

Expedited Review Mechanism and Timeline in Taiwan

Section Chief, Division of
Medicinal Products, Taiwan
Food and Drug Administration
Sep. 21, 2017



衛生福利部
食品藥物管理署
Food and Drug Administration

<http://www.fda.gov.tw/>

Outlines

01

Introduction of TFDA

02

IND Application and Approval Process

03

NDA Application and Approval Process

04

Future Prospects

Establishment of TFDA

2013

2013.07.23 TFDA Elevation (食品藥物管理署)

The Ministry of Health and Welfare (MOHW) was restructured from the Department of Health (DOH).

2010

2010.01.01 TFDA Inauguration (食品藥物管理局)

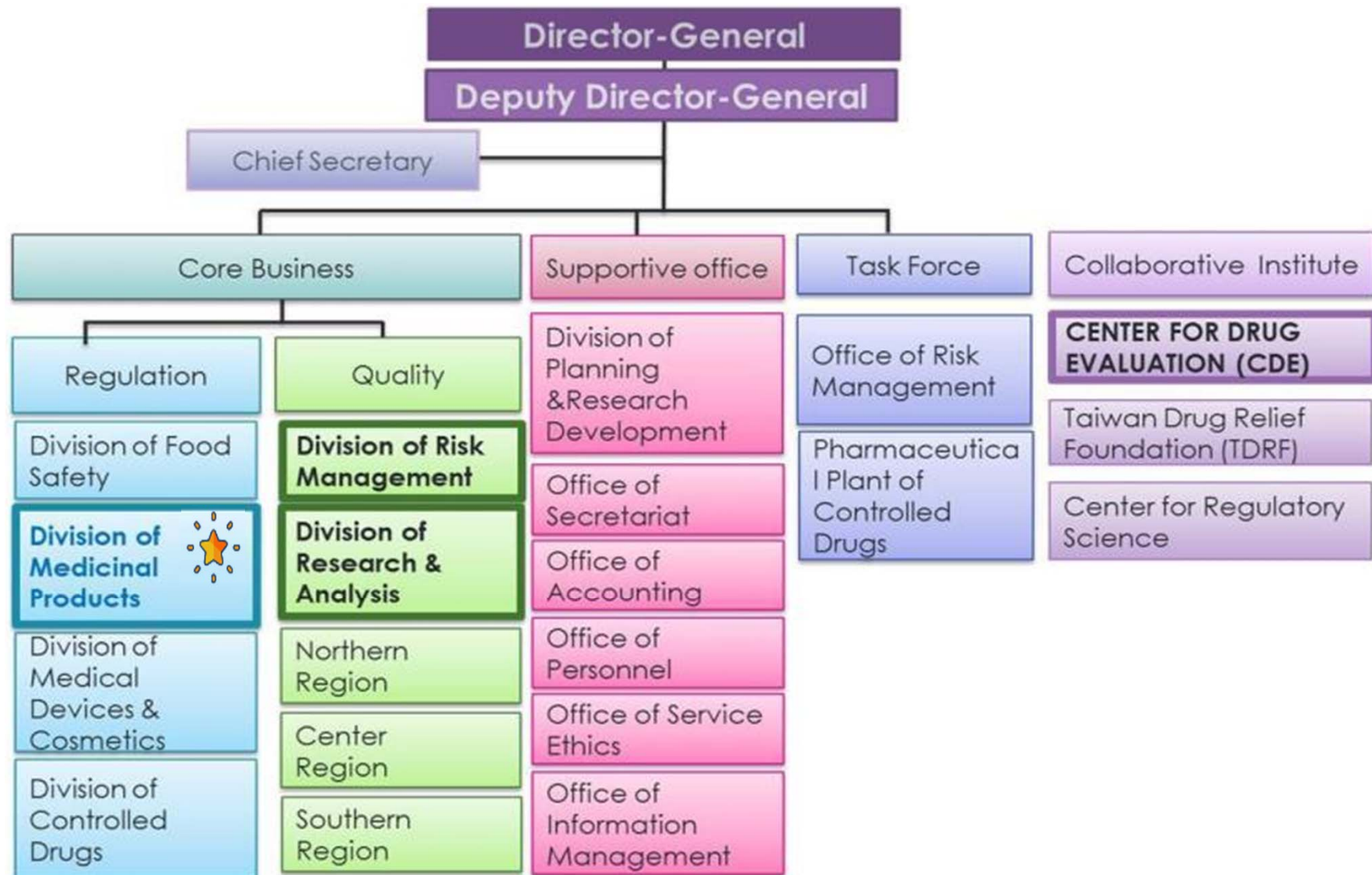
Integration of 4 bureaus:

- Food Safety (食品處)
- Pharmaceutical Affairs (藥政處)
- Food & Drug Analysis (食品藥物檢驗局)
- Controlled Drugs (管制藥品管理局)



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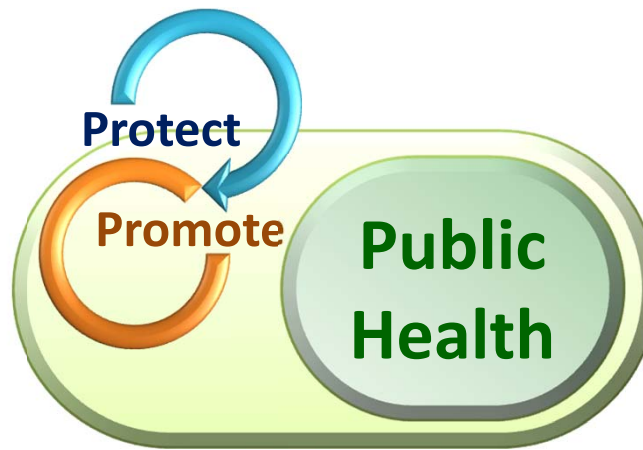
TFDA Organization Chart



