



KYMOS
PHARMA SERVICES, S.L.



PHARMAPROGRESS
a KYMOS company

BREXIT 

BREXIT: **CHALLENGES AND OPPORTUNITIES** **IN THE PHARMACEUTICAL SECTOR**

October 31st 2019

Dr Albert Pineda; Marketing & Sales Manager

BREXIT: Challenges and Opportunities in the Pharmaceutical Sector

A Different Perspective:

- Kymos's testimony goes beyond the conventional "CRO trades with UK client" and overcoming **barriers to internationalization**.
- Our services are part of a complex **international supply chain** which, while less straightforward, makes the effects of Brexit more **visible and quantifiable**.
- UK is among the **greatest trading regions** and cannot be understood in isolation: From the first Guilds of London to the East India Company the UK pioneered modern international trade.
- Working in the UK global business one becomes aware of certain **non-tariff indicators** which capture the **mood of the market**:

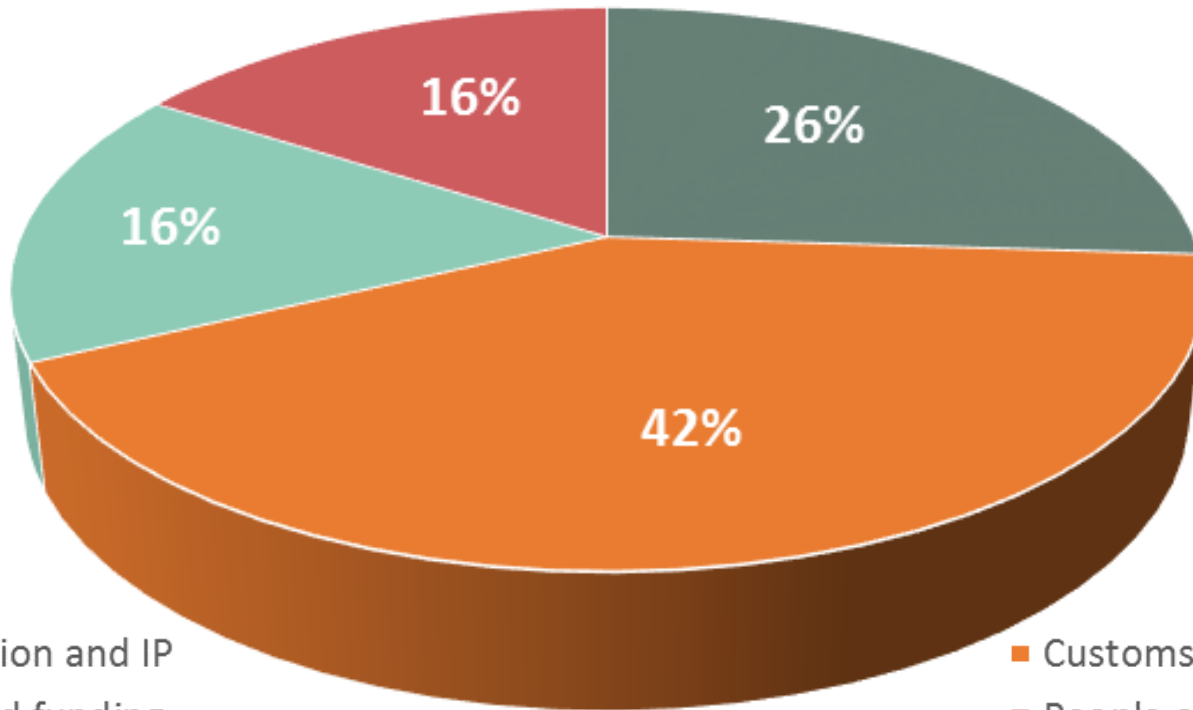


Some of them subtle...

25/10/2019 UK BioIndustry Association Quickpoll



Which of these is your biggest concern?



