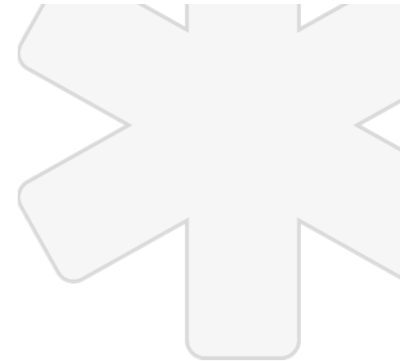




European Federation of Pharmaceutical  
Industries and Associations

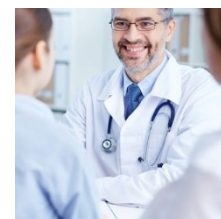
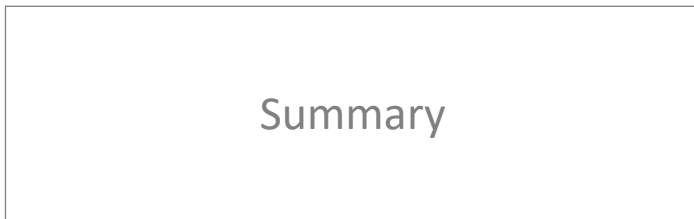
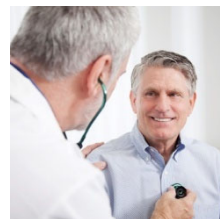
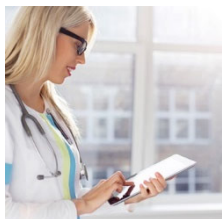


# Annual Regulatory GMP/GDP Inspection Survey 2020 Data

Author: MQEG Inspections topic team

Date: 17 May 2021

Version: 1a



## EFPIA'S ANNUAL INSPECTION SURVEY

# Background and History



### \* History

- \* The annual inspection survey was initiated in 2003 with the intent to gather data regarding inspections activities in the research-based industry

### \* Intention

- \* Monitor trends and new focus areas of GMP/GDP inspections / ISO-certifications
- \* Continue to promote reliance, collaboration and consistency in inspections by highlighting duplicate regulatory GMP/GDP inspections / ISO-certifications
- \* Materialise the benefits of PIC/S membership in optimizing use of inspection resources with a harmonized risk-based approach for inspections while maintaining patient safety

### \* Scope

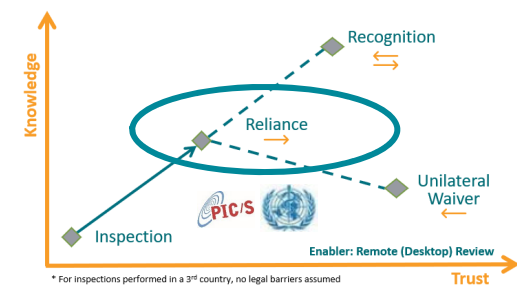
- \* Regulatory GMP/GDP inspections & related ISO-certifications for regulatory purpose
- \* Manufacturing sites and commercial affiliates
- \* Inside and outside the Regulatory Authority's own borders (domestic and foreign)
- \* All tools, that are used or combination from them: on-site, virtual, or paper-based inspections as well as reliance/recognition approaches

Note: 'foreign inspections' are inspections performed in a 3<sup>rd</sup> country to the inspectorate

## EFPIA'S ANNUAL INSPECTION SURVEY - 2020 DATA

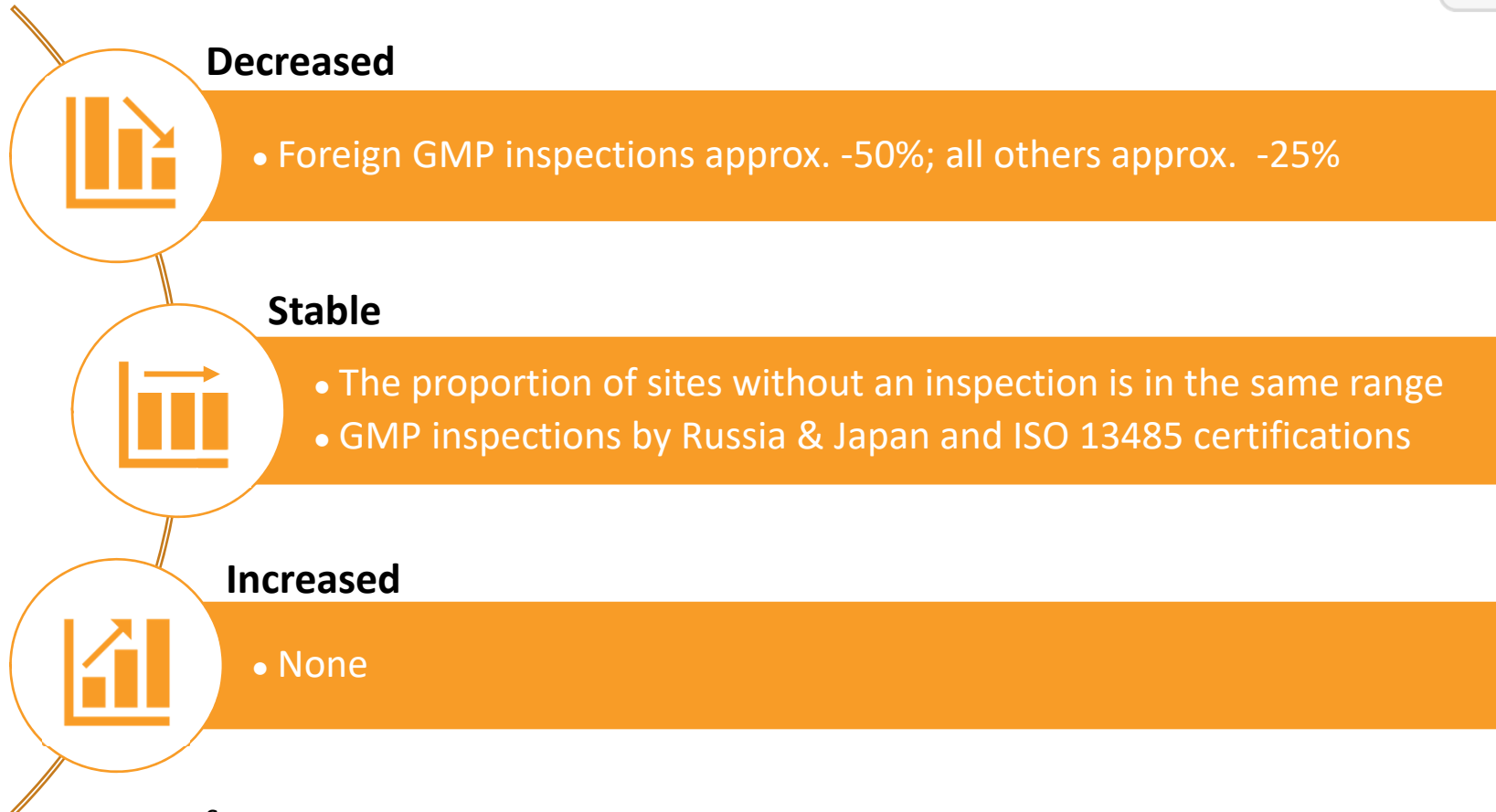
### Key Message

- **Regulatory oversight was maintained supporting public health**
  - Virtual approaches helped as an enabler and have a role
  - **But** companies report delay of approval by pushing back scheduled PAIs
- **Gain efficiency in the use of tools**
  - Combined use of virtual / on-site hybrid may be valuable
  - Standardise the package of documents to streamline efforts
  - Follow a clearly defined schedule, with an inspection endpoint
- **Increasing use of reliance will be beneficial**
  - Enabled by waivers, recognition and using various tools
  - Experience demonstrated feasibility and value in decision making



## SURVEY DATA AND TRENDS – RESULTS 2020

### Situation in 2020 was Impacted by the Pandemic

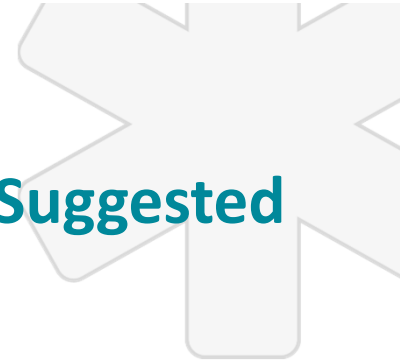


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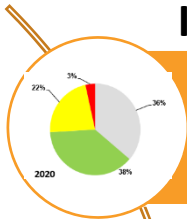
25 Global research-based pharmaceutical companies (EFPIA members) and  
8 Local companies from APIFARMA, Portugal (3) and Farindustria, Italy (5)

## SURVEY DATA AND TRENDS – RESULTS 2020

# Collaboration Opportunities Between Agencies Suggested by the Data Analysis



### Inspecting



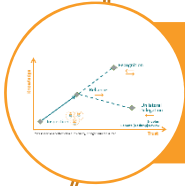
- Agencies are maintaining strong oversight of domestic sites - Although there were 50% fewer foreign inspections, number of sites without an inspection at all was similar to previous years

### Cooperation



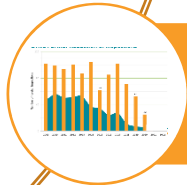
- Opportunities for efficiency gains in inspections exist as 51% foreign inspections are performed by a PIC/S inspectorate in a country, where the inspectorate is also a PIC/S member

### Reliance



- Unilateral reliance is possible e.g., n-Nitrosamine, BREXIT, COVID-19
- Unfortunately, foreign inspections target sites in countries with well recognised inspectorates

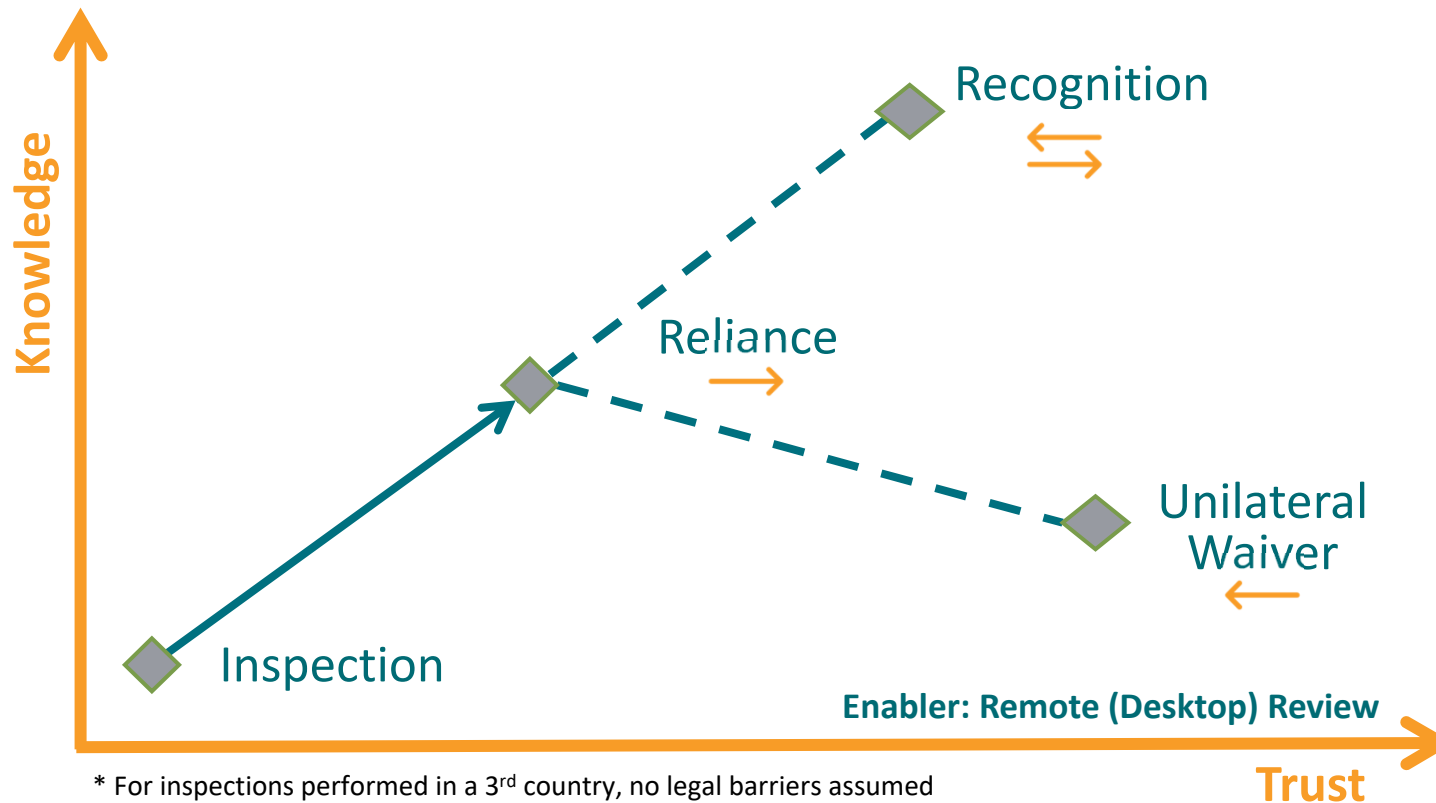
### Recognition



- Benefits of MRAs are gradually becoming apparent, with the data showing fewer inspections; PAI by US in EU are still conducted (10 in 2020)

## COLLABORATION, RELIANCE, DELEGATION

# Pandemic Showcases Demonstrate Opportunities Towards an Ideal State



Good reliance practices in the regulation of medical products: high level principles and considerations, WHO, TRS 1033, Annex 10, 2021, 237-267.



- Risk-based inspection planning, PIC/S guideline PI 037-1, 1 January 2012
- GMP-Inspection reliance, PIC/S guideline PI 048-1, 1 June 2018
- Classification of GMP Deficiencies, PIC/S guideline PI 040-1, 1 January 2019



Convergence of Good Manufacturing Practice (GMP) standards and Related Inspections, IFPMA Position paper, January 2020  
 S. Rönninger, P. Gough, V. Davoust, Opportunities for Saving Resources in the Regulatory Inspection Process: Mutual Recognition Agreements (MRA) Example EU/US, Pharm. Tech. Japan, 35, 2019, 15-25..

## COLLABORATION, RELIANCE, DELEGATION - MRA

# Reflections on Further Opportunities to Leverage MRAs



### EU / US

- \* We understand the challenges but expect the timeline to be met for recognition of inspections for Vaccines
- \* Opportunities for FDA to recognise PAI by US in EU and UK as this is included in the MRA



### EU / Canada

- \* We welcome the inclusion of APIs and inspections in 3<sup>rd</sup> countries



### EU / Japan

- \* We see opportunity for Japan to leverage the MRA also in context of the submissions  
<https://www.pmda.go.jp/files/000222303.pdf>



### Opportunity for future EU / UK MRA?

- \* The current trade agreement fall short on elements typically agreed in a MRA
- \* We see a large opportunity waiving import testing requirements to reduce duplication of efforts, environmental footprint etc.

