

ASX Announcement: 2018/19

4 May 2018

WiseTech Global Investor Day briefing materials

Presentation materials related to WiseTech Global briefings at the Technology, Product and Strategy Day held today are attached.

ENDS

About WiseTech Global

WiseTech Global is a leading developer and provider of software solutions to the logistics execution industry globally. Our customers include over 7,000 of the world's logistics companies across 130 countries, including 33 of the top 50 global third party logistics providers and 24 of the 25 largest global freight forwarders worldwide¹. Our flagship product, CargoWise One, forms an integral link in the global supply chain and executes over 44 billion data transactions annually. At WiseTech, we are relentless about innovation, adding more than 3,000 product enhancements to our global platform in the past five years while bringing meaningful continual improvement to the world's supply chains. Our breakthrough software solutions are renowned for their powerful productivity, extensive functionality, comprehensive integration, deep compliance capabilities, and truly global reach.

For more information on WiseTech Global and CargoWise One, please visit:

- Investor centre <u>www.wisetechglobal.com/investors</u>
- Company website <u>www.wisetechglobal.com</u>

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¹ Armstrong & Associates: Top 50 Global Third Party Logistics Providers List, ranked by 2016 logistics gross revenue/turnover. Armstrong & Associates: Top 25 Global Freight Forwarders List, ranked by 2016 logistics gross revenue/turnover and freight forwarding volumes.



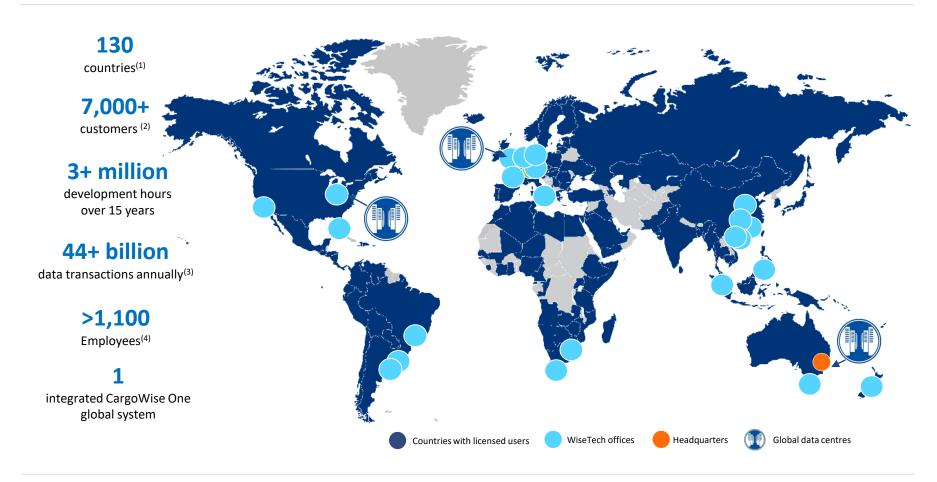
FIVE LEVERS OF GROWTH STRATEGY

WiseTech Global – Strategy and Technology Founder & CEO, Richard White

Product, Technology and Strategy Day – 4 May 2018



A leading provider of software to the logistics industry globally



(1) Countries in which WiseTech software is licensed for use.

(2) Includes customers on the CargoWise One application suite and legacy platforms of acquired businesses; legacy customers may be counted with reference to installed sites.

(3) Data transactions for FY17, transactions measured at 30 June annually.

(4) Includes acquisitions announced to 23 April 2018



Global logistics industry and the competitive environment What's ahead in 2018 and beyond

TECHNOLOGY

Fragmentation Specialisation Proliferation of

micro point systems

'Sneakerware'

IOT

Aging legacy platforms dominate Disparity of code/islands of data vs cloud/global access

COMMERCIAL IMPERATIVES

Exponential volume growth Demand for faster throughput Margin pressure Capital constraints Logistics high margin

industry - for the successful few

Economic 'summer'

COMPETITION

Blurring of 1PL/2PL/3PL

Leaders pulling ahead

Deep systems capability driving value (not discounts)

Legacy platforms LPs ripe for acquisition

REGULATORY PRESSURE

Increasing regulation & complexity Onerous penalties Constant ongoing change (single window, system upgrades, Tariffs, Blocks, Trade Wars, Political change)

Digitisation slow to implement



Industry and competitive environment - WTC

What's ahead in 2018 and beyond

3PL industry in rapid evolution

- Consolidation continues, for 3PL and 2PL providers scale is key
- Increasing demand for integrated ecosystems to improve productivity and competitiveness
- Growing demand, few new commercial provider entrants of scale
- Borders blurring across the logistics industry
- 3PL e-commerce growth, growing 15%+ in key regions driven by consumer spending and increased cross-border purchasing requiring new solutions
- High growth in 3PL logistics, upcycle = stronger inertia around switching platforms

Governments

- Constant ongoing change centred around single window, system upgrades, border control or political change such as Brexit
- Increasing compliance fines to address risks, increasing regulation add-ons
- Digitisation is essential but implementation slow
- Supportive environment for software solution providers

E-commerce growth driver

- E-commerce volumes are simultaneously pressuring and expanding 3PL businesses
- Increasing cross-border transactions to facilitate e-commerce
- E-commerce dismantling offline bricks and mortar, now impacting online retailers and potentially disintermediating wholesalers while both using, and competing with, 3PLs
- E-commerce giants becoming 3PL for their own operations and for third parties – strategy is build/buy and hoard
- E-commerce players expanding in significant ways into new markets

3PL revenues from e-commerce activity are growing faster than the overall 3PL market. 3PL e-commerce revenues are expected to generate a compound annual growth rate of 15.7% versus overall 3PL market growth of 6.0% for the period 2016 to 2020.