- Regulation and IP
- R&D and funding

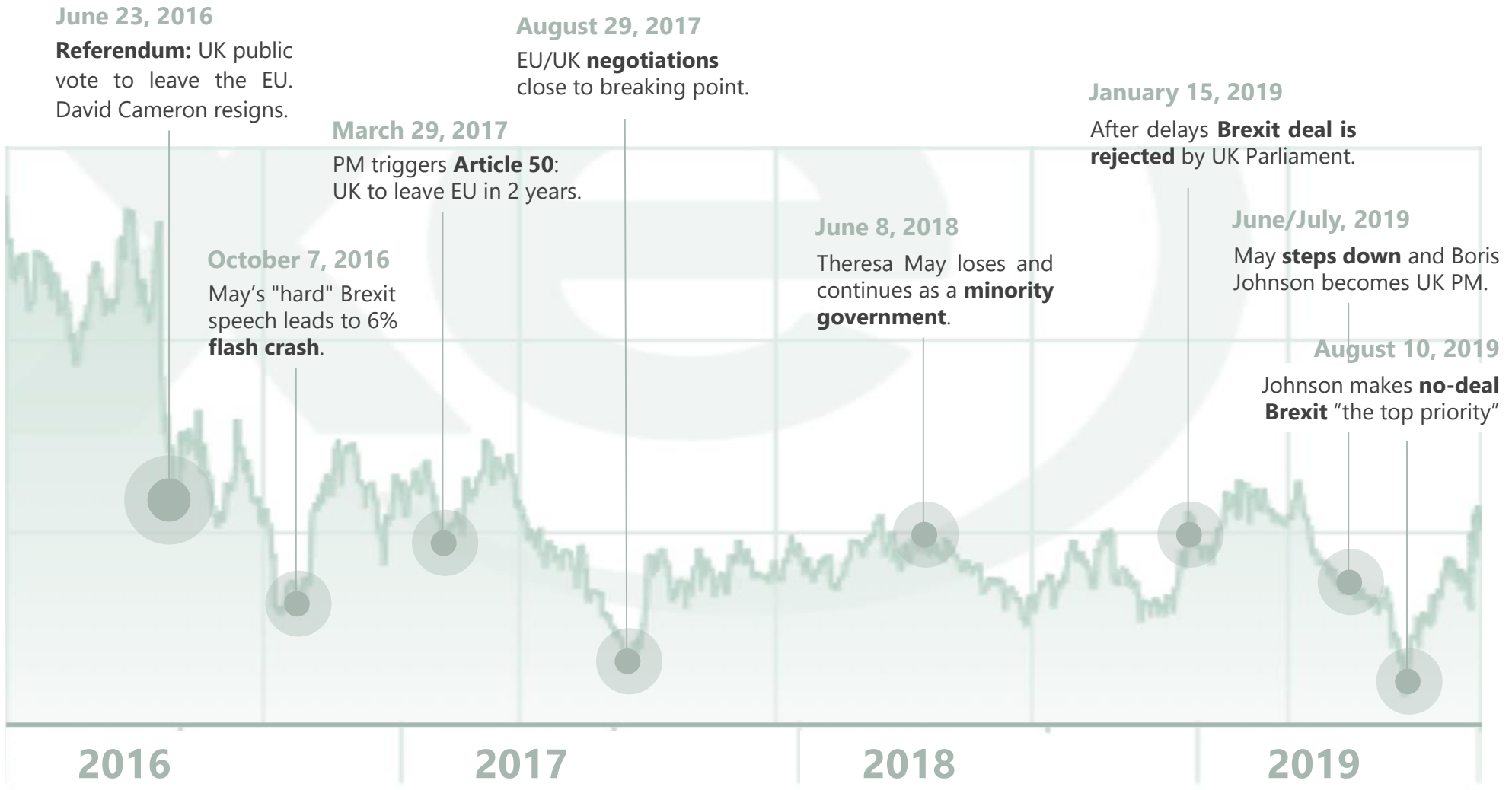
- Customs, tax and trade
- People and employment

BREXIT: Challenges and Opportunities in the Pharmaceutical Sector

XE Currency Charts: GBP to EUR

Some of them more obvious...

<https://www.xe.com/currencycharts/>



BREXIT: Challenges and Opportunities in the Pharmaceutical Sector

A short-sighted media focus on Brexit:

- Most of the press is currently focused on the **theatrics** of the **power struggle** between UK and the EU.
 - Some would claim it is hard not to...
- But the “hard vs soft” Brexit debate **trivializes** a longer term problem.
- In order to understand the **lasting impact of Brexit** we must focus on the **transition period** and what follows beyond Brexit itself.



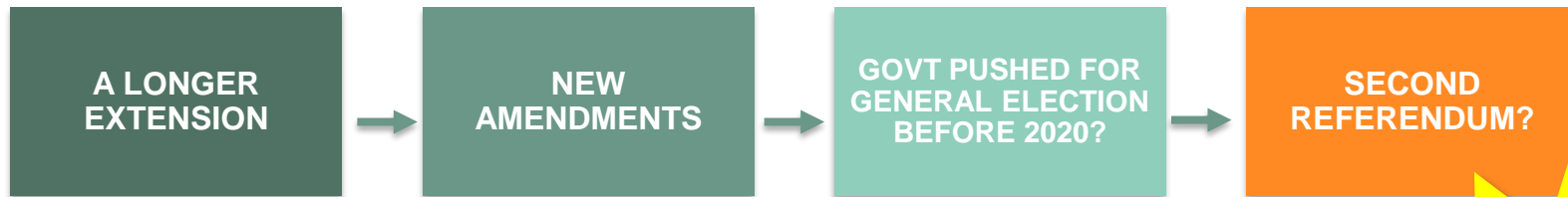
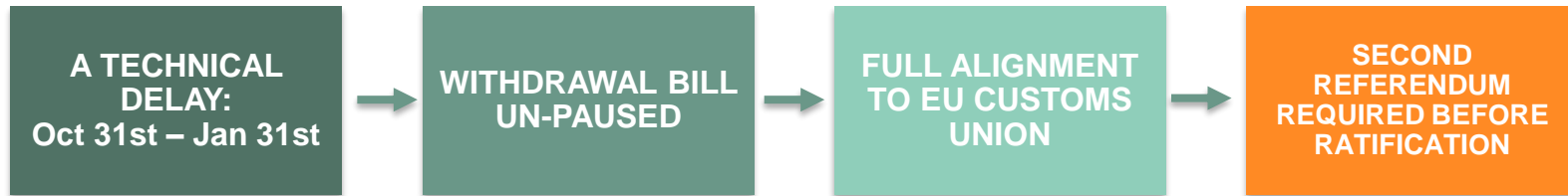
BREXIT: Challenges and Opportunities in the Pharmaceutical Sector

