# GREATER ZURICH AREA

# Going global in Biopharma: How to navigate the regulatory maze

GZA Webinar – May 29, 2019



# Today's speakers



**Dr. Maria Heimgartner** CEO of regulanet® Switzerland GmbH

### maria.heimgartner@regulanet.ch

Since 2012, she has practiced as a principal consultant at Target BioScience. Previously, she served 8 years as General Manager for Genzyme Switzerland and 8 years as Business Unit Manager at Schering Plough.

Maria brings over 15 years of experience in the pharmaceutical industry and holds a PhD in Biology from the University of Munich and Bachelor of Science from the University of Houston, Texas.

# Today's speakers



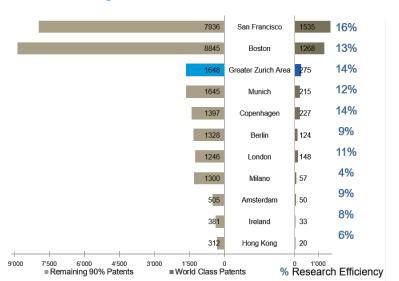
**Douglas Karl Ebert** Senior Advisor Americas for Greater Zurich Area Ltd (GZA)

### douglas.ebert@greaterzuricharea.com

He has over 25 years of experience in the field of international economic development and foreign direct investment, including engagements with a number of cantonal and regional development agencies in Switzerland as well as state governments.

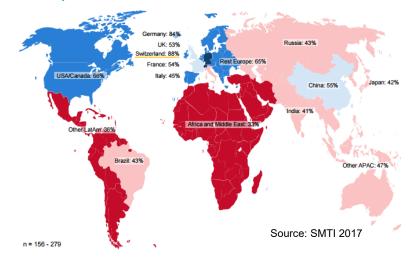
Prior to his work in economic development, Douglas Ebert specialized in work-force development as Vice President of Consulting and Client Services for an international outplacement firm.

# Greater Zurich: Europe's Life Science Power House



### World leading for life science innovation and talent

Highest growth prospects for bio- & medtech companies



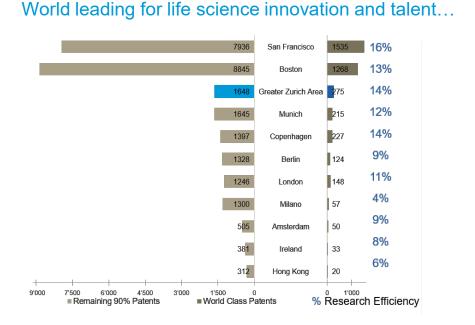
### Highest Density of Life Science Companies in Switzerland:

**Largest number** of regional HQs of non-domestic life sciences companies compared to other European countries such as Germany, France, Ireland, Netherlands and UK





# Greater Zurich: Europe's Life Science Power House



### ...driven by world renowned academic institutes

LS clusters in Switzerland (Number of companies)

107

Olten 18

Basel

Biel



14 Schaffhausen

8 St. Gallen

155 Zurich

8

60 Zug

**Highest Density** of Life Science Companies in Switzerland:

**Largest number** of regional HQs of non-domestic life sciences companies compared to other European countries such as Germany, France, Ireland, Netherlands and UK



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## Greater Zurich Area is the Preferred European Headquarters Location for Bio-Pharma Companies Baxter **AMGEN** Roche Ironwood **Biogen** UNOVARTIS Medtronic Mylan Bristol-Myers Squibb Cactavis THE MEDICINES COMPANY® JANSSEN-CILAG Ltd FXIDN Takeda Johnson 4 Johnson **Cardinal**Health gene Abbott **Opharmacyclics** LUPIN A Promise for Life WOCKHARDT CShire

and many more...