Mission of Regulatory Agents

Protect

Assure Quality,
Safety, Efficacy
of Medicinal
Products



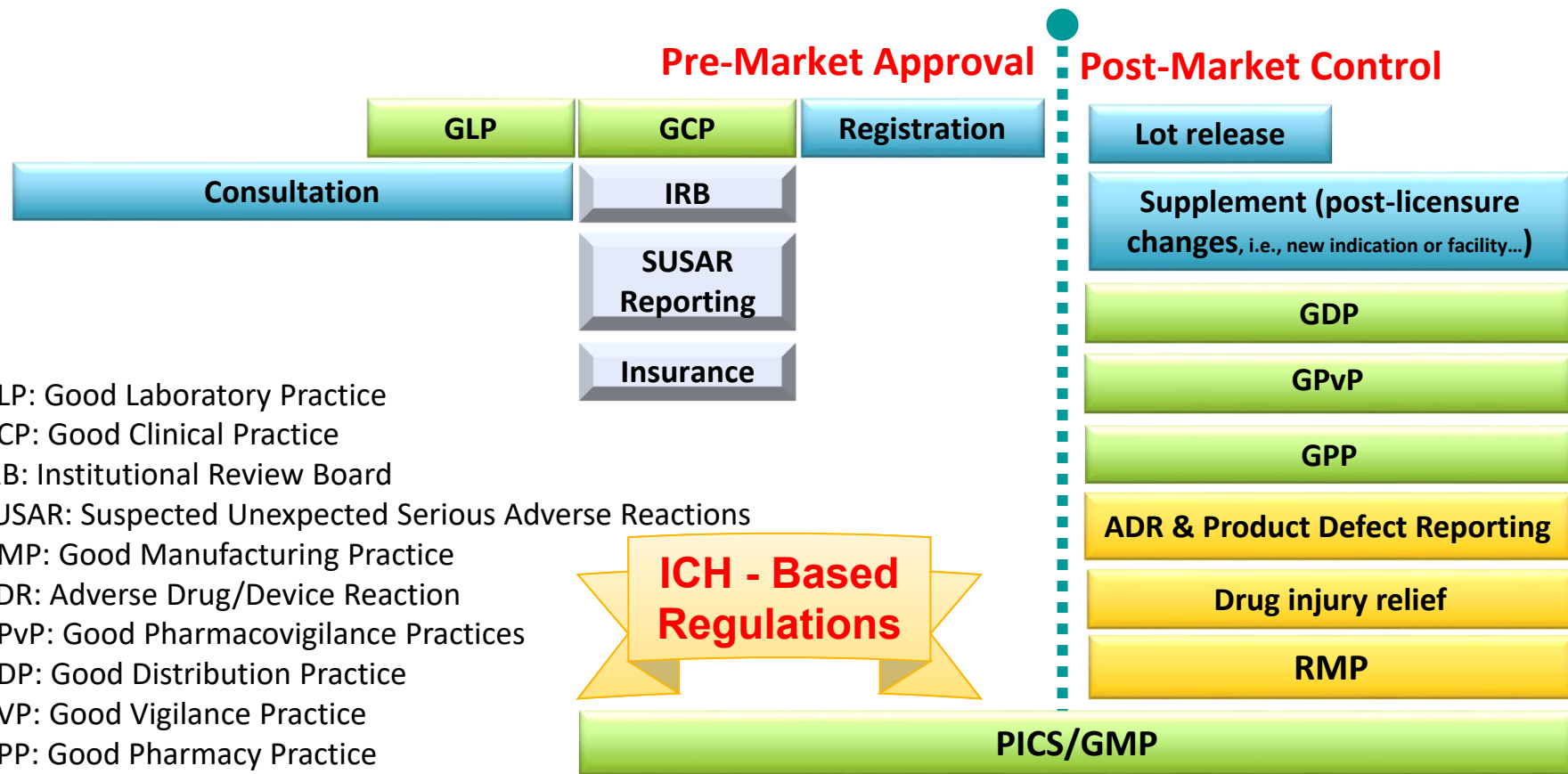
Promote

Facilitate the
Development of
Innovative Medicine
and Speed Drug
Accessibility



Profession Service Quality Innovation

Life Cycle Management



GLP: Good Laboratory Practice

GCP: Good Clinical Practice

IRB: Institutional Review Board

SUSAR: Suspected Unexpected Serious Adverse Reactions

GMP: Good Manufacturing Practice

ADR: Adverse Drug/Device Reaction

GPvP: Good Pharmacovigilance Practices

GDP: Good Distribution Practice

GVP: Good Vigilance Practice

GPP: Good Pharmacy Practice

RMP: Risk management plan

ICH - Based Regulations



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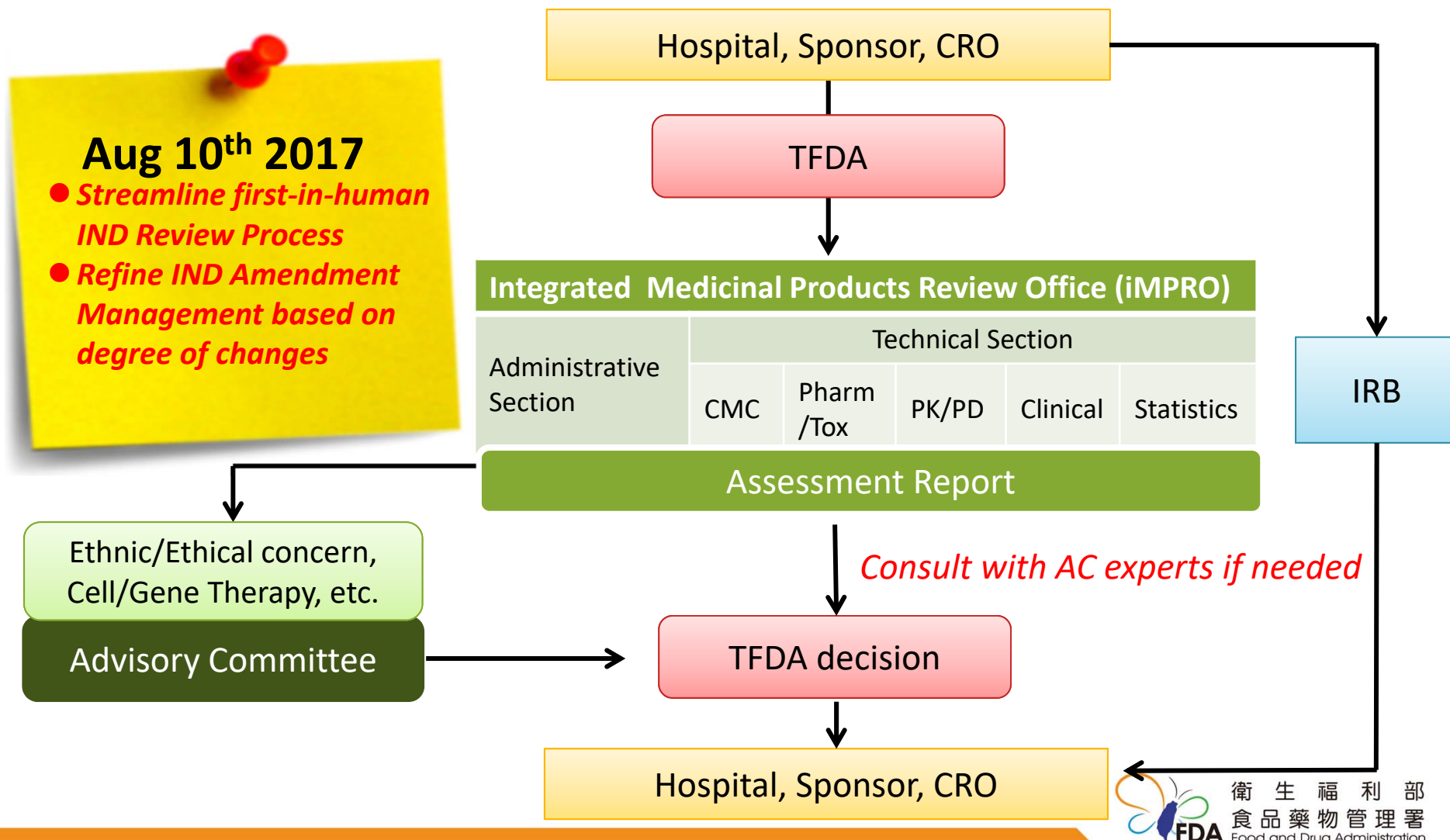
NDA Application and Approval Process