The new Withdrawal Agreement (WA) - Where are we now?

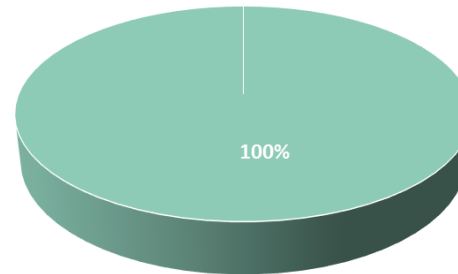
- **Transition period** up to **end of 2020** (possibly extended to Dec 2022). During the transition:
 - UK and EU will negotiate the terms of their **future trade agreement (FTA)**.
 - *"The parties will also explore the possibility of cooperation of the UK authorities with Union agencies such as the **EMA**".* Excerpt from Johnson's WA (and also May's).
 - Firms could continue **UK batch release, testing** and **QP certification**.
 - **MA holders**, QPs, QPPVs could continue to be **based in the UK**.
 - Manufacturing and distribution **licenses** and **inspections** would be **recognized**.
 - UK would be **treated as a Member State** for the purposes of **MRAs**.
- But also...
 - **No UK participation** in EU institutions and no UK "leading authority".
 - Medicines and Healthcare products Regulatory Agency **out of EU regulatory network**.
 - **Readmittance** entirely subject to negotiation.
- After the transition:
 - If a FTA is not agreed, **Northern Ireland** would apply **EU rules** while the rest of the **UK** would move to a **no-deal/WTO relationship**. MHRA to apply two sets of rules.
 - No EU database access. **UK no longer "pure"** third country to EU.
 - *"UK aiming towards **mutual recognition of medicinal products** produced in UK and EU"* Matthew Hancock; Secretary of State for Health and Social Care.

BREXIT: Challenges and Opportunities in the Pharmaceutical Sector

The new Withdrawal Agreement – What happens next?



BIA What do you think will happen on Oct 31st?



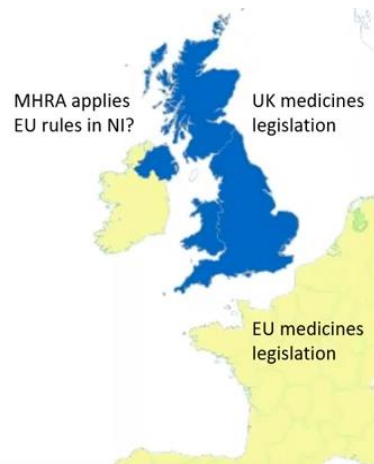
■ Brexit with no deal ■ Brexit with a deal ■ Delay - no Brexit yet

Oct 28th Update!
Option "Delay" won!

BREXIT: Challenges and Opportunities in the Pharmaceutical Sector

The new Withdrawal Agreement – If No Deal:

- UK ensuring **medicine supply** until absolutely clear a no-deal Brexit is off the table.
- **MHRA guidance** on **submissions** and QPPVs update.
- Ferry and freight additional services for **priority goods**.
- **National Supply Disruption Response** for medicines, devices, trials & vaccines.
- Simplified **customs, imports and tariff** procedures.
- **Immigration**: Salary thresholds and point-based system.



The new Withdrawal Agreement – If No Deal:

- In spite of all UK Government measures the situation will remain **highly volatile**, with **uncertainty** pushing clients to make **subjective, potentially long-term choices**.
- Word on the street is:

**PREPARE FOR THE
WORST!**




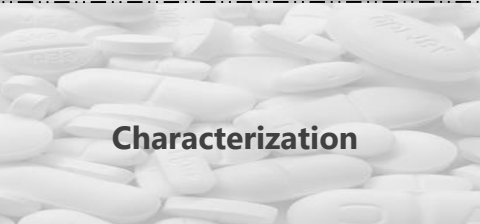
Kymos:
A different perspective





Our Value Proposition

Kymos is a company devoted to provide analytical expertise and testing capabilities to third parties for research, development, regulatory and marketing purposes.