## Wasting Resources



### Inspections in 3<sup>rd</sup> Countries



- Available information for an informed decision
- When equivalent standards are applied locally (e.g. inspectorate is member of PIC/S)
- Travel time limits effectiveness

### Import testing

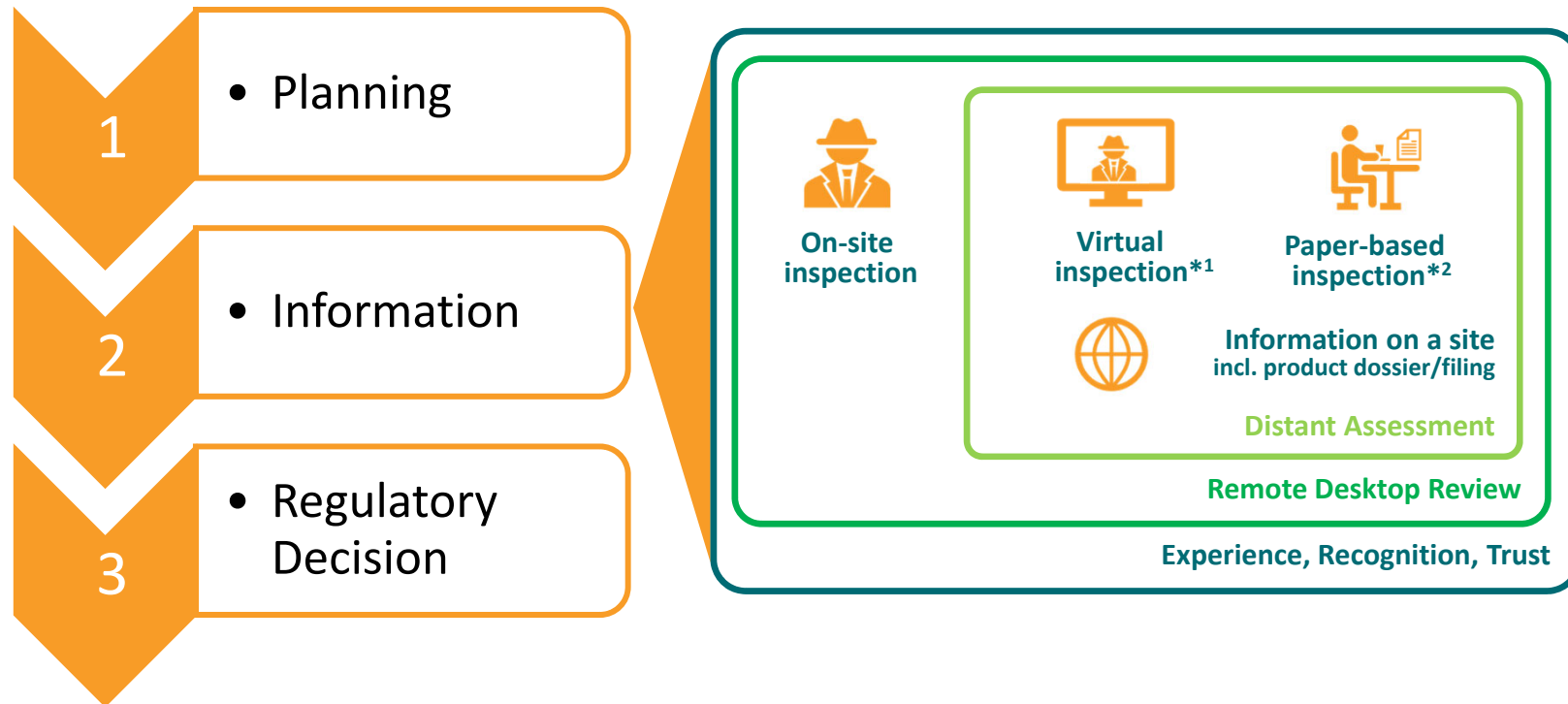


- Destroying medicines which cannot be delivered to patients
- Impacting shelf life by delaying delivery to patients by 1-2 m
- Supporting environmental pollution
  - Redundant tests (e.g., using solvents, energy)
  - Resources for storage (e.g., cold chain)

<https://www.ifoma.org/tag/import-testing/>

## INSPECTION PROCESS AND TOOLS

# Process to Confirm GMP Compliance Enabled Through Different Tools



\*<sup>1</sup> Virtual inspections are e-technology enabled; This mimics an on-site inspection (1) in format and overall time frame. Sometimes this may be called 'remote' or 'distant' or 'Real Time Remote' 'inspection' or 'assessment'

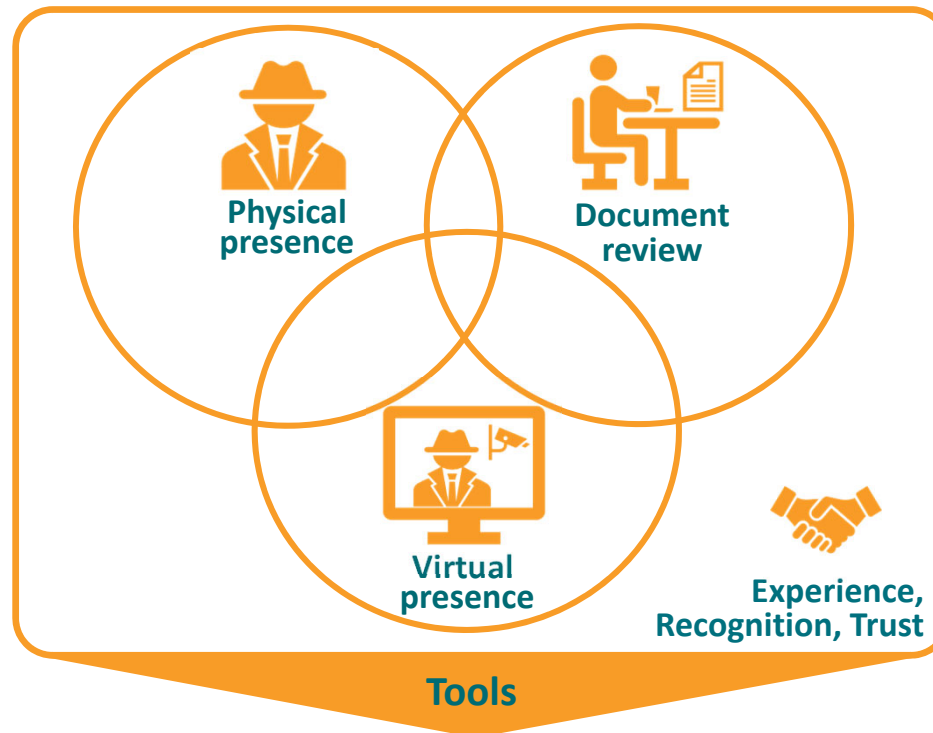
\*<sup>2</sup> Sometimes this may be called 'desk assessments', or see **Remote Interactive Evaluations of Drug...**, FDA , Guidance for Industry, [FDA-2020-D-1136](#), April 2021



## INSPECTION PROCESS AND TOOLS

# Agencies are using different Inspection Tools, Sometime in Combination

*They are not Equivalent - Each has Pros and Cons*



Supporting an informed decision

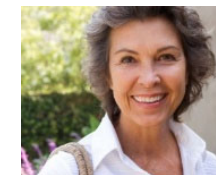


- a) GMP/GDP
- b) Filing (PAI)

### Confirm Compliance



Risk-based efficiency



efpia\*



## INSPECTION PROCESS AND TOOLS - VIRTUAL INSPECTIONS

# EFPIA Observations on Virtual Inspections: They can Confirm Compliance\*



\* No evidence, that legislation in the EU does prevent virtual assessments being the basis for a legal decision as an 'inspection' e.g., EMA *Guidance related to GMP/GDP and PMF distant assessments* [https://www.ema.europa.eu/en/documents/scientific-guideline/guidance-related-gmp/gdp-pmf-distant-assessments\\_en.pdf](https://www.ema.europa.eu/en/documents/scientific-guideline/guidance-related-gmp/gdp-pmf-distant-assessments_en.pdf)

## INSPECTION PROCESS AND TOOLS - VIRTUAL INSPECTIONS

# Industry and Regulators are on a Learning Curve Applying Virtual Tools



### Each inspection is different

- Some technological / privacy limitations
- Mixed feeling if a virtual inspection is more or less stressful than an on-site inspection



### Opportunity to work with defined agendas

- Some agencies do not report when the inspection has ended (e.g., Russia)



### Longer time for preparation when hosting virtual inspections

- More documents are requested in advance

## INSPECTION PROCESS AND TOOLS – LEARNING CURVE

# Predictable Preparation Efforts are Needed to Foster Efficiency of the Inspection Process

### \* Regarding documentation provided

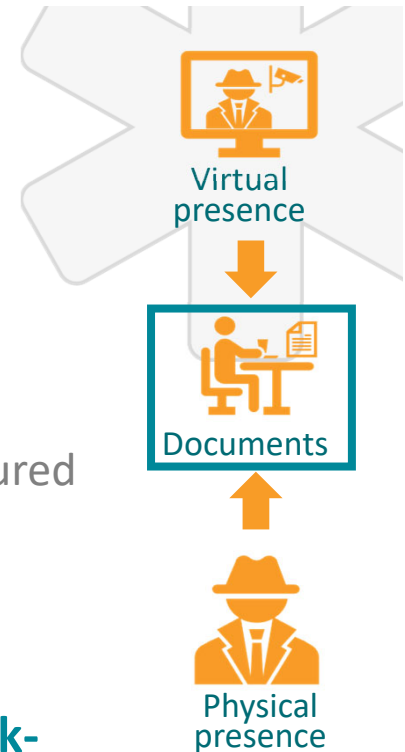
- \* Electronically saved documents shall be made available on a secured location
- \* English is the acceptable language for inspectorates
- \* Inspectors can clarify content in a virtual set up

### \* Successfully passed previous inspection should drive the risk-based inspection approach

- \* Companies should be informed, if reliance was used (also for PAI)

### \* Accelerate regulatory decisions on site compliance status

- \* Standardise the package of documents (e.g. within PIC/S) asked to be sent to inspectors for whatever inspection tool is used

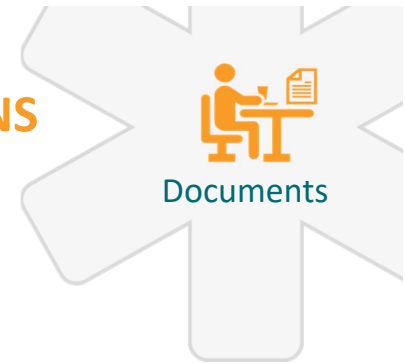


- Type (paper/virtual/on-site)
- Inspection frequency (→ 5y?)
- Drive for reliance
- Level of detail
- Length
- etc.



## INSPECTION PROCESS AND TOOLS – PAPER-BASED INSPECTIONS

# Standardise the Package of Documents to Streamline Efforts for all Inspection Types



- \* Inspectors can be more focused and effective
- \* Companies can be more focused and effective

Requested to deliver in more than 50% of the paper-based inspections are

1. SMF<sup>1</sup>
2. APQR<sup>1</sup>
3. List of inspections<sup>1</sup>
4. Detailed Process validation data<sup>2</sup>
5. Process Validation status<sup>2</sup>
6. SOP Change Control<sup>3</sup>
7. SOP Complaint handling<sup>3</sup>
8. Copy Batch Record<sup>3</sup>
9. List Variations<sup>2</sup>
10. List Recalls<sup>2</sup>



For consideration by PIC/S

Proposal for requested documents<sup>1</sup>

- SMF
- APQR<sup>2</sup>
- List of inspections
- Site Quality Manual (PQS)

1 Enhanced Good Manufacturing and Good Distribution Practices (GMP/GDP) Inspection Efficiency, EFPIA, *Position Paper*, 19. May 2014.

2 APQR included most lists requested e.g., variations, complaints, recalls, deviations

3 Principles are included in the Site Quality Manual (PQS)<sup>1</sup>

## COLLABORATION, RELIANCE, DELEGATION

# Potential Strategies Towards the Future



### Plan inspections based on risk

#### Consider

- Basics: compliance history, product criticality, etc.
- Coordination of inspections among agencies
- Expired GMP certificates may impact regulatory procedures
- Flexibility by using alternative tools including virtual inspection (also for PAIs) instead of postponing
- Coordination of certification audits by different notified bodies (note: privacy agreements)
- Support by a tool to coordinate inspections worldwide (e.g., by PIC/S)

### Evolve the traditional on-site approach

#### Adopt

- A hybrid approach with a focused on-site presence
- A clear, defined and followed timetable
- Using surveillance inspection to build in PAI elements, as applicable
- Allowing reliance on domestic inspections for license renewals or use virtual tool especially in 3rd countries

### Build reliance

#### Leverage

- Complete inspection history
- Reliance on domestic inspections especially if performed by PIC/S members
- Regional certificates (e.g. EAEU)
- MRAs: implement and extend

## ENSURING COMPLIANCE: APPROACHING FUTURE

# Example for a Future State: A Pragmatic Approach of Flexibilities for Inspection Supports Business Continuity

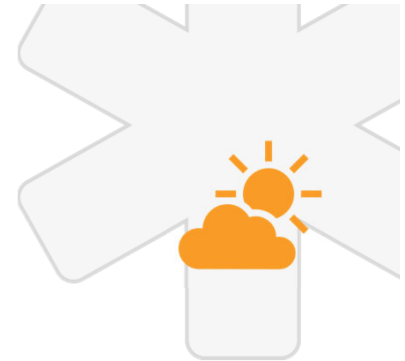


## 2020 Showcase

- \* **Virtual and paper-based inspections successfully confirm compliance**
  - \* No change in number and/or severity of observations had been reported
  - \* No significant differences in the perception of GMP-, GDP-inspections nor ISO certification audits are reported by companies
- \* **Companies (>90%) did not observe changes in inspection observations**
  - \* Individual companies reported shifts in observations towards e.g., Quality System areas, risk-assessment thoroughness, documentation accuracy, documentation practices
  - \* Companies were asked about drug shortage prevention measures - no particular challenges reported
- \* **Recommendation**
  - \* Opportunities to follow a clearly defined and executed schedule of an inspection including a defined endpoint

## ENSURING COMPLIANCE: APPROACHING FUTURE

# Making the Inspection Processes More Efficient



### Applying virtual tools allow for a better communication than sending documents

- Can performing compliance assessments using virtual tools fully replace on-site inspections?
- While on-site inspection by local inspectorates is a key asset, virtual inspection could be promoted wherever possible and/or pertinent

### Opportunities for a better risk-based approach

- Some inspectorates and notified bodies are coming very often to inspect the same sites
- If regulators and industry get more used to applying virtual tools it could allow saving of resources



## ENSURING COMPLIANCE: APPROACHING FUTURE

# Industry Vision for the Future: Risk-based Approaches by Inspectorates Implementing Reliance



### Ensure continued engagement on reliance approaches...



Manage the anticipated peak of on-site inspections in near term



Leverage domestic inspections to explore reliance pathways incl. PAI



Improve planning, scheduling, coordination and execution of inspections



Agile solutions using different tools and/or combinations rather than overloading sites with postponed on-site inspections



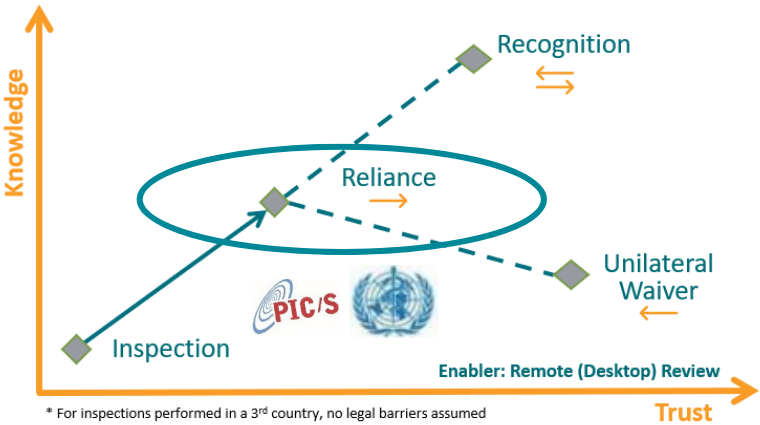
Prefer the virtual tool e.g., for surveillance inspections especially in 3<sup>rd</sup> countries - experience will further evolve over time

**...for timely approvals speeding access to medicines**



# Reliance

## The Ultimate Goal for an Efficient Inspection System?



# EFPIA'S ANNUAL INSPECTION SURVEY

## Additional References



### \* Guidance for regulators incl. inspectors

- \* PIC/S, **A recommended model for risk-based inspection planning in the GMP environment**, *Guideline PI 037-1*, 01. Jan 2012
- \* PIC/S, **GMP Inspection reliance**, *Guideline No PI 048-1*, 01. June 2018
- \* PIC/S, **Classification of GMP Deficiencies**, *Guideline No PI 040-1*, 01. January 2019
- \* WHO, **Good regulatory practices in the regulation of medical products**, WHO Technical Report Series, *1033, Annex 10*, **2021**, 237-267.