04

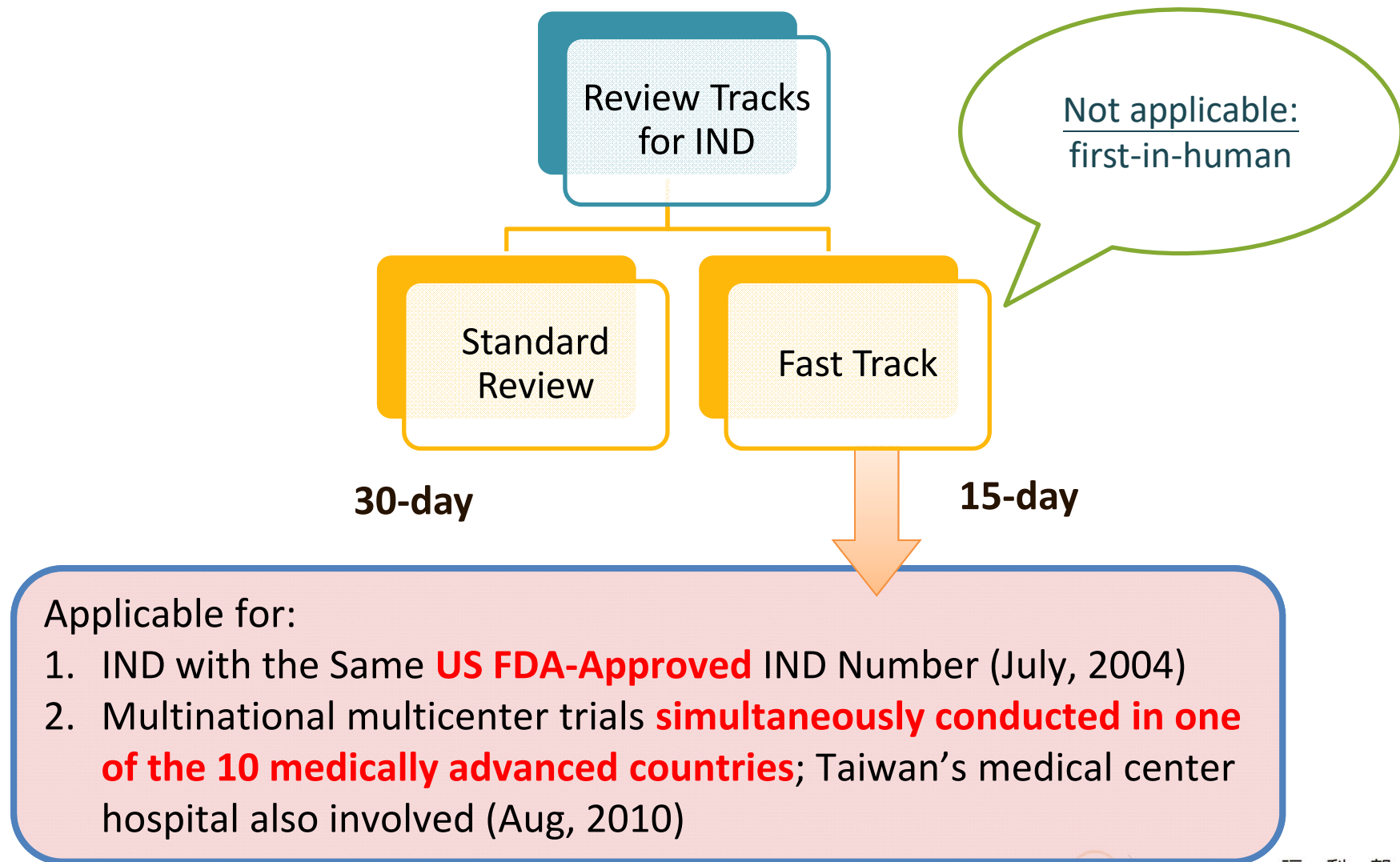
Future Prospects

Review Process for Clinical Trial (IND) Applications

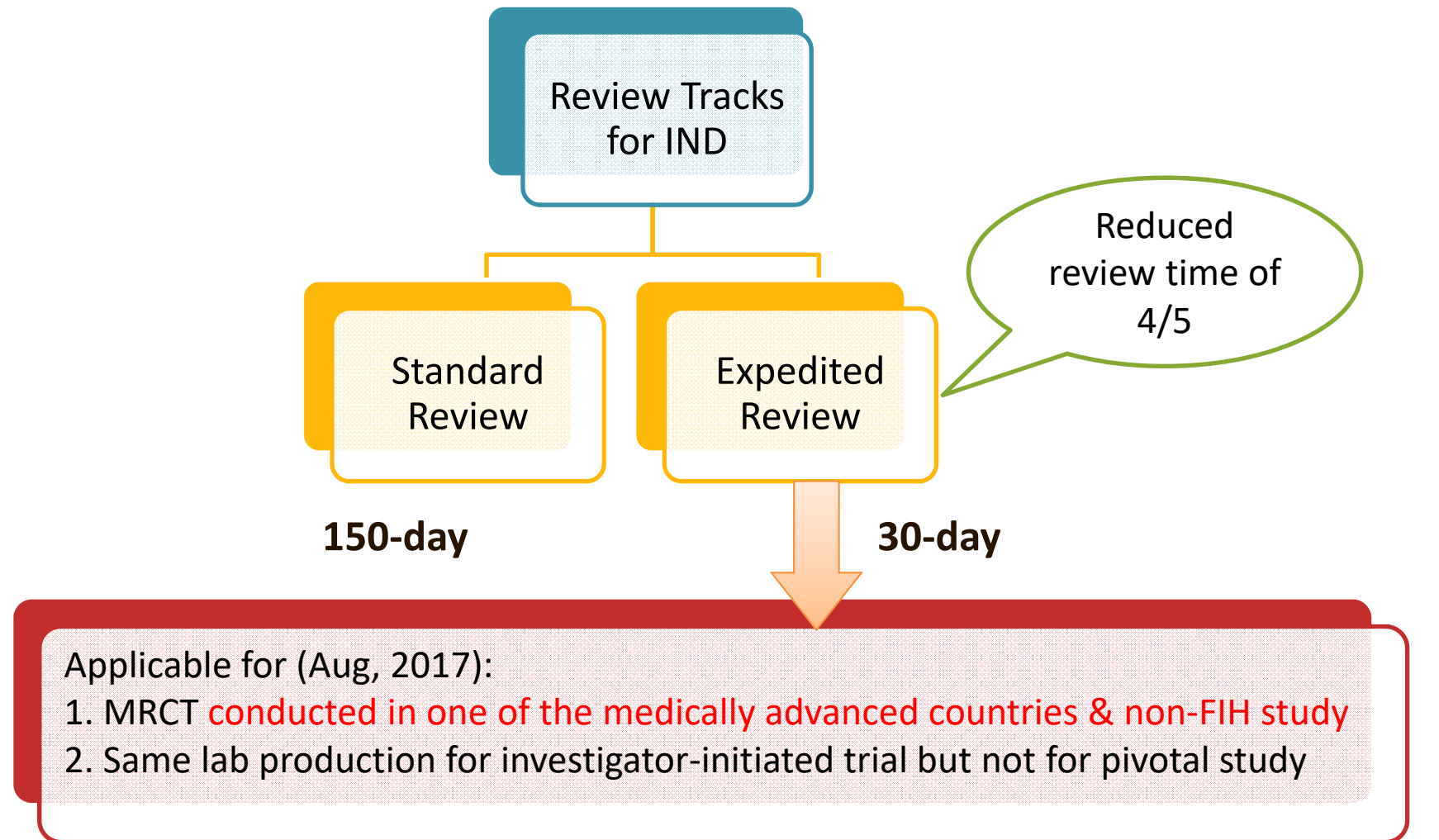
A standard review process: 30 calendar days