	Small molecules	Biologics
Bioanalysis (preclinical & clinical)	 <p>Mass Spectrometry</p>	 <p>Immunology</p>
CMC (chemistry, manufacturing & control)	 <p>Analytical Development Stability Studies Batch Testing Batch Release</p>	 <p>Characterization</p>

A different perspective – Company overview

Locations

Cerdanyola del Vallès, Barcelona, Catalonia, Spain

Camerata Picena, Ancona, Marche, Italy

Barcelona

Headquarters and Laboratories

Staff of 100 people



Ancona

Laboratories

Staff of 15 people

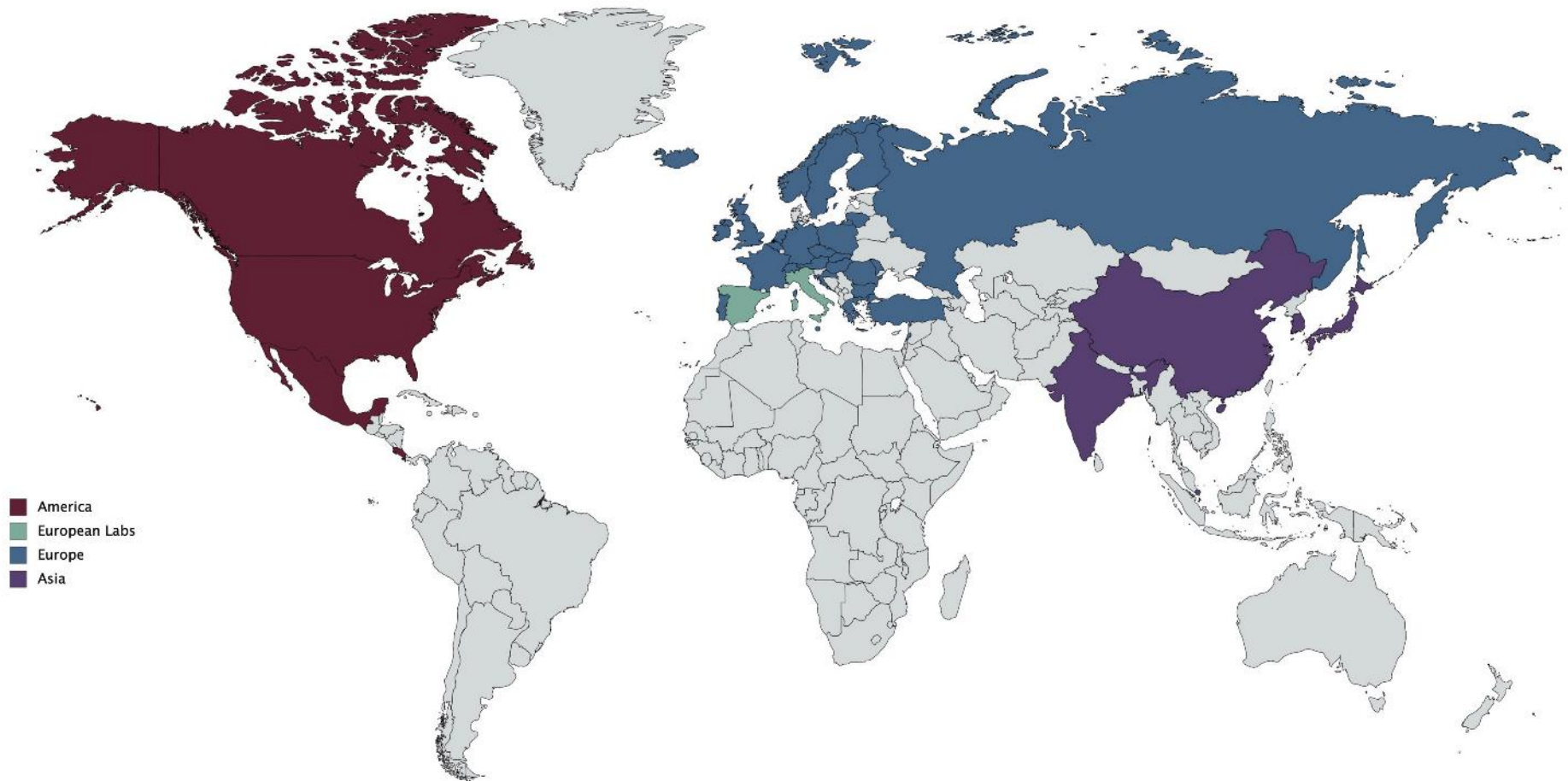


A different perspective – Company overview

Global presence

Europe: business development headquarters in Barcelona and offices in Milan and Paris. Strong presence in southern and central Europe

Asia: relevant partners in South Korea, India, China and Japan



A different perspective – Company overview

GENERICS

A collection of logos for generic pharmaceutical companies, including Esteve, Kern Pharma, Combino Pharm, Encube, Ethicals, Alter, Galenicium, Actavis, Ennogen, Athena, Normon, Cinfa, Intas, Panpharma, Chemo, and Substipharm.

