	92.0%	95.2%	96.3%	46.9%
Improved (w clinical data)		100%	96.1%	96.0%	100%	75.0%
Improved (w/o clinical data)		100%	95.7%	94.2%	88.9%	44.8%
Generic		98.4%	96.2%	97.2%	95.6%	63.9%

#### PMDA's Consultation Menu



#### Number of consultations for Medical Devices



# Collaboration Plan for Acceleration of Medical Device Review (FY2014~FY2018)

(issued on Mar. 31, 2014)

Quality concerns in the review process of medical devices need to be improved by both administration and applicants, and both parties should work together towards the following measures to further shorten the period required for approval of medical devices and to promote standardization.

- 1. <u>Initiatives for quality enhancement during review</u> process
- 2. Establishment of regular review periods
- 3. Progress management, etc.

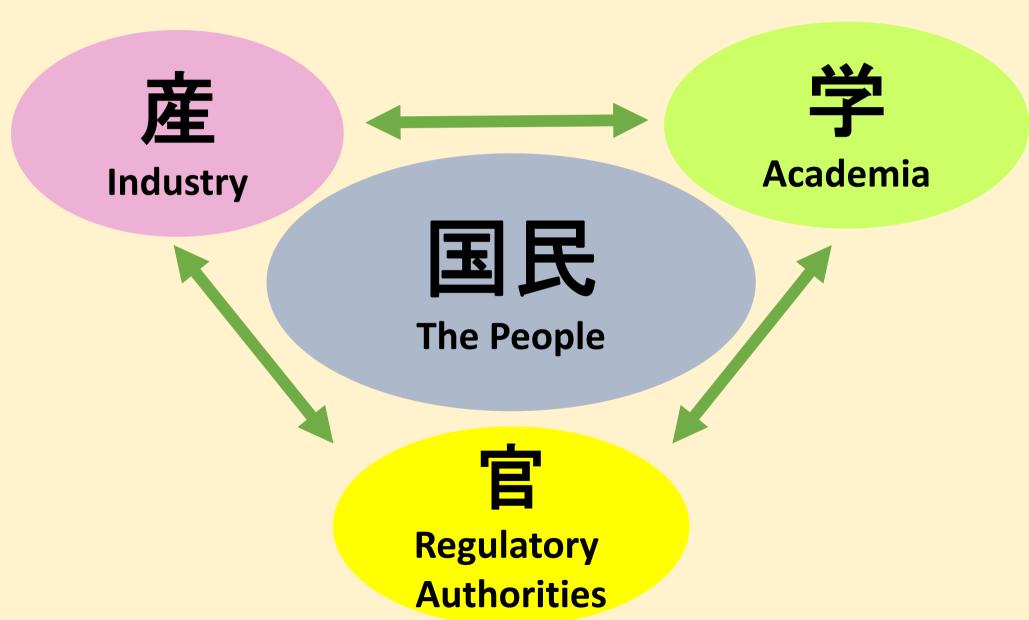
# New Performance Goal towards FY2018\*

(Total Time)

- New Medical Device
  - Standard items: 12 months
  - Priority items: 9 months
- Improved Medical Device
  - With clinical data: 9 months
  - Without clinical data: 7 months
- Generic Medical Device
  - New application: 5 months
  - Partial change application: 4 months

<sup>\*</sup> In order to set higher target, 80 percentile figures are adopted instead of median

# Industry-Government-Academia: National Obligation and Accountable Collaboration

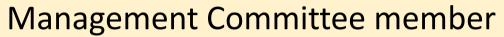


#### **IMDRF**



#### International Medical Device Regulators Forum

Established in October 2011





Founding member of GHTF

Brazil China Russia





Life Science Innovation Forum



Asian Harmonization Working Party working towards medical device harmonization in asia



## 2nd PMDA MD training seminar

(regulators only)

Date: February 2 − 6, 2015

Venue: PMDA (Tokyo, JAPAN)

• Fee: Free

Topics

✓ Pre-market review

**✓** QMS

✓ Clinical trials

✓ Case study

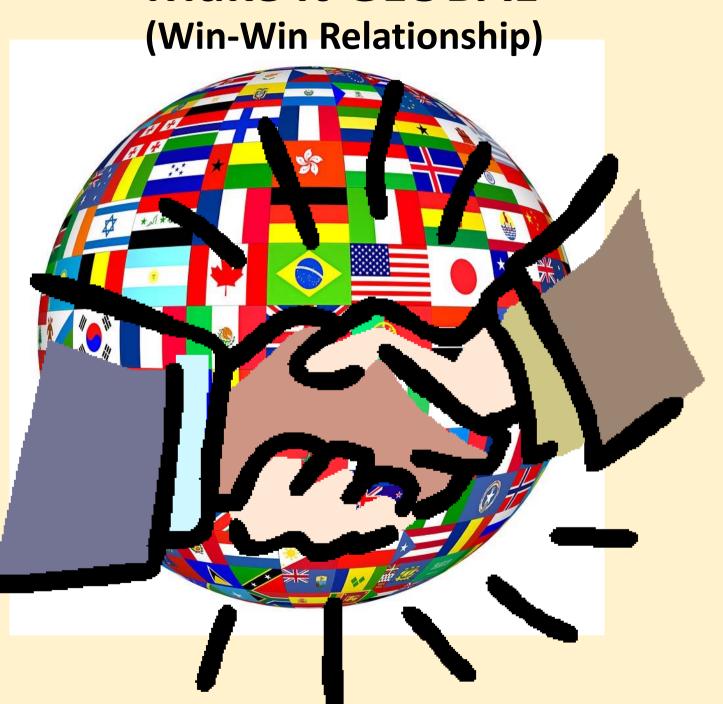
✓ Post-market surveillance system

√ Facility Tour

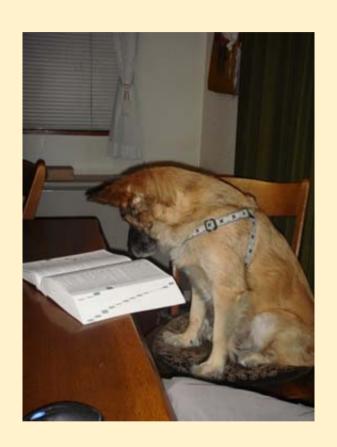
1st PMDA MD Training Seminar 2014



## Make it GLOBAL



### Any questions?





**Contact Information** 

URL: http://www.pmda.go.jp/english/contact/index.html

## Thank you!!



http://www.pmda.go.jp/english/