Enhance IND Review Efficacy-Fast Tract Review for Pharmaceutical Product

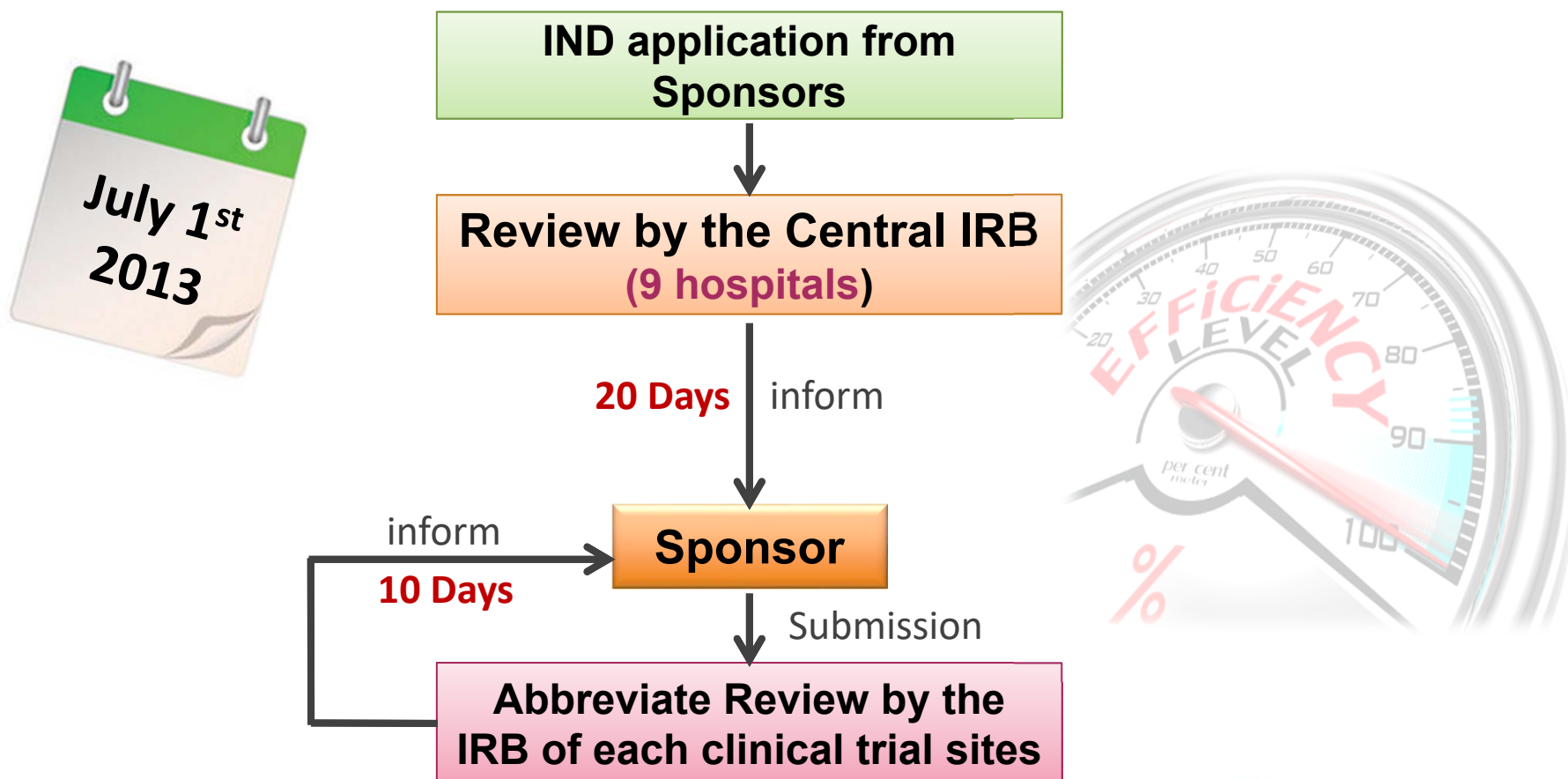


Enhance IND Review Efficacy- Expedited Review for Cell/Gene Therapy

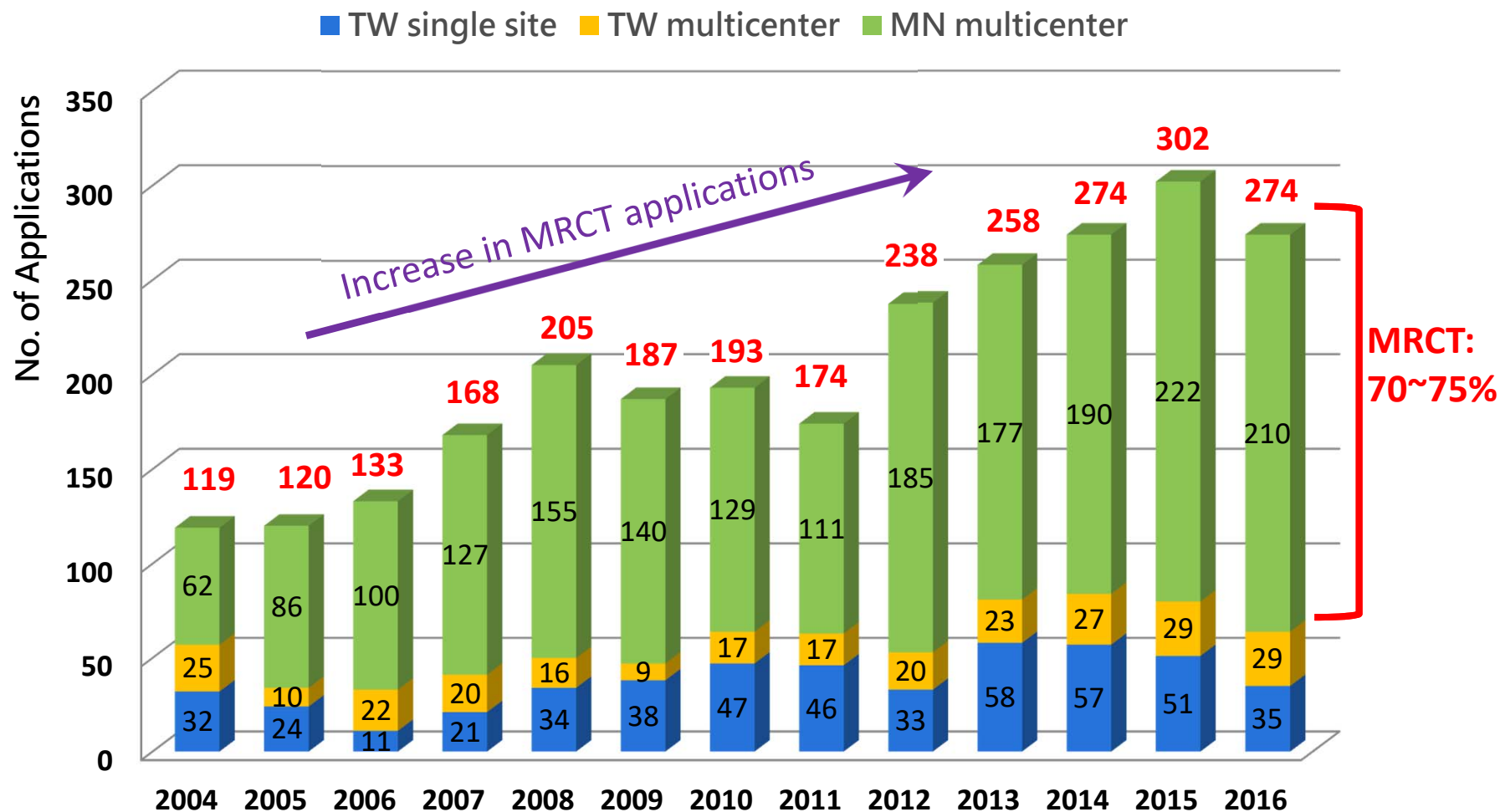


Enhance IND Review Efficiency- central IRB system

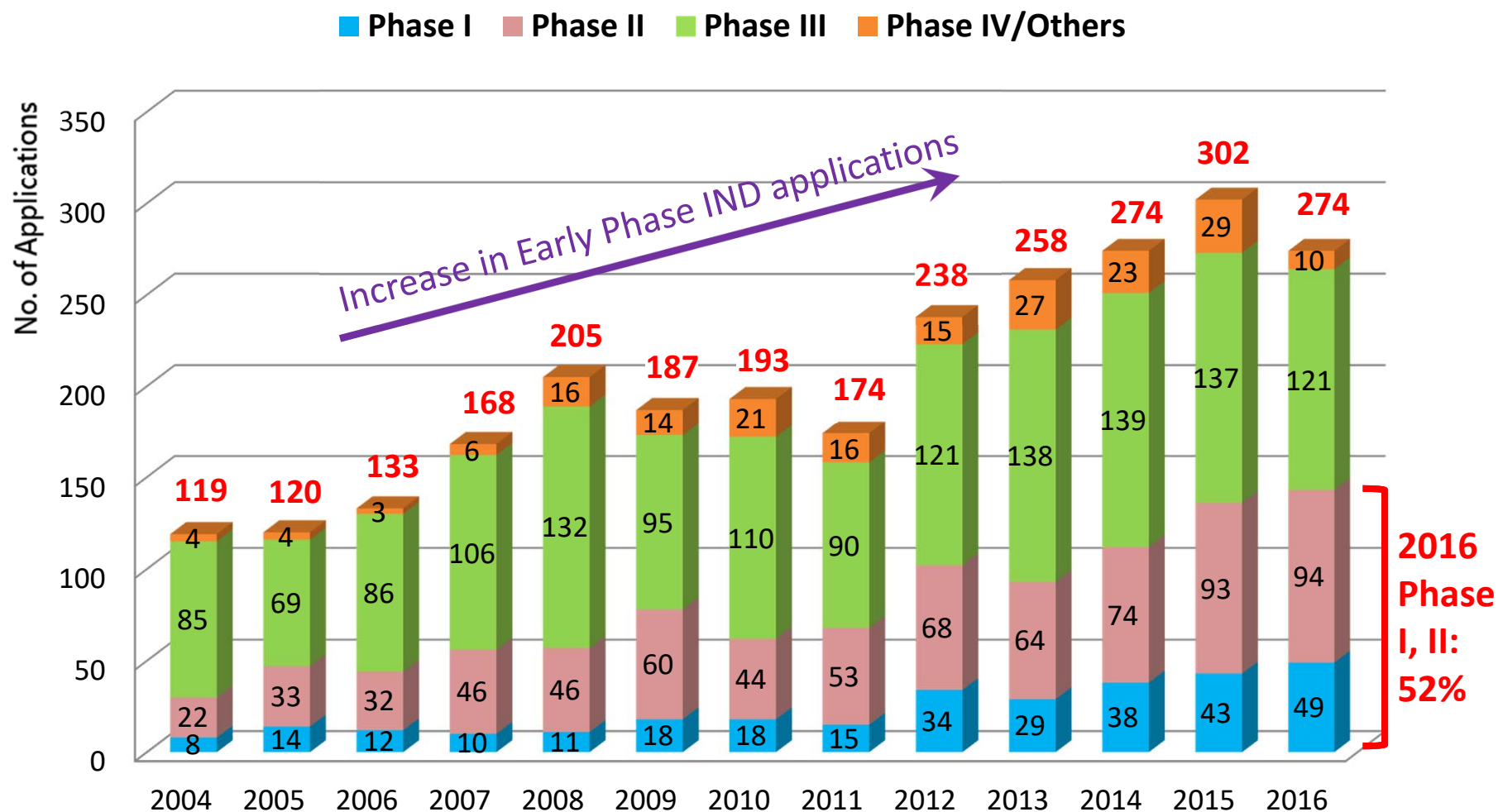
To control IRB review time and synchronize the trial schedule in multiple sites.



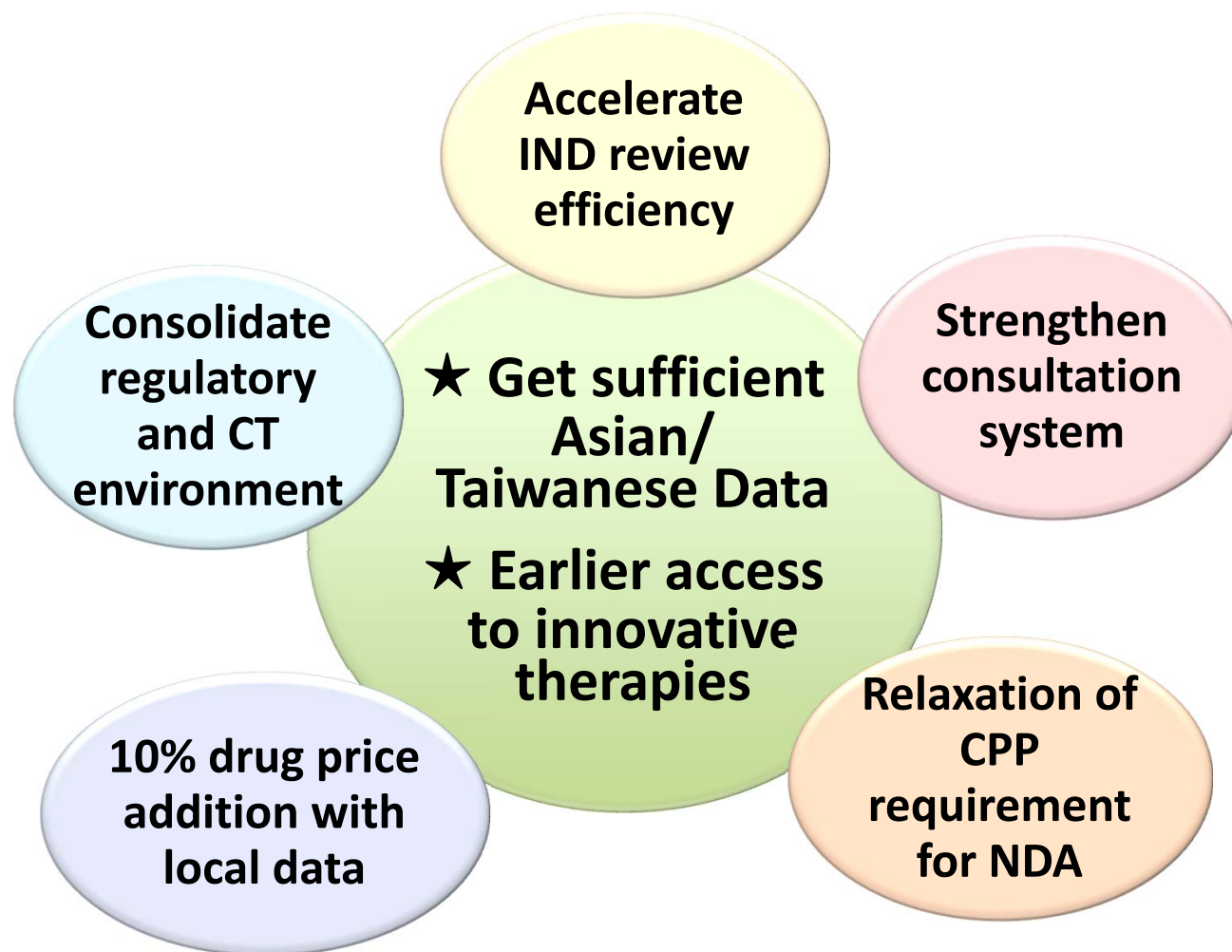
IND Applications in Taiwan by Local/MRCT Type



IND Applications in Taiwan by Study Phases



Strategies to encourage Multi-Regional Clinical Trials (MRCT) and Early Phase Trials in Taiwan