### \* Scientific Papers

- \* S. Rönninger, P. Gough, V. Davoust, **Opportunities for Saving Resources in the Regulatory Inspection Process: Mutual Recognition Agreements (MRA) Example EU/US**, *Pharm. Tech. Japan*, **35**, **2019**, 15-25.
- \* A. Meshkovskij, S. Rönninger, **National GMP Inspection Practice for Biotech Pharmaceuticals: Commonalities, Differences, Opportunities**, *CIS GMP News*, 2018, *1*, 26-31. <https://gmpnews.net/magazine/gmpnews-eng-2-1-2018/#page/26>
- \* H. Jin, N. Carr, H. Rothenfluh, TGA, **Medicines Regulations: Regulating Medicines manufacturers: Is an onsite inspection the only option?**, *WHO Drug Information*, 31/2, 2017, 153-157. [https://www.who.int/medicines/publications/druginformation/issues/WHO\\_DI\\_31-2\\_RegMedManufs.pdf](https://www.who.int/medicines/publications/druginformation/issues/WHO_DI_31-2_RegMedManufs.pdf)
- \* EMA, WHO, TGA, US-FDA, EDQM, Council of Europe, ANSM, DMA, HPRA AIFA, MHRA, **Report on the International Active Pharmaceutical Ingredient Inspection Programme 2011 – 2016**, March 2018, 1-13.
- \* S. Rönninger, J. Berberich, V. Davoust, P. Kitz, A. Pfenninger, **Landscape of GMP/GDP inspections in research-based pharmaceutical industry, Part I: Data**, *Pharm. Tech. Europe*, January, 2017, 6-10. <http://www.pharmtech.com/gmpgdp-inspection-landscape-part-i-data>; **Part II: Considerations and Opportunities**, *Pharm. Tech. Europe*, February, 2017, 5-9. <http://www.pharmtech.com/gmpgdp-inspections-landscape-part-ii-considerations-and-opportunities>
- \* A. Meshkovskij, S. Rönninger, **GMP Inspection practice: a case for global benchmarking, convergence and mutual reliance/recognition**, *The GMP News*, 2017, 2-9 (Rus).
- \* EFPIA Annual Inspection Survey, results 2018 [https://www.efpia.eu/media/361849/efpia-2018-reg-inspection-survey\\_public-summary.pdf](https://www.efpia.eu/media/361849/efpia-2018-reg-inspection-survey_public-summary.pdf)

### \* Industry Position Papers

- \* EFPIA: Annual Regulatory GMP/GDP Inspection Survey's <https://www.efpia.eu/about-medicines/development-of-medicines/regulations-safety-supply/regulatory-affairs/>
- \* EFPIA: **Enhanced Good Manufacturing and Good Distribution Practices (GMP/GDP) Inspection Efficiency**, 19. May 2014.
- \* EFPIA / PhRMA: **A Concept for Harmonized Reporting of Inspections**, 29. May 2015; *addendum of the PhRMA White Paper: 'Mutual Recognition of Drug GMP Inspections by U.S. & European Regulators'*, 15. May 2015. [http://www.efpia.eu/uploads/EFPIA\\_Position\\_Paper\\_A\\_Concept\\_for\\_Harmonized\\_Reporting\\_of\\_Inspections\\_final.pdf](http://www.efpia.eu/uploads/EFPIA_Position_Paper_A_Concept_for_Harmonized_Reporting_of_Inspections_final.pdf)
- \* IFPMA: **Convergence of Good Manufacturing Practice (GMP) standards and Related Inspections**, IFPMA Position paper, June 2017; update January 2020. <https://www.ifpma.org/wp-content/uploads/2017/06/IFPMA-Position-on-GMP-Convergence-Final-9June2017.pdf>
- \* IFPMA **Infographic**: [https://www.ifpma.org/wp-content/uploads/2018/02/GMP\\_IFPMA\\_02-20-2018-WEB.pdf](https://www.ifpma.org/wp-content/uploads/2018/02/GMP_IFPMA_02-20-2018-WEB.pdf)
- \* IFPMA: **Points to consider for virtual inspections**, 2021 <https://www.ifpma.org/tag/gmpgdp-inspection/>

## ACKNOWLEDGEMENT

# Contributors to the EFPIA Inspections Survey 2020

- \* AbbVie
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  - \* Boehringer Ingelheim
  - \* Bristol-Myers Squibb
  - \* Curida
  - \* Eli Lilly and Company
  - \* Grünenthal GmbH
  - \* GlaxoSmithKline
  - \* Johnson & Johnson
  - \* Lundbeck
  - \* Merck
  - \* MSD
  - \* Novartis
  - \* Novo Nordisk
  - \* Pfizer
  - \* Roche
  - \* Sanofi (incl. Pasteur, Genzyme)
  - \* Servier
  - \* Teva
  - \* UCB
  - \* Vistin Pharma
- National Trade Associations
- \* Farindustria (5 companies in Italy)
  - \* Apifarma (3 companies in Portugal)



European Federation of Pharmaceutical  
Industries and Associations

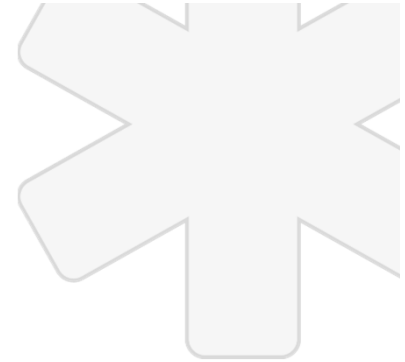


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## BACK UP

# Supporting Data and Details

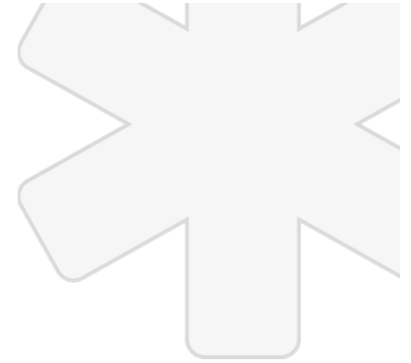


## \* Collaboration, Reliance, Delegation

## \* Survey Data and Trends

1. Foreign Inspections (incl. MRA EU/US)
2. Domestic Inspections
3. Paper-based Inspections
4. Inspection process and tools
5. Location of Manufacturing sites
6. Resource Considerations

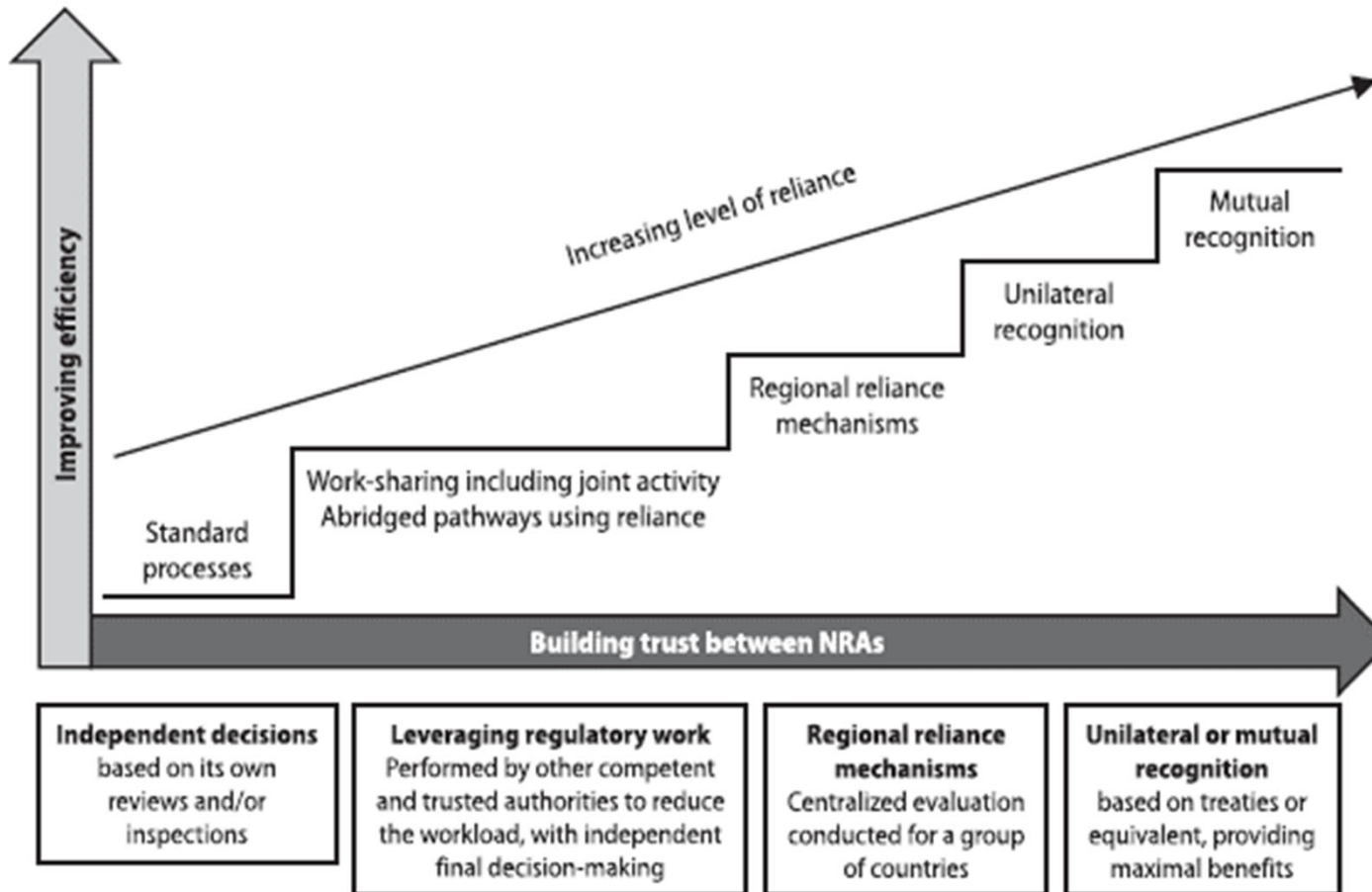
## SUPPORTING MESSAGES



# Collaboration, Reliance, Delegation

## COLLABORATION, RELIANCE, DELEGATION

# WHO now Recommends the Key Concepts of Reliance



Good reliance practices in the regulation of medical products: high level principles and considerations, WHO, *TSR 1033, Annex 10, 2021, 237-267.*

EFPIA ANNUAL INSPECTION SURVEY - 2020 DATA



## COLLABORATION, RELIANCE, DELEGATION

# WHO now Recommends the Key Concepts of Reliance *Glossary*



### \* Recognition **must**

- \* Acceptance of the regulatory decision of another regulator or trusted institution
- \* Recognition should be based on evidence that the regulatory requirements of the reference regulatory authority are sufficient to meet the regulatory requirements of the relying authority
- \* Recognition may be unilateral or mutual and may, in the latter case, be the subject of a mutual recognition agreement

### \* Reliance **may**

- \* The act whereby the regulatory authority in one jurisdiction takes into account and gives significant weight to assessments performed by another regulatory authority or trusted institution, or to any other authoritative information, in reaching its own decision
- \* The relying authority remains independent, responsible and accountable for the decisions taken, even when it relies on the decisions, assessments and information of others




**Good reliance practices in the regulation of medical products: high level principles and considerations,**  
WHO, *TSR 1033, Annex 10, 2021*, 237-267 – chapter 4: glossary

EFPIA ANNUAL INSPECTION SURVEY - 2020 DATA

# COLLABORATION, RELIANCE, DELEGATION


## A Simple and Qualitative Tool for Inspection Planning






### Elements


- Knowledge of the GMP compliance status of the site
- Footprint of critical and major deficiencies
- Type of inspection i.e., routine, for cause, pre-approval






### Hazards to consider


- **Intrinsic risk**
  - Complexity of site, Processes and Products, Criticality to availability
- **Compliance-related risk**
  - GMP/GDP / CMC, regulatory status (incl. e.g., number of deficiencies)





### Output

- Risk ranking ('Quality metrics')
- Inspection frequency
- Required number of inspectors and competence / expertise
- Scope, focus, depth & duration of the next routine inspection



## Fulfill the Legal Requirement for 'Inspection'

Appendix 1: The Worksheet used by this Quality Risk Management Tool

**PART A – Preliminary Information about the Site**

Site Name: \_\_\_\_\_  
 Site Address: \_\_\_\_\_  
 Licence Number (if any): \_\_\_\_\_  
 PIC or 201 Manufacturer's: \_\_\_\_\_  
 Last Inspection Date: \_\_\_\_\_  
 Name of previous lead Inspector: \_\_\_\_\_

**PART B – The Intrinsic Risk Associated with the Site**

Risk Factor	Risk Score	Matrix for Estimating the Intrinsic Risk								
The Complexity of the site, its processes and products, is regarded as:	1 2 3 Circle one	<table border="1"> <tr> <td>Complexity</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td></td> <td>1 (Low)</td> <td>2 (Med)</td> <td>3 (High)</td> </tr> </table>	Complexity	1	2	3		1 (Low)	2 (Med)	3 (High)
Complexity	1	2	3							
	1 (Low)	2 (Med)	3 (High)							
The Criticality of the products manufactured by the site or the criticality of the analytical testing or other service offered provided by the site, is regarded as:	1 2 3 Circle one	<table border="1"> <tr> <td>Criticality</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td></td> <td>1 (Low)</td> <td>2 (Med)</td> <td>3 (High)</td> </tr> </table>	Criticality	1	2	3		1 (Low)	2 (Med)	3 (High)
Criticality	1	2	3							
	1 (Low)	2 (Med)	3 (High)							

Use the above matrix and record the Intrinsic Risk associated with the site below:  
 Low  Medium  High

**PART C – The Compliance-related Risk based on the last inspection**

The compliance risk indicated by the most recent deficiency profile of the site is:	Low <input type="checkbox"/>	Medium <input type="checkbox"/>	High <input type="checkbox"/>
	No Major or Critical Deficiencies	1 or 2 Major Deficiencies; Number of Minors = 1 or more Critical Deficiencies or more than 5 Minors	More; Customise as appropriate

**PART D – The Risk Rating assigned to the Site**

Complete the matrix below by combining the Intrinsic risk score and the Compliance-related risk score to determine the Risk Rating for the site.

Compliance Risk	Intrinsic Risk		
	Low	Medium	High
Low	Risk Rating = A	Risk Rating = B	Risk Rating = C
Medium	Risk Rating = A	Risk Rating = B	Risk Rating = C
High	Risk Rating = A	Risk Rating = B	Risk Rating = C

The Risk Rating associated with this site is: A  B  C

**PART E – The Recommended Frequency for Routine Inspections at the Site**

Using the Risk Rating, the recommended frequency for routine inspections at the site is an inspection every: \_\_\_\_\_  
 A) 12 months (12 to 18 m)  
 B) 6 months (6 to 9 m)  
 C) 3 months (3 to 6 m)  
 Customise as appropriate: \_\_\_\_\_ Years or \_\_\_\_\_ Months

**PART F – Recommended Scope of the next Routine Inspection**

Note: This Part should be periodically updated if new information is received about the site before the next routine inspection that may warrant a change in the scope of that inspection.

For example, information can be received relating to: Quality Defects, Recalls, Market Surveillance Find Results, Enforcement investigations, and other indicators of non-conformance such as the failure to implement a variation to an MA, that might require the scope of the next inspection to be changed. Information may also relate to major changes at the site (indicated perhaps via an MA variation or a manufacturing authorisation variation submission) and this may warrant a change in scope.

Document on the right the recommended focus & depth of the next routine inspection.

Note: Take into account the following:

- The areas in which deficiencies were identified during the most recent inspection at the site, particularly major and critical deficiencies;
- The areas that were not inspected (or that were not inspected in detail) during the most recent inspection at the site;
- The areas that were considered inadequately resourced at last inspection;
- Planned changes at the site that may alter the complexity or critically risk ratings associated with the site;
- Any other areas that the inspector feels warrant review at the next inspection.

Document on the right the required duration of the next routine inspection.

Document on the right the required number of inspectors that should be assigned to the next routine inspection.

Document on the right any specific competence or expertise that will be required on the inspection team when performing the next routine inspection of the site.