BIOLOGICS

A collection of logos for biologics companies, including Celltrion, Grifols, Prestige Biopharma, mAbxience, BPI (Benta Pharma Industries), Tigenix, Takeda, Dompé, IPSEN, Henlius, and GenIbet.

PHARMA

A collection of logos for major pharmaceutical companies, including Boehringer Ingelheim, GSK (GlaxoSmithKline), GP Pharm, Almirall, Sanofi, Italfarmaco, Faes Farma, Zambon, Angelini, Alcon, IBSA, Alpex Pharma, Pharma Mar, Chiesi, Guerbet, and Ferrer.

API

A collection of logos for Active Pharmaceutical Ingredient (API) companies, including Fabbbrica Italiana Sintetici, Helmi, Hovione, Moehs, Newchem, Cordenpharma, Farmhispania Group, Sandoz, Interquim, and Bioiberica.

CMO

A collection of logos for Contract Manufacturing Organizations (CMO), including Praxis Pharmaceutical, Recipharm, Tubilux, Labesfal, Fammar, Grupo Uriach, Lozy's Pharmaceuticals, Rontis, and Reig Jofré Group.

A different perspective – Company overview

Headquarters

Barcelona, Spain



Laboratories (1,500 sqm)

- Fit to purpose building: technical gas station, emergency electric supply, purified water plant, and IT data room
- 6 main laboratories: **Bioanalysis, Immunology, Microbiology, Physical-Chemical Analysis, Analytical Development, and Biopharma Testing** and auxiliary facilities for sample storage, inflammables, residues...
- Clean room for microbiology testing.
- Containment room for high potency products (HAPI) up to OEL4.
- Sample reception and sample storage area with room <math>< 25^{\circ}\text{C}</math>, climatic chambers, freezers, and ultra-freezers.

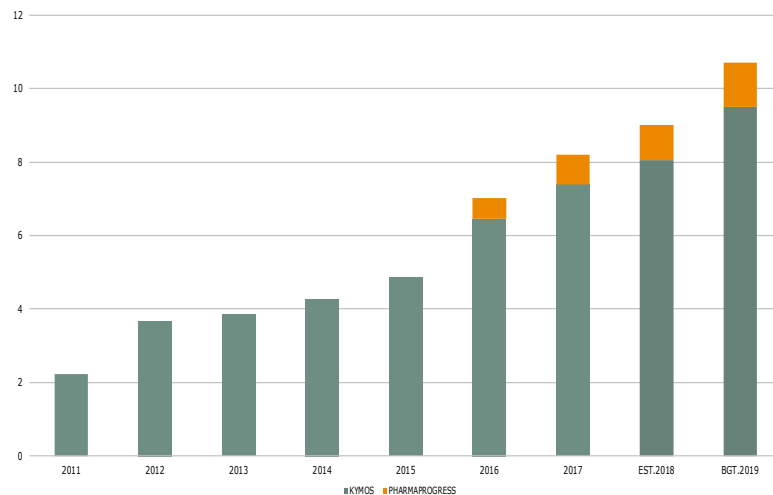


A different perspective – Company overview

Fast growing European

CLO (contract laboratory organization)

reliable and experienced management team & solid financial structure



 Kymos  Pharmaprogess

Shareholders:

- Founder Managers
- Key Managers
- Family Office from pharma sector

Governance:

- CEO, COO and CFO
- Steering Committee
- Board of Directors of 4 members with quarterly meetings
- External member in the Board
- General Assembly with a yearly meeting

Compliance:

- Audited company
- Board Attorney and External Legal Advisor
- Code of Conduct
- Environmental & Safety
- Privacy & Confidentiality
- Quality certifications

Future:

- Opened to deals & acquisitions based on opportunities

A different perspective – Batch Testing & Release

Among our many CMC services, Batch Testing & Release have experienced significant boosts:

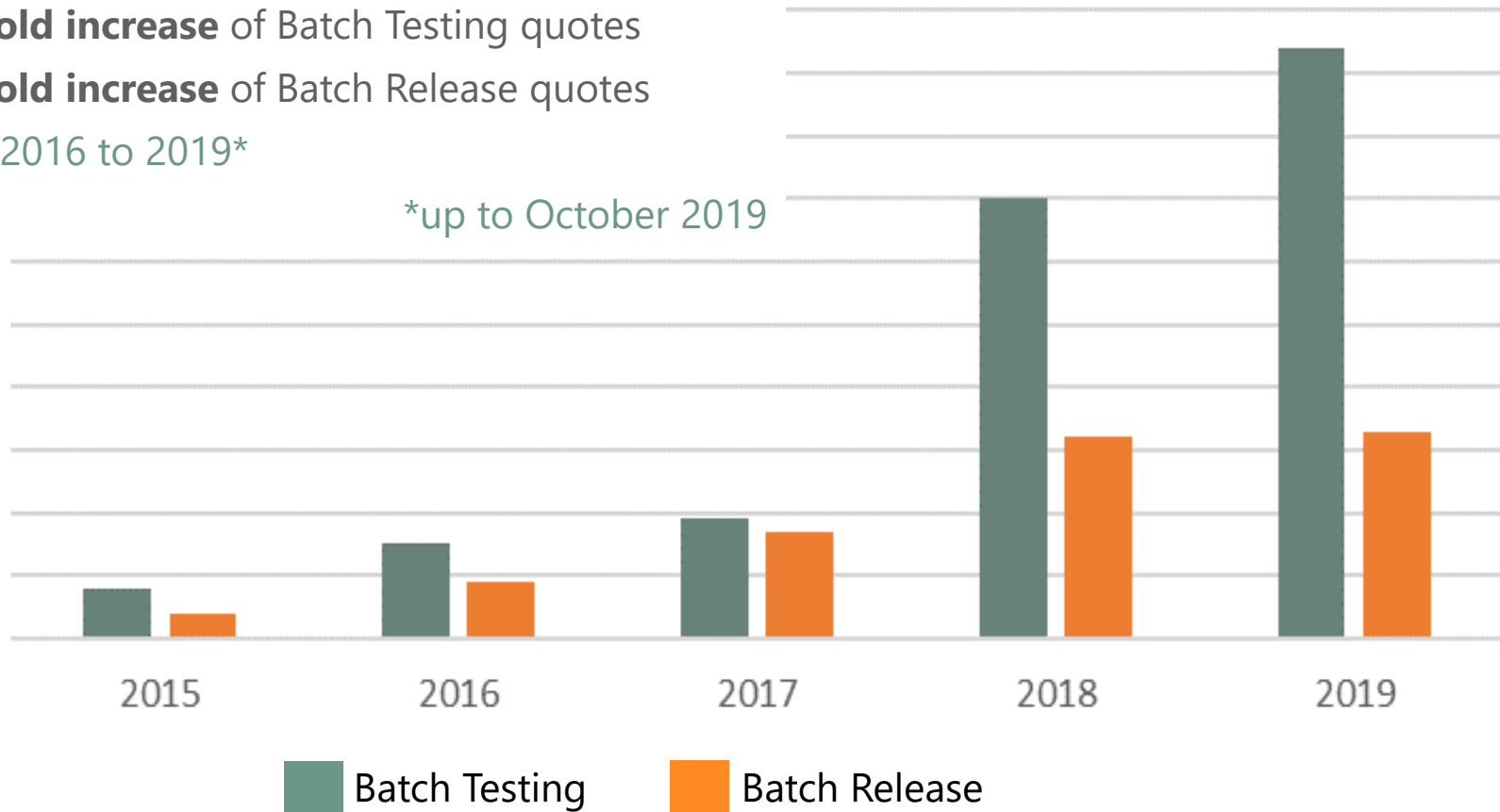
Batch Testing & Release Annual Evolution:

5.3-fold increase of Batch Testing quotes

2.7-fold increase of Batch Release quotes

from 2016 to 2019*

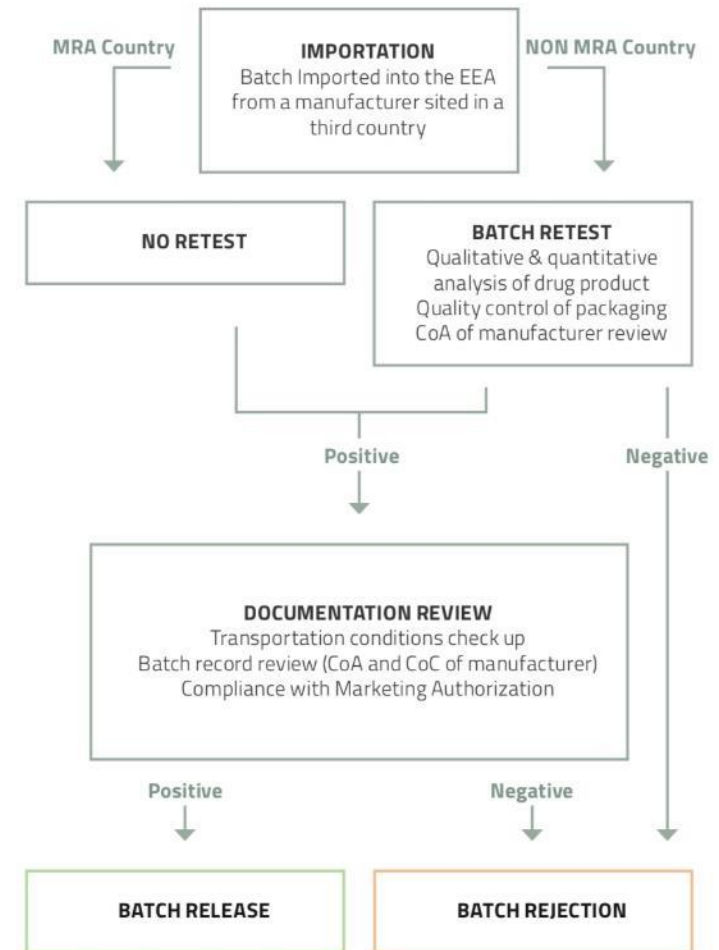
*up to October 2019



A different perspective – Batch Testing & Release

What is Batch Testing & Release?