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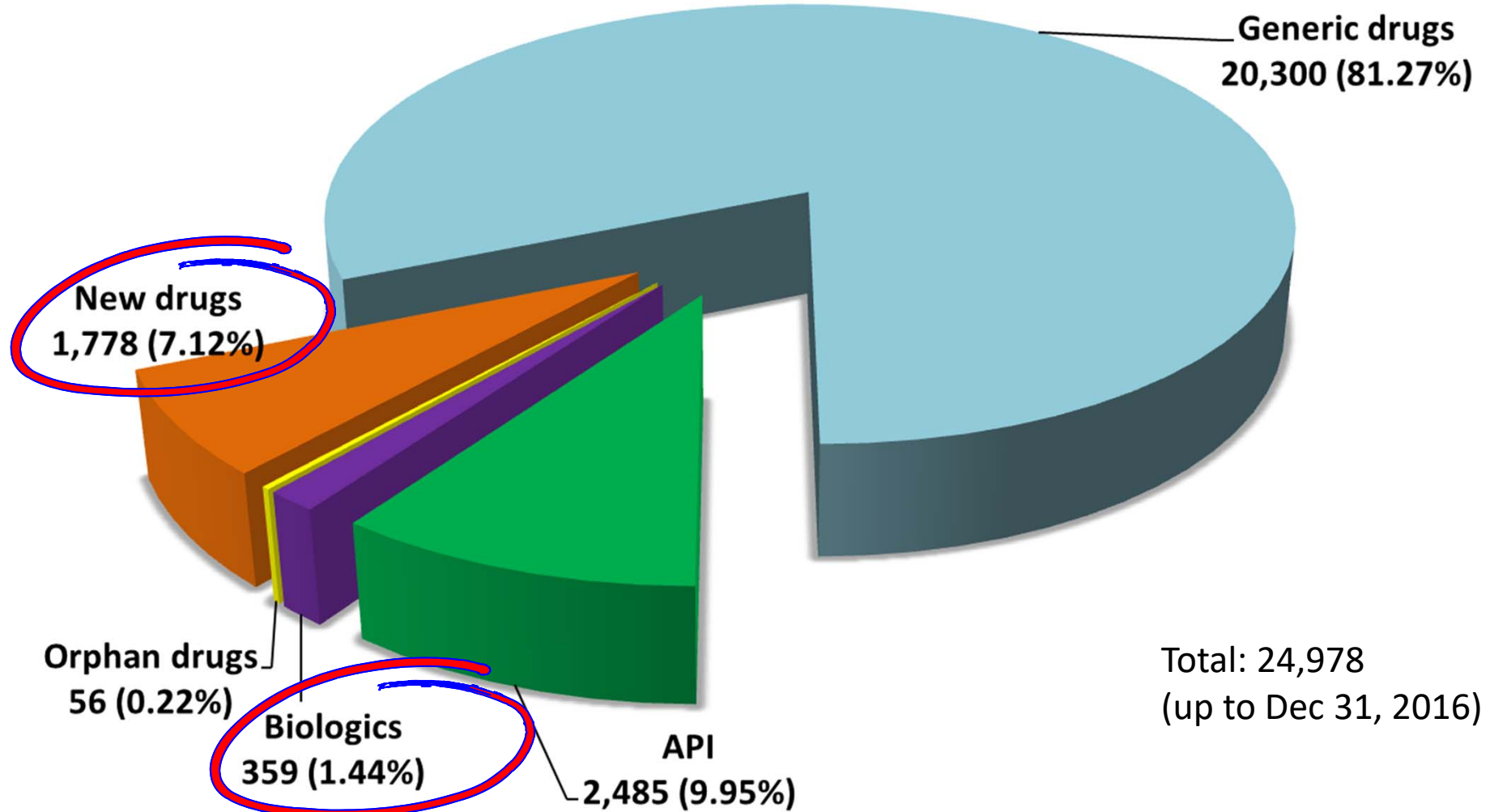
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NDA Application and Approval Process

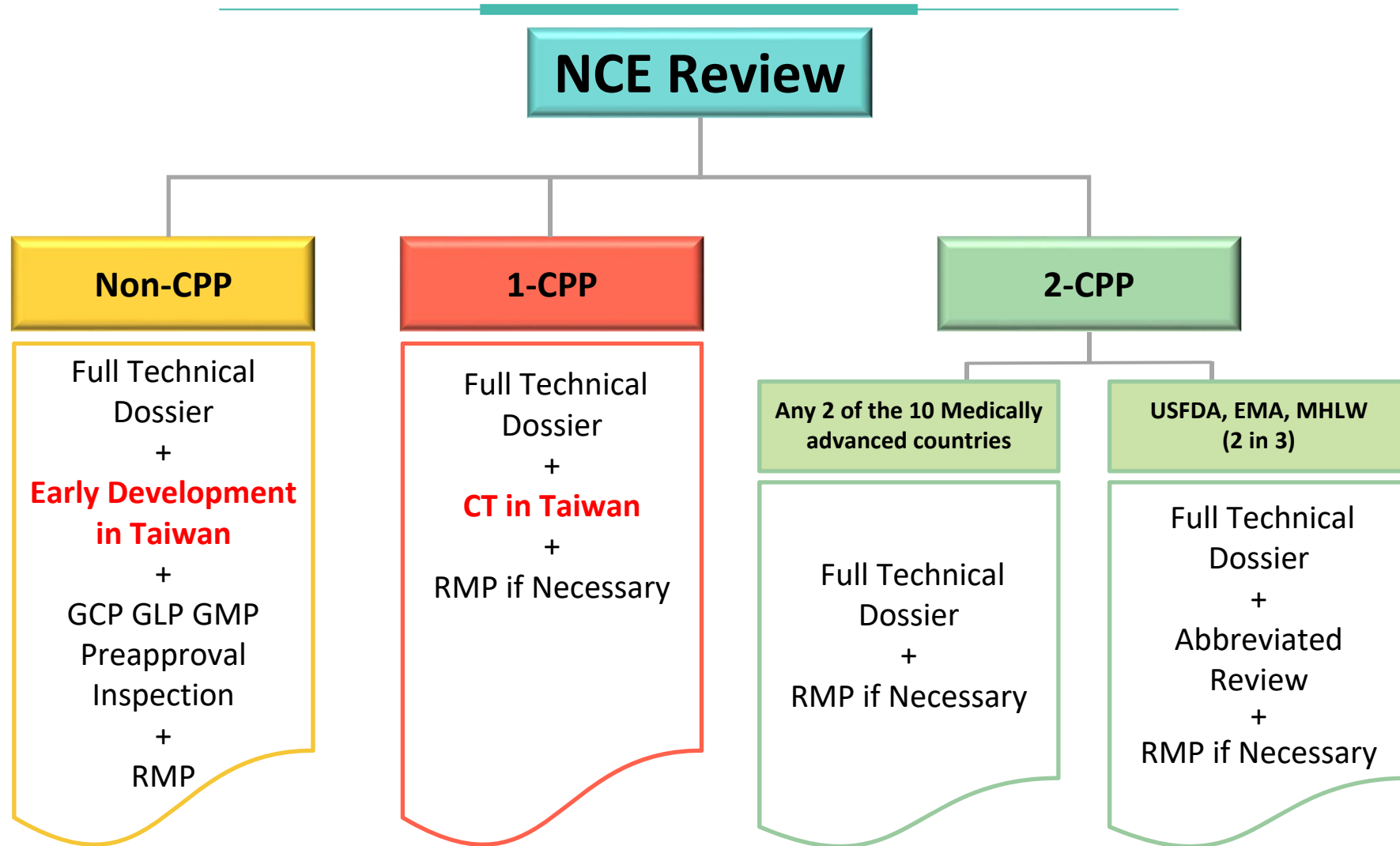
04

Future Prospects

Statistics on Pharmaceutical Licenses in Taiwan



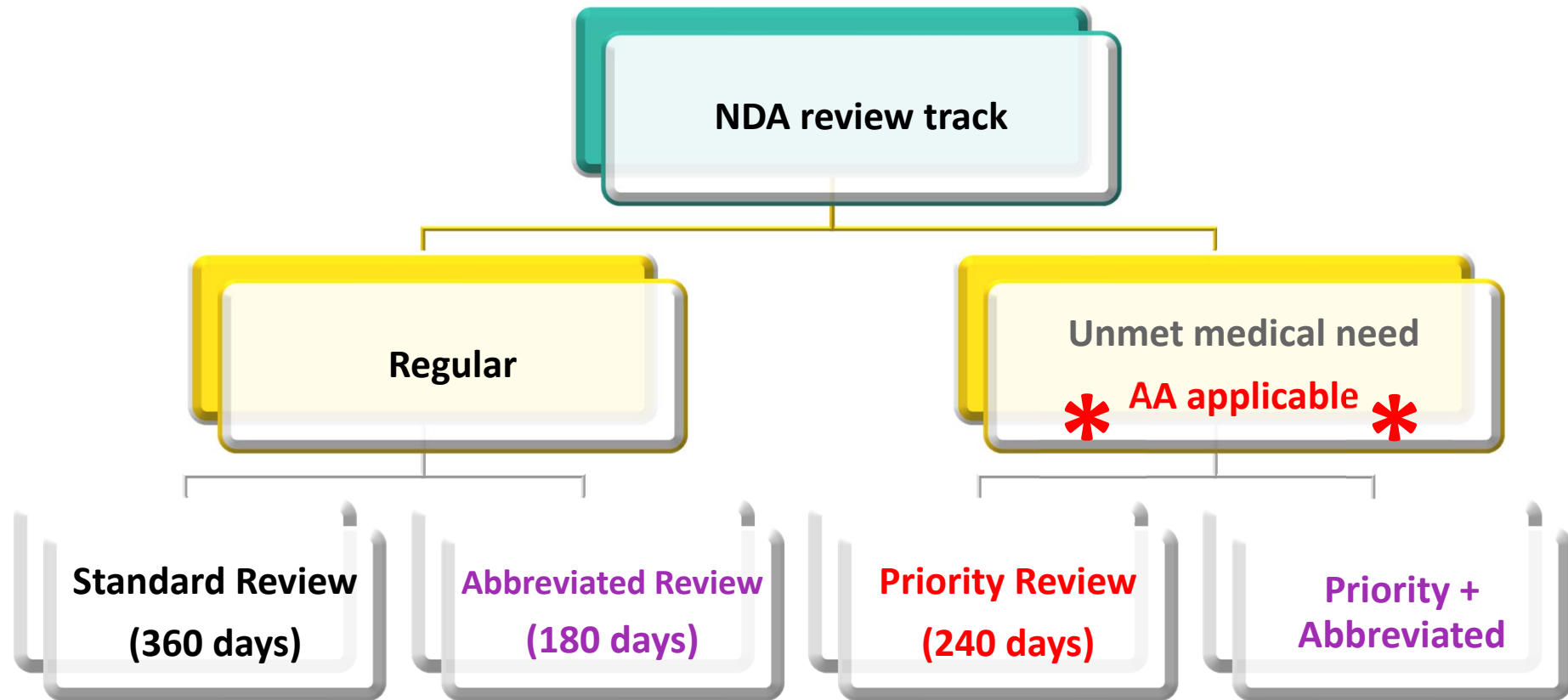
Rationalization of CPP Requirements



CPP: Certification of Pharmaceutical Products

RMP: Risk Management Plan

Expedited Program of NDA



- *Abbreviated Review : NCE + US FDA, EMA, MHLW approved (2 out of 3)
- *AA: **Accelerated approval (AA)**: Surrogate endpoint CT accepted