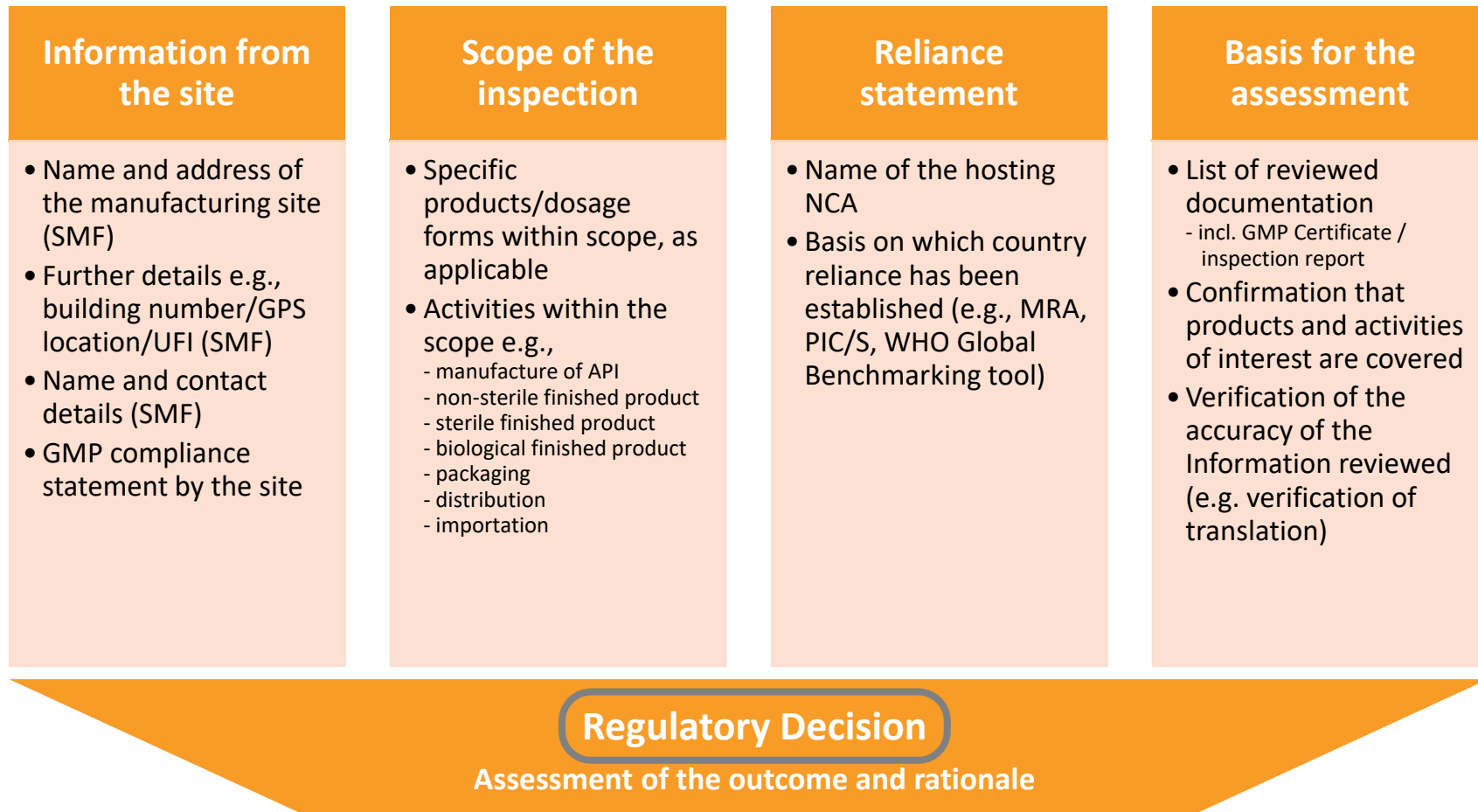
**PART G – Signatures & Dates**

Record here the names of the persons who completed this quality Risk management exercise, and sign and date this form:

Name: \_\_\_\_\_ Name: \_\_\_\_\_  
 Name: \_\_\_\_\_ Name: \_\_\_\_\_  
 Signed: \_\_\_\_\_ Date: \_\_\_\_\_

## COLLABORATION, RELIANCE, DELEGATION

# Content of GMP Inspection 'Reliance Assessment Report'



## COLLABORATION, RELIANCE, DELEGATION

# Inspections by a Local Inspectorate can be More Efficient and Mature than an Inspection from a 3<sup>rd</sup> Country



### Prerequisite

- High quality standards embraced and supported by the local government
- Evaluation of national regulatory systems by an independent control / maturity metrics e.g., PIC/S member inspectorates, WHO Global Benchmarking Tool

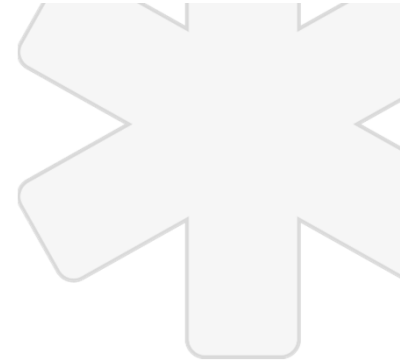
### Advantage

- The local inspectorate has
- Flexibility regarding coming back and following up on issues
  - Knowledge on the site specific history
  - Insight on culture i.e., do/don'ts in the local area
  - Optimisation of resources
  - Benefit from improved inspection logistics e.g., no language barrier, less travel / environmental friendly

### Transparency

- A non-compliant local site may put the integrity of the local inspectorate at risk
- Direct access for feedback on CAPAs
- Inspectorates may not like to see their local manufacturing sites in the headlines

SUPPORTING MESSAGES



# Survey Data and Trends

## SURVEY DATA AND TRENDS - RESULTS 2020

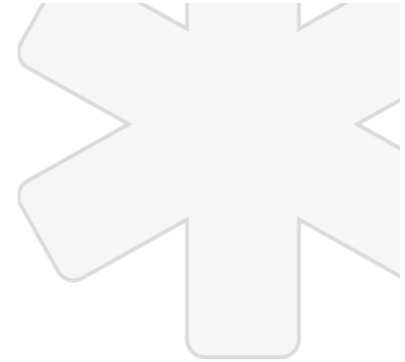
### Lessons Learned from the Data 1/2



- \* **More than 50% of the inspections are reported at sites located in the EU**
  - \* We are assuming that research based manufacturers have a very strong European presence above any other country or region
  
- \* **Evolution of number of foreign inspections versus manufacturing sites is back to the baseline from 2006**
  - \* The inspection rate for foreign inspection was continuously reduced till 2012 with the Russian driven peak in 2016/2017 and dropped in 2020
  
- \* **We understand there are opportunities for a better risk-based approach as some inspectorates are coming very often inspecting to the same sites e.g.,**
  - \* Russia (11), Japan (9), Turkey (6), Brazil (3), US (3)
  
- \* **We understand some inspectorates are usually showing up with more than 2 inspectors at a site e.g., EMA, Japan, Singapore, US.**
  - \* This can be for training purpose or including a CMC-reviewer

## SURVEY DATA AND TRENDS – RESULTS 2020

### Lessons Learned from the Data 2/2

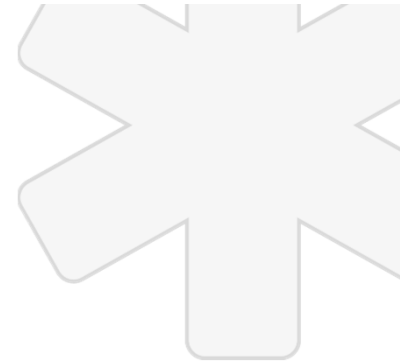


#### \* Inspections

- \* Although there were significantly fewer foreign inspections (approx. -50%) the number of sites with inspections remains comparable to previous years
- \* Inspections from domestic inspectorates seem to be more effective to uncover issues as more follow-up investigations are reported
- \* Pre-approval inspections, especially when paper-based, may be understood as a bureaucratic act in the registration process

#### \* Certification Audits

- \* Certification audits are shorter in duration than regulatory inspections
  - \* Assumption: do they know the site and look in updates only?
- \* Notified body certifications are reported several times at the same site (up to 9)
  - \* Then product wise certification is a requirement this may drive to duplication the oversight of the Quality System (for devices) at a specific manufacturing site



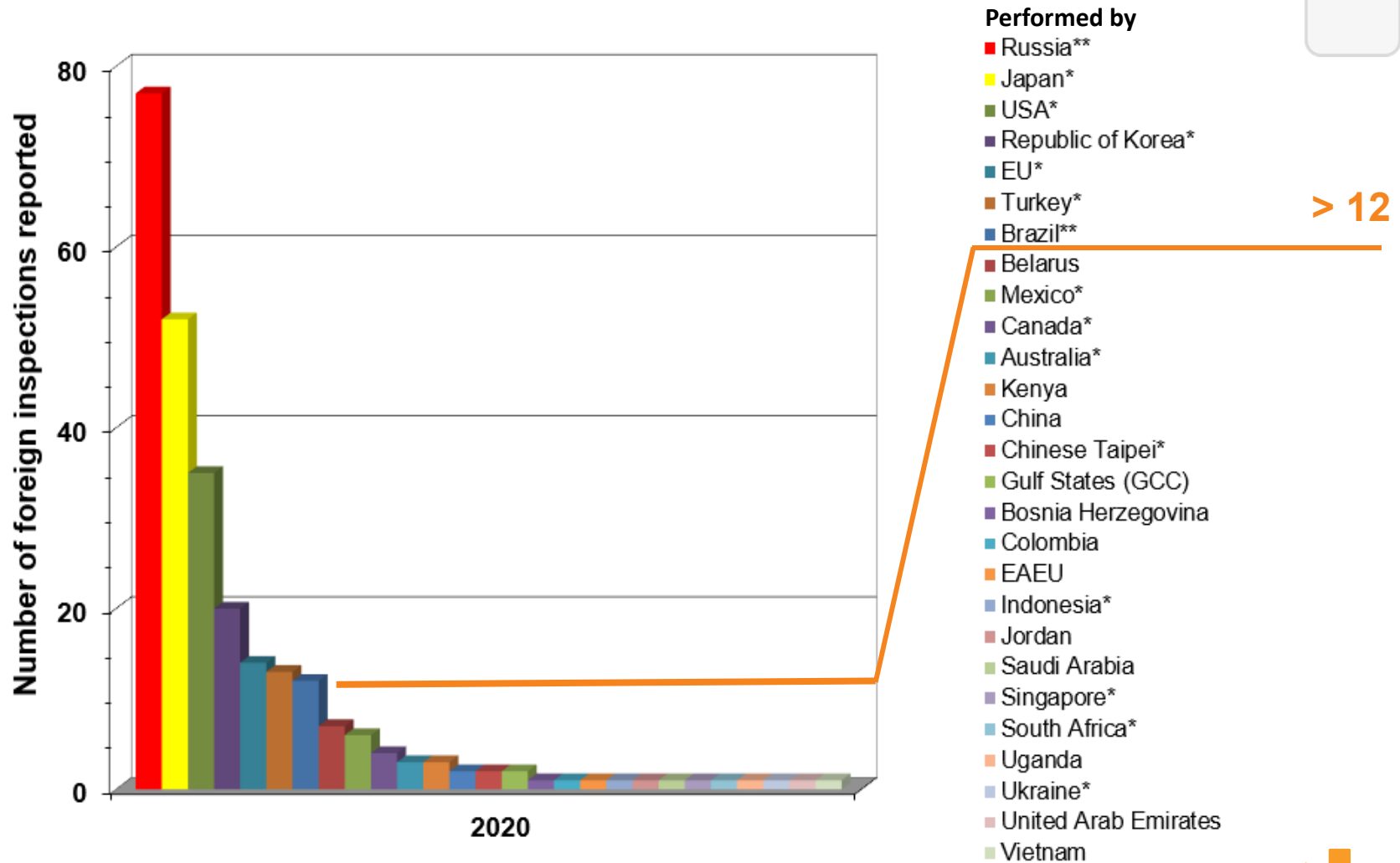
# Foreign Inspections

(incl. MRA EU/US)



## SURVEY DATA AND TRENDS 1: FOREIGN INSPECTIONS

### Number of Foreign Inspections at Manufacturing Sites ordered by country (>1 inspections; EU as one entity; all inspection modes)



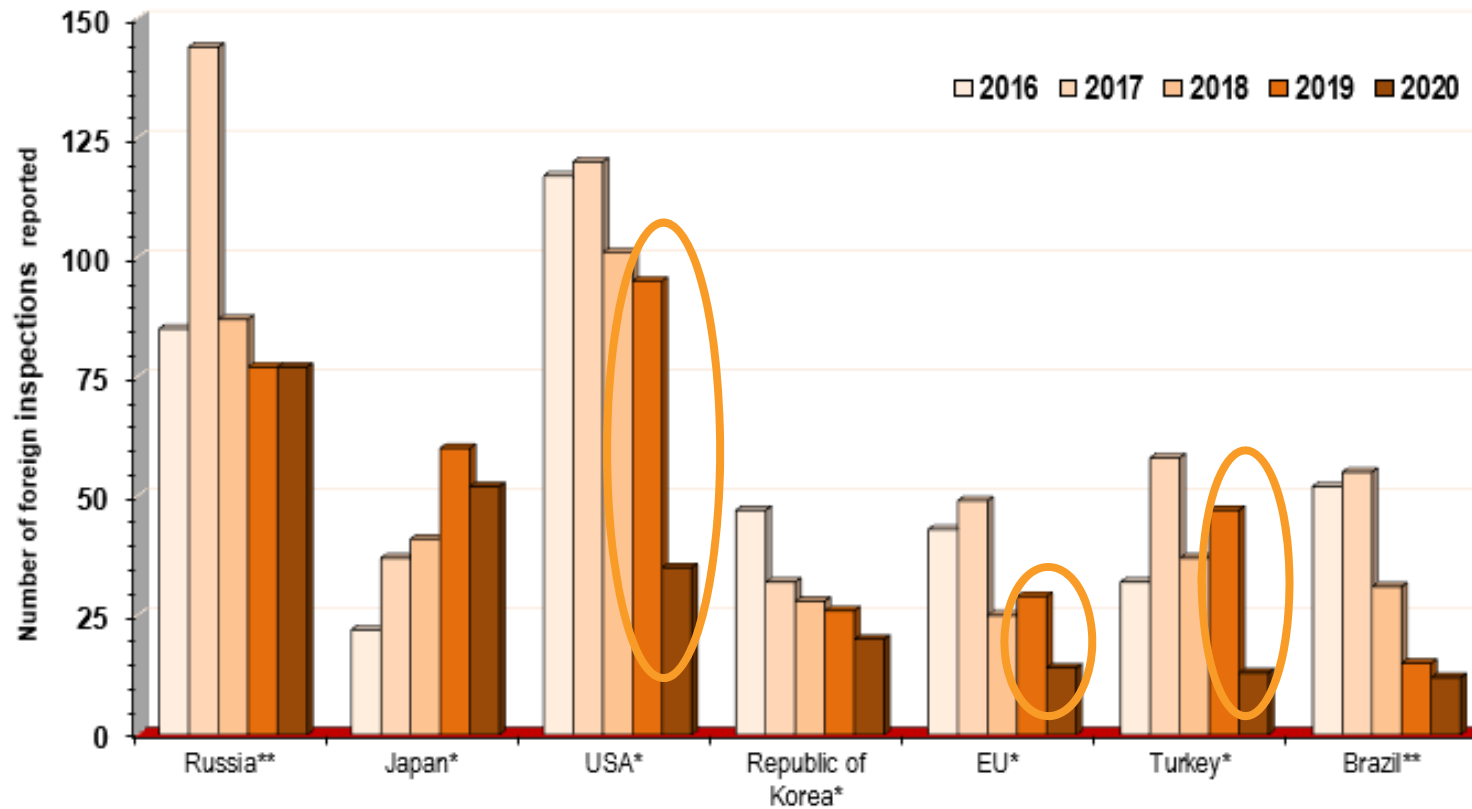
\*Inspectorate is a PIC/S member \*\*PIC/S Applicant \*\*\*PIC/S Pre-Applicant

