



- To expedite the launch of Innovative medicines for the peoples in Asia –

E-Labeling Implementation in Japan and Asia - from industries perspective -

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Agenda

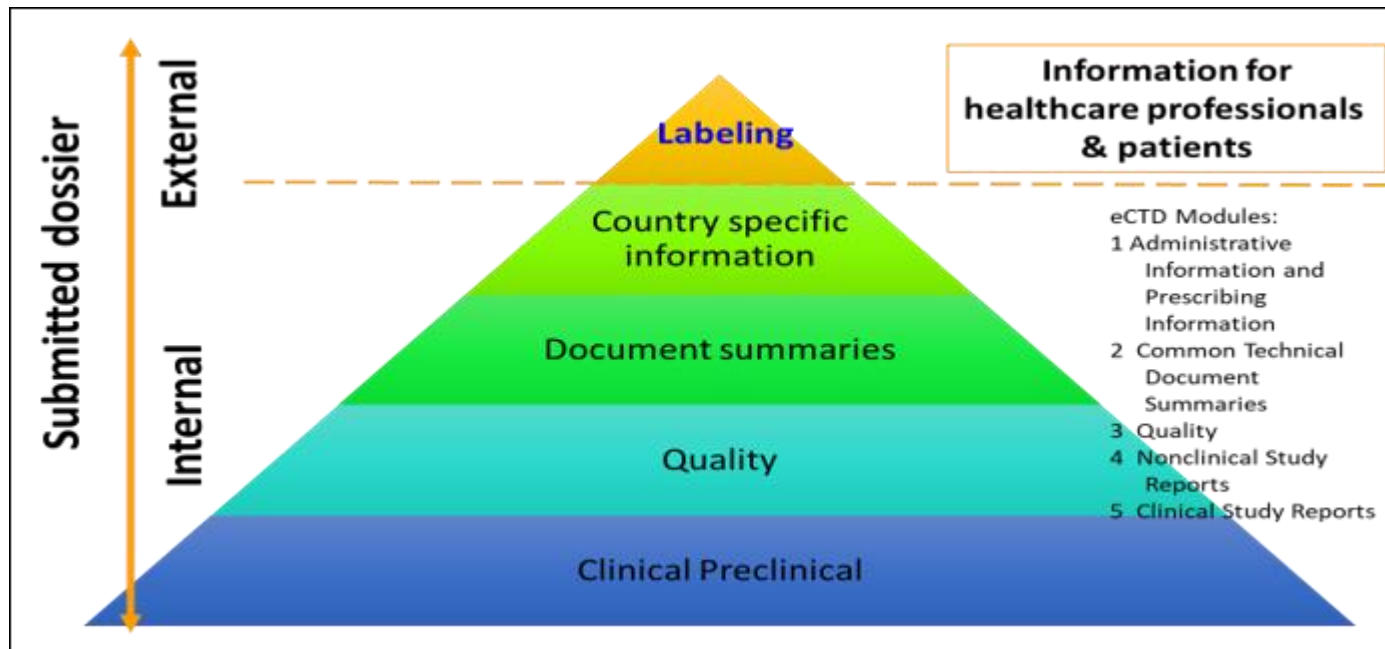


1. Product Information (the “Labeling”)
2. What is e-labeling?
3. E-labeling implementation in Japan
4. Outlook of e-labeling Initiatives in Asian markets
5. Summary

The Role of Product Information (the “Labeling”)

The product information (aka the “labeling”) is a key component of the submitted dossier