- Imported products manufactured outside of the EEA must be tested by a **GMP-compliant lab** before being released into the market.
- Under current legislation, manufacturers must test batches **from non-EU/EEA third countries** if not covered by a **MRA**.
- This also applies to **batch release** and **pharmacovigilance** activities, which must be performed by **QP & QPPVs within the EU/EEA**.
- During the **transition period**, firms could **continue these activities within Britain**, with UK inspections and MIA licenses still recognized.
- **Beyond the transition** and depending on the FTA/MRA deal, the UK will become a “third country” and **all EU law will cease to apply**.



A different perspective – Batch Testing & Release

What is Batch Testing & Release?

- Kymos is **GMP-compliant**, FDA inspected, holds a **Manufacturing Authorisation (MIA)**, is certified as **importer**, and count with **multiple QPs** to provide a full service pack.
- Kymos provides services for human, veterinary and investigational medicinal products with capabilities to release small molecules, biologics, sterile and non-sterile DPs. We offer:

Importation

- Request of importation license to AEMPS
- Importation in the European Union (IMP and DP)
- Warehousing, EU depot and shipment, if necessary

Support activities

- QP Declaration (template 5.22)
- Manufacturing plant audit for EU-GMP compliance
- PQR yearly review

Batch Release

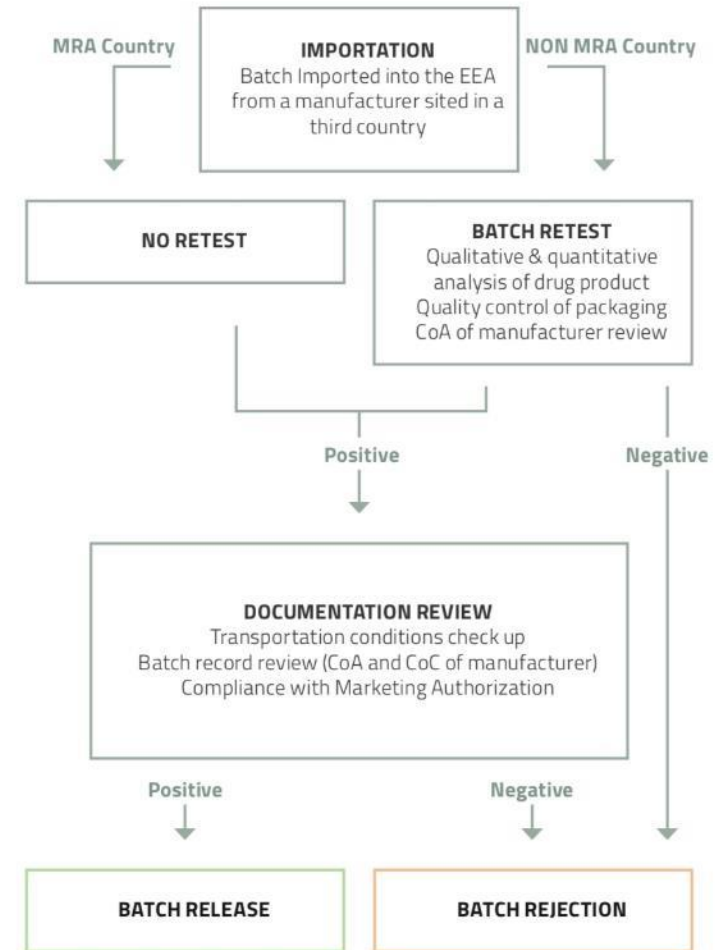
- Certificate of Analysis
- OOS, deviations, CAPAs and change control management
- Certificate of Release



A different perspective – Batch Testing & Release

Batch Testing & Release as an Empirical Indicator:

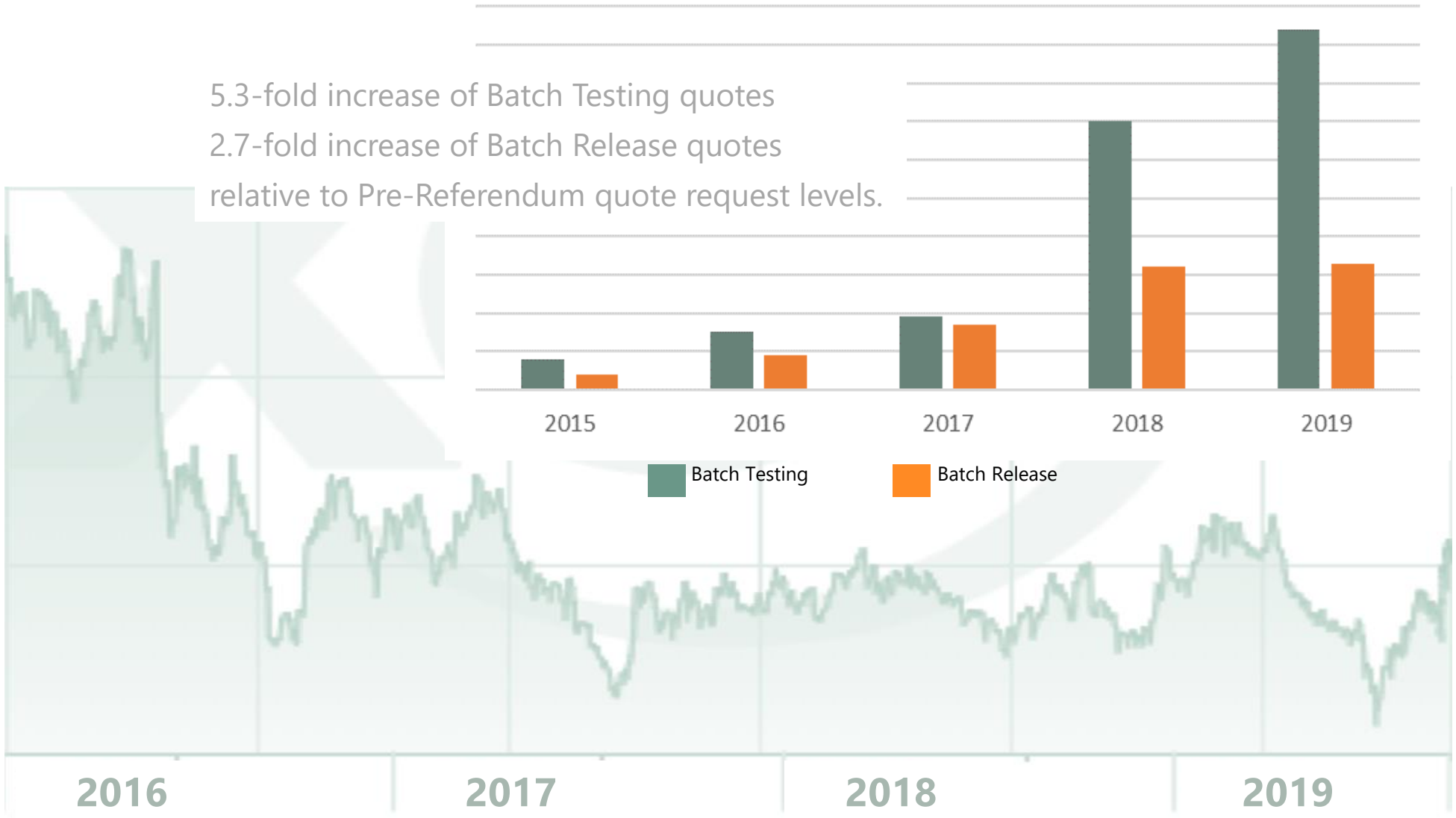
- First take-home message: 5.3/2.7-fold increases in Batch T&R demand imply a **lack of trust** in UK Govt mitigating **measures post-Brexit**.
- While the rise in demand **cannot be attributed solely to Brexit**, the fact that Kymos has not actively promoted Batch T&R services indicates the increase is at least a relevant **indicator**.
- Most of Kymos' UK Batch T&R clients **manufacture** their DPs **outside GB**. They seek to ensure **project continuity** and **minimize risk** by opting for **continental CROs** and **QPs**.
- If these assumptions are correct, **the trend should persist** during the 2020 transition and beyond. Firms that went through the hassle of shifting to a continental CRO may demand **significant guarantees** to shift back.



A different perspective – Batch Testing & Release

Batch Testing & Release as an Empirical Indicator:

5.3-fold increase of Batch Testing quotes
2.7-fold increase of Batch Release quotes
relative to Pre-Referendum quote request levels.



Brexit: Closing remarks





Closing remarks:

- **Batch Testing & Release** will continue being allowed within the UK during the 2020 transition but the market is **preparing for the worst**.
- Batch T&R, Clinical Trials and Regulation to remain **key negotiation milestones** and good indicators of the **mood of the market**.
- Market shifts induced by uncertainty and volatility, with subjective, **non-tariff barriers** including **risk perception, cultural** and **linguistic**.
- UK likely to **strike a FTA/MRA deal** with the EU during negotiations. Post-Brexit likely trend: To keep **outsourcing to continental CROs**.
- Great Britain likely to become both **protective** (immigration, border control) and business-friendly in order to **sustain international trade**.
- **Nobody really knows** what will happen

...not even our decision makers!



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BREXIT



EU



**THANK YOU FOR YOUR
ATTENTION!**



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