



FAST RELIABLE ACTIVE

Air Cargo Community Frankfurt e.V. FRA meets pharma

28. November 2017



Bitte beachten Sie die Compliance!

Gespräche über wettbewerbsrechtlich unzulässige Inhalte sind zu unterlassen z.B.:

- aktuelle und zukünftige Preise
- Provisionen & Rabatte
- Zahlungsbedingungen, Konditionen
- Kosten, Mengen, Erträge
- Nachfragen von und Angebote an einzelne Kunden
- Marktanteile
- Weitergabe von Kostenerhöhungen.

Führen Sie insbesondere keine Gespräche über Preise und Preisbestandteile, Wettbewerbsstrategien oder Konzentration auf bestimmte Gebiete oder Kunden.



Merkblatt Verhaltensregeln für Mitglieder Air Cargo Community Frankfurt e.V.

Bitte beachten Sie in allen Vereinsaktivitäten unbedingt die folgender kartellrechtlichen Vorgaben. Sprechen Sie in Zweifelstragen der Hauptgeschaftstührer des Vereins a.

- Gespräche über wettbewerberschtlich unzulässige Inhalte eind zu vermeiden. Sprechen Sie bei Zweiden vons den Hauptgeschäftstührer an. Wettbewerbsrechtlich unzulässige Inhalte sind beispielsweise aktuelle und zukünftige Preise, Provisionen, Rabate, Zahlungabedingungen, Kasten, Mengen, Erträge, Kondikieuen, Nachfragen von und Angebole an einzehne Kunden, Marktanteile oder Wettergabe von Kostenenthitungen. Führen Sie insbesondere keine Gespräche über Preise und Preisbestandteile, Wettbewerbestrategien oder Konzentration auf bestimmte Gebiete oder Kunden.
- Achten Sie auf die Einhaltung der Tagesordnung auch durch die Mitglieder
- Kontrollieren Sie die verteilten Dokumente und Statistiken der anderen Mitglieder auf ihren Inhalt.
- Beteiligen Sie sich auch in "lockerer Runde" nicht an Gesprächen über wettbewerbsreievante Thomen. Verhalten Sie alch ao, als wäre das Vereinstreffen öffentlich.
- Achten Sie bei der Arbeit in Arbeitskreisen und bei Verbandskreffen darauf, dass die Dakussion. über "Jechnische" Themen nicht zu einer Diekuseion bzw. einen Informationesustausch zu oben genannten wettlewertsrechtlich sensiblen Themen führt.
- Nehmen Sie keine Unterlagen mit vertraulichen Informationen über ihr Unternehmen zu Vereinstreffen mit.
- Informieren Sie den Hauptgeschäftsführer unverzüglich bei Verdscht eines Verstoßes gegen wettbewerbsrelevante Vorschriften.

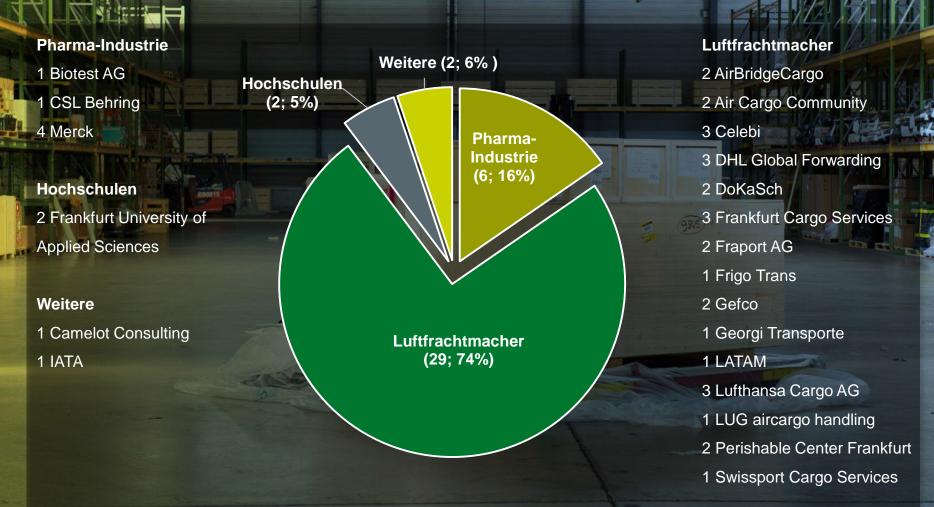
Stand: 22.05.2015

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Übersicht der Teilnehmer





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13:30h @ 0:30	Einlass
14:00h	Begrüßung und Anmoderation
⑦ 0:15	(Dominik Mißkampf, Air Cargo Community Frankfurt)
14:15h	IATA CEIV Zertifizierung – Aktueller Stand in FRA
⑦ 0:25	(Beverly Seebach, IATA)
14:40h	Ausbau und Modernisierung der Pharma-Infrastruktur in FRA
⑦ 0:25	(Joachim von Winning, Air Cargo Community Frankfurt)
15:05h	Trends und Entwicklungen der Pharma-Industrie
⑦ 0:40	(Constantin Reuter, Camelot Consulting)
15:45h ⑦ 0:15	Kaffeepause
16:00h	Bearbeitung verschiedener Fragestellungen und Themen der
@1:30	Pharma Supply Chain in Gruppen
17:30h ⑰ -:	Networking bei gemeinsamem Feierabendsnack/-drink

Agenda





WEITERDENKEN WEITERGEHEN WEITERENTWICKELN

Unsere Mission

Durch die Bündelung unserer gemeinsamen Interessen wollen wir die Wertschöpfung und Effizienz am Flughafen Frankfurt weiter steigern.