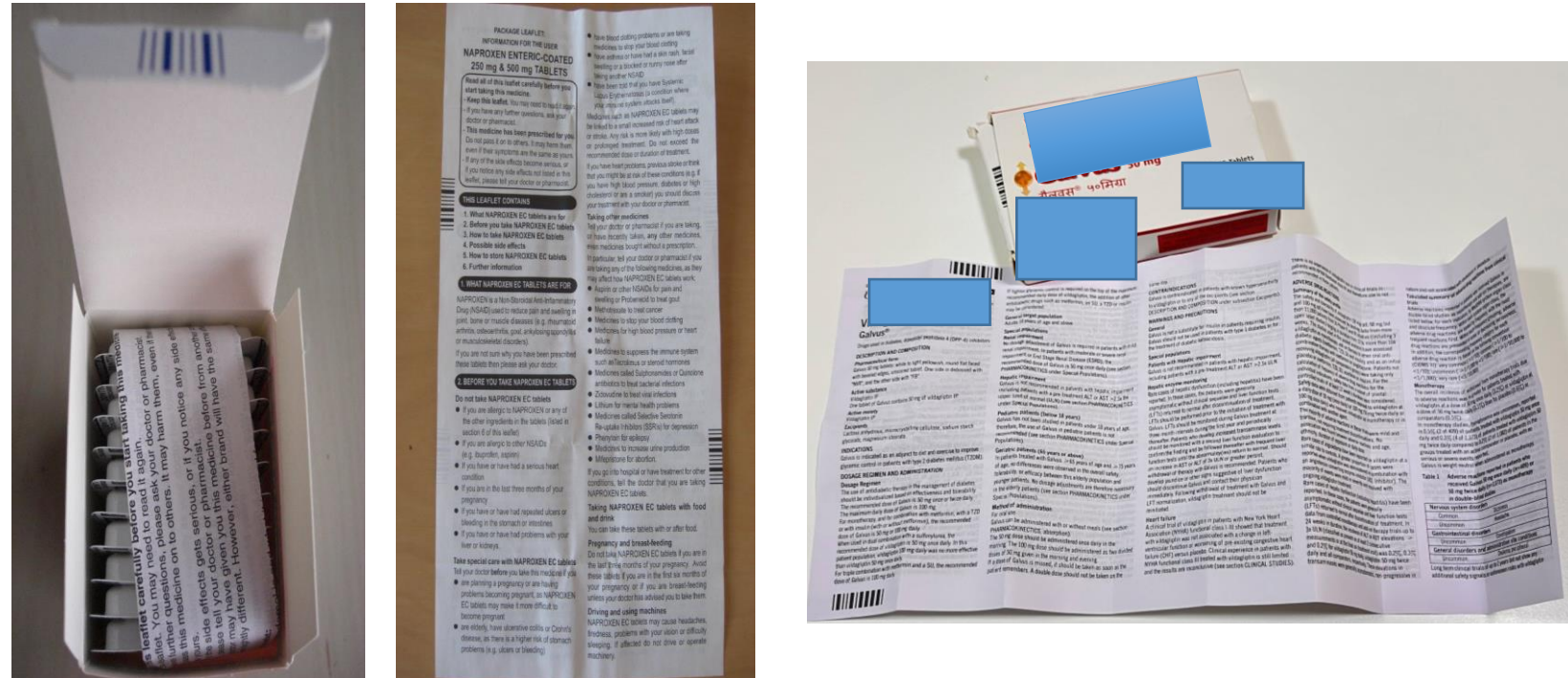
“Labeling is a communication tool.”



A variety of formats (paper, **electronic**) and types (**patient**, HCP) distributed according to national requirements

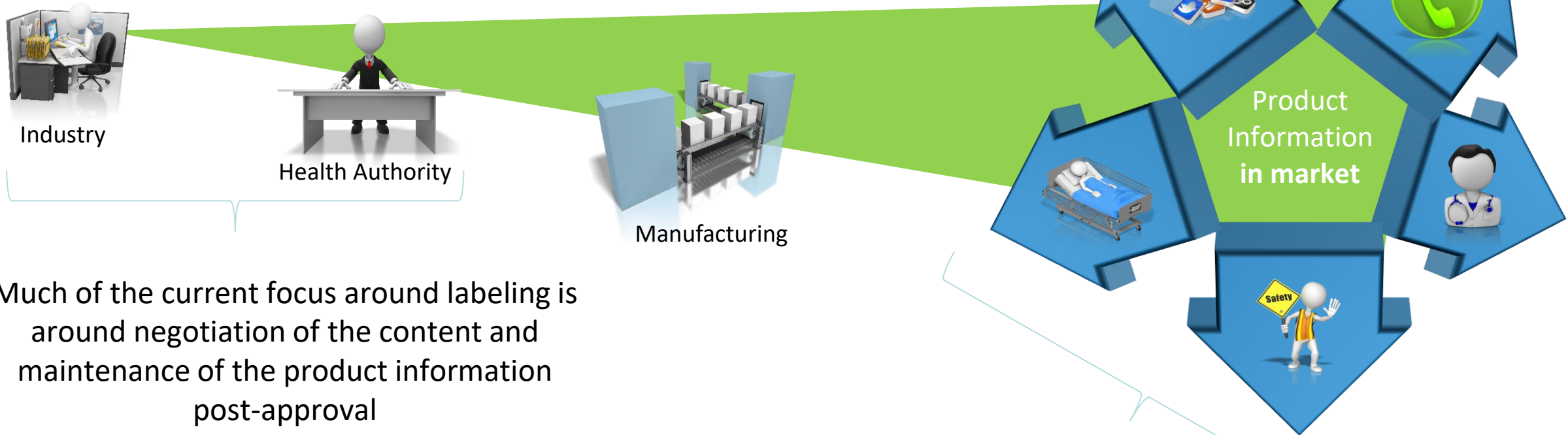
A critical risk-minimization measure communicating benefit/risk and usage instructions

Labeling Documents in the Commercial Pack



Depending on the country, the pack may contain Healthcare Professional Information (e.g. U.S., **Japan and India**) or patient information (e.g. EU)
In Asia, mostly labeling for HCPs is inserted in a commercial pack.