EFPIA ANNUAL INSPECTION SURVEY - 2020 DATA

Reported foreign inspections on all countries listed

## SURVEY DATA AND TRENDS 1: FOREIGN INSPECTIONS

# Number of Foreign Inspections by Country - A Year Like No Other

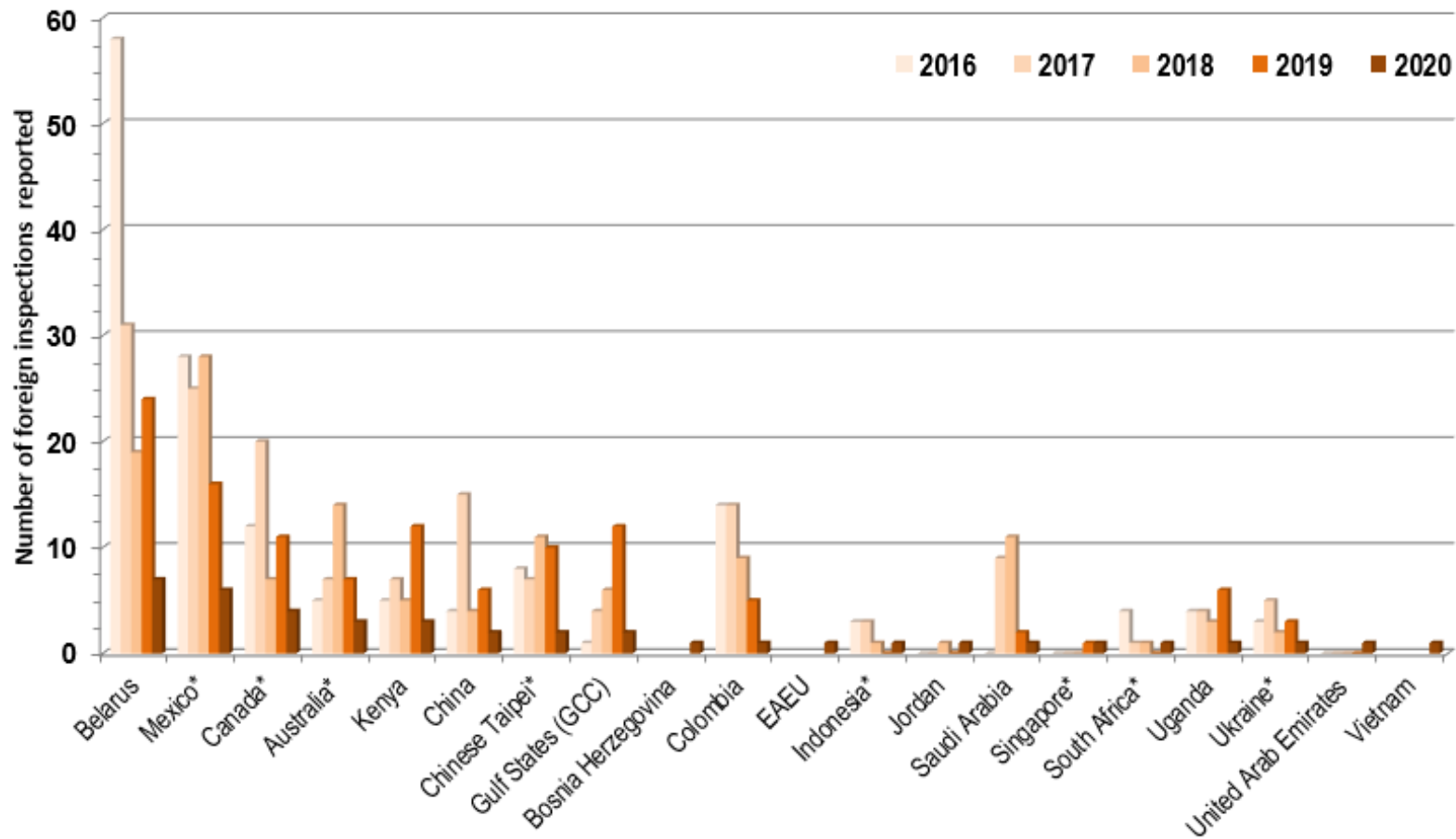


\*Inspectorate is a PIC/S member \*\*PIC/S Applicant \*\*\*PIC/S Pre-Applicant

EFPIA ANNUAL INSPECTION SURVEY - 2020 DATA

## SURVEY DATA AND TRENDS 1: FOREIGN INSPECTIONS

# Number of Foreign Inspections by Country - A Year Like No Other: 2020 Reduces Compared to 2019

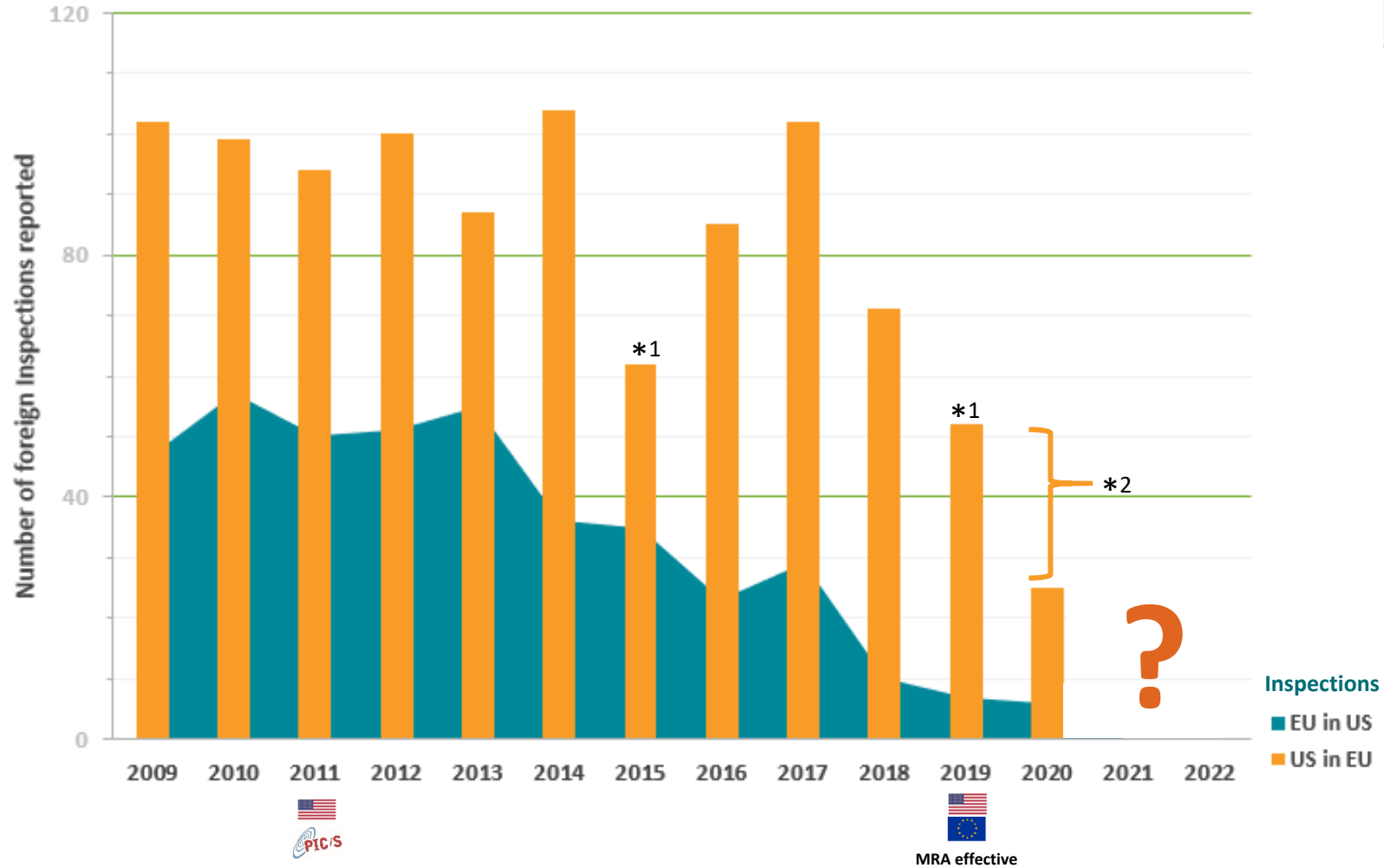


\*Inspectorate is a PIC/S member \*\*PIC/S Applicant \*\*\*PIC/S Pre-Applicant

EFPIA ANNUAL INSPECTION SURVEY - 2020 DATA

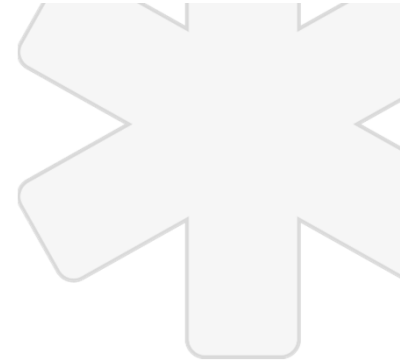
## SURVEY DATA AND TRENDS 1: FOREIGN INSPECTIONS - MRA EU/US

# Full EU / US MRA Implementation Could Leverage Further Benefit



\*1 Government shut down in US >20 days

\*2 Effect may only result from the general reduction of foreign inspections in 2020 (~50%)

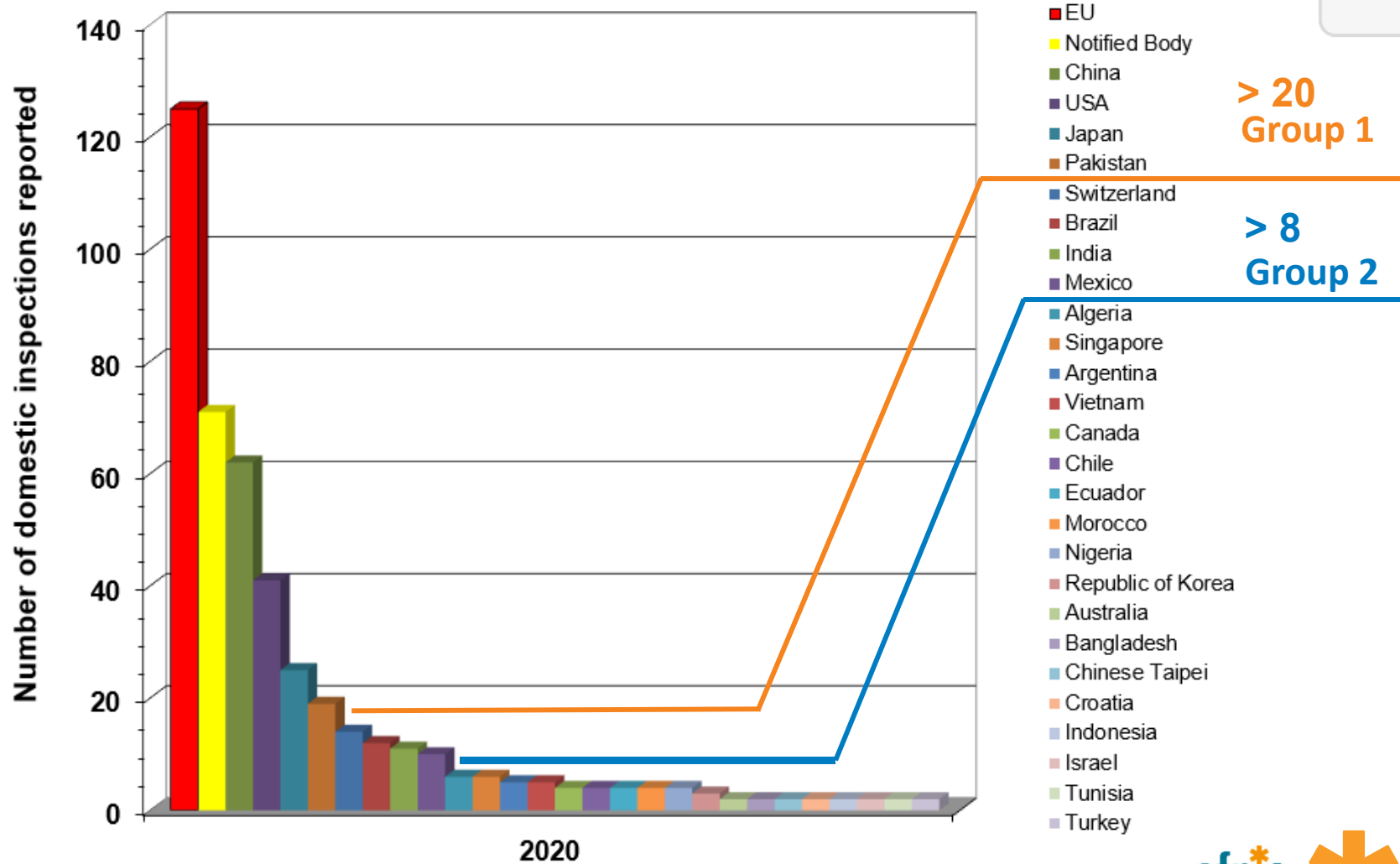


# Domestic Inspections

## SURVEY DATA AND TRENDS 2: DOMESTIC INSPECTIONS

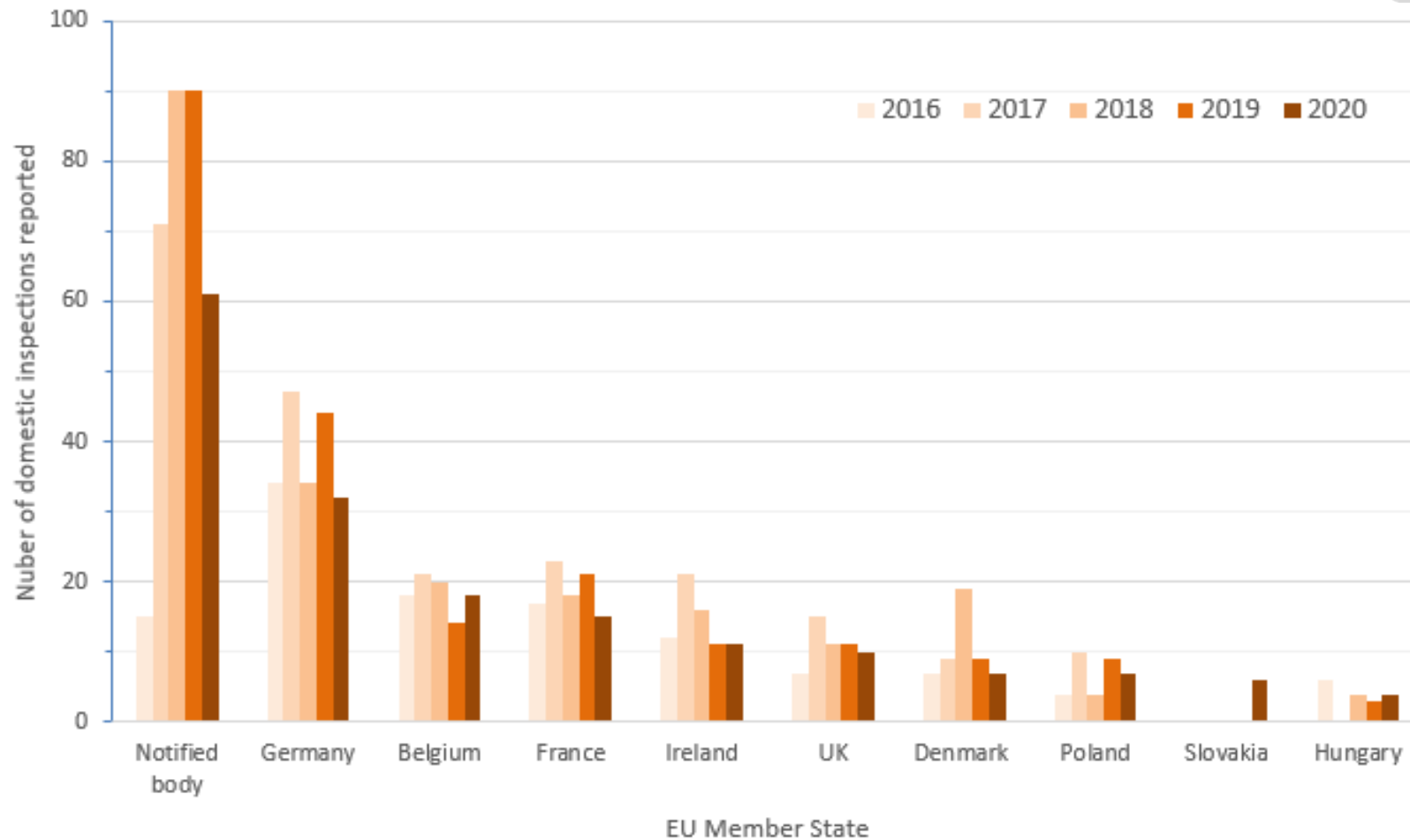
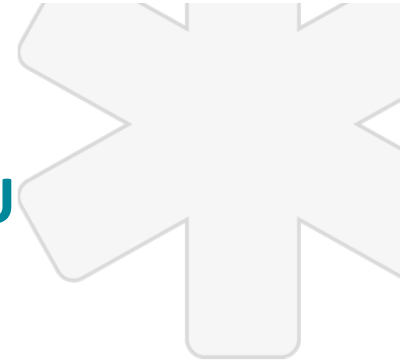
### Number of Domestic Inspections

ordered by country (>1 inspections; EU as one entity; manufacturing sites)