Nur dadurch können wir unsere führende Position im globalen Wettbewerb dauerhaft festigen.



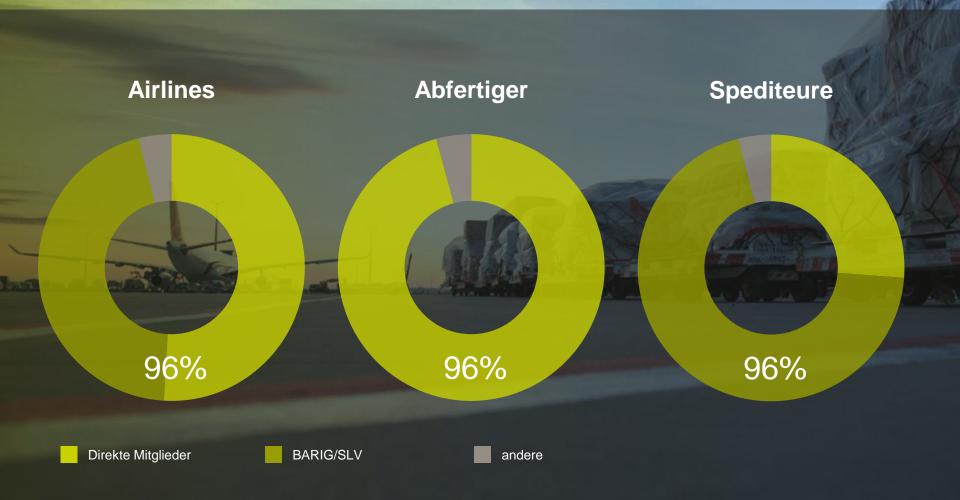
Mitglieder November 2017

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Anteile der Community-Mitglieder an der Luftfracht



Airlines und Abfertiger Anteil an Gesamttonnage in FRA 1. HJ 2016, Quelle: Fraport/Barig/Community Spediteure Top 20 Luftfrachtspeditionen Gesamttonnage 2014, Quelle: Air Cargo News/SLV/Community



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CERV Center of Excellence for Independent Validators

Pharmaceutical Handling





"FRA meets Pharma" November 28, 2017





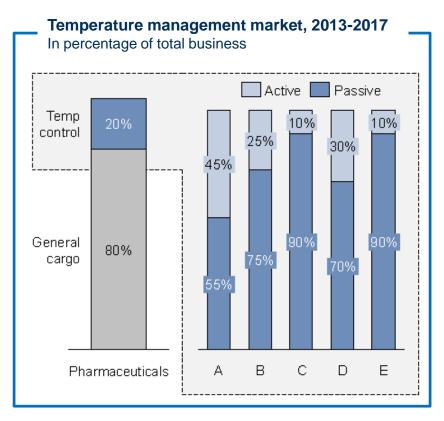
- 1.0 <u>Introduction:</u> Pharma logistical market growing Concerns and Challenges
- 2.0 Standards + Regulations: The nature of the industry requires strong cooperation and IATA as a standard setting organization
- 3.0 Objective: CEIV Pharma is a concerted effort to improve the level of competency, operational and technical preparedness
- 4.0 Approach and methodology: Validate knowledge, facilities, as well as processes, train stakeholders and recognize compliance
- 5.0 CEIV Pharma approach, governance, and organization: A partnership model and approach tailored to the needs of the different stakeholders in the value chain with qualified experts
- 6.0 CEIV Pharma: Update of activities





Background: Pharmaceutical Product Logistics

Temperature control share of pharma



Source: Seabury, BRU Cargo

- A big share of pharmaceutical shipments in the 15-25°C segment are shipped as general cargo.
- A significant part of pharmaceutical shipments requires temperature controlled transport.
 - 75% of shipments require passive cooling solutions, and
 - 20% require active temperature control.
 - Active temperature control solutions demand a yield premium due to complex requirements.
 - Passive solutions drive volume and are less costly to implement.

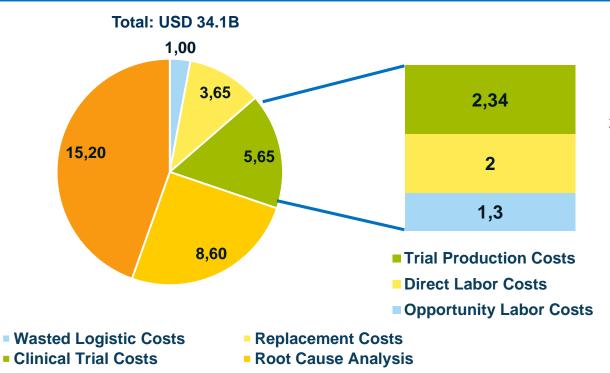




Background: Critical Issues Raised by the Shippers

Looses associated with temperature excursions in healthcare are around a staggering ~USD 35B

Losses associated with temperature excursions In USD Billion



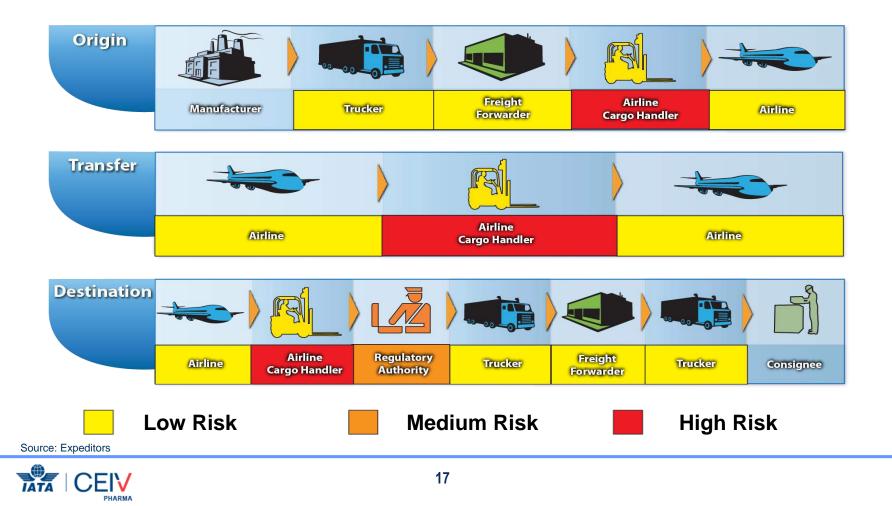
The average costs of root cause analysis for each excursion can range from \$3K to up to \$10K (avg. USD 6.5K per year)

Source: World Health Organization, Parenteral Drug Association, worldpharmaceuticals.net, cargosense.com, other industrial analysis





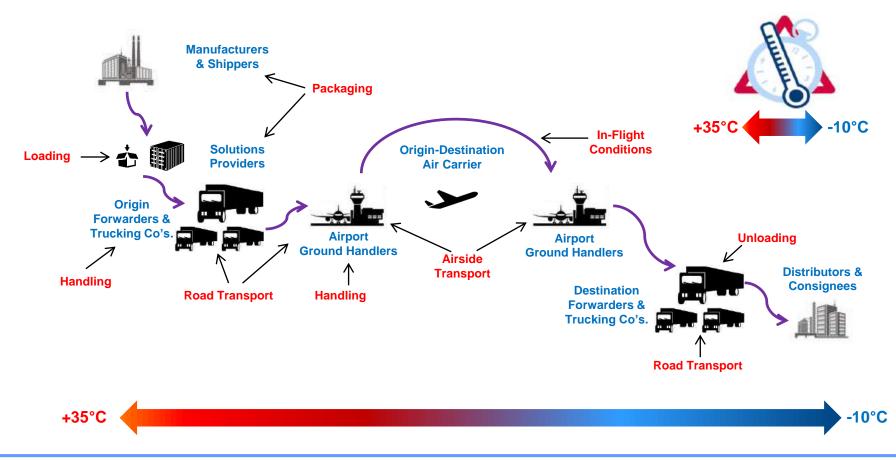
Background: Air Cargo Industry Concerns and Challenges Temperature Excursions – Where do they occur?





Background: Air Cargo Supply Chain Challenges

From origin to destination pharmaceutical products can be exposed to different climates







- 1.0 Introduction: Pharma logistical market growing Concerns and Challenges
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Industry Cooperation in Air Cargo

The nature of the business requires strong industry cooperation – Strong stakeholder management is required







IATA a Standard Setting Organization

Since 2007 IATA and its industry stakeholders have developed a number of temperature sensitive standards

<section-header><text></text></section-header>	2010 PCR New Chapter 17 New T&T Sensitive Label	2012 Mandatory T&T Sensitive Label	<section-header></section-header>
2008 2009	2011	2013 Mandatory Standard Checklist	





Content

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- 6.0 Benefits: A win-win opportunity for all stakeholders
- 7.0 CEIV Pharma: Update of activities

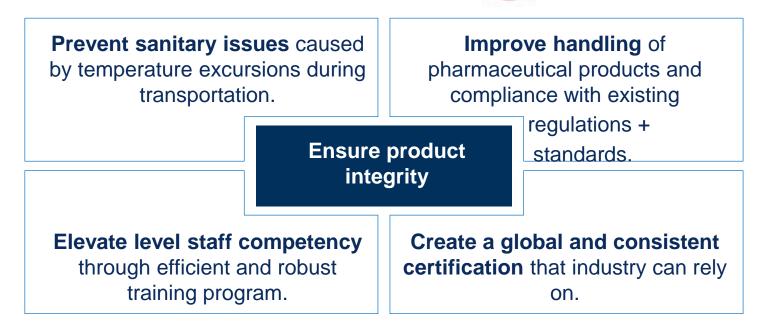




CEIV Pharma

To ensure the integrity of the product throughout the supply chain



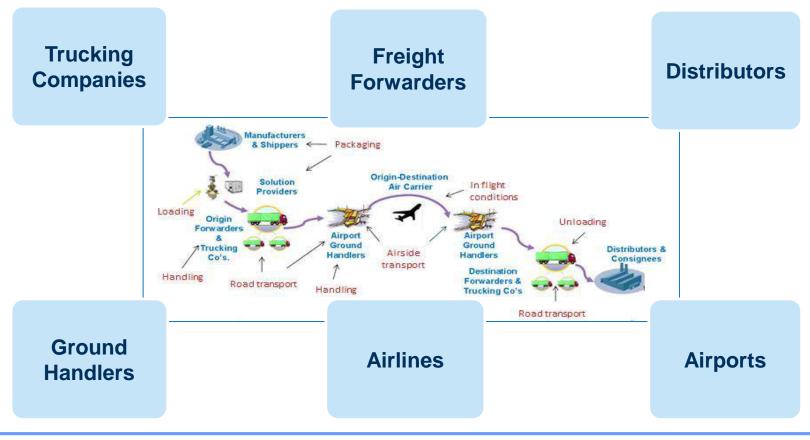






CEIV Pharma targets

Who does CEIV Pharma target? The supply chain







CEIV Pharma Standard

... by applying the newly developed CEIV Pharma standard that focuses on global coverage and universality...



CEIV Pharma:

- **Proceedings of the set of the se**
- **Covers GDP requirements.**
- aims at covering international standards and country-specific requirements.
- **aims at reducing the number of audits or simplifying them.**
- **aims to align air cargo stakeholders needs.**



CEIV



Content

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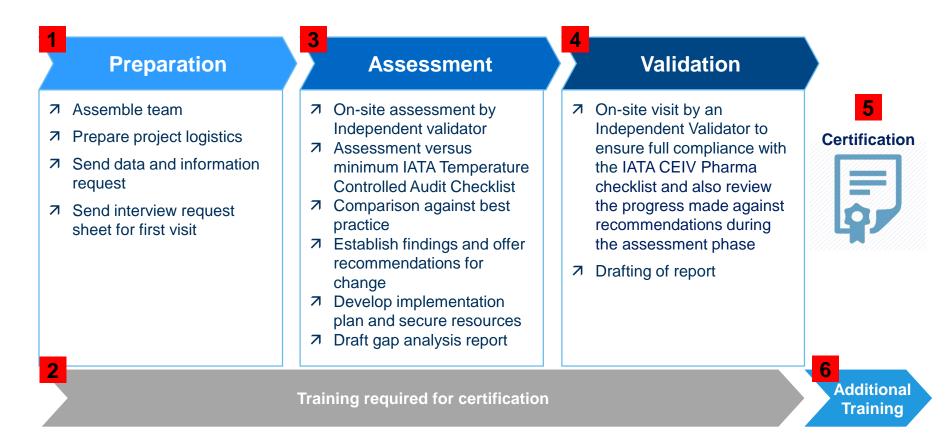
6.0 CEIV Pharma: Update of activities





Certification Approach and Methodology

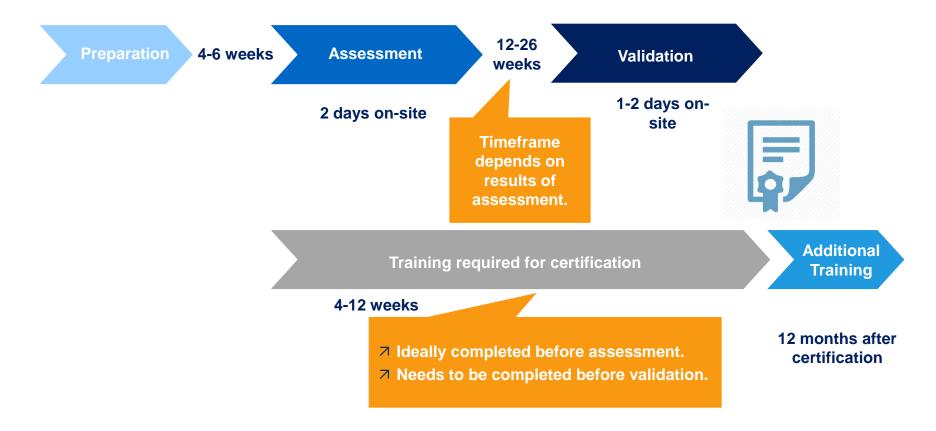
IATA will certify companies in several steps







Certification Timeline (general approach)







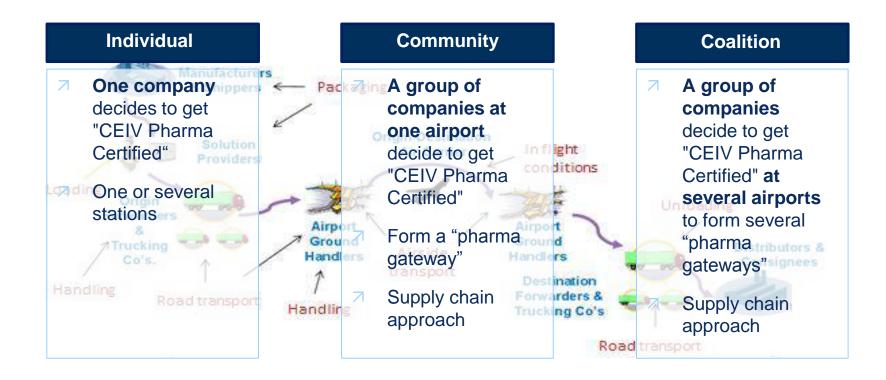
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CEIV Pharma Certification Approach

There are different approaches to obtain certification







Project structure – Who is involved and who can participate?

Everyone in the value chain can participate in the certification process

Example (BRUCargo)







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6.0 **CEIV Pharma:** Update of activities





CEIV Pharma (Certified Entities)

Certified Pharmaceutical Trade Lanes Development







CEIV Pharma (Community Approach) Community Approach Development Worldwide







CEIV Pharma (Community Approach)

Community Approach Development Europe







Location



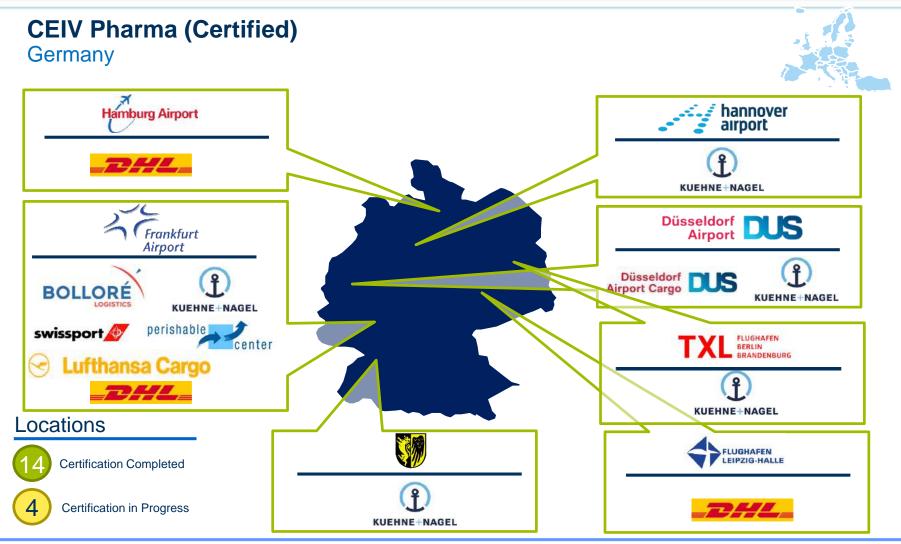
Stations participating in Community Approach in Europe













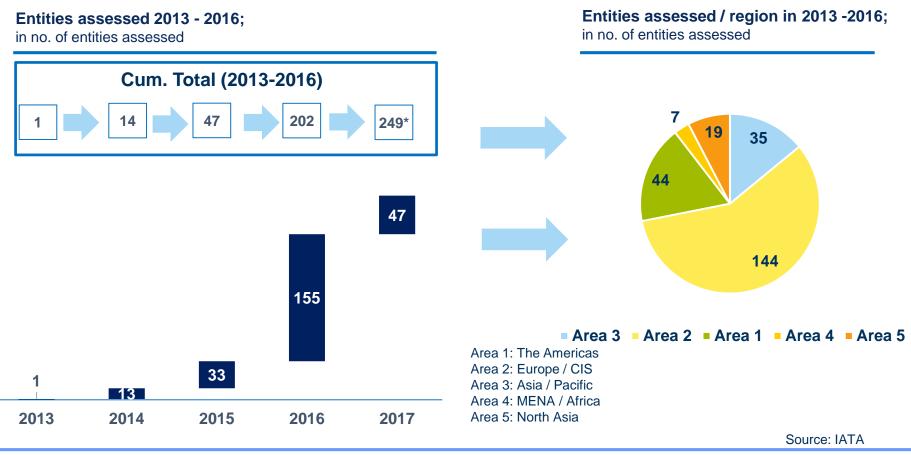


PHARMA



Number of Entities Assessed

IATA expects to have assessed 249 entities by end of 2017 ... and counting





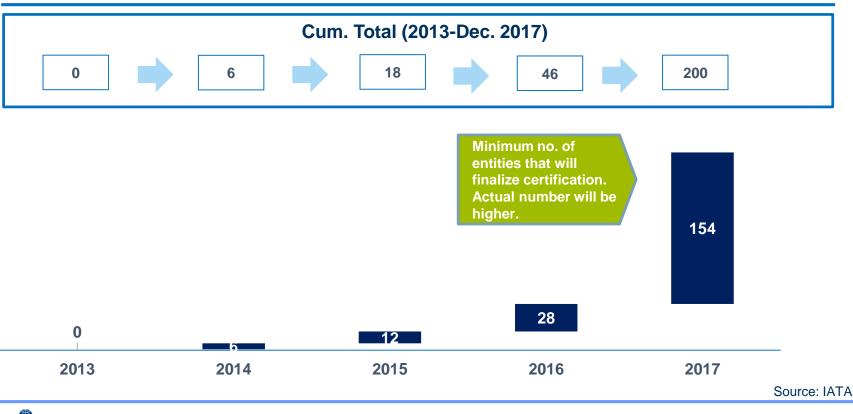


Number of Entities Certified

IATA expects to have a minimum of +190 entities certified by the end of the year... and counting

Entities certified 2013 - 2017;

in no. of entities certified







Thank you!

Beverly Seebach Campaign Manager / Regional Cargo Manager

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Ronald Schaefer Assistant Director, Cargo/Ground Operations + CEIV Consulting, IATA Miami, FL

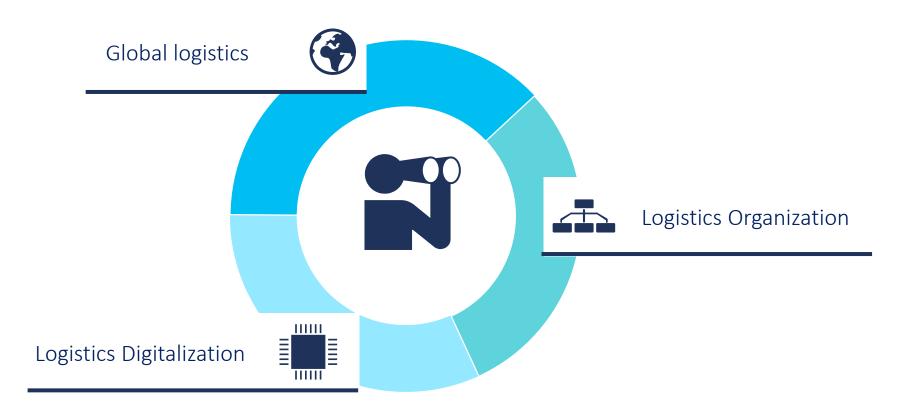
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Trends in Pharma Logistics

Constantin Reuter

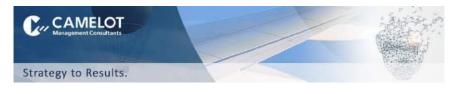






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Value chain management at the leading edge - from strategy to solutions



- CAMELOT Management Consultants: Thought Leader in Value Chain Management for more than 20 years
- Global industry specialist in Life Sciences, Chemicals, Consumer Packaged Goods and Industrial Manufacturing
- Specialized expertise for superior project quality and results



- Camelot Innovative Technologies Lab is our incubator for Digital Innovations and business applications
- Co-Innovation Partnerships with the leading software providers such as SAP SE & IBM
- Data-centric and digital business solutions

	0,	Business Model Innovation —		—
	Organizatio	n & Business Transformation —		
Sourcing & Network Collaboration	Supply Chain Operations & Manufacturing	Distribution & Logistics	Sales & Customer Centricity	1 +
	Finance &	Performance Management		
	Information Ma	anagement & Digital Innovations		_

Camelot gets regular latest market insights through client projects and regular pharma trends survey "Pharma Management Radar"

Logistics Projects with Life Science companies Logistics Strategic Strategy Tactical Network Partner Design Concept Compliance Performance Tender & Operational & Risk Mgmt & Visibility Contracts Warehouse Customs Transport Inventory Management Management Management Management Project Management, Change Management, Information Management & Systems

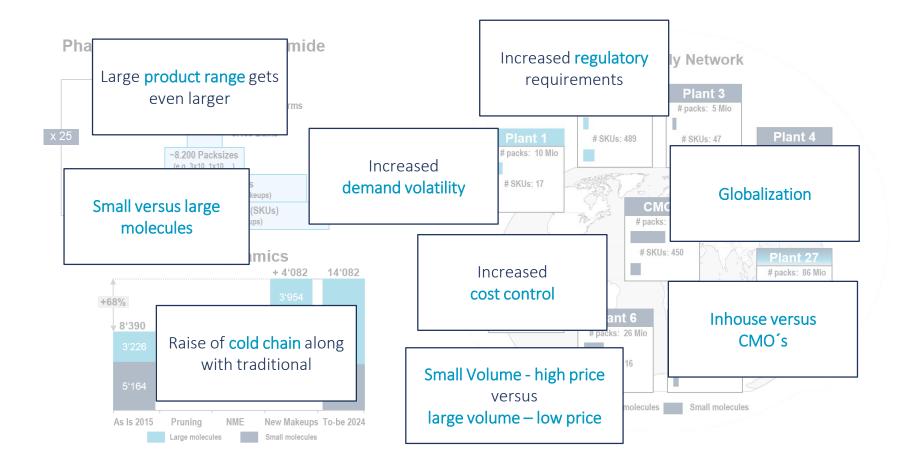
Market surveys







Three "real life" examples illustrate he complexity of Pharma Supply Chains



In global logistics network design projects we often see typical regional differences

North America

- Mature markets, limited growth
- Growth with new products
- Customer centricity new services?

Latin America

- Emerging markets
- Difficult distribution & conditions
- Free-trade zones, regional hubs?

Europe

- Mature markets, free circulation
- Often still historically grown setups
- Consolidation, service levels?

Middle East & Africa

- Growing markets
- Different maturity, complexity
- Transparency, alternative solutions?

Asia

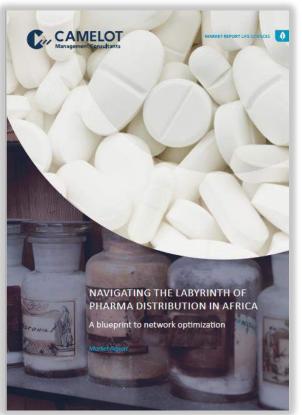
Mix of mature & emerging

Local production tax benefits

Regional hubs, country setups?

Regional import/ export hubs/ consolidation hubs?, Interregional flows, air versus sea?

Camelot visited over a dozen countries to assess pharma distribution situations



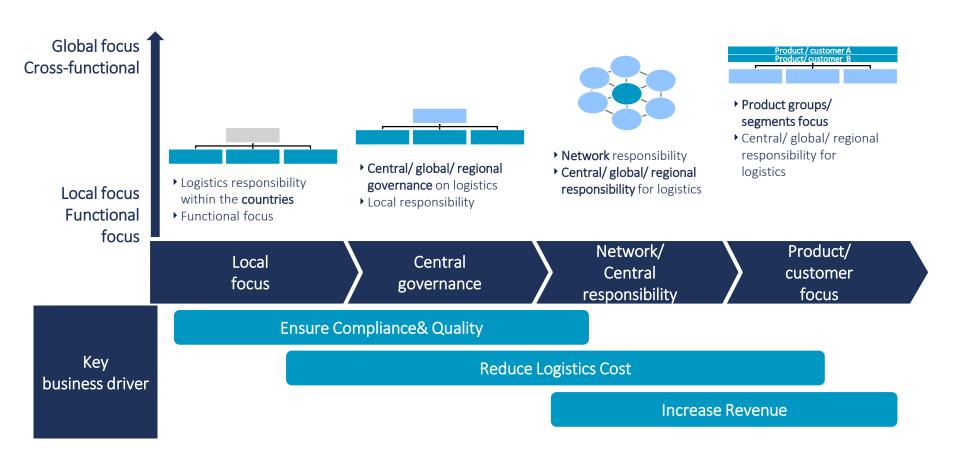
- Important growth potential for pharma
- Future opportunities with fast growing cities
- Direct sell-to-distributor model
- Issue of limited transparency in the market
- Volatility & uncertainty
- High distribution costs and mark-ups
- Logistics infrastructure is developing
- More regional possibilities and secure transport corridors



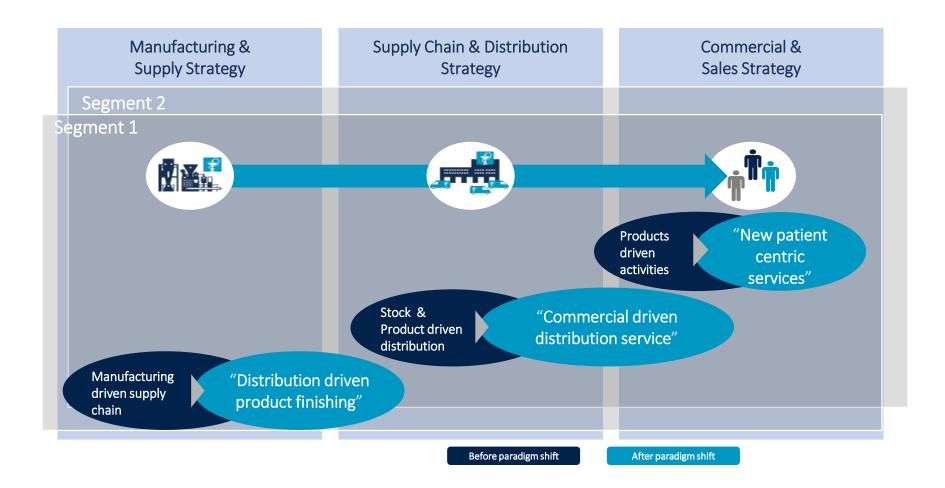
Source: Camelot Management Consultants - "Navigating the labyrinth of Pharma Distribution in Africa"



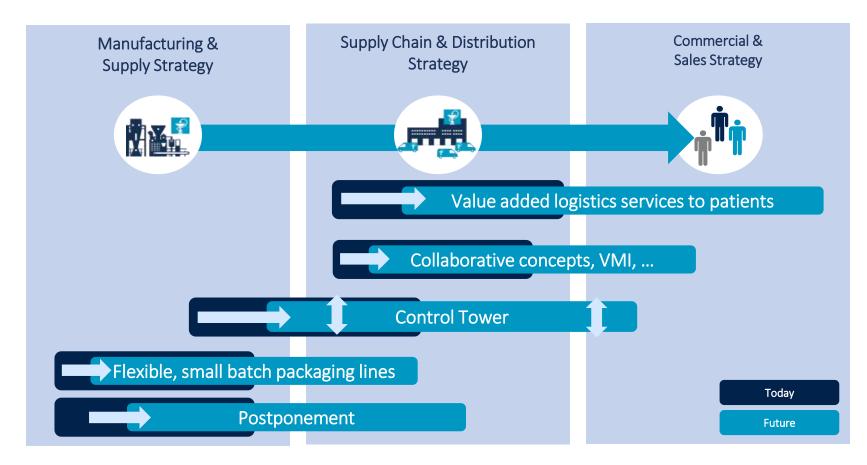
From Various Pharma Logistics Projects Camelot observes, that the Logistics responsibilities are increasingly centralized

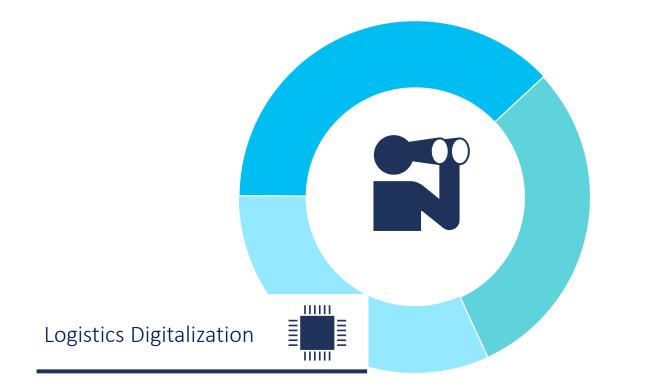


Paradigm shifts: Integrated strategies enable new value creation across the value chain



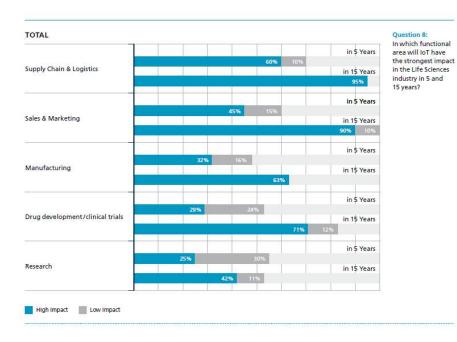
Increased end-to-end supply chain focus requests new concepts from logistics





Pharma Logistics Digitalization

Camelot Pharma Management Survey 2015 (IOT)



Camelot Pharma Management Survey 2017

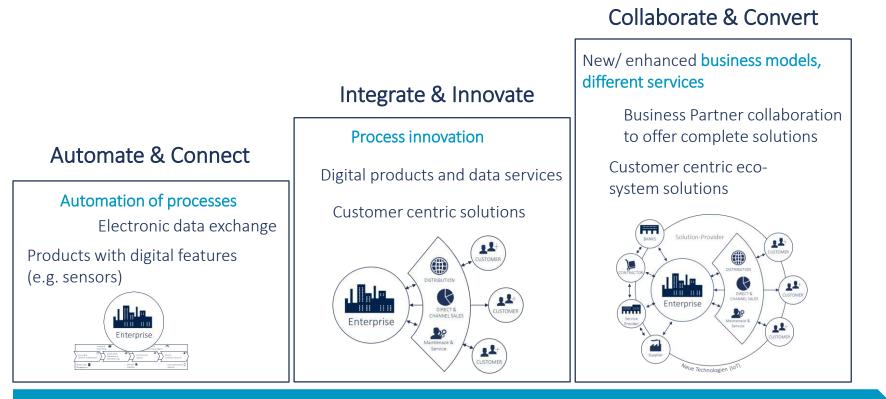


IMPACT OF DIGITALIZATION IN 5 YEARS

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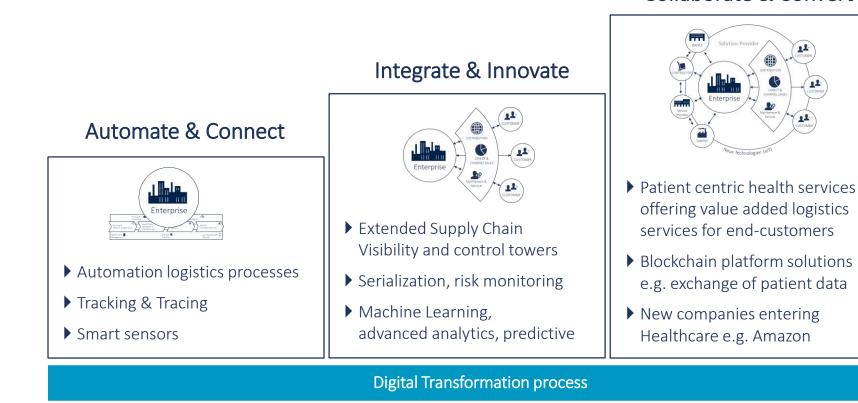
42% Bupply Chain & Logistics
26% Constraint Marketing & Sales
21% Onug Development / Clinical Trials
0% R&D

We see different maturity levels when talking about digitalization



Digital Transformation process

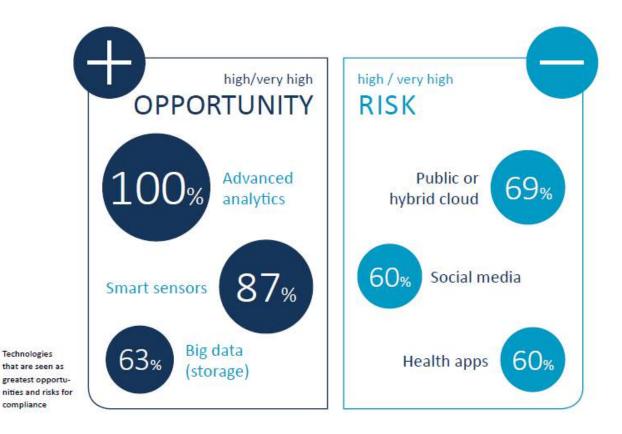
Digital Transformation for Pharma Logistics



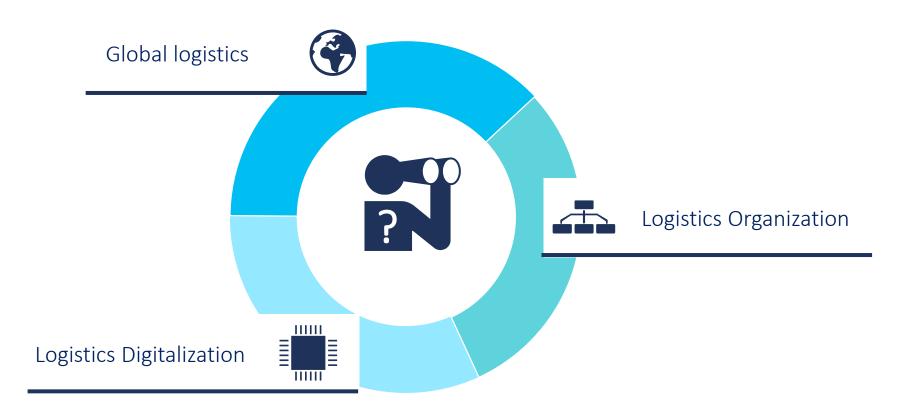
Collaborate & Convert

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Technologies that are seen as greatest opportunities and risks for compliance



Source: Camelot Management Consultants - "Navigating the labyrinth of Pharma Distribution in Africa"





Contact

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Ziel:

World Café (Anleitung)

Austausch zwischen der Pharma-Industrie und den Luftfrachtmachern (FRA) zu vier verschiedenen Fachthemen

Gruppen: 4 Gruppen à 7-8 Personen 50% Pharmazeuten / 50% Luftfrachtmacher

Zeit: Rotation mit dem Uhrzeigersinn nach 15 Minuten

Doku: Dokumentation der wesentlichen Aussagen auf den Flipcharts



World Café (Themen)

Wie definieren Sie eine state-ofthe-art Abfertigung von PIL in der Luftfracht?

Infrastruktur? Personal? Prozesse?

Welche Bedeutung haben Zertifizierungen (z.B. IATA CEIV / GDP) für die Pharma-Industrie?

Vertrauen in die Zertifikate? Relevanz bei Ausschreibung? Reduzierung von Audits? Wie kann die Zusammenarbeit zwischen Pharma-Industrie und Luftfracht verbessert werden?

Dialogplattformen? Datenaustausch?

Schutz der Produktintegriert ↑

Geschwindigkeit ↑

Kosten ↓



Danksagung

Beverly Seebach (Rednerin)

Andreas Gmür (Redner)

Joachim von Winning (Redner)

Sebastian Hering (Check-In u. Back-Office)

Mandy Anslinger (Back-Office)

Elke Stöber (Back-Office)

Marion Hildreth (Back-Office)

InterCity Hotel (Location & Catering)