Case Sharing



AFATINIB DIMALEATE

- ✓ New Chemical Entity
- ✓ Target therapy drug for advanced non-small cell lung cancer
- ✓ Non-CPP
- ✓ Review Time: 89 days
- ✓ Approval: May 17, 2013 in TW (globally first approval)



IRINOTECAN (liposome)

- ✓ New indication & new dosage form
- ✓ Treatment of pancreatic cancer
- ✓ Non-CPP
- ✓ Review Time: 74 days
- ✓ Approval: Oct 22, 2015 in TW (globally first approval)

Domestic Innovative New Drugs



Nemonoxacin

- NCE



Methylene blue

- Orphan drug



Atropine/ Pralidoxime chloride

- New combination



Flu Vaccine

- Flu vaccine with adjuvant (Virosome)



Phenylbutyrate

- Orphan drug



Nalbuphine sebacate

- NCE



Ferric citrate

- NCE



Fomepizole

- Orphan Drug



Flu vaccine

- 4-strain Flu vaccine



Irinotecan liposome

- New indication & new dosage form



Omega-3-acid Ethyl Esters 90

- NCE



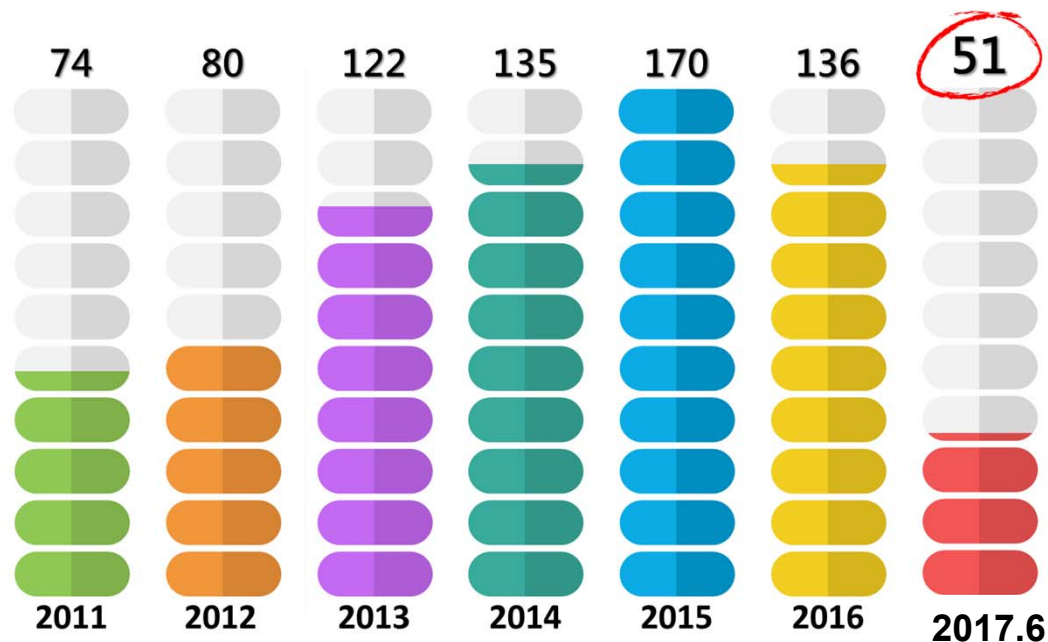
Opinercept

- Biotechnological products



Statistics of New Drugs Approval

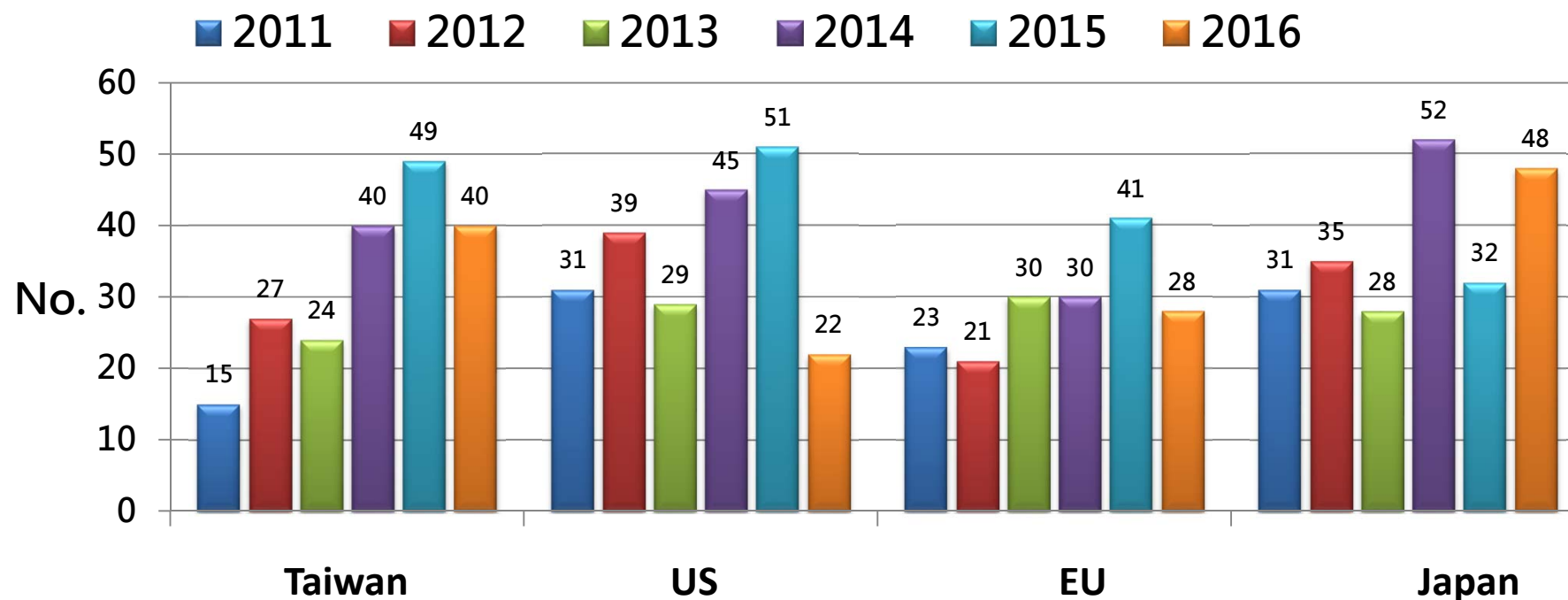
The number of approval in 2011-2017.06



Number of approvals	51									
Types	Domestic					Import				
Numbers (%)	5 (10%)					46 (90%)				
Types	Chemical			Biologics		Chemical			Biologics	
Numbers	3			2		38			8	
Numbers	New chemical entity	1	1	Vaccine	1	New chemical entity	13	32	Vaccine	0
	New combination	0		Plasma derivative	0	New combination	14		Plasma derivative	2
	New indication	0		Toxoid	0	New indication	5		Toxoid	0
	New route of administration	0		Biotechnological products	1	New route of administration	0		Biotechnological products	6
	New dosage forms	1	2			New dosage forms	0	6		
	New dosage and administration	0				New dosage and administration	3			
	New strength	1				New strength	3			