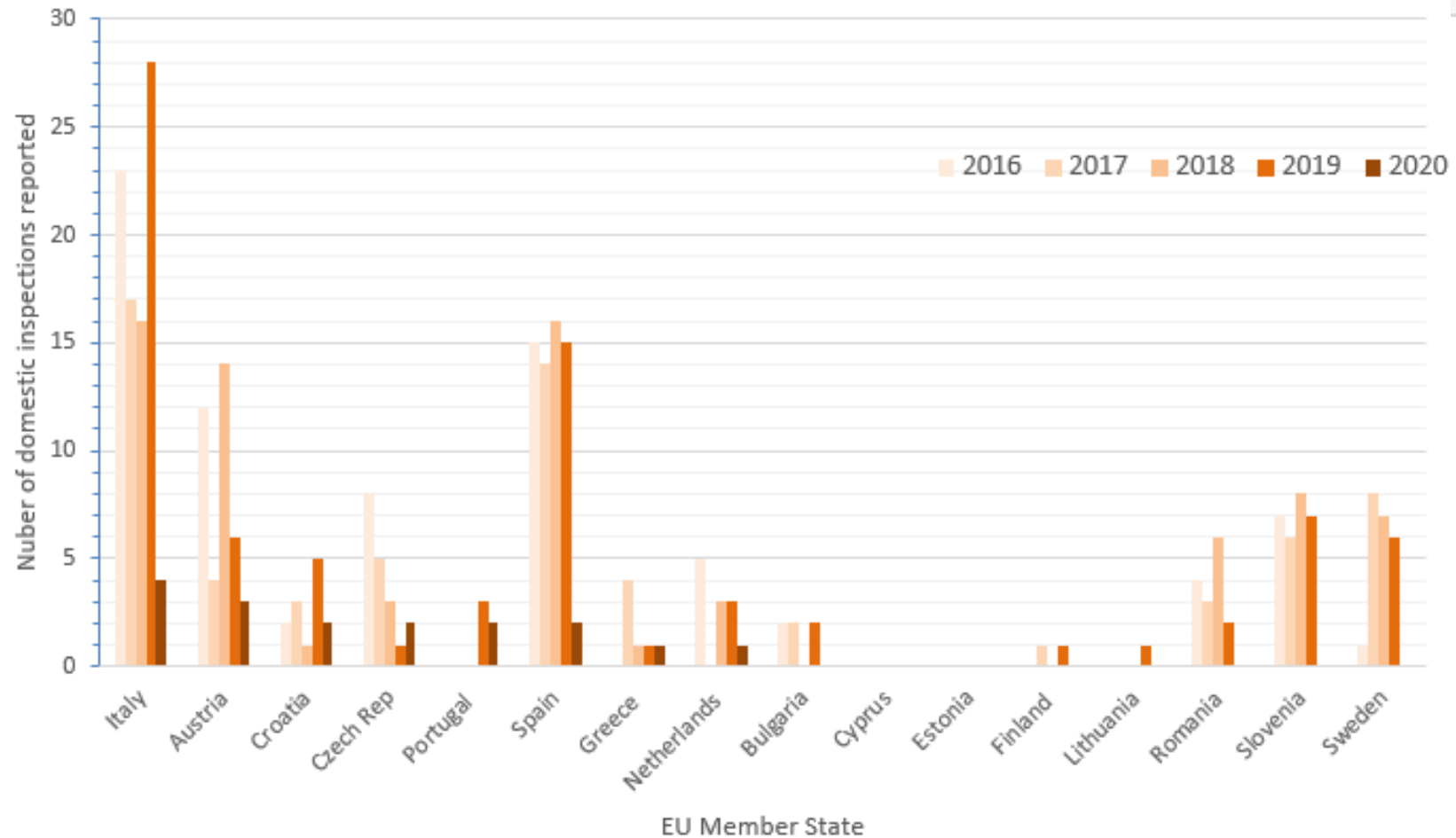
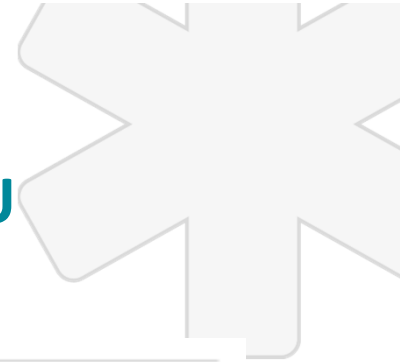
## SURVEY DATA AND TRENDS 2: DOMESTIC INSPECTIONS

# Number of reported Domestic Inspections by EU Member States 1/2

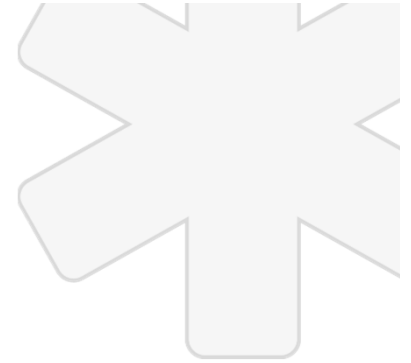


## SURVEY DATA AND TRENDS 2: DOMESTIC INSPECTIONS

# Number of reported Domestic Inspections by EU Member States 2/2



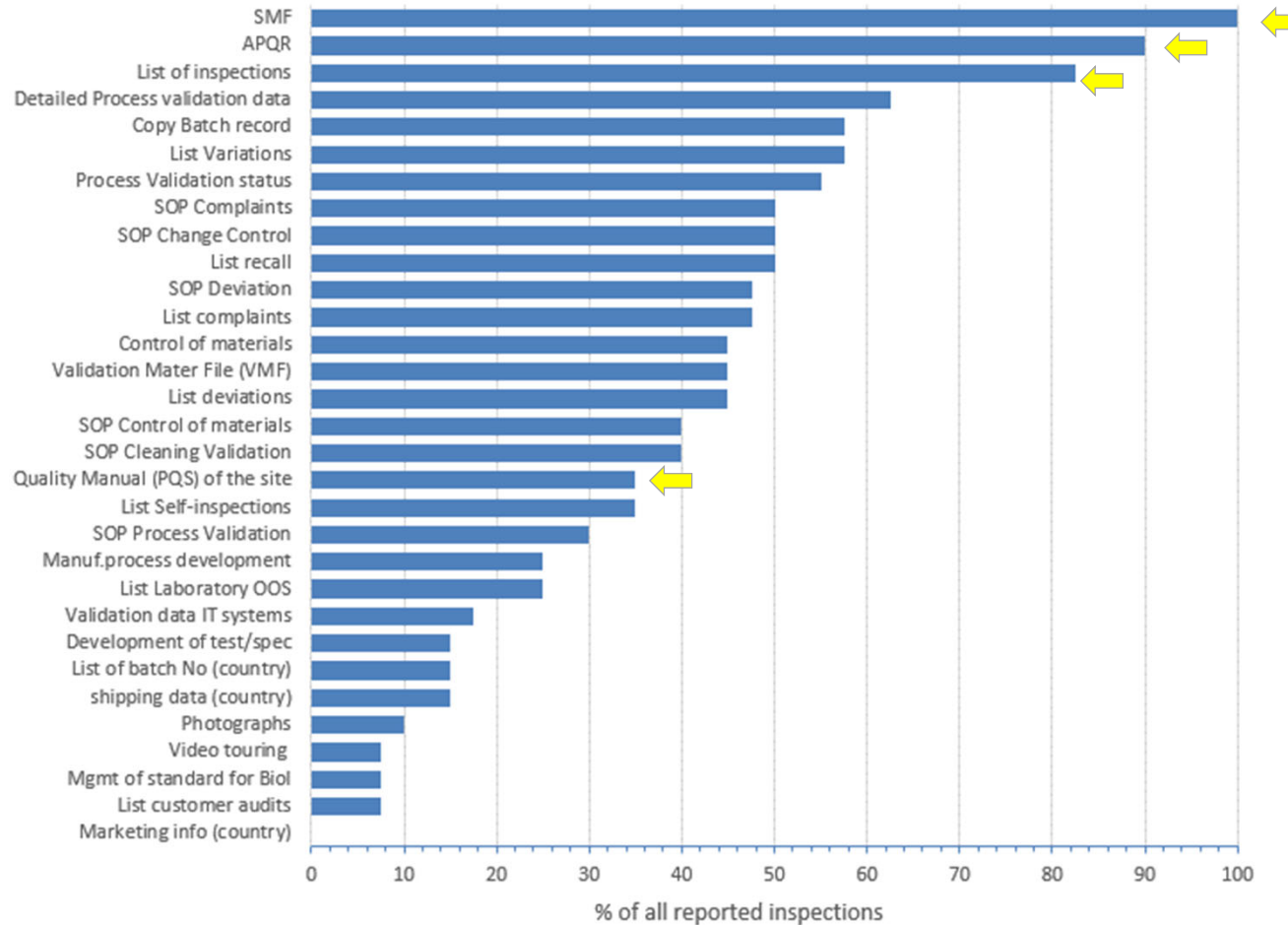
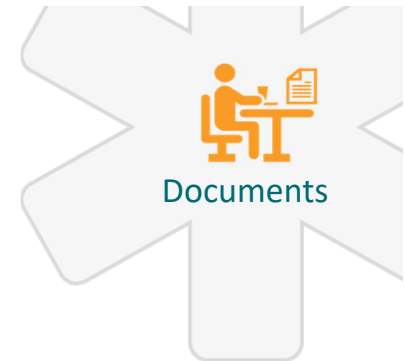




# Paper-based Inspections

## SURVEY DATA AND TRENDS 3: PAPER-BASED INSPECTIONS

### How often is a Document Type Requested *Most countries*



Number of documents to be submitted

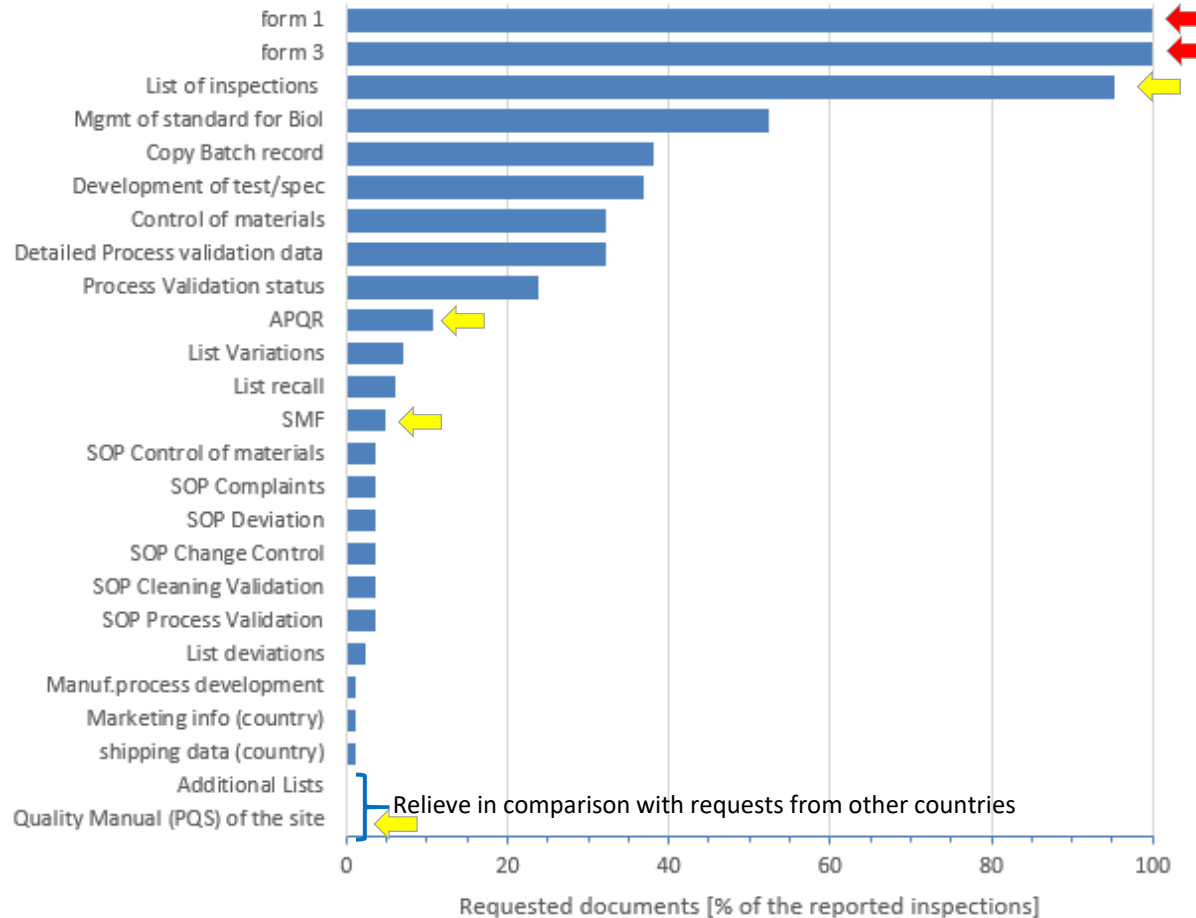
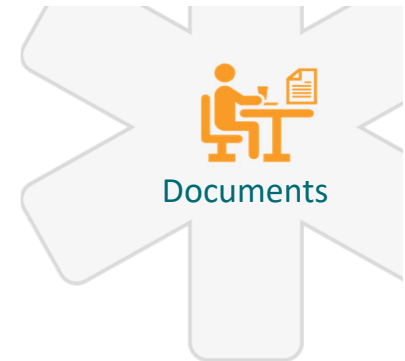
* Min	1
* Mean	10
* Average	34
* Max	700

➔ Considered as primary documents to be asked in paper-based inspections (see Enhanced Good Manufacturing and Good Distribution Practices (GMP/GDP) Inspection Efficiency, EFPIA, *Position Paper*, 19. May 2014)

SEPARATE SURVEY: 270 DATA POINTS (01.JAN.2019 - 31.JUNE.2020) PROVIDED BY 11 COMPANIES

## SURVEY DATA AND TRENDS 3: PAPER-BASED INSPECTIONS

### How often is a Document Type Requested *One specific example*



#### Number of documents to be submitted

- \* Min 2
- \* Mean 8
- \* Average 15
- \* Max 200

➔ Agency's [regulatory requirement](#)

➔ Considered as primary documents to be asked in paper-based inspections (see Enhanced Good Manufacturing and Good Distribution Practices (GMP/GDP) Inspection Efficiency, EFPIA, *Position Paper*, 19. May 2014)

SEPARATE SURVEY: 270 DATA POINTS (01.JAN.2019 - 31.JUNE.2020) PROVIDED BY 11 COMPANIES

## SURVEY DATA AND TRENDS 3: PAPER-BASED INSPECTIONS

# Information Provided by the Site can Follow a Commonly Agreed Standard for Paper Based Inspections



### Site



- Site Master File (SMF)\*

### Product



- Annual Product Quality Review

### Pharmaceutical Quality System



- Site Quality Manual

### Additional information



- List of inspections / audits



Adobe Acrobat  
Document

Enhanced GMP/GDP Inspection Efficiency,  
EFPIA, Position Paper 19. May 2014.



Adobe Acrobat  
Document

Optimising the GMP paper based Inspection  
Process EFPIA, Position Paper 26. June 2019.

\*EXPLANATORY NOTES FOR PHARMACEUTICAL MANUFACTURERS ON THE PREPARATION OF A SITE MASTER FILE, PIC/S PE 008-4, Annex 1, January 2011

EFPIA ANNUAL INSPECTION SURVEY - 2020 DATA

GMP-INSPECTION RELIANCE, PIC/S GUIDELINE PI 048-1, 01 JUNE 2018, CHAPTER 5.3.1



# Inspection process and tools

## SURVEY DATA AND TRENDS 4: INSPECTION PROCESS AND TOOLS

### Examples of Inspection at one Manufacturing Site of Different Companies



Site in country	Domestic inspections	Foreign inspections	Sum	Foreign inspectorates
Denmark	2	7	9	Japan (3), Russia (2), Brazil (1), Turkey (1)
Germany	6	3	9	Russia (2), Turkey (1)
Denmark	2	6	8	Japan (3), Brazil (1), GCC (1), US (1)
Slovenia	7	1	8	Russia (1)
Denmark	0	7	7	Australia (1), Japan (3), Brazil (1), Russia (1), Turkey (1)
Switzerland	4	3	7	Belarus (1), Russia (1), Turkey (1)
Austria	3	3	6	Russia (3)
Belgium	3	3	6	Turkey (1), Russia (1), US (1)
France	1 (+2*)	3	6	Russia (1), Turkey (1), US (1)
US	2	4	6	EMA (1), Japan (1), Republic of Korea (1), Russia (1),

Top 6 and more inspections at one site if reported by the companies

- Domestic inspections only by
  - China: 3 sites with 7 inspections and 2 sites with 6 inspections
  - Belgium: 1 site with 5 inspections + 1 Notified Body
  - Japan: 1 site with 6 inspections
  - Saudi Arabia: 1 site with 6 inspections
  - Switzerland 1 site with 7 inspections (6 by Notified Body)
  - US: 1 site with 12 inspections (9 by Notified Bodies)