Armstrong & Associates 2017



Industry and competitive environment

Customers aligning on needs, clearer solution in sight



Needs of all logistics providers

Real-time visibility

Control over margins

Risk-free, cross-border execution

Faster multi-modal movement

More efficient use of resources

Error reduction

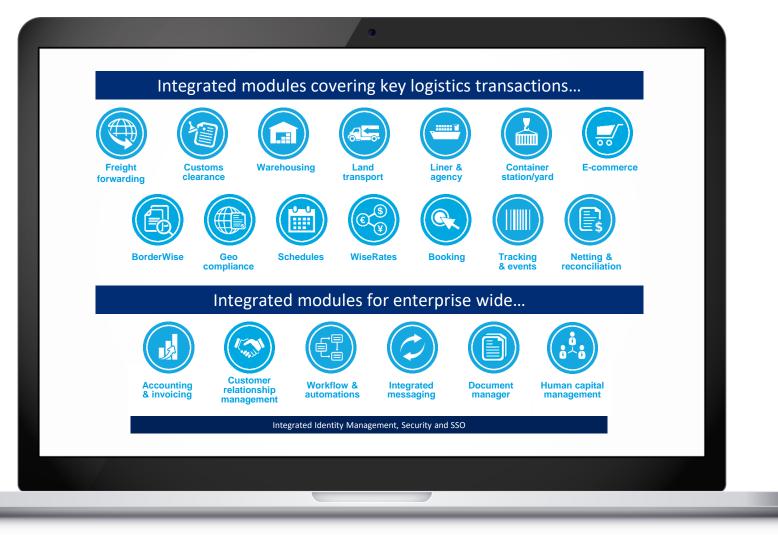


Solution in sight

Integration Digitisation Automation Single source of truth, cleansed + verified global data sets Guided decision-making Exception-driven intervention



Operating system for global logistics





WiseTech difference, transformation track record

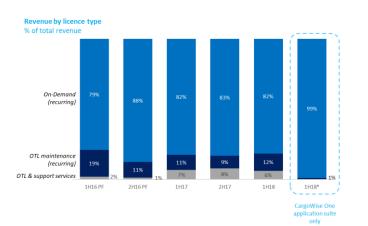


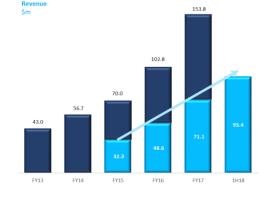
Expanding offshore requires bottom up global solution	Cannibalised AU business by building single source-code, global platform Launched integrated regional platform: AU, NZ, UK, US, SG (2004) Ultimately created the integrated global logistics execution platform (2014)			
Focus on the hardest pain point (cross-border execution)	Freight forwarding + deep expertise in customs clearance + regulatory compliance			
Build globally, configure locally	Developed specialised logistics accounting capability for each country of operation Universal engines with local configurations			
Scale requires uniformity, not more resources	Auto configuration: works 'out of the box' Disciplined approach to product and platform, 'mass customisation' Every feature available to all Solve with technology, new architectures, engineered processes			
Integration, not fragmentation	Data entered once, reused and visible across platform			



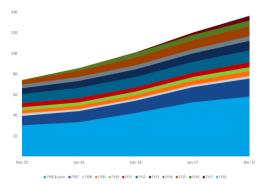
WiseTech difference, transformation track record – *REVENUE*

Create pure recurring revenue	Early move to On-Demand licensing (2008) Transition existing OTL to On-Demand Launched transaction-based licensing – disciplined application (2014) Transition existing to pure Seat+ Transaction-based licensing				
Create pricing simplicity	One standard price list, no need to negotiate				
Behaviours drive revenue	Behavioural discounts: driving volume increases, prepayment, commitment, swift rollouts, module extension				
Data-led strategy	Pay attention to transaction revenue growth and customer attrition				





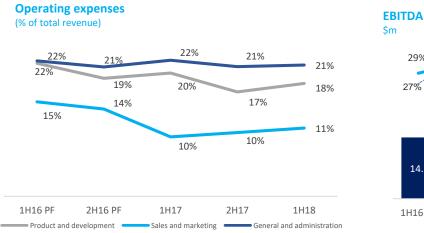
CargoWise One application suite revenue by customer cohort \$m, last 12 months

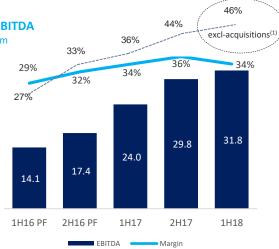




WiseTech difference, transformation track record – COST EFFICIENCY

Build assets, not churn	Inversion of <i>product</i> spend vs usual sales & marketing – prioritise asset development Remove consulting: evolve to channel partner organisations Continuous rollout and expansion with no further sales effort – use and revenue grows as				
Eliminate costly bottlenecks to growth					
	customers add transactions, modules, geographies and industry consolidation				
Solution over service	Self on-boarding, workflow and configuration tools, channel partners, minimal WTC resources. Focus on 2 nd and 3rd level helpdesks, customers establish and run 1st level helpdesks				
	Automated education: built 24/7 certification platform				
Automation	Automated training content platform: videos, use cases and 'user-how-to' guides Auto-billing platform, 130 countries, invoices issued monthly without manual intervention Automated software release + platform upgrade				







1. Acquisitions are those businesses acquired since 2012 and not embedded into CargoWise One.

WiseTech difference, transformation track record – *TECHNOLOGY*

Innovation lead + fast follower	Early deployment 2011 to full cloud – customers transition over 2 years Establish data centres worldwide Built "High Volume Low Value" capability 2006, launched e-commerce 2013 2012, GLOW 'build once architecture', evolve to build software, minimal coder involvement 2013, built PAVE, since applied across global dev workforce – decimated defect rates, exponential growth in development productivity, 500+ new product enhancements annually Built Universal Customs Engine – allow local customs builds in fraction of time Exceptional speed to market – swift delivery of regulatory changes and new products				
Architectures and engines over 'sweatshops'					
Productivity at the centre of everything – 'use not users'	Launched deeply integrated CW1 global platform, high productivity tooling Workflow automation engine – transactions configured to flow from events Introduce exception-based execution on CW1				
Leverage global data sets, transaction sets, new technologies	Built global data sets – cleansed and verified Utilising machine learning, NLP, guided decision making, to maximise the benefit of our vast data lakes and global transaction sets Investigating myriad new technologies for logistics and CW1				