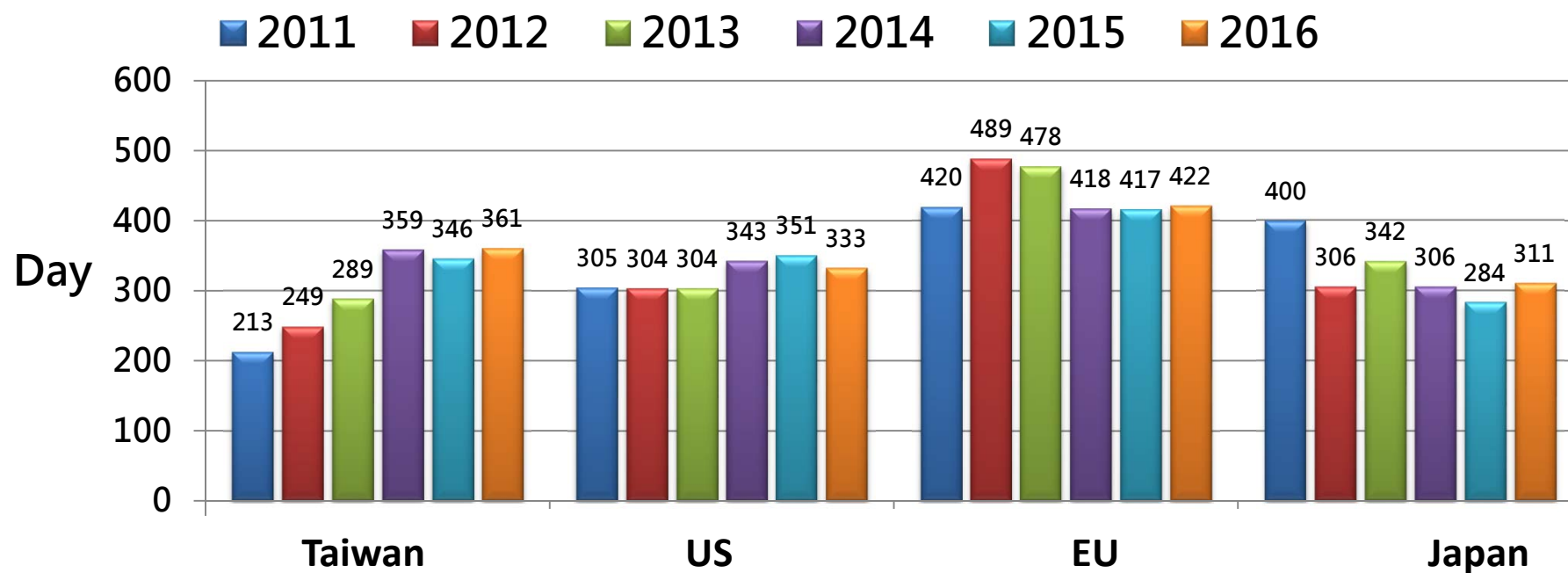
New Drugs Approval Number

The number of new active substance (NAS) approval in 2011-2016



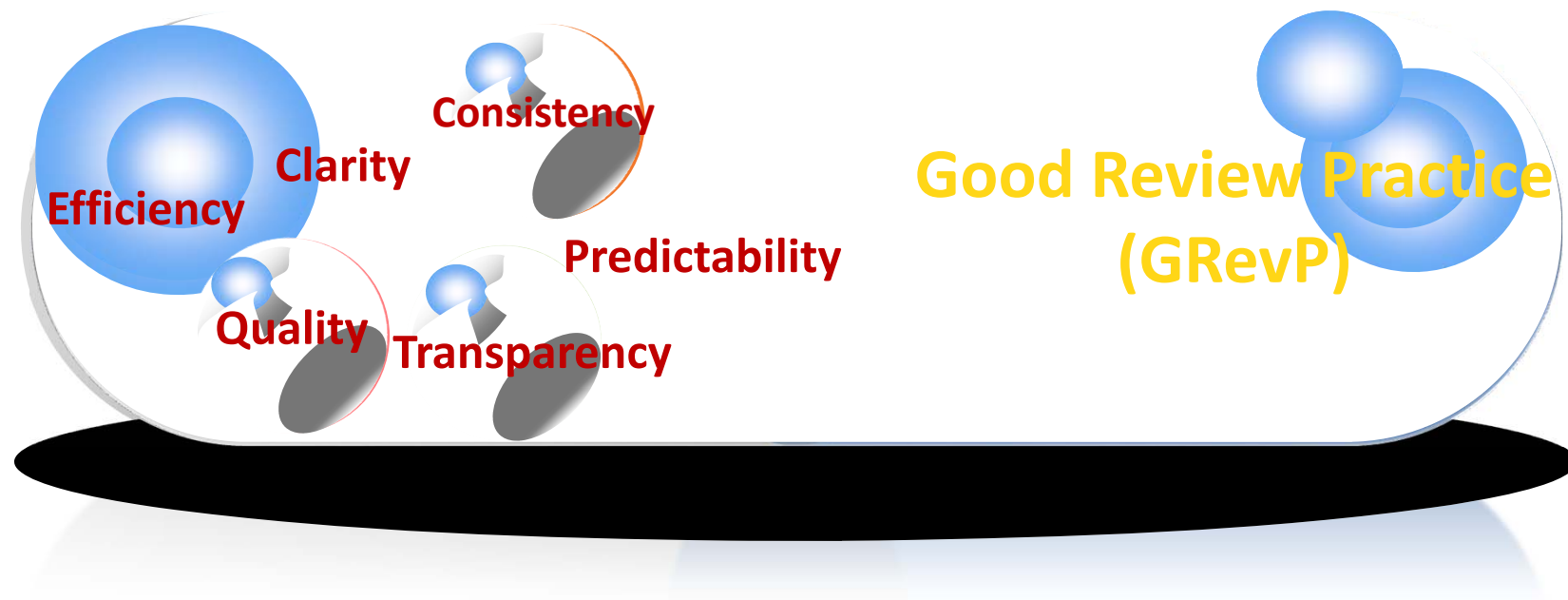
Reference: CIRS

Median Approval Time for New Drugs



Reference: CIRS

Implementation of Good Review Practice



Enhancement of Review Efficiency



• **Consultation and Rolling Review (2016)**

• **Breaking Through Destination (coming soon~)**

Review process and Timeline (2016)

Review time for non-NCE NDA (2016)

Refuse-to-File (2016)

Pre-NDA meeting (2016)

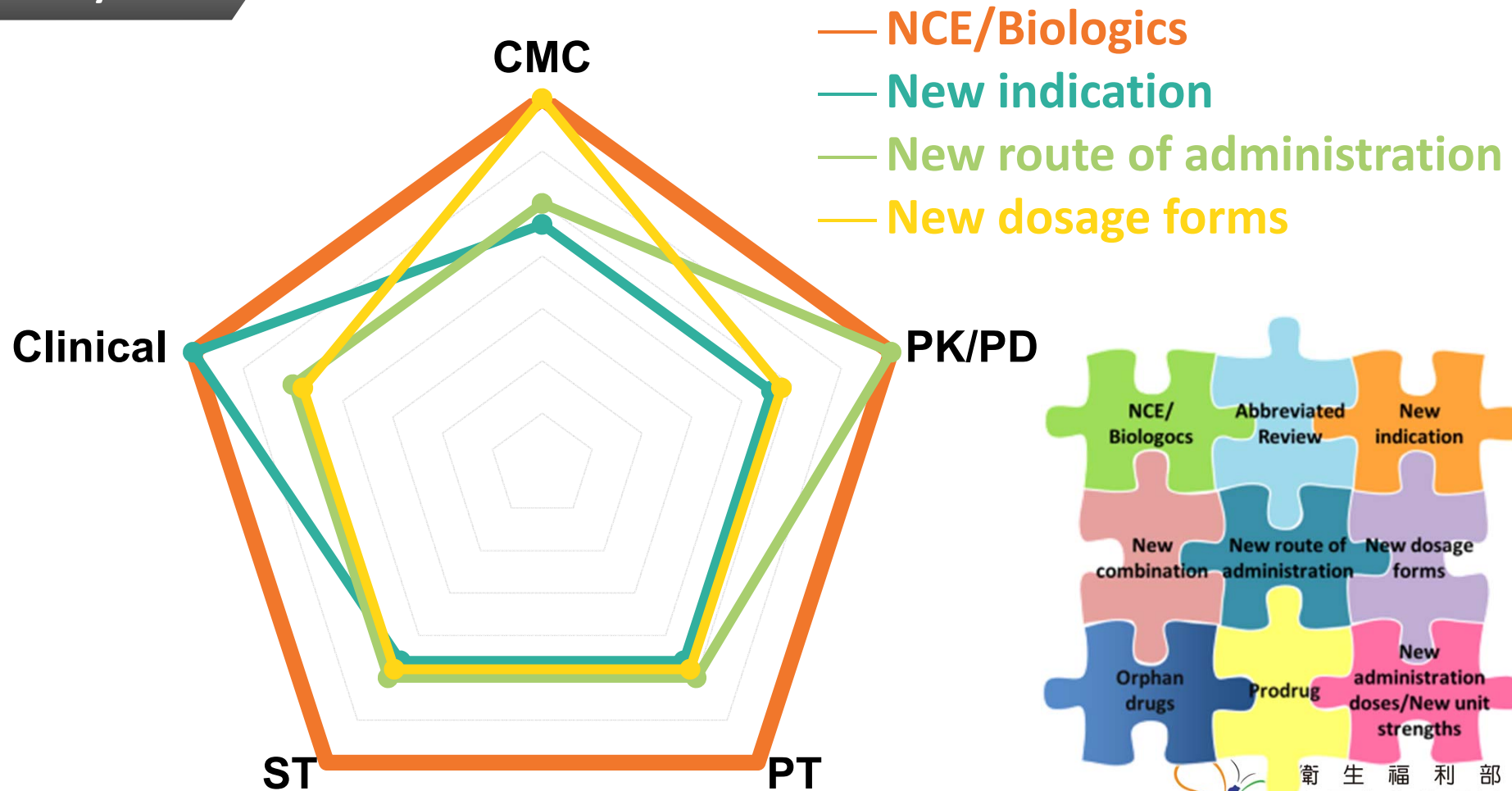
Points to consider for all types of NDAs (2017)

On-line submission platform (2017)

Quality · Efficiency · Consistency · Transparency · Clarity · Predictability

Points to Consider for All Types of NDAs

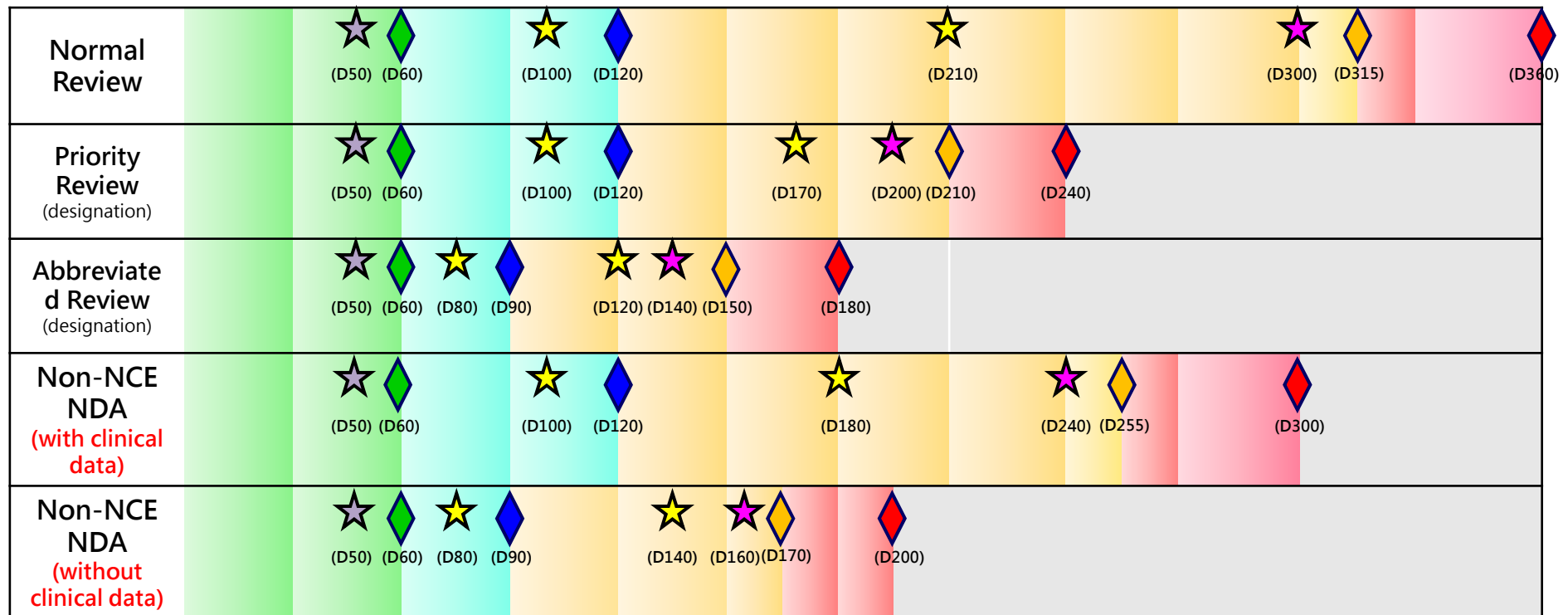
Clarity



Review Timeline Management

Predictability

 Filing Meeting
  RTF (Refuse to file)
  Review Meeting
  Inquiry
  Complete Assessment Report
  Approval Letter (AL)
  Notice of Licensure