Life Science Education & Innovation in the Greater Zurich Area

- School of Life Sciences FHNW: <u>www.fhnw.ch/lifesciences</u> Specialization in Pharma, Environmental and Medical technology, Biomedical IT, Chemistry and Molecular Bioanalysis. Contact: Prof. Dr. Falko Schlottig, Director, falko.schlottig@fhnw.ch
  - , **N** University of Applied Sciences and Arts Northwestern Switzerland

University of

Zurich<sup>ण्ટ∺</sup>

FHNW School of Life Science

**ETH** zürich

balgristcampus

- University of Zurich / ETH Zurich: www.lifescience-graduateschool.uzh.ch The Life Science Zurich Graduate School consists of sixteen highly competitive Ph.D. programs, run jointly by the ETH Zurich and the University of Zurich. Contact: Prof. Raimund Dutzler, <u>dutzler@bioc.uzh.ch</u>, +41 44 635 6550
- University of Zurich / ETH Zurich, Neuro Science Center: <u>www.neuroscience.uzh.ch</u> The ZNZ is a joint competence center of ETH Zurich and the University of Zurich creating synergies between its 1000 neuroscientists in research and education as well as with leading Hospitals. Contact: Prof. Jean-Marc Fritschy, Director ZNZ, <u>fritschy@pharma.uzh.ch</u>
- BIO-TECHNOPARK® Schlieren, Zurich: <u>www.bio-technopark.ch</u> Innovation Hub and top location for technology transfer in Switzerland. Bringing people BIO-TECHNOPARK® together from the fields of science, technology and economy. Contact: Mario Jenni, Managing Director, <u>mario.jenni@bio-technopark.ch</u>,
- Balgrist Campus: <u>www.balgristcampus.ch</u>

Research, Development and Teaching Centre, where research groups from various disciplines work on their own projects and exchange their experiences with developers and industry. Contact: Thomas Huggler, General Manager, <u>thomas.huggler@balgristcampus.ch</u>

- ETH Innovation and Entrepreneurship Lab (ieLab): <u>www.ow.ly/J3mua</u> The ieLabs are accellerators and melting pots of innovation, exploration and translation. It empowers young talents on their pathway to innovation and entrepreneurship. Contact: Dr. Tomas Brenner, Head ieLab, <u>tomas.brenner@sl.ethz.ch</u>
- Wyss Translational Center: <u>www.wysszurich.uzh.ch</u>
   A multidisciplinary research development center of the ETH and University of Zurich to foster efficient translation of discoveries in to new medical therapies and innovative products. Contact: Michael Stucky, COO, <u>michael.stucky@WyssZurich.ch</u>
- Unitectra: <u>www.unitectra.ch</u>

Unitectra is the technology transfer organization of the Universities of Basel, Bern and Zurich With its services, it supports scientists in their collaborations with private industry and other public or private research institutions.

Contact: Herbert Reutimann, Managing Director, reutimann@unitectra.ch

Health Tech Cluster Switzerland: en.healthtech.ch

The cluster of manufacturers, suppliers, research and training institutions, and investors unites companies from the various life science industries in a mutually profitable way, thus increasing their added value.

Contact: Patrick Dümmler, Clustermanagment, patrick.duemmler@healthtech.ch







Technology	Transfer			
Universities	of Basel,	Bern	and	Zürich

### Grow Wädenswil: <u>www.grow-waedenswil.ch</u>

Grow fosters innovative business ideas in the field of life sciences, facility management and IT and provides best infrastructure and high-tech facilities. Contact: Prof. Dr. Dolf van Loon, CEO, <u>dolf.van.loon@grow-waedenswil.ch</u>

### Toolpoint: <u>www.toolpoint.ch</u>

Toolpoint for Lab Science is a vertical integrated cluster, which combines the knowhow and ability of the lab automation industry in Europe. Contact: Hans Noser, Clusterpreneur, <u>hans.noser@toolpoint.ch</u>

- TECHNOPARK® Zurich and Winterthur: <u>www.technopark.ch</u>, <u>http://tpw.ch</u> Bringing people together from the fields of science, technology and economy it is the top location for technology transfer in Switzerland and a key point of contact for innovative start-ups looking to transform knowledge into marketable products and services. Contact: Michael A. Meyer, COO, <u>michael.meyer@technopark.ch</u>
- Switzerland Innovation Park Zurich: <u>www.innovationspark.zh.ch</u>
   Offering laboratories, offices, pilot plants, test sites, jointly used technology platforms for companies of all sizes, it intensifies the level of cooperation between various players, allowing Swiss innovations to register market success in less time.

Contact: René Kalt, Geschäftsführer Innovationspark, rene.kalt@switzerland-innovation.com







### Inartis Network: <u>www.inartis-network.ch</u>

Inartis, as one of the eight national thematic networks, aims to create value and jobs across the Swiss life sciences economy by fostering transdisciplinary R&D and connecting academia and business.

Contact: Dr. Joseph Maisano, joseph.maisano@inartis-network.ch

 Start Smart Schlieren: <u>www.start-smart-schlieren.ch</u>
 Start Smart Schlieren is an innovation and business center that provides innovative start-ups and micro-enterprises with the infrastructure necessary for a successful business start.

Contact: Barbara Angelsberger, <u>barbara.angelsberger@start-smart-schlieren.ch</u>

 Swiss Center for Electronics and Microtechnology (CSEM): <u>www.csem.ch</u>
 The CSEM is a private research and technology organization, with 30 years of expertise. It focuses on managing and fostering innovation to convert groundbreaking basic research into advanced processes and products in the fields of micro processing, medical technologies, scientific instrumentation and more.

Contacts: Stéphane Follonier, Vice President, <u>stephane.follonier@csem.ch</u>, (GR) Matthias Krieger, Marketing Manager, <u>matthias.krieger@csem.ch</u>, (ZH)



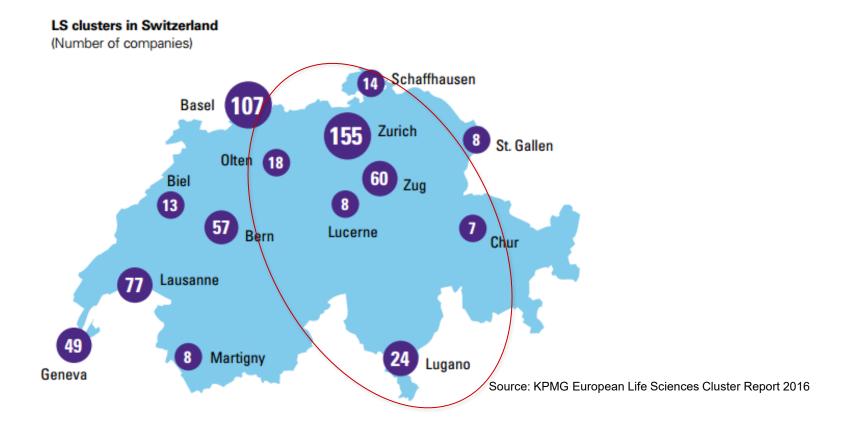


### Swissbiolabs: www.swissbiolabs.ch

Swissbiolabs's objective is to achieve a complete Diagnostic Incubator, which means different specializations and complementary technologies and offers a home for LS-start-ups and R&D organisations. Contact: Urs Blaser, +41 62 296 88 08, urs.blaser@blaserpartner.ch



# **Highest Density of Life Science Companies**



**Largest number** of regional HQs of non-domestic life sciences companies compared to other European countries such as Germany, France, Ireland, Netherlands and UK

1st rank in "Ease of attracting foreign skilled workforce", IMD World Competitiveness Yearbook 2015

Third highest number of late stage products in development, with a strong focus on oncology

# Greater Zurich Area Ltd.

A successful Public-Private-Partnership

### **Public members**

Cantons of Glarus, Grisons, Schaffhausen, Schwyz, Solothurn, Ticino, Uri, Zurich, Zug as well as the city of Zurich and the region of Winterthur

# Solotham Solotham

### **Private members**



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# **GOING GLOBAL IN BIOPHARMA** How to navigate the regulatory maze

# **OVERVIEW**

Required authorizations to market your medicinal product in the EU

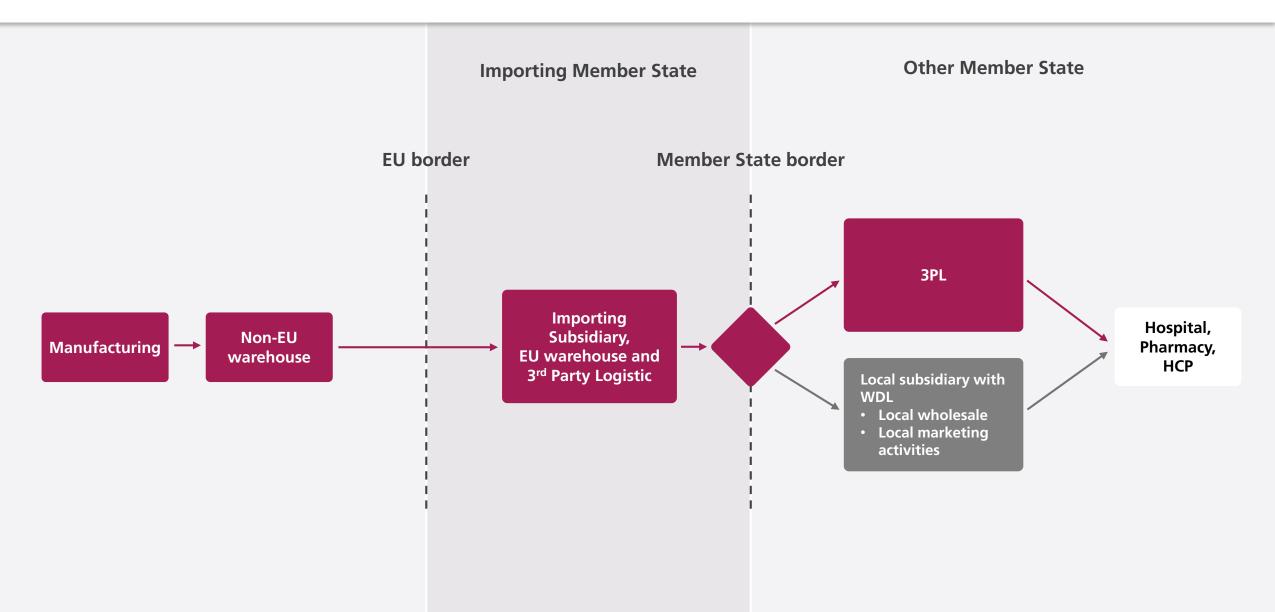


Required Authorizations	Health Authority to issue Authorizations	Subsidiaries in Member States to receive the Authorization	US Headqaters Responsibilities
<ul> <li>One Authorization to market your medicinal product in all 28 Member States: MA</li> </ul>	• European Medicines Agency: EMA	<ul> <li>EU subsidiary of your choice. MA holder will be hold responsible for safety of your product in all EU Member States.</li> </ul>	Regulatory Department
<ul> <li>One Authorization for a subsidiary which imports and sells your product in EU: MIA</li> <li>Authorizations for any other local subsidiary in which you will sell product locally: WDL</li> </ul>	• Local Health Authorities	<ul> <li>EU subsidiary designated to import your medicinal product</li> <li>Any EU subsidiary in which you want to sell and market your product locally</li> </ul>	<ul><li>Product Supply</li><li>Quality</li></ul>
<ul> <li>Local Authorizations for the price of your product to get reimbursed locally.</li> </ul>	Local Health Authorities	• Any local subsidiaries where you want to have your price reimbursed	Access Department

# **OVERVIEW**

Central vs. Local Product Supply





# **EU DIRECTIVES & GUIDELINES**

relevant for the authorizations of your EU subsidiary to market your medicinal product



### Good Manufacturing Practice

Good manufacturing practice (GMP) describes the minimum standard that a medicines manufacturer must meet in their production processes.

The European Medicines Agency (EMA) coordinates inspections to verify compliance with these standards and plays a key role in harmonizing GMP activities at European Union level.

### Good Vigilance Practice

Good vigilance practice (GVP) are a set of measures drawn up to facilitate the performance of pharmacovigilance in the European Union.

GVP applies to marketing authorization holders and health authorities in EU member states. They cover medicines authorized centrally via the EMA as well as medicines authorized at national level.

### Good Distribution Practice

Good distribution practice (GDP) describes the minimum standards that a wholesale distributor must meet to ensure that the quality and integrity of medicines is maintained throughout the supply chain.

GDP applies to all persons involved in procuring, selling or providing medicinal product. Each person involved in the above has to hold Wholesale Distribution Authorization.

Each member state has its own local health authority responsible for implementing the directives. The implementation process varies between member states.

EU Commission issues EU

relevance to all EU Member

Directives which are of

states.

### The European Union consists of 28 member states



# WORKSTREAMS AND ELEMENTS

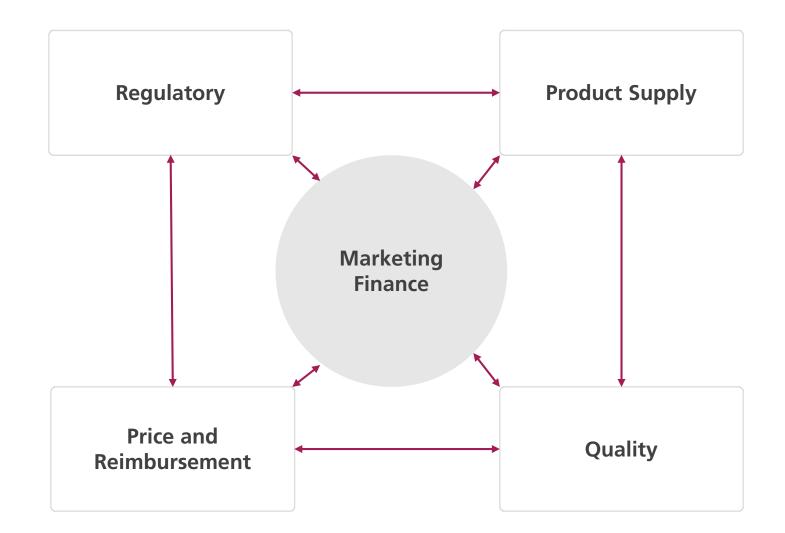
required for your launch readiness



Marketing Authorization Workstream	Product Supply / Quality Workstre	am Launch Sequence Workstream
Anticipated Launch Date	Manufacturing Sites	Germany
t	Labelling Facility	UK
Anticipated date of Marketing Authorization (MA) Approval by EMA	Lab Testing Facility	Spain Italy
▲	GVP Central Unit 5 Supplier Qualific	Cation, Belgium WDL/WDA/Brokering:
	GVP Central Unit Audits, Certificates Authorization in	s and 2
Anticipated date of Marketing Authorization Application (MAA) submission to EMA (signature of EU QP of	Logistic partner for storage and transport	Denmark • Qualified Person
applicant required)		Finland
	Subsidiary of Marketing Authorization Holder	Portugal
Clinical Study Phase III Estimated date of Primary Completion Date	Subsidiary in Importing	Austria
	Country	Switzerland