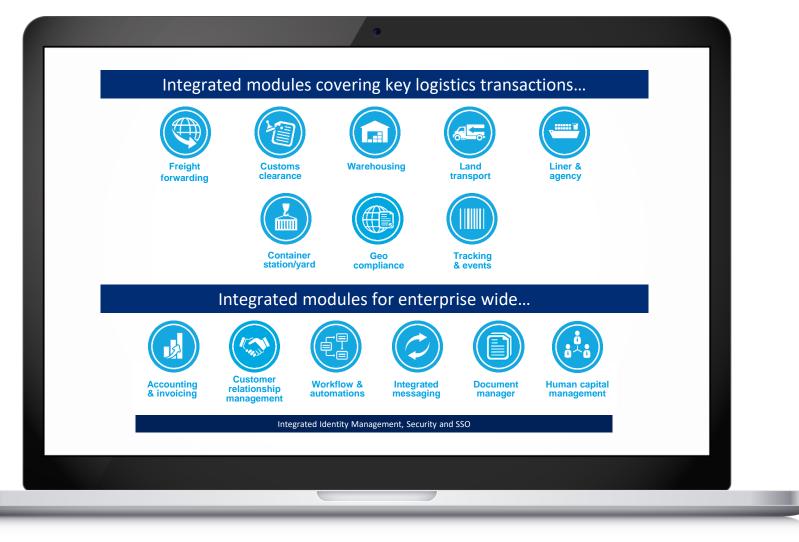


Operating system for global logistics 2004

		C			
Integrate	ed modules o	covering key	logistics trar	sactions	
Freight forwarding	Customs clearance	Warehousing	Container station/yard	Track, trace & manage	
Ir	ntegrated mo	odules for en	iterprise wid	е	
	Account & invoic	ing Docu ing man			
	Integrated	Identity Management, Se	ecurity and SSO		



Operating system for global logistics 2014





Powerful high growth engine – CargoWise One integrated global platform

Strong foundation for future technology, seamless rollout, scalable capacity, global solutions

CargoWiseOne



- ✓ scalable to any size of business
- ✓ global reach 130 countries
- ✓ deeply integrated with real time visibility
- ✓ reduces risks, costs and data entry
- ✓ detailed compliance
- ✓ 30 languages
- ✓ data entered only once
- ✓ automations and delegations
- ✓ built-in productivity tools
- ✓ on-demand/transaction-based licensing
- ✓ global data sets and execution engines
- ✓ swift on-boarding, efficient sales process
- ✓ open-access
- ✓ available anywhere, anytime

Relentless platform expansion with over 500 enhancements annually

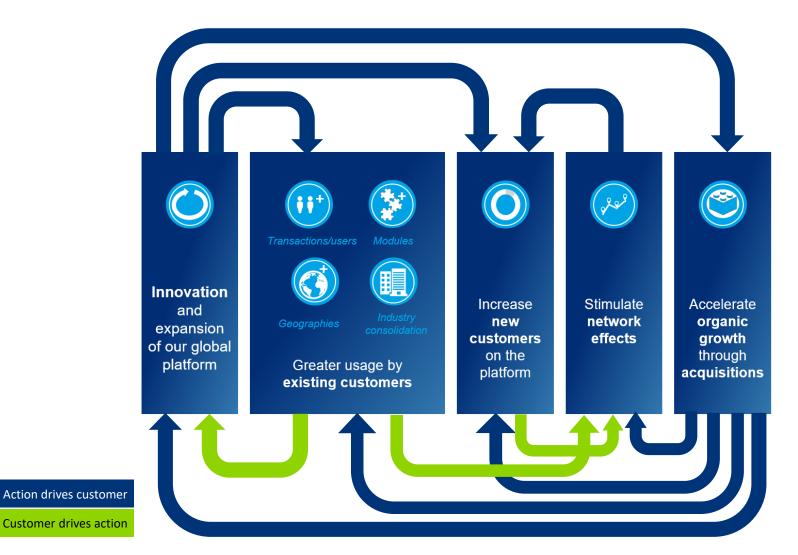


Our five levers of growth



Focus into 2019 – each action expands and accelerates our growth

Innovation & expansion through acquisitions drive new users, greater usage & network effect





Accelerating organic growth through innovation and acquisitions

innovation

Truly global solution

Global integrated CW1 500+ enhancement annually Global freight forwarding Global customs Global data sets Global rates Global schedules Global bookings Global tracking & events Global invoicing Global e-commerce Cloud, on-demand, all devices Fast adoption Transaction growth Increasing inbound queries Development partner requests New ecosystem participants

expansion

Geographic expansion Zsoft Compu-Clearing Core Freight znet ACO Intris Prolink Bysoft ABM Data Systems CustomsMatters EasyLog Forward Softcargo Increasing inbound queries Existing customers reactions

Increasing awareness of WTC progress on global solution for borders

Adjacencies

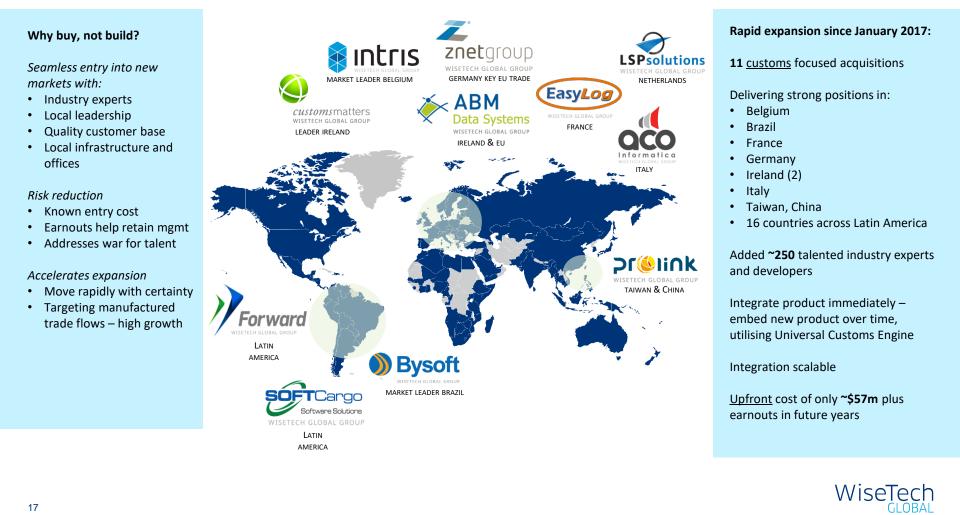
Cargoguide CargoSphere Microlistics Digerati TradeFox CMS Transport



Acquiring businesses for geographic expansion – solving buy or build?

Small targeted acquisitions in key regions provide safer, faster, stronger entry to new markets

We buy into market positions that would take years to build, integrate swiftly, and drive value across platform



Adjacencies feed into our innovation pipeline to build ecosystems

Targeting key plug-ins to our global development or multi-regional adjacencies that can scale

We are **accelerating convergence of technologies** by adding targeted acquisition of key adjacencies to our innovation pipeline to build valuable ecosystems and global product sets.