QA/QC Meeting

Quality



Integrated **M**edicinal **P**roduct **R**evuew **O**ffice

↑ Internal Control Monitoring & Auditing

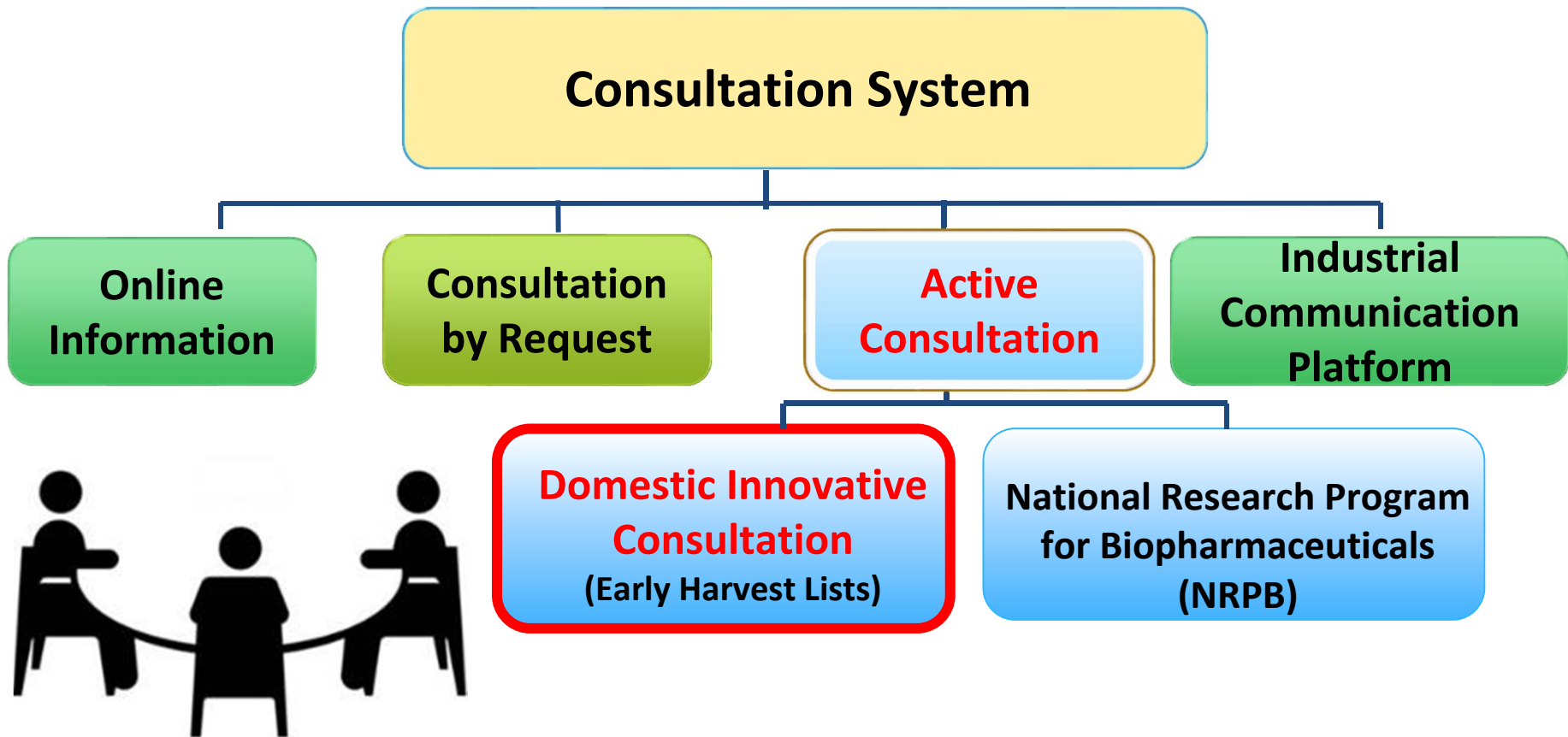
↑ Resource Integration

↑ Job Integration

↑ Process Integration

Consultation System

Transparency



Domestic Innovative Consultation

Transparency

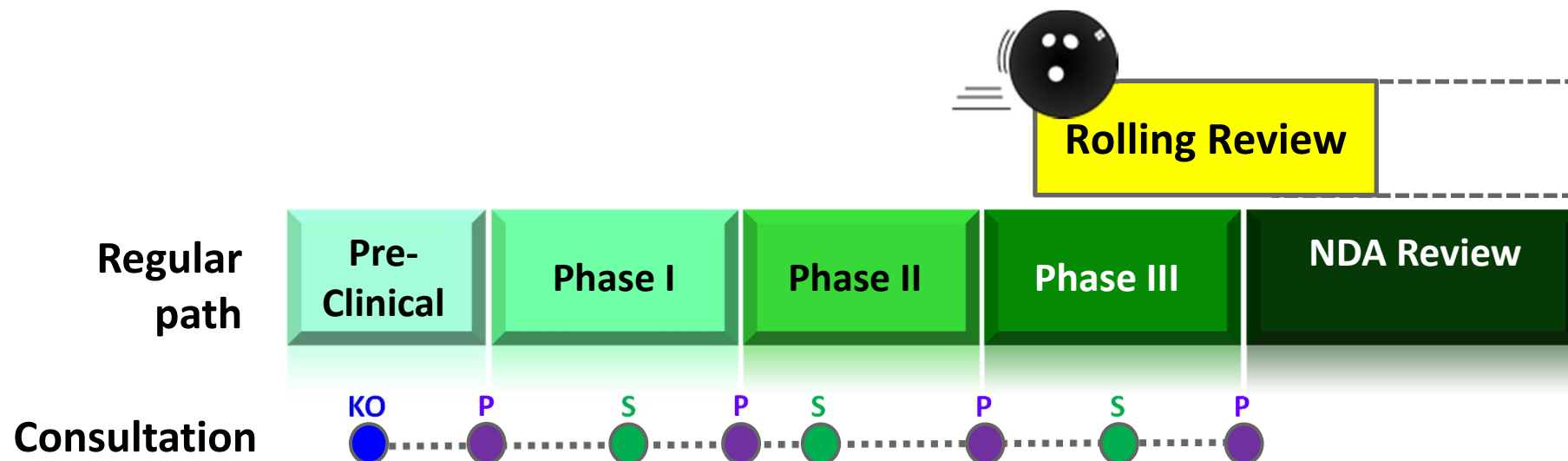


To **facilitate** medicinal products development and marketing approval



Meeting types:

- Kick-off meeting
- Sponsor meeting
- Pre-filing meeting



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ExPRESS (E Platform for Review & Submission)



The **E Platform for Review & Submission (ExPRESS)** is for accepting electronic submissions. The ExPRESS enables the secure submission of premarket and postmarket regulatory information for review.



**Information
Database**



Easy to Retrieve



Paperless



**Enhancing Review
Efficiency**

Promoting Good Registration Management (GRM) in APEC



Roles in RHSC

- GRM Roadmap co-champion
- GRM CoE hosting institution

Promoting Good Registration Management (GRM) in APEC



Regulatory Harmonization Steering Committee
APEC
Life Sciences Innovation Forum

2017 APEC Good Registration Management (GRM) Regulatory Science Center of Excellence Workshop

Save the date

Date: October 31 to November 2, 2017
Venue: National Taiwan University Hospital (NTUH) International Convention Center, Taipei

Target Audience:

- (1) Senior regulators with at least 3 years of hands-on experience in the management of regulatory reviews
- (2) Industry managers with at least 3 years of hands-on experience in the management of regulatory submissions

Program Overview:

- (1) On-line and self-paced learning to develop knowledge base in advance of in-person training
- (2) In person training: 3 days with plenary sessions for all attendees and parallel sessions for regulators and industry based professionals. In person training is designed with lectures, group discussions and applied case studies

Travel & Accommodation:

Funding for travel eligible economies may be available

CoE Hosting Institutions:

- Taiwan FDA
- RAPS Taiwan Chapter

Contact Information:

- RAPS Taiwan Chapter
Email: rapstaiwan@tcfst.org.tw
- Dr. Yu-Hua Huang
Email: yhuang@tcfst.org.tw

Logos: Regulatory Harmonization Steering Committee, APEC, Life Sciences Innovation Forum, FDA, Tmda, APAC, RAPS

2017 APEC GRM CoE Workshop

- **Date:** Oct 31 to Nov 2, 2017
- **Venue:** NTUH Convention Center, Taipei
- **Target Audience:** regulators and industries

All 21 APEC member economies are invited

Thank You for Your Attention!



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