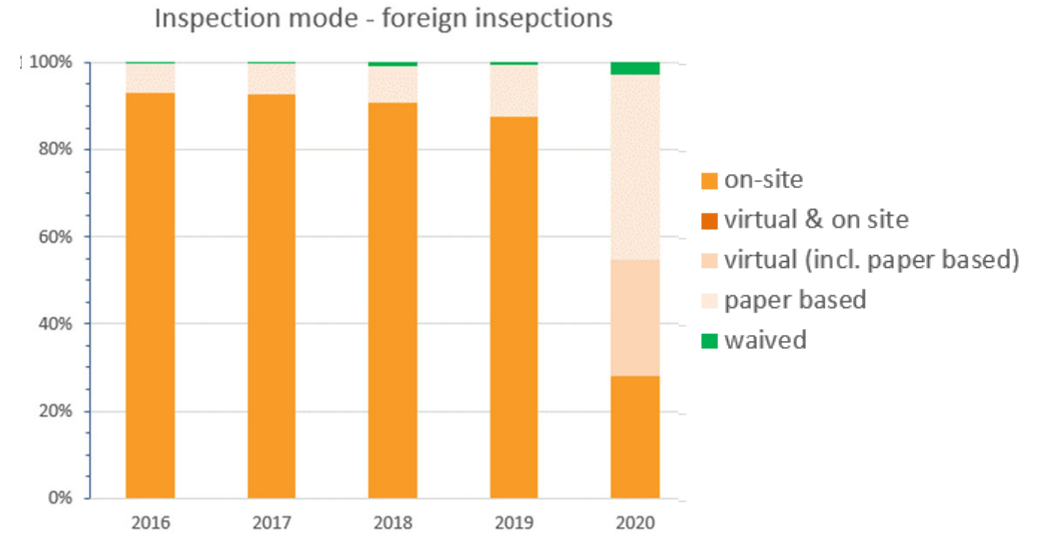
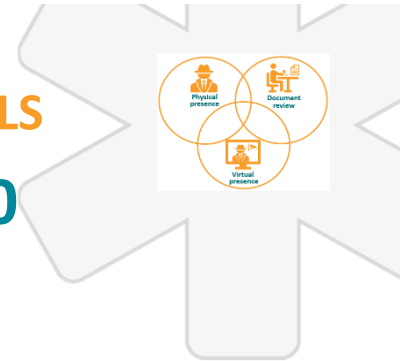
**Consideration:** Notified body certifications are reported site several times (up to 9) at the same site. Then product wise certification requirement may drive to duplication in the oversight of the Quality System (for devices) at a specific manufacturing site

#### \* Countries with opportunities for a better risk-based approach include

- \* Russia (11)
- \* Japan (9)
- \* Turkey (6)
- \* Brazil (3)
- \* US (3)

## SURVEY DATA AND TRENDS 4: INSPECTION PROCESS AND TOOLS

# The Use of Inspection Tools has Changed in 2020

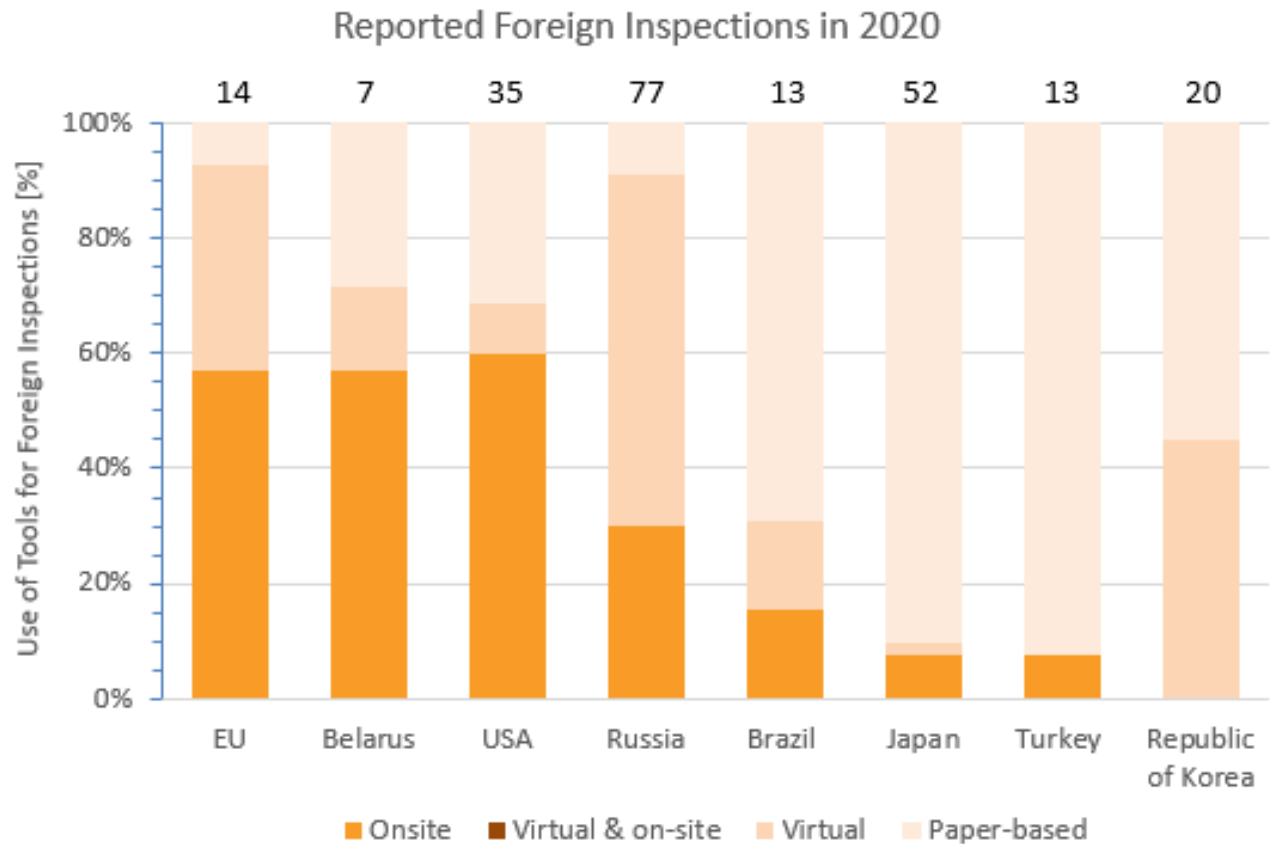
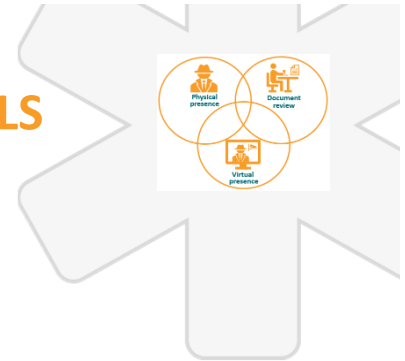


- \* > 80% of the domestic inspections have at least a partial on-site presence
- \* < 25% of the foreign inspections have been conducted with on-site presence

## SURVEY DATA AND TRENDS 4: INSPECTION PROCESS AND TOOLS

### Inspectorates Vary in the Use of the Tools

*Example: Foreign Inspections*



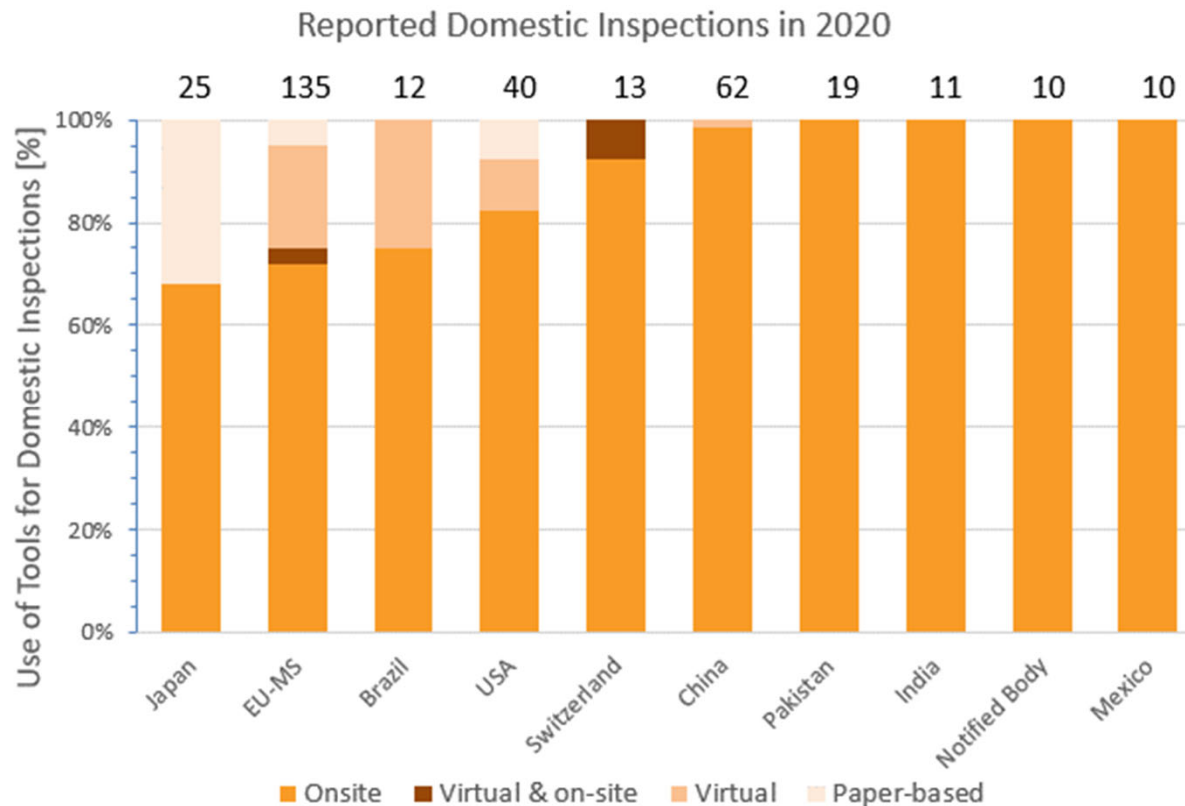
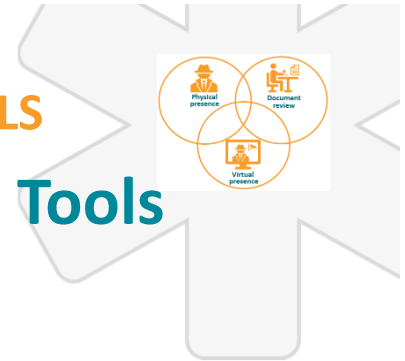
**Note: no agency is reported to use a hybrid approach in foreign inspections**



## SURVEY DATA AND TRENDS 4: INSPECTION PROCESS AND TOOLS

# EU Member States\* used Alternative Inspection Tools

*Example: Domestic Inspections*



\* Experience with implementing the virtual inspection tool is reported by

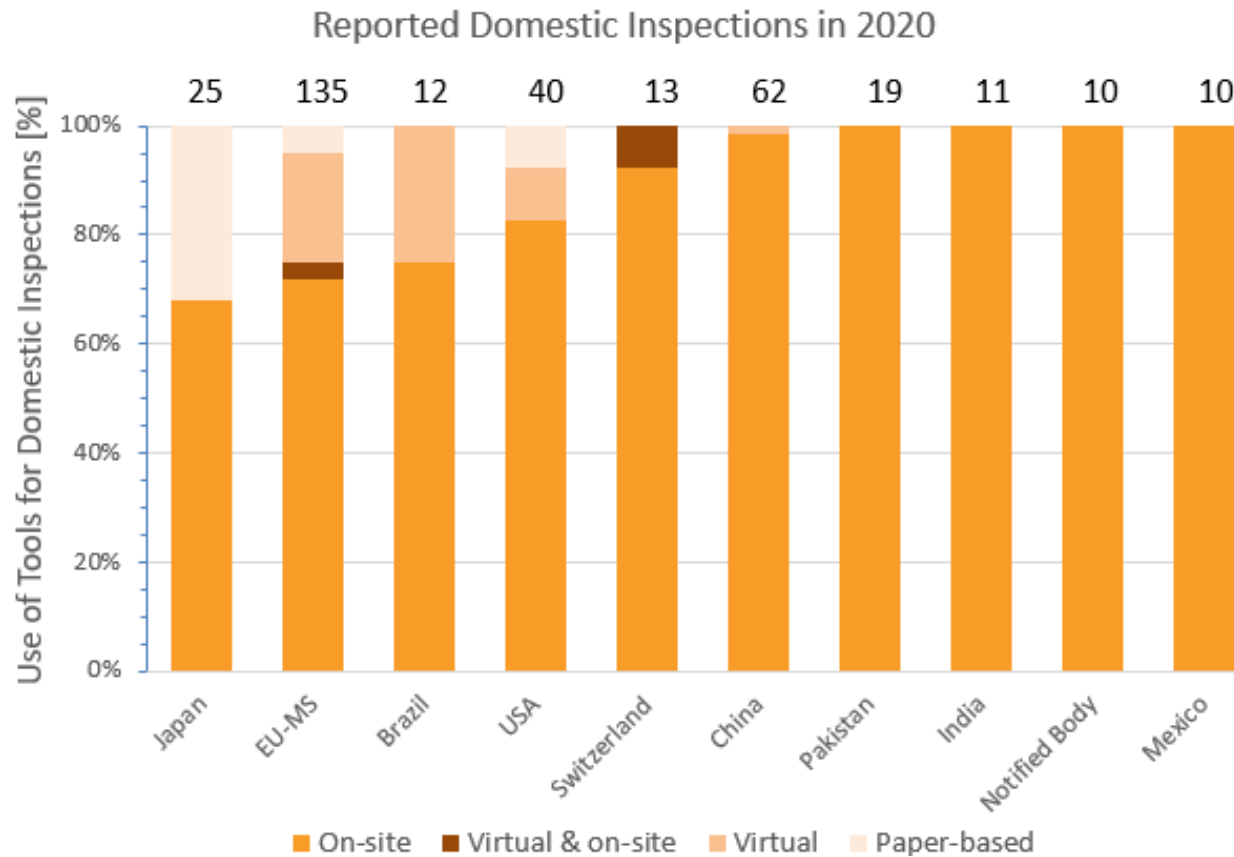
- \* Belgium
- \* France
- \* Germany
- \* Ireland
- \* Notified Body
- \* Poland
- \* UK

\*UK counts as EU Member State in 2020

EFPIA ANNUAL INSPECTION SURVEY - 2020 DATA

## SURVEY DATA AND TRENDS 4: INSPECTION PROCESS AND TOOLS

# Domestic Inspectorates may not Adopt the Virtual Tool

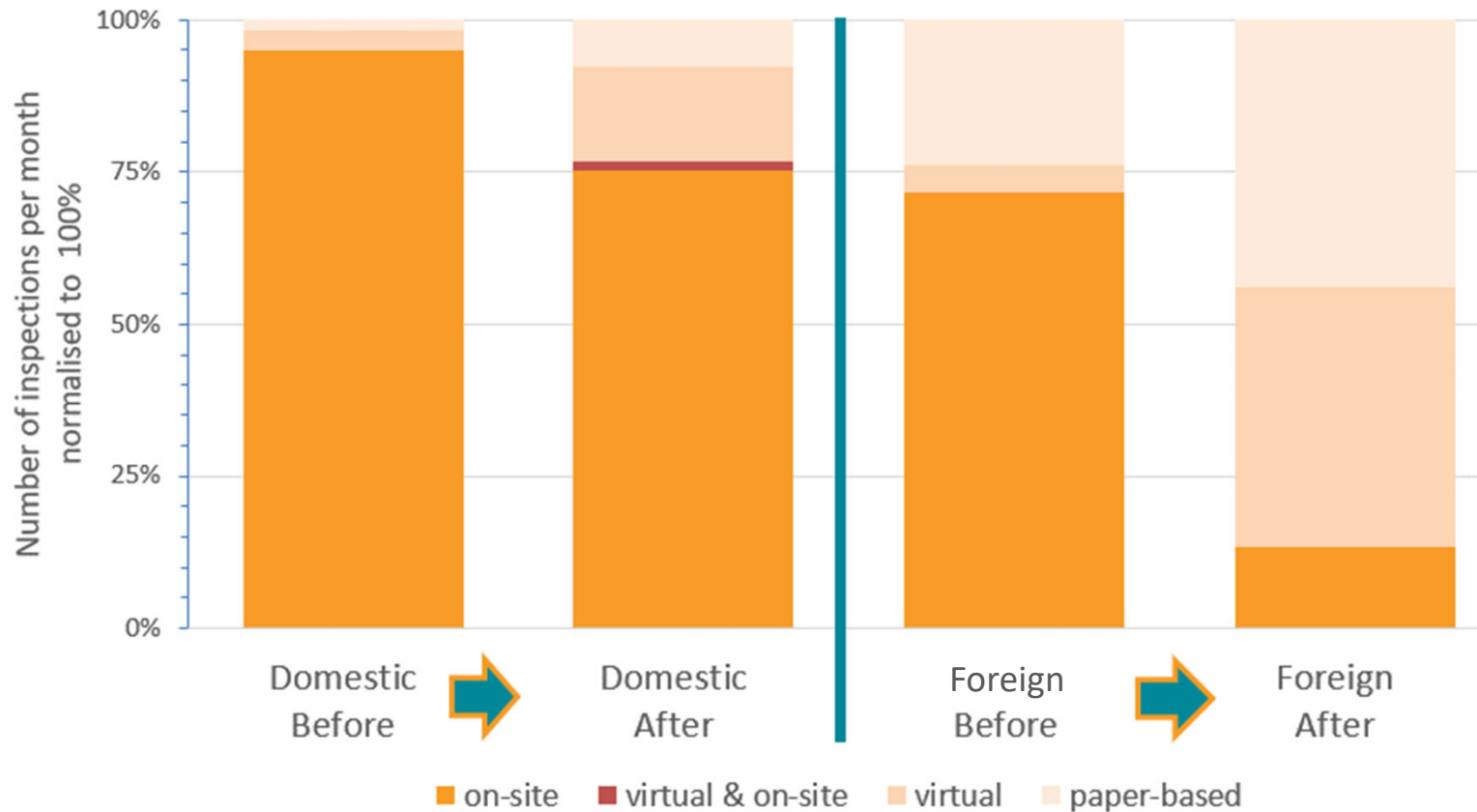


- \* Experience with implementing hybrids of virtual & on-site tool
- \* EU-MS
- \* Switzerland