A shift in thinking

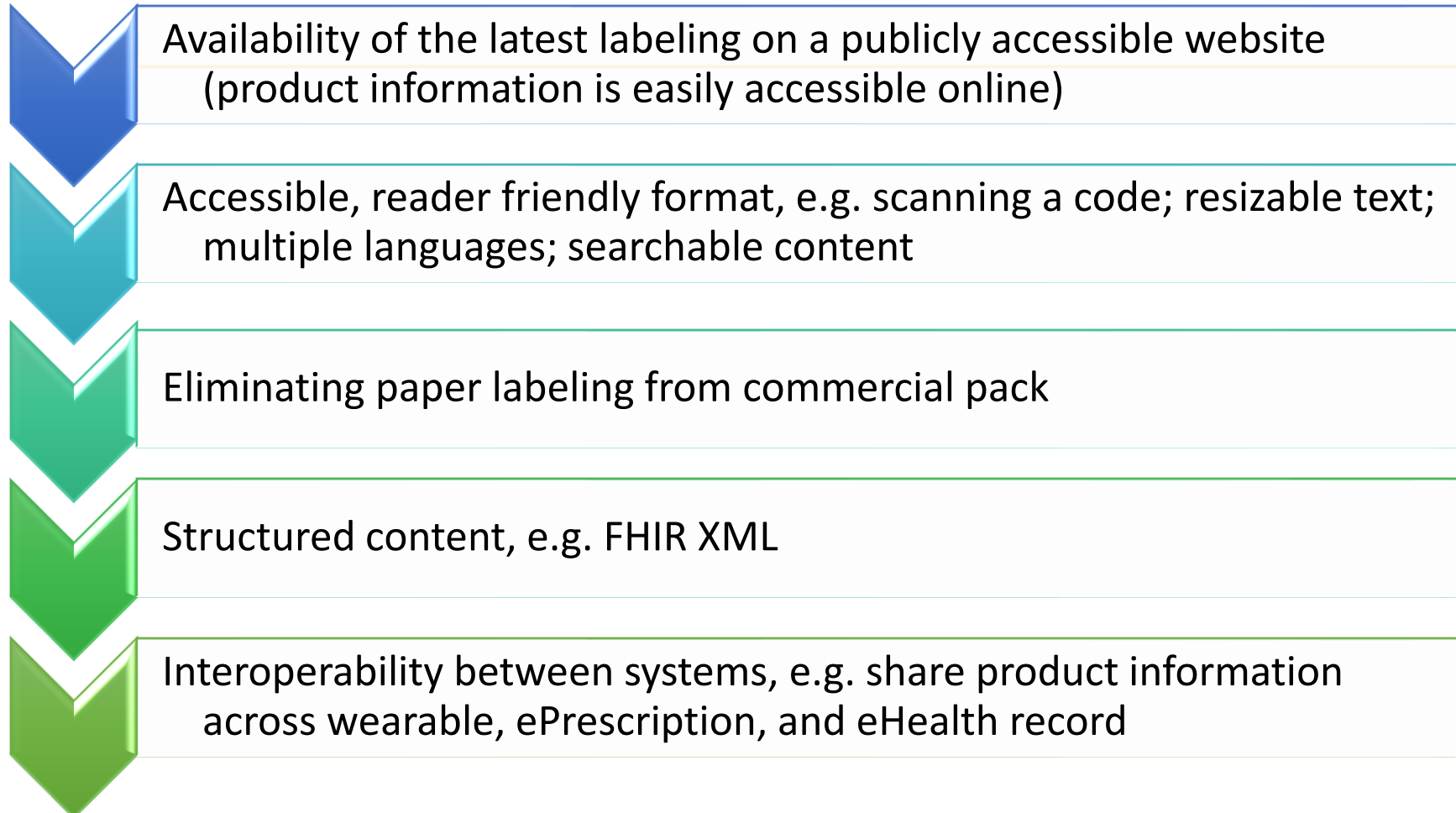


Much of the current focus around labeling is around negotiation of the content and maintenance of the product information post-approval

Little attention has been paid to how the label is being accessed, used, understood and adhered to in real life settings.

In other words the “**customer experience**”

What is e-labeling?