1H18 acquisitions focus on expanding TAM in ocean, air, land transport, warehousing and data provision

We look for adjacencies that we can scale from domestic multi-region to global product capability, and either:

- 1. Provide a core element for key ecosystem development; or
- Expand our next generation development of existing CW1 modules; or
- 3. Feed into global data set for machine learning and automation

Since 2017, we've added ~200 talented industry experts and developers

Integrate or embed is bespoke to the adjacency

Upfront cost of **~\$72m** plus earnouts in future years

Key to building ecosystem for efficient live rates, bookings and automated execution

Global air rates mgmt – provides global data set on carrier rates. Neutral platform linking carriers and 3PLs.



WISETECH GLOBAL GROU

Leading global provider of software solutions to international liner shipping industry – with operations across Germany, US, Philippines and Singapore.

CARGOSPHERE

Global ocean rates mgmt – provides live, global data set on carrier rates. Neutral platform linking carriers and 3PLs. Rates Mesh standalone and data integrated to CW1 customers.

Microlistics WISETECH GLOBAL GROUP

Specialist WMS across Asia Pacific, North America and Middle East for enterprise, express, 3PL and cold storage. Gartner rated.

Diversti 6 TradeFox

Australian reference data providers feed into stage 1 of our global BorderWise data set edevelopment.

CMS Transport Systems WISETECH GLOBAL GROUP

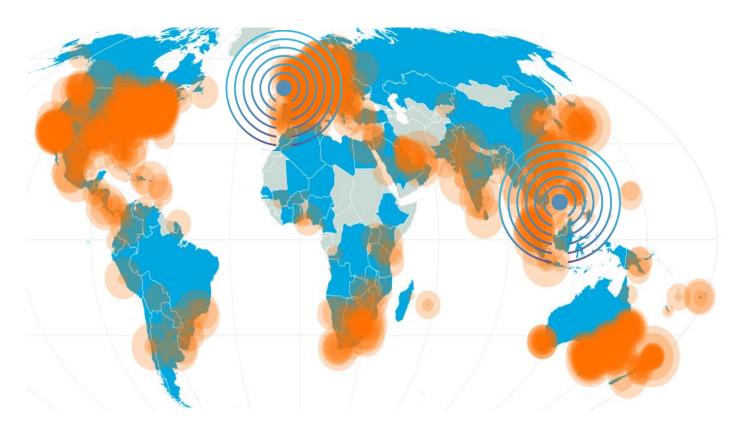
Transport mgmt systems to add to our next generation Land Transport solution.



Acquiring businesses to accelerate organic growth

Acquisitions focus on manufactured goods trade flows or technology adjacencies

Geographically we are following the G20 *plus* 20 assessed on manufactured goods trade flows Significant progress made with 23 countries acquired since January 2017 Now covering 30 countries in total for customs processing



What we target

- Strongly entrenched solution providers in non-English speaking markets with complex cross-border compliance requirements
- New geographies focused on manufactured goods trade flows (not GDP)
- New, complex, adjacent competencies to plug-in to our global development or multi-regional adjacencies that can scale to global



Accelerating organic growth – our M&A machine

Internal M&A capacity

- Origination
- Due diligence (ex. local tax, in-country legals)
- Completion execution
- Integration
- Embedding
- Customer transition

Source and buy assets that are not for sale

Cultural fit is key

Self-integrating acquisitions allows for rapid scale

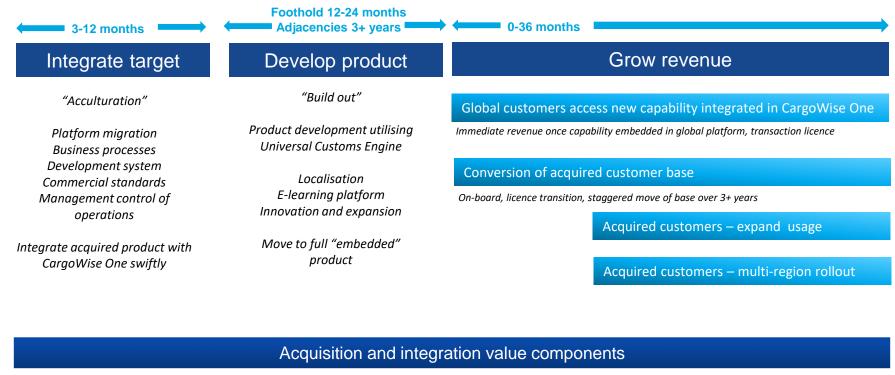
WTC architectures PLUS integration milestone kits





Acquisition – integration process + value components

Stage 1 integration completed swiftly, we focus on long-term product capability and growing revenue







Acquisitions accelerate organic growth

China expansion: case study – key foundation within region

- Organic entry accelerated with Zsoft acquisition
- Operations cover development, sales, support and content
- Servicing global 3PLs in China and commencing CW1 sales locally
- China foundation now established for rapid Asia expansion



Laying the foundation

- 2008: international customers first take us to China
- 2013-4: Nanjing Software Development Centre
- 2015 Zsoft (FF) acquisition and integration of Shanghai, Shenzhen, Guangzhou
- 2016 rebrand, build translation teams for e-learning, sales/marketing content
- 2017 commence China customs development, establish WisePartner
- FY18 acquire Prolink, sign leading Taiwan FF on CW1
- 2018 complete contract mechanism, simplified Chinese e-learning, collateral, website, customer portal, recruit further WisePartners
- 2H18 begin major sales drive for key customer segments
- Foundation work in China = solid base for rapid expansion to Hong Kong + Taiwan
- ~ 165 staff incl 55 developers across China +Taiwan active CW1 further development
- 2H18 Japan office opened

Significant opportunity

- Largest export market globally
- ~5,500 NVOCCs
- ~41,000 freight forwarders and agents
- ~5,000 govt registered Class A forwarders
- 700,000 logistics service providers, +15% pa
- Top 100 FF median revenue ~USD160m

Key customer streams

- 1. Global/regional 3PLs and FF operating in China
- 2. Large Chinese co. globalising
- 3. Larger Chinese-based organisations
- 4. Transition of relevant Zsoft customers

(NB: revenue appears in Existing/New/Acquisitions)

















Innovation investment

Significant pipeline of longer-term innovations across existing verticals and new adjacencies

~600		Work faster, harder, smarter				
product upgrades and enhancements annually	Major development focus on: Productivity 	• Productivity Acceleration	GLOW • 'Build once' architecture and	Universal Customs Engine • Accelerating complex		
37% of revenue invested in 1H18	Global data setsMachine learning	Visualisation Engine	'coding without coders'	customs localisations		
	 Natural language processing Guided decision making 	Reduce cost, time, eri				
50% of employees focus on innovation and product development	 HVLV logistics (e-tail) Regulatory environment changes regulatory environment changes 	WiseRates Global data sets Real-time access Immediate booking 	Global Tracking Global air/ocean schedules, container and air waybill tracking 	BorderWise Risk reduction Due diligence Cost efficiency 		
>670,000 unit tests executed every 45	Over 3,000 product upgrades and enhancements added to the global platform over last 5 years	Supply chain behavio	ural change			
<pre>>\$200m invested FY14-FY18F</pre>	Our FY18 commitment: >\$65m in	 GEOCODE Global address cleansing Geocoding Master data de- duplication 	 Global data sets Multi-modal rates, schedules, bookings Compliance data 3PL supply chain 	 Machine learning Process automation Guided decision making Natural language processing 		
23				WiseTech		

Cargo chain – building an ecosystem

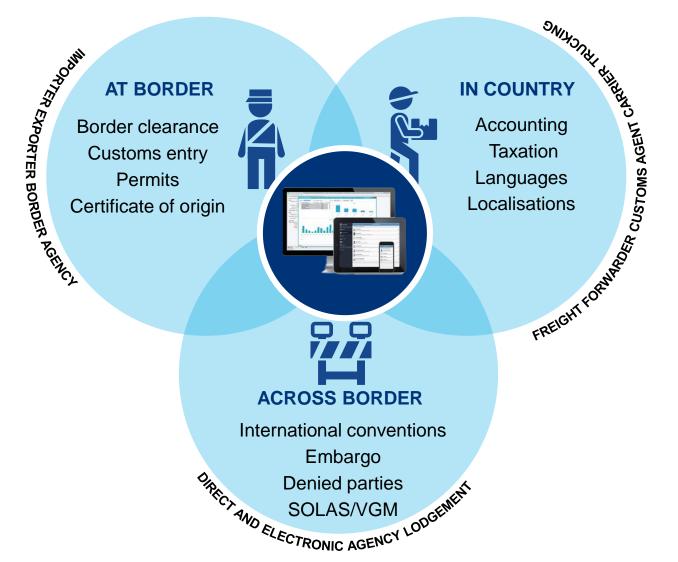


Needs of all logistics providers

- Real time visibility \checkmark
- Control over margins \checkmark
- Faster multi-modal \checkmark movement
- More efficient use of \checkmark resources
- \checkmark Error reduction



Trade and border compliance ecosystem – pain points abound



Needs of all logistics providers

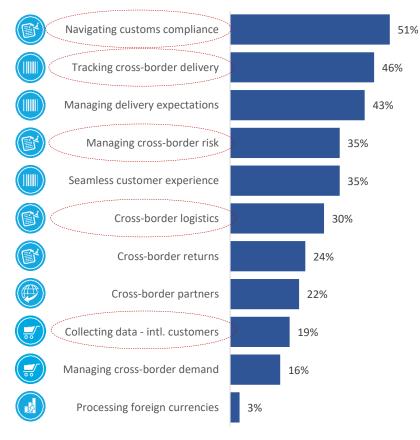
- ✓ Control over margins
- ✓ Risk-free, crossborder execution
- ✓ Faster multi-modal movement
- More efficient use of resources
- ✓ Error reduction



E-commerce volumes and speed demand 'light touch' execution

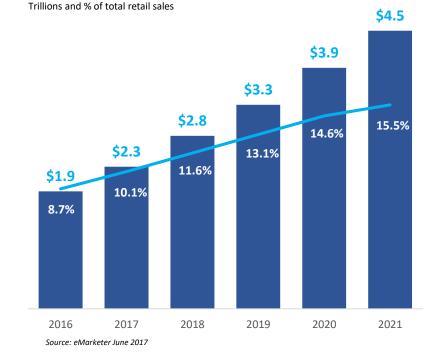
Border management + compliance risks are the largest pain-point of international logistics and e-commerce

What challenges do you face with your cross-border e-commerce (other than cost)?



Source: EFT report – Supply Chain Hot Trends 2018 Q1&Q2

Retail e-commerce sales worldwide, 2016-2021



"By 2020, an estimated 45 percent of online shoppers will purchase goods from other countries, which represents a four-fold increase in the value of cross-border sales since 2014."

Colliers International 'supply chain disruptors' 2017



E-commerce 2nd generation, 'High Volume Low Value'

Providing scalable, high volume integrated solution for 3PLs facing e-commerce juggernaut

International e-commerce solution designed for higher volume levels Country agnostic – founded on the global customs strategy Designed for seamless rollout to CW1 customers and into their partner warehouses Web-enabled, multi-user interface, multiple devices Global rollout expected FY19

- Fully integrated, highly scalable, cross border solution for HVLV packages
- Next generation to our existing e-commerce product (AU)
- Full integration between freight forwarding, customs brokerage, warehousing, last-mile carrier management and online tracking
- Transaction-based licencing, cloud-enabled
- Immediate customer base from our existing e-commerce customers
- Currently in prototype test with development partner, then roll out to existing AU & NZ customers.
- Phase 1 launch complete FY18 with destination depot. Phase 2 origin warehousing, courier integration and automations in FY19.



\/\/ISP

27

Opportunity + 2019



Opportunity Logistics market size: across 1PL, 2PL, 3PL = ~A\$14trillion

Global 3PL

- Top 150
- LP in each vertical and each domestic market

E-commerce

- 3PLs
- Express couriers
- E-commerce giants
- Postal services

Government

- Regulation
- Digitisation
- Integration
 Domestic
 regulators
 Global regulators
 Industry bodies

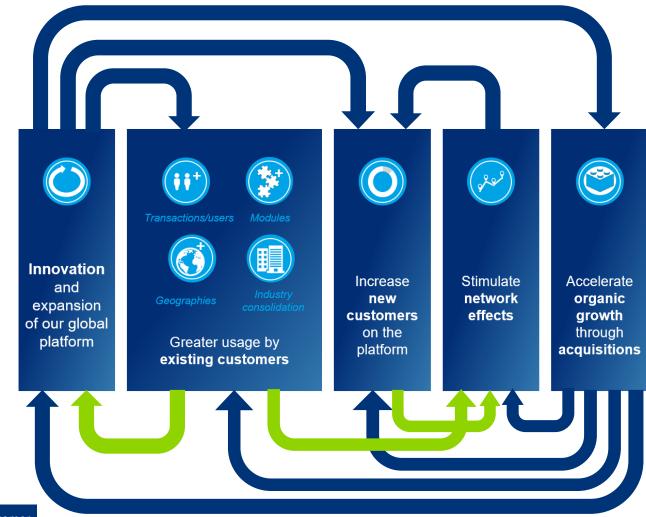
Ecosystems

Ecosystems, once built, drive long term value that is near impossible to dislodge

Some of our products and innovations also apply to non-logistics markets eg: PAVE (all industries) and GLOW (software development)



Focus into 2019 *Consistent and disciplined execution of our 5 levers of growth*





Action drives customer

Visit our investor centre for more information on WiseTech Global www.wisetechglobal.com/investors

Videos



Productivity Overview

MONITOR JOB PROGRESS AND STAFF ASSIGNMENTS



Presentations



WiseTech Global investor conference presentation - May

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2017
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WiseTech Global AGM 2016 - November 2016

Other materials





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PRESENTATION OF INFORMATION

- **Prior period pro forma (PF)** Except where explicitly stated, the financial data prior to FY17 in this presentation is provided on a pro forma basis. Information on the specific pro forma adjustments is included in the Appendix to the 1H18 Results investor presentation dated 21 February 2018.
- Current period statutory The financial data for 1H18 in this presentation is provided on a statutory basis but in a non-statutory presentation format.
- **Currency** All amounts in this presentation are in Australian dollars unless otherwise stated.
- FY refers to the full year to 30 June, 1H refers to the six months to 31 December and 2H refers to the six months to 30 June.
- **Rounding** Amounts in this document have been rounded to the nearest \$0.1m. Any differences between this document and the accompanying financial statements are due to rounding.

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INNOVATION AND EXPANSION OF OUR GLOBAL PLATFORM

Product development: how we drive innovation

Product, Technology and Strategy Day – 4 May 2018

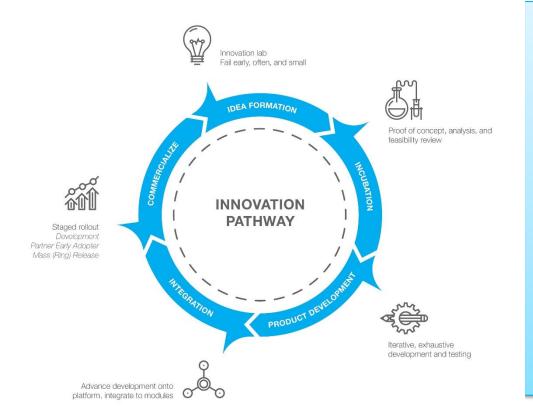


Global innovation development teams

- Universal access to CW1, PAVE, GLOW, Universal Customs Engine
- Global development team over 500 people across 20 countries, leveraging local knowledge
- Multi-language support



We achieve with relentless engineering to remove constraints to scaling innovation



- Culture supports **bold ideas and innovation**
- "Tech creatives" achieve in a supportive environment of "freedom and responsibility"
- High performance innovation cycles we strive to solve complex, perennial industry–specific problems, attacking root cause
- **"Test first, fail quickly, improve rapidly"** approach ensures rapid application development at high quality with efficient resource use
- Flat, low hierarchy management, small teams, open hubs, eclectic hires and skill development
- Architectures: PAVE + GLOW + Universal Customs Engine





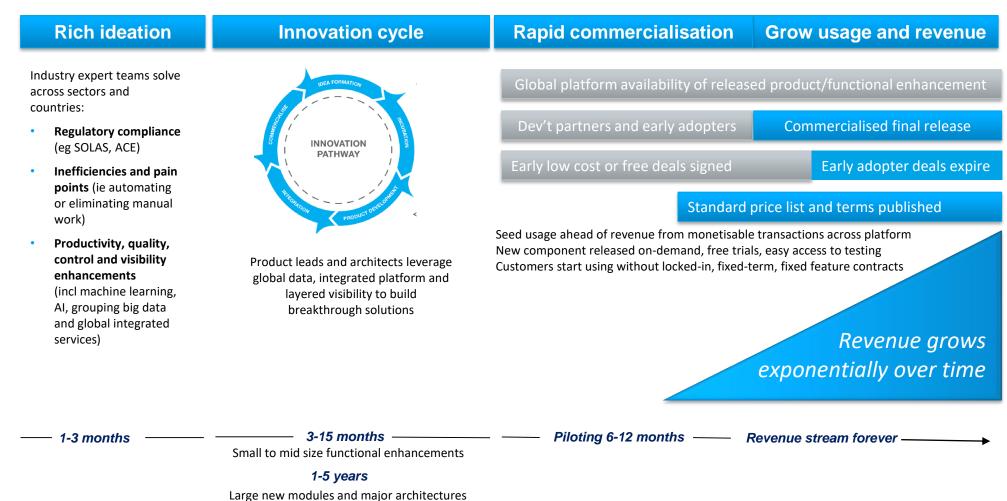






Product commercialisation and monetisation processes and timeline

High innovation to commercialisation ratio – product designed for CW1 platform + global customer base





Innovation investment

Significant pipeline of longer-term innovations across existing verticals and new adjacencies

~600

product upgrades and enhancements annually

37% of revenue invested in 1H18

50%

of employees focus on innovation and product development

>670.000

unit tests executed every 45 mins

invested FY14-FY18F Major development focus on:

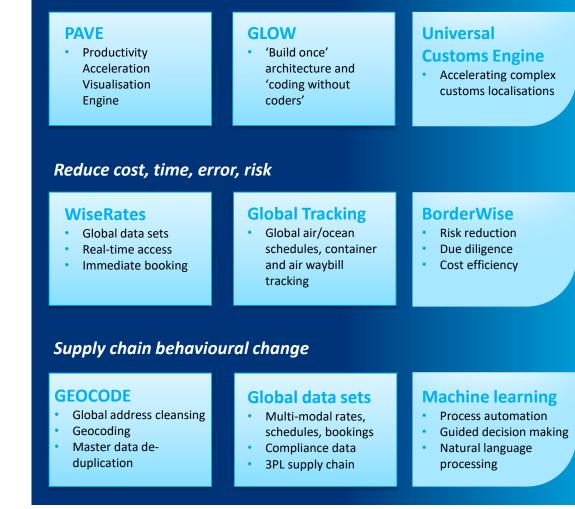
- Productivity
- Global data sets
- Machine learning
- Natural language processing
- Guided decision making
- Global automations •
- HVLV logistics (e-tail) •
- Regulatory environment changes

Over 3,000 product upgrades and enhancements added to the global platform over last 5 years

Our FY18 commitment: >\$65m in innovation and development

>\$200m

Work faster, harder, smarter









BorderWise

Tracking & events



Rates & bookings



Global accounting, netting and invoicing



E-commerce



Know your customer, denied party, Master Data

Innovation pipeline - Why do our customers need BorderWise?

Increasing regulation and complexity across borders

Definition & Example for U.S. HTS Codes [hts code example] 0901.21.0010 What these numbers mean Coffee, Tea, Mate And Spices 09 Chapter Coffee, Whether Or Not Roasted Or Decaffeinated; Coffee Husks And Skins; Coffee Substitutes Containing Coffee 0901 Heading Coffee, Roasted, Not Decaffeinated 0901.21 Sub Heading No Distinction 0901.21.00 Subheading Coffee, Roasted 0901.21.0010 Statistical Suffix

Top import errors

- Valuation date
- Tariffs
- Incorrect delivery address
- Gross weight
- Overseas goods Insurance
- Invoice terms
- Tariff concession orders

- Classification governed by the WCO Harmonised System (HS) and then each Government extends the 6 digit HS
- Duty and tax determination requires interpretation using the WCO HS and the local variant, law, regulation, case law etc
- Many other government agencies add requirements to import and export compliance
- Incorrect classification can cause significant delays, fines, penalties, reputation and other risks

Top export errors

- Valuation date
- Gross weight
- Export tariff (AHECC)
- Net weight
- Origin
- Other export data inaccuracy

- False or misleading information to customs and border protection is a strict liability offence
- Hefty fines impacting the bottom line and/or individual employee
- Over or under payment of duties & GST
- Corporate/individuals liable for underpayments
- Bad compliance record
- Suspension/loss of corporate or individual licence
- Potential dispute and/or loss of client
- Dispute resolution legal and court costs
- Professional indemnity insurance increase



Innovation pipeline – BorderWise

Global data set + machine learning = powerful border compliance engine, market leading

- WiseTech border compliance engine
- + Custom-built global data set
- + Adjacent acquisitions x 2
- + WiseTech machine learning and natural language processing (NLP)
- Prototype testing to rapid deployment <6 months

Immediate customer base from ediTariff, Digerati and TradeFox

Attractive for large global 3PLs and non-logistics data providers

What's in the box:

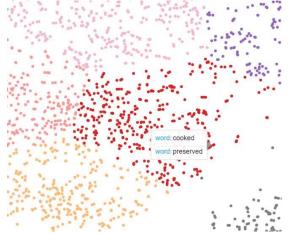
- Next generation of compliance management: comprehensive, integrated suite of legal books, technical documents, tariff-classification tools, and reference information.
- Provides the full breadth of customs publications from the World Customs
 Organization Harmonized System Explanatory
 Notes and the principles of valuation, to
 ratified treaties and local legislation.
- Global data set with real-time updates and alerts on legislation, publications and notices from regulatory bodies. Improves productivity, reduces compliance risk, fines, penalties and costs and can help customs and border protection agencies mitigate safety and security risks arising from the movement of goods across their borders.

Development:

- Over 60m past classifications and growing exponentially daily.
- Extensive global and local data set drive our machine learning and NLP techniques.
- NLP will allow levels of automated classification through the use of guided decision trees.
- Available standalone and integrated with CargoWise One.
- SaaS subscription licensing, cloud enabled.
- Launched in Dec 2017
- Rolled out to Australia, NZ and US
- In the future: Canada, Brazil, Germany, Italy, the EU, Mexico, Singapore, South Africa, Taiwan, UK, then ROW.













<u>BorderWise</u>

Tracking & events

Rates & bookings

Global accounting, netting and invoicing



E-commerce



Know your customer, denied party, Master Data

Innovation pipeline – Tracking & events

Data availability, speed, accuracy and quality is essential for all parties involved

Customer challenges

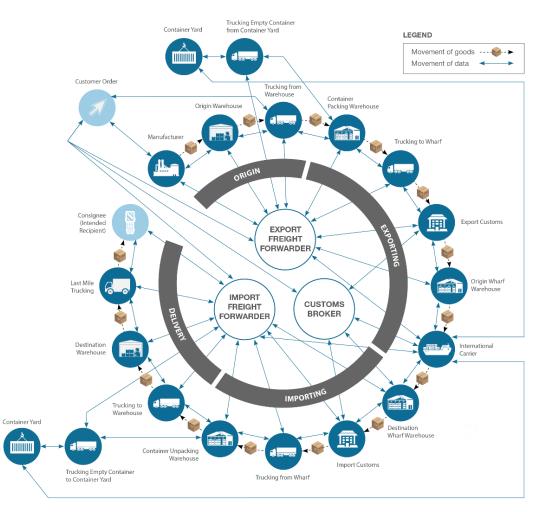
- Manual search of events, manual data entry, risk of error
- Too much data to monitor
- Loss of productivity
- Possible delays and penalties
- Missed connections, futile trips

Industry challenges

- Industry growth:
 - Over 20 million TEU in operation (650m TEU rotations per annum)
 - Over 50,000 merchant vessels including over 5,000 containerised
 - Hundreds of ocean carriers and airlines
 - 25 million AWB per month
 - ~36 million commercial flights a year (IATA 2017)
- Inability of multiple logistics players to share data electronically, and those who can only provide data to exporters as a response to electronic booking, leaving other logistics providers out

Information challenges

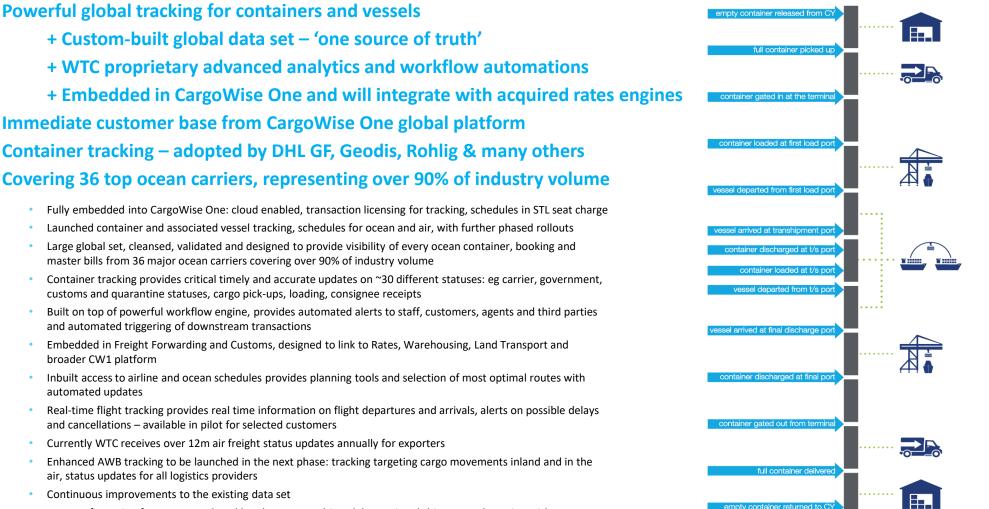
- VOLUMES and VOLUMES of information
- No two sources of data are the same
- Data duplication: similar data provided by different sources
- Data is available too late
- Cargo can be offloaded or split
- It is a configuration and data setup nightmare





Innovation pipeline – Tracking & events

Global data set, powerful, unique global tracking engine



Zero configuration from users, reduced headcount, penalties, delays, missed shipments, detention, risks = increased productivity



•







Global accounting, netting and invoicing



E-commerce

<u>BorderWise</u>

Tracking & events

Rates & bookings



Know your customer, denied party, Master Data

Innovation pipeline – Rates management

Data availability, speed, accuracy and quality is essential for all parties involved

Customer Challenges

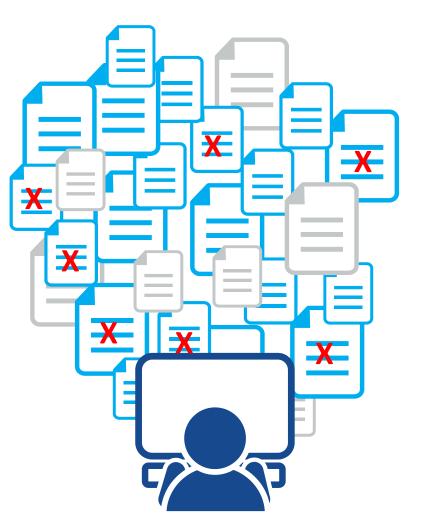
- Ocean carrier contracts are highly complex and not standardized
- Manual entry of contract and rate information both costly and error prone
- Tight margins mean incorrect buy rates can reduce or eliminate profit on a shipment
- Inaccurate invoices lead to time consuming dispute processes and journal adjustments
- Shipments (cargo) can be held by a carrier due to lack of timely payment of invoices

Industry Challenges

- Freight forwarders:
 - Time consuming: estimated 24.4m hours per year spent by freight forwarding industry handling buy-rate management
 - Costly: Annual labor cost expended by the global freight forwarding industry to manage and/or find accurate carrier buy-rates is estimated to be US\$500m
 - Inaccurate: inaccurate invoices reported as high as 12% to 20%
- Ocean carriers:
 - Distribution methods to customers still very 'manual' via email attachments, website updates
 - Confidentiality of contract rates, and rapidly growing spot market, pose distribution concerns

Information Challenges

- 1,000+ potential surcharges (average 9 per shipment)
- Can be 100+ different port pairs in a single contract
- Coding of freight charge types different per carrier and customer
- Different data and contract structures per carrier





Innovation pipeline – Rates management

Global data set of real-time, accurate rates

Powerful global data set of carrier rates

- + Real-time access to rates within your operational system
- + Embedded in CargoWise One and will integrate with acquired rates engines

What's in the box (WiseRates/CW1):

- Provides a live, centralized, global data set on carrier rates
- Supports auto-rating of shipments
- Standardizes carrier rates and charge codes
- Directly optimizes profit margins of all CW1 supply chain quoting and billing operations

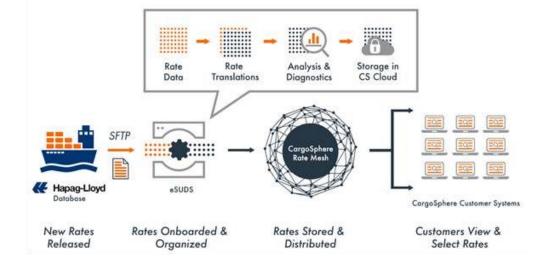
What's in the box (CargoSphere):

- Neutral platform linking carriers and BCOs, freight forwarders & 3PLs
- Rates Mesh standalone and data integrated to CW1 customers
- Hapag Lloyd (top 5 ocean carrier) is the first to offer its customers automatic access to all their contract rates using CargoSphere's electronic Smart Upload and Diagnostics Solution (eSUDS)
- CargoSphere provides rate management solutions and Rates Mesh to over 100 customers including Kuehne + Nagel, Dachser, M+R Spedag, and Livingston International

Development:

- Provide rate back to carrier within booking and shipping instruction
- Single sign on (SSO) for enhanced user experience for CW1 customers
- Integration with Cargoguide for air rates management
- Integration with land transport providers/integrators

Hapag-Lloyd Digital Rate Distribution in CargoSphere Platform



"Eliminating the email distribution of spreadsheets and PDFs is an exciting moment for Hapag-Lloyd. We are committed to improving efficiency for our customers and ourselves, and this joint Hapag-Lloyd/CargoSphere integration achievement is an important contribution to the industry as it improves timeliness and accuracy"

Henning Schleyerbach, Senior Director Sales & Service Processes of Hapag-Lloyd







BorderWise

Tracking & events



Rates & bookings



Global accounting, netting and invoicing



E-commerce



Know your customer, denied party, Master Data

Innovation pipeline – third party logistics requires specialised accounting

Supply chain activities, fragmented data and domestic regulations add complexity

Challenges in 3PL accounting

Day-to-day business

• Issuing invoices, posting costs and tracking job profit for thousands of jobs per month

Invoicing compliance

- Tax determination
- Presentation of the invoice document
- Electronic invoicing compliance
- Fiscal compliance invoice vs invoice as 'request for payment'

Settlement

- Complexity of transactions = disputes
- High volume = lengthy reconciliation processes
- Credit controls critical to reduce bad debt exposure
- Inter-agent settlements = high cost



CargoWise One solves globally – 130 countries

Invoicing and invoicing compliance

- VAT engine extended over time to meet the needs of 130 VAT countries focussed on logistics industry businesses
- Cash basis VAT implemented generically for all jurisdictions
- Fiscal document classification + numbering engine
- Generic Transaction Compliance Reporting Engine
- Cost and revenue estimates linked to invoice cost + revenue invoice posting
- Job transactions automatically integrated into general ledger
- Universal XML model for accounting transactions

Settlement