# **COLLABORATION BETWEEN YOUR DEPARTMENTS**

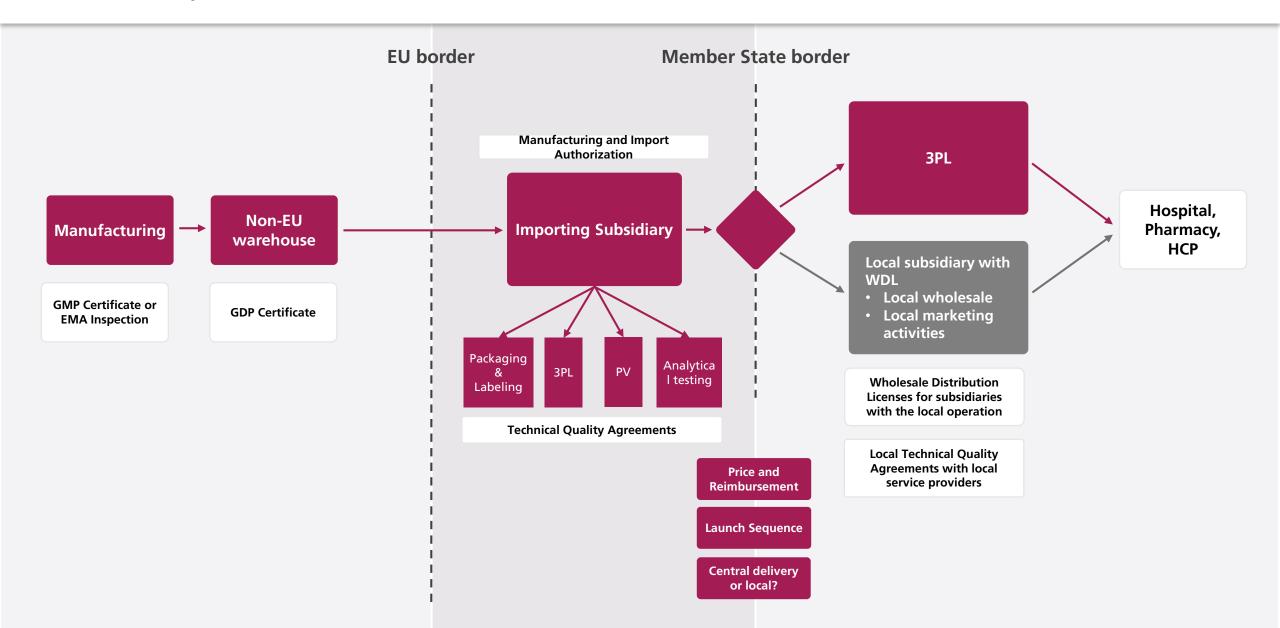




# LAUNCH READINESS

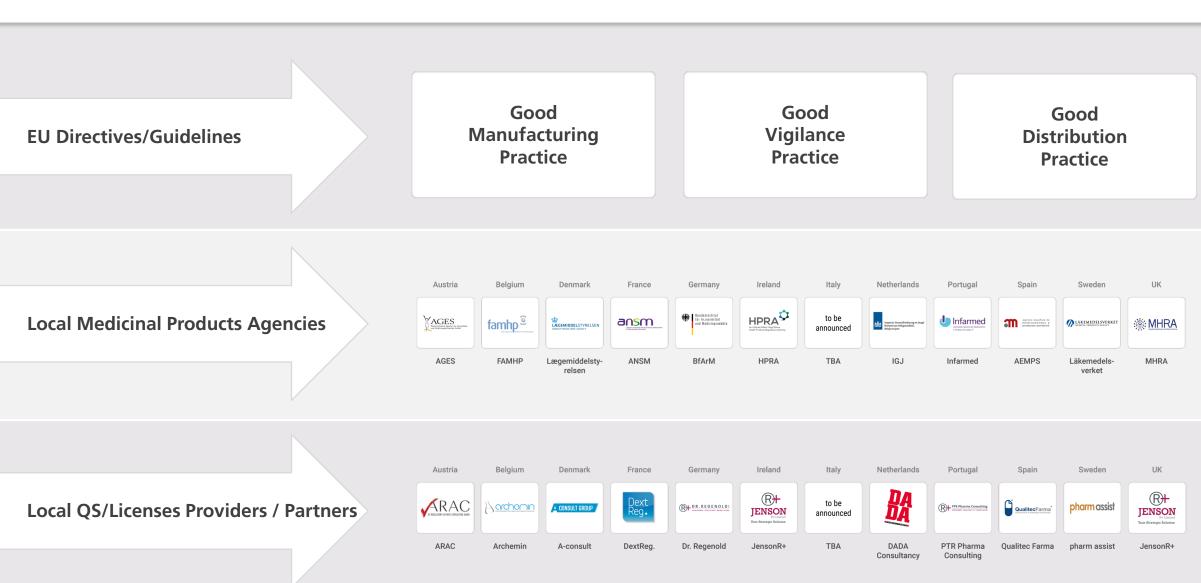
To be developed for each Member State





# **CONCLUSION**

### The way out of the maze: secure support of local service provider

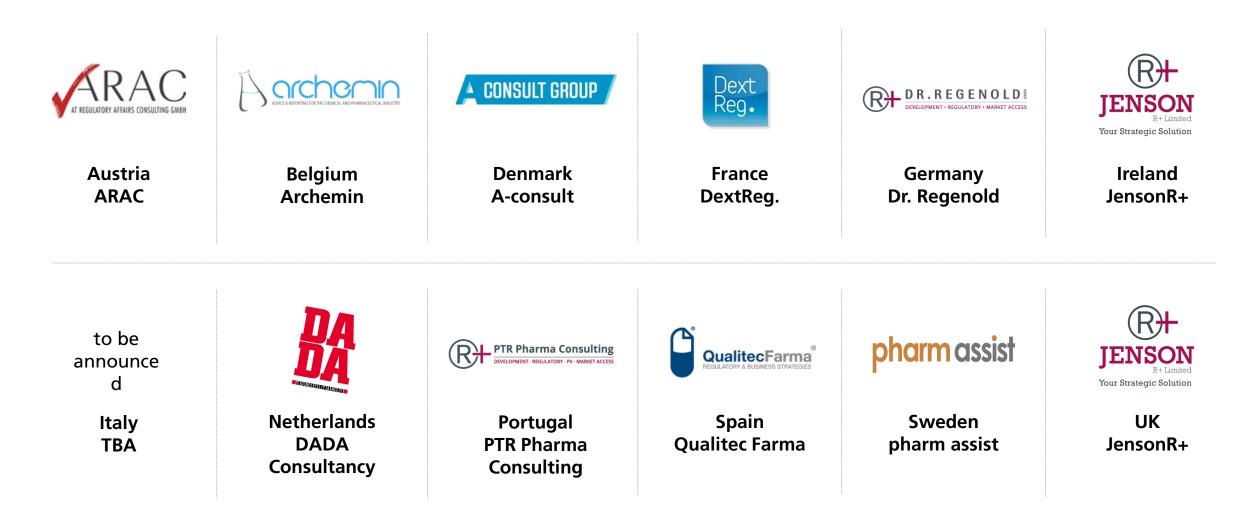


**regulanet**®

**OUALITY MANAGEMENT SYSTEMS AND LICENCE** 

# **IN-COUNTRY SERVICES**





www.regulanet.c

# **ONE-STOP-SHOP PACKAGE**





In-depth understanding of client's situation, product & goals

- EU countries planned in the expansion
- Type of marketing authorization application
- Planned marketing activites

₹ No

Briefings and contracting with local in-country teams	<b>regulanet® Switzerland</b> contacts relevant partners, requests offers, evaluation and consolidation of offers, communicates the offers to the client, finalizes the budget and contracts with the local partners.



Supervision and monitoring of work in progress

**regulanet® Switzerland** follows on the work in progress, identifies issues for clarification, confirms the milestones achieved, reports on the progress by country and confirms the offered costs and time frames if applicable.



Final control of deliverables and one invoicing

regulanet® Switzerland controls the licenses, registrations, authorizations and the overall practicability of the client's set-up and if approved issues one invoice, or, forwards multiple invoices in case this was agreed with the client.

# **CONTACT US**