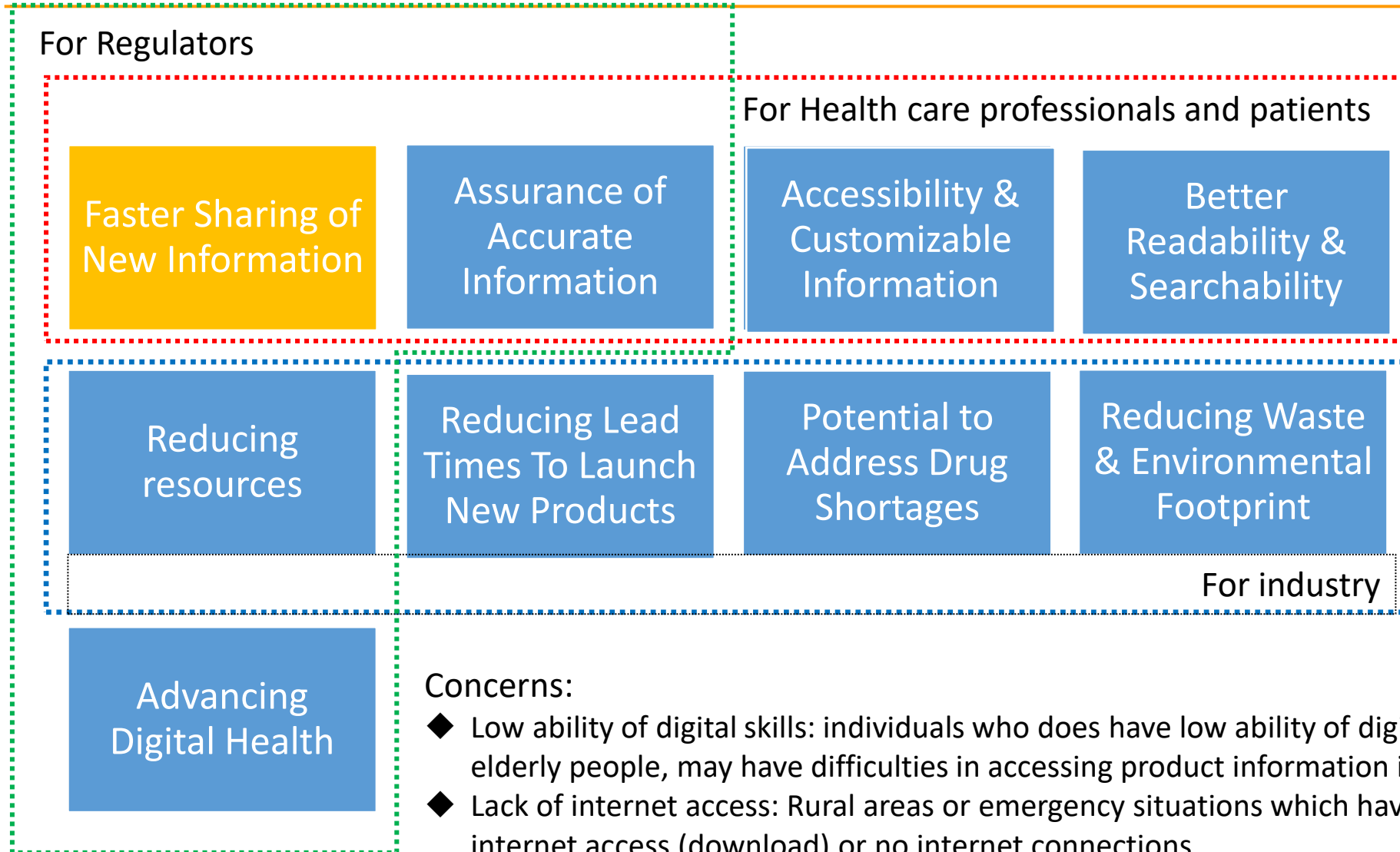
Why is important?

E-Labeling can improve:

- Accessibility & understanding of most recent product information for patients & HCPs
- Adherence
- Patient outcomes
- Improve efficiency and reduce paper waste

E-labeling is the availability of the latest approved product information electronically on publicly accessible website via smart devices. E-labeling would be in a common structured format using global standards to allow efficient and seamless information flow amongst manufacturers, regulators, HCPs, and patients. E-labeling would eventually replace the paper product information leaflet that are placed within commercial packs. (From the APAC e-labeling position paper.)

Benefits of e-labeling



E-labeling implementation in Japan

Regulation/ guidance issued	E-labeling platform	Type of products	Easy accessibility to e-label (e.g. via bar code)	Eliminating paper labeling from a commercial pack	Structured contents of labeling such as XML	Interoperable e-labeling
Feb 2021	✓ (HA)	Rx	✓ GS1 barcode App is used	✓ All Rx	✓	NA

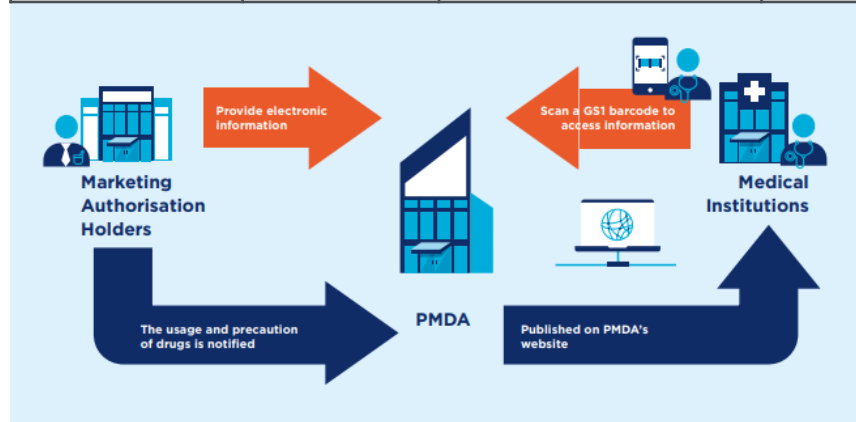


Figure 3: Now, healthcare providers and patients alike can scan a pharmaceutical package's barcode and the Digital Link's URI directs them to the PMDA website that then directs them to the product's e-leaflet.

MAH (in cooperation with a wholesaler, if needed)

- Provide package inserts in paper format to medical institutions/pharmacies at the initial delivery of the products.
- Provide revised information in paper media, etc. to medical institutions/pharmacies without delay.

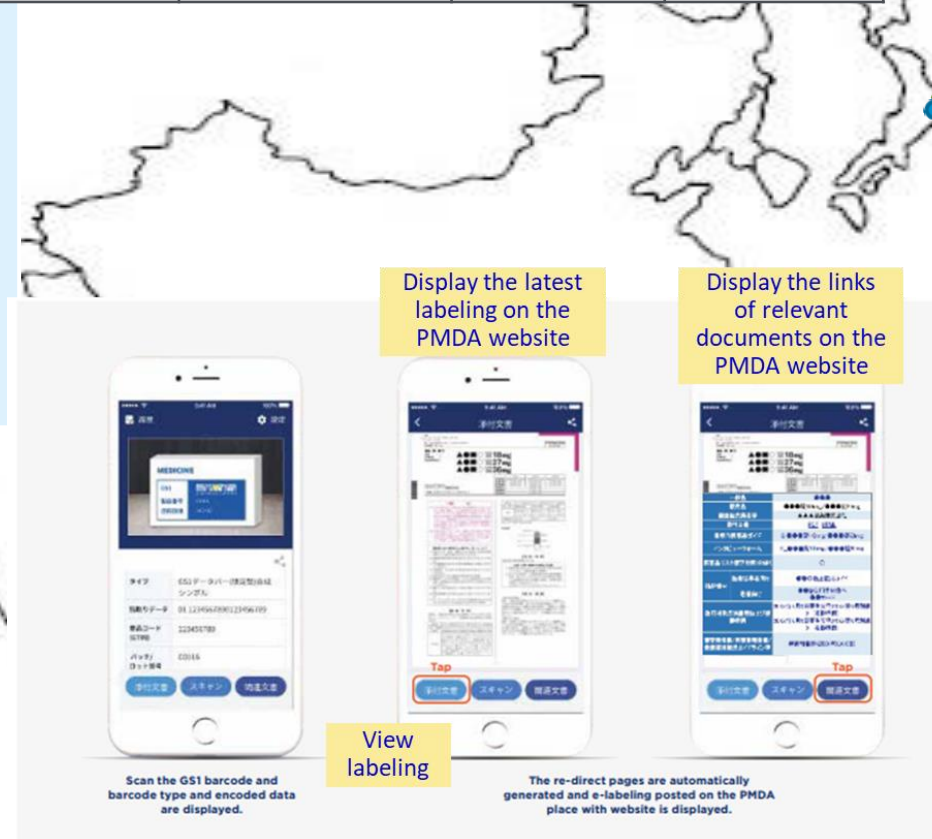
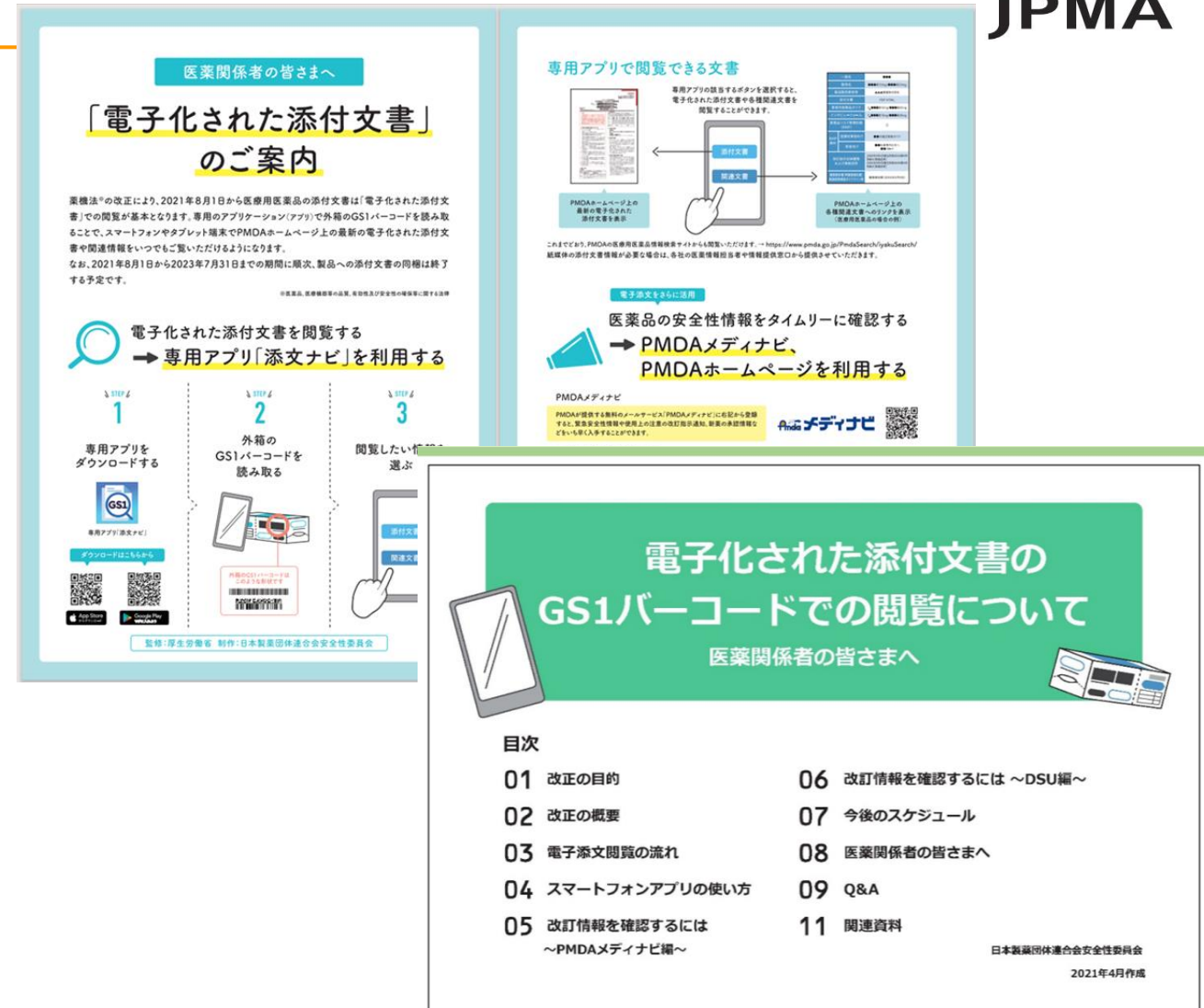


Figure 4: The Tenbun-Navi app makes e-leaflet information easily accessible via a smartphone or tablet. (<https://www.dsri.jp/standard/healthcare/tenbunnavi/app/index.html>)

- PMDA has required SGML versions of the JPI (HCP labeling) for many years and has started to switch to XML in 2019.
- In December 2019, Pharmaceuticals and Medical Devices Act was amended to introduce e-labeling officially, replacing paper labeling and accompanying necessary scheme that enables all healthcare professionals access the up-to-date labeling information.
- The GS1 bar code is required to print on the outer box so that healthcare professionals can access labeling information. A mobile app for reading GS1 barcode became available from May 2021.
- The enforcement of the amendment was implemented on Aug 1, 2021.
- **There is a 2-year transition period and paper labeling has been removed by the end of July 2023.**

Japan case: What industry have done for e-labeling implementation

- ▶ Upload labels on the PMDA website
- ▶ Complete the linkage between GS1 code and labeling information
- ▶ Establish the process including updating SOP to implement e-labeling
- ▶ Educate HCPs on how to use e-labeling including the app



医療関係者の皆さまへ

「電子化された添付文書」のご案内

薬機法の改正により、2021年8月1日から医療用医薬品の添付文書は「電子化された添付文書」での閲覧が基本となります。専用のアプリケーション(アプリ)で外箱のGS1バーコードを読み取ることで、スマートフォンやタブレット端末でPMDAホームページ上の最新の電子化された添付文書や関連情報をいつでもご覧いただけるようになります。

なお、2021年8月1日から2023年7月31日までの期間に順次、製品への添付文書の同梱は終了する予定です。

電子化された添付文書を閲覧する
→ 専用アプリ「添付ナビ」を利用する

1 専用アプリをダウンロードする
2 外箱のGS1バーコードを読み取る
3 閲覧したい情報を選ぶ

専用アプリ「添付ナビ」
データロードはここから

添付ナビ

電子添文をさらに活用
医薬品の安全性情報をタイムリーに確認する
→ PMDAメディナビ、PMDAホームページを利用する

PMDAメディナビ

電子化された添付文書のGS1バーコードでの閲覧について
医療関係者の皆さまへ

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日本製薬団体連合会安全性委員会
2021年4月作成

What companies have completed: Packaging Impact Assessment for e-labeling



Roles of packaging:

- ▶ Protect and preserve products during transportation, storage and distribution from initial containment to the end of the product consumption.

Critical roles of packaging insert:

- ▶ Can be served as a tangible packaging functional component
- ▶ Aid steadiness of the product in container during transportation
- ▶ Can provide some degrees of light protection and thermal insulation

Packaging Risk Assessment is a MUST Prior to ePI Implementation

Japan: Acquisition of the latest information related to the digitization of package inserts (Duration June 17 to July 29, 2022)



- 75.6% of hospitals and 48.1% of pharmacies visit the PMDA website to see the latest package insert information
- 47.9% and 55.0%, respectively of the respondent facilities use their in-house system such as the electronic medical record system and receipt computer system.
- 75.2% of hospitals and 71.4% of pharmacies also refer to paper package insert
- **Only 1.7% of hospitals and 2.7% of pharmacies relay solely on paper package inserts**