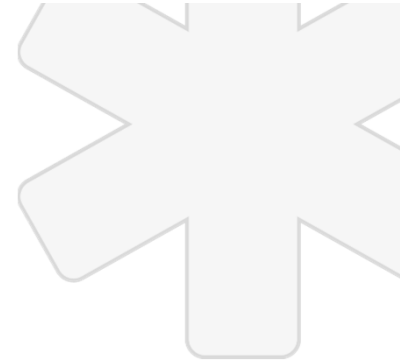
## SURVEY DATA AND TRENDS 4: INSPECTION PROCESS AND TOOLS



# The Pandemic Restrictions Drove the Need for Agencies to use Alternative Approaches for Inspections at Sites and Affiliates



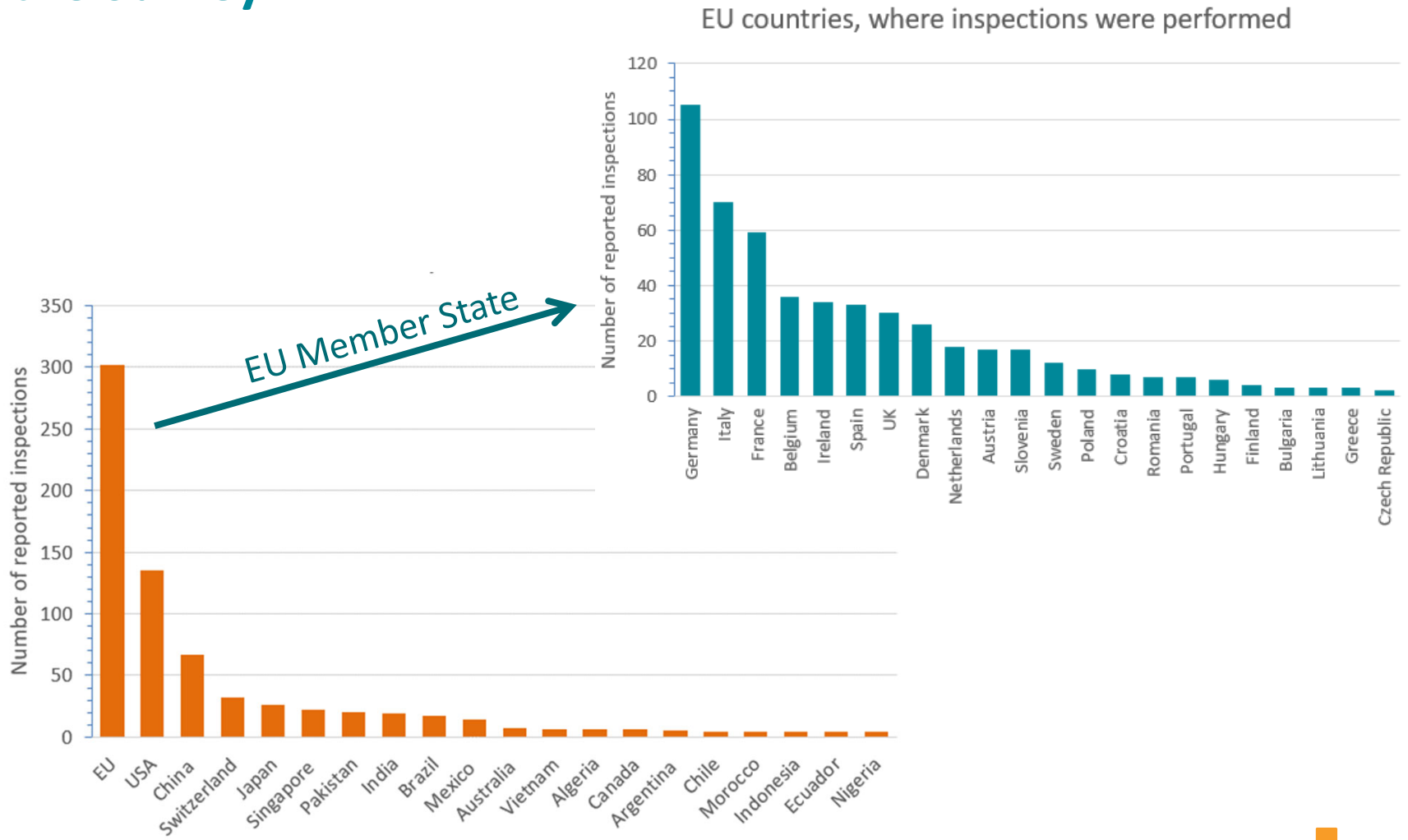
\* A large percentage of the domestic inspections still occurred on site after the outbreak



# Location of Manufacturing sites

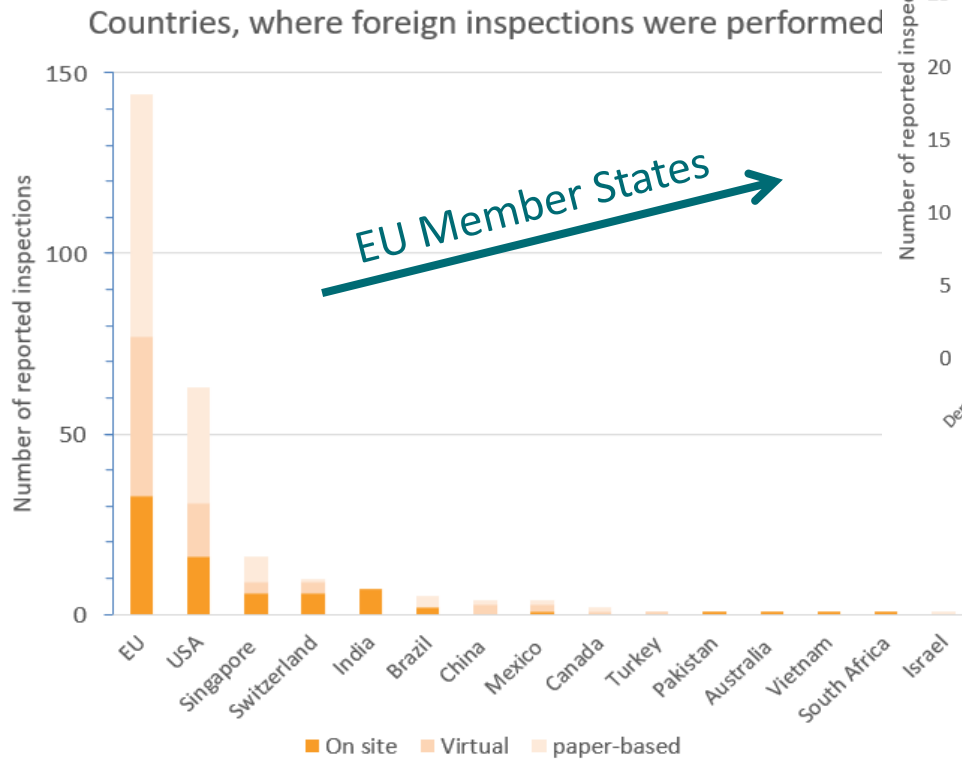
## SURVEY DATA AND TRENDS 5: LOCATION OF MANUFACTURING SITES

# Locations of Manufacturing Facilities Included in the Survey

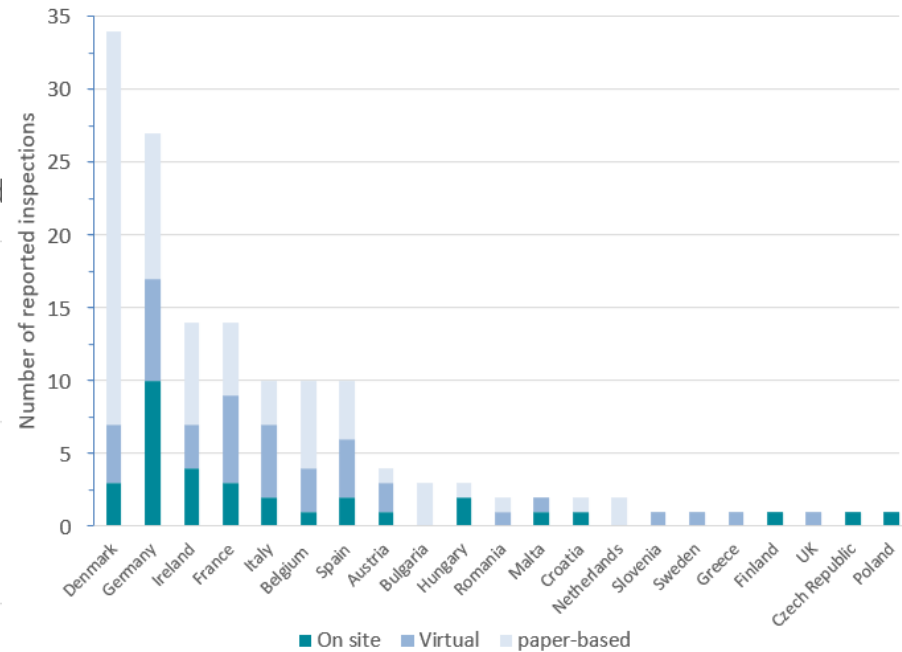


## SURVEY DATA AND TRENDS 5: LOCATION OF MANUFACTURING SITES

# Locations of Manufacturing Facilities Hosting Foreign Inspections

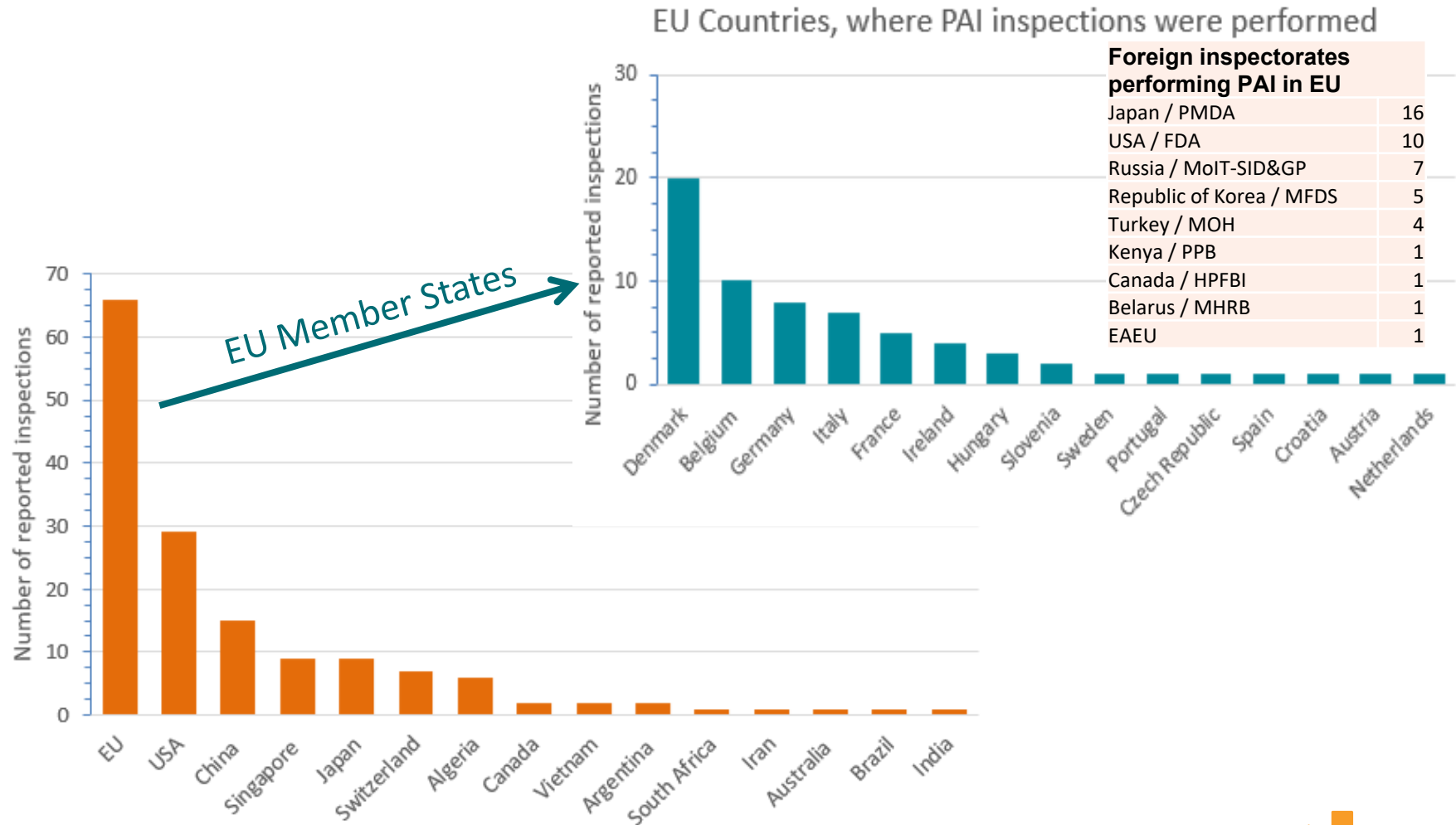


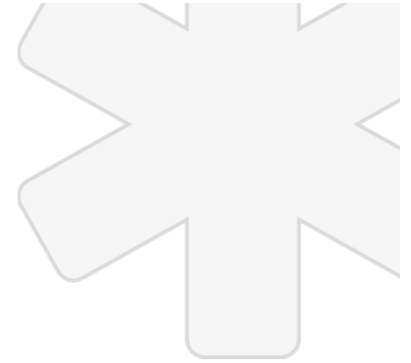
EU countries, where foreign inspections were performed



## SURVEY DATA AND TRENDS 5: LOCATION OF MANUFACTURING SITES

# Locations of Manufacturing Facilities Reporting PAI Demonstrating where Innovative Products are Manufactured





# Resource Considerations



## SURVEY DATA AND TRENDS 6: RESOURCE CONSIDERATIONS

### Significant Resources Required

*Example: Foreign on-site Inspection*

Resources	Inspector	Industry
Preparation <sup>1</sup>	4 person days (experience from industry audits)	40 - 240 person days (average ~ 70) (due to specific requests by individual inspectorates)
On site <sup>2</sup>	8 person days (on average 2 inspectors 4 days)	60 - 144 person days (4 days, average ~ 112)
Post-inspection <sup>3</sup>	4 person days (experience from industry audits)	10 - 86 person days (average ~18)
Sum	16 person days	110 - 470 person days (average ~200) 115 - 500 k€ (based on ~131 €/h; average = 210 k€)
Travel	4 person days (2 inspectors 2 days in average)	0 - 150 k€ (0-150 k€; 6 (0-15) companies SME to travel to the site incl. overseas, considered to be approx. 10k€/SME: average ~60 k€)
Staff related	20 person days	115 - 650 k€ <sup>3</sup> (average ~270 k€)

\* A wide range of cost

\* Domestic inspections are less expensive than foreign inspections

<sup>1</sup> Includes e.g., resources for translations, as applicable


<sup>2</sup> Excludes e.g., cost of interpreters

<sup>3</sup> Excludes e.g., direct costs (e.g., loss of productivity) and indirect costs (e.g., CAPA resolution, capital investments)

## SURVEY DATA AND TRENDS 6: RESOURCE CONSIDERATIONS

# Estimating Average Cost of one On-site Foreign Inspection



	For what	Estimated Costs
1	<b>Estimated administrative cost of executing</b> a) Staff costs b) Translation	<b>115 - 650 k€</b> (average ~270 k€) <b>0 - 70 k€</b> (average ~30 k€)
2	<b>Estimated EU inspection Fee</b> Size of manufacturing sites having ~14 (2-30) unit operations	<b>55 - 865 k€</b> (average ~325 k€)
3	<b>Estimated associated costs</b> special cases, product changes etc.	<b>0 - 1250 k€</b> (average ~200 k€)
Sum	<b>Cost of an inspection varies a lot</b>	<b>170 - 2835 k€</b> (average ~825 k€)

*Updated assessment based on more detailed data assessment*

EFPIA ANNUAL INSPECTION SURVEY - 2020 DATA [Source: separate survey during 2020](#)