<https://www.pmda.go.jp/files/000252814.pdf#page=14>

Figure 3-1: Method of browsing the latest package insert information (multiple choices allowed) [hospitals]

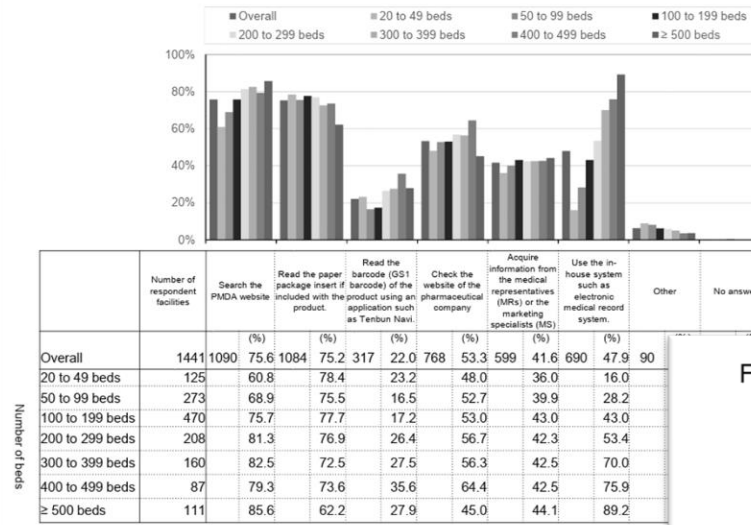
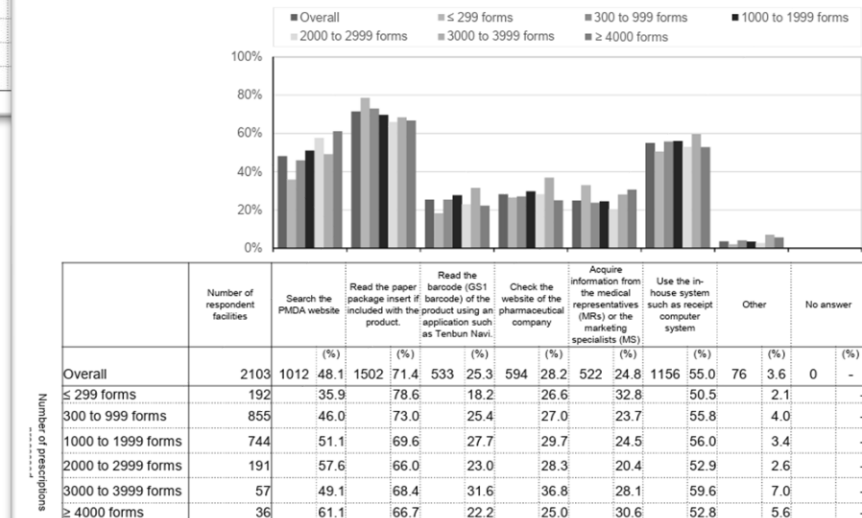







Figure 3-2: Method of browsing the latest package insert information (multiple choices allowed) [pharmacies]



Outlook of e-labeling Initiatives in Asian markets



	Regulation/ guidance issued	Type of in-scope products	E-labeling platform 	Easy accessibility to e-label via machine- readable code 	Eliminating paper labeling from a commercial pack 	Structured contents of labeling such as XML 	Interoperable e-labeling 
Japan	Feb 2021	Rx	✓ (HA)	✓ GS1 barcode App is used	✓ All Rx	✓	NA
Singapore	Apr 2021	Rx	✓ (Company or 3rd party)	✓ Voluntary: company choice	✓ Voluntary	NA	NA
Taiwan	Dec 2021 (pilot) Sep 2023 (official)	Some injectables/ Oral administration (vaccine, contrast media)	✓ (HA)	✓ Voluntary: QR	✓ Voluntary	✓	In discussion
Korea	Dec 2022 (pilot) Jan 2024 (official)	Hospital Injectables	✓ (Company or 3rd party)	✓ Voluntary: QR (Pilot ongoing)	✓ Voluntary: Pilot ongoing	NA	NA
Malaysia	Apr 2023	Biologic, New Drug Product, Generic Product Containing Scheduled Poison for Rx	✓ (HA)	✓ Voluntary: QR	✓ Voluntary	NA	In discussion
Thailand	Jun 2023	All products	✓ (HA)	✓ Voluntary: company choice	✓ Voluntary: Only HCP labels	NA	In discussion
Indonesia	Sep 2023	Vaccines, injectables (1 st phase), then other Rx (2 nd phase), some OTCs (3 rd phase)	✓ (HA) (pilot to be started)	✓ Pilot to be started (2D barcode, app from HA)	✓ Voluntary: Pilot to be started.	NA	NA

E-labeling initiatives in Asia

In Singapore, HSA published HCP and patient labeling on their website, but their website is not used in connection with e-labeling.

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In Indonesia, BPOM issued the Guidance on Implementation of e-labeling pilot project on September 14, 2023.

In the Pilot Project, e-labeling will be available on BPOM website via serialization Barcode (QR or GS1 data matrix).

BPOM mobile app will be used for e-labeling purpose too. In Indonesia, GS1 data matrix has been implemented for serialization purpose for some products, for which BPOM has already developed a mobile app and the function of e-labeling will be added. Paper labels can be removed. The pilot will be lasted for 2 years.

In Korea, MFDS issued the e-labeling pilot guidance in December 2022. E-labeling pilot project of pharmaceuticals has been started from 2023.

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The target products are injections only used in medical institutions. The exemption from the provision of electronic information (e-labeling) was made when e-labeling is linked to the license holders during

In Taiwan, Taiwan FDA and the trade association completed a 6-month phase 1 pilot study for selected HCP labels in 2021. The objective was to test the e-labeling platform constructed by TFDA in order to transform to XML format in the future.

- Currently, the new TFDA e-labeling website (<https://mcp.fda.gov.tw/>) is open to the public and consumers can search the labeling document in either

In Thailand, the Thai FDA has officially announced e-labeling has been fully implemented for new registration via e-submission since June 23, 2023.

e-labeling implementation is mandatory for new registration application submitted after the announced date. Accessibility code such as QR code should be indicated on the product carton. Once the accessibility code is scanned, the product information for HCPs and patients are available as the PDF files from the Thai FDA website. Paper labeling for HCPs can be removed due to the e-labeling implementation, but PIL is required for physical labeling.



Integrated Labeling of the Future

- Having labeling information only available as .doc (Word) or .pdf files is restrictive as they are “unstructured”. The files cannot be used “digitally”
- Creation of labeling in a common electronic standard (e.g. HL7FHIR) offers huge opportunity for further digital transformation
 - Linkage with Electronic Health Records
 - Production of tailored (personalised) labels
 - Automated creation of other materials
 - Provision of real world evidence possible

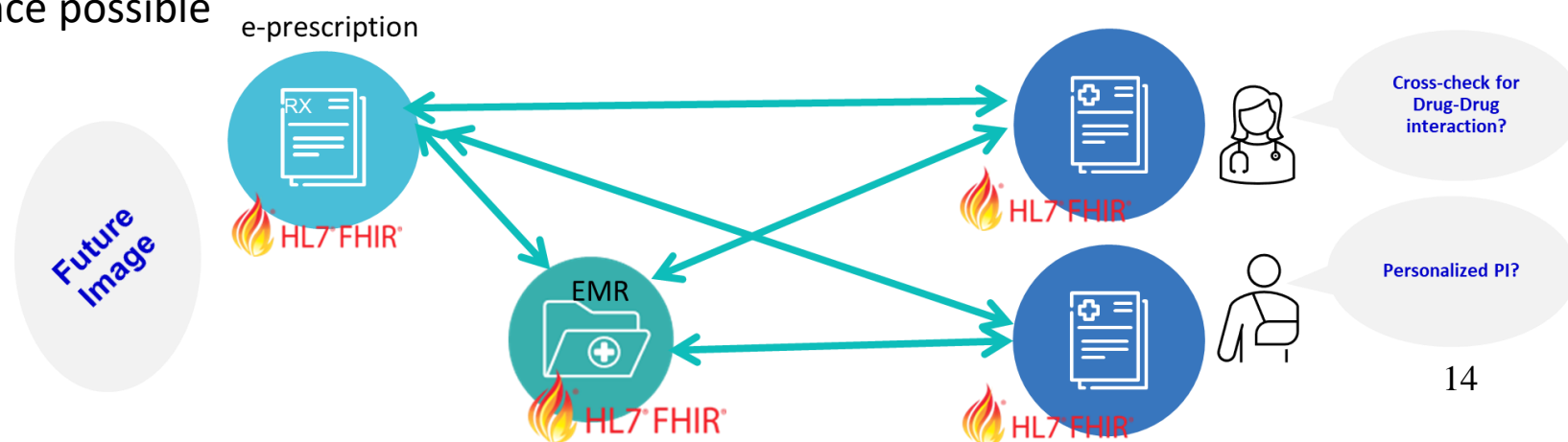
FHIR Adoption in India

- Biggest FHIR based healthcare project in the world (abmd.in) (290MM patients covered)

<https://abdm.gov.in/>

- ABDM FHIR IG here:

<https://nrcea.in/ndhm/>



Summary

- Japan issued an e-labeling guidance in Feb 2021 and implemented e-labeling as a mandatory by the end of July 2023.
- Also, dynamic progress for e-labeling initiatives in Asian region has been made through 2023. 7 markets have issued an e-labeling guidance to implement or to start pilot for e-labeling initiatives.
 - Issuing e-labeling guidance is the important step for e-labeling initiative.
- The structured contents of labeling based on international electronic common standard offers huge opportunity for further digital transformation. The adoption of HL7FHIR for the healthcare system has been progressing in India.
- The availability of patient centric labeling is only around 30 % of the markets in Asian region. Currently, the adoption of e-labeling is mainly for healthcare professionals, not much for patients.
 - The introduction of patient centric e-labeling should be encouraged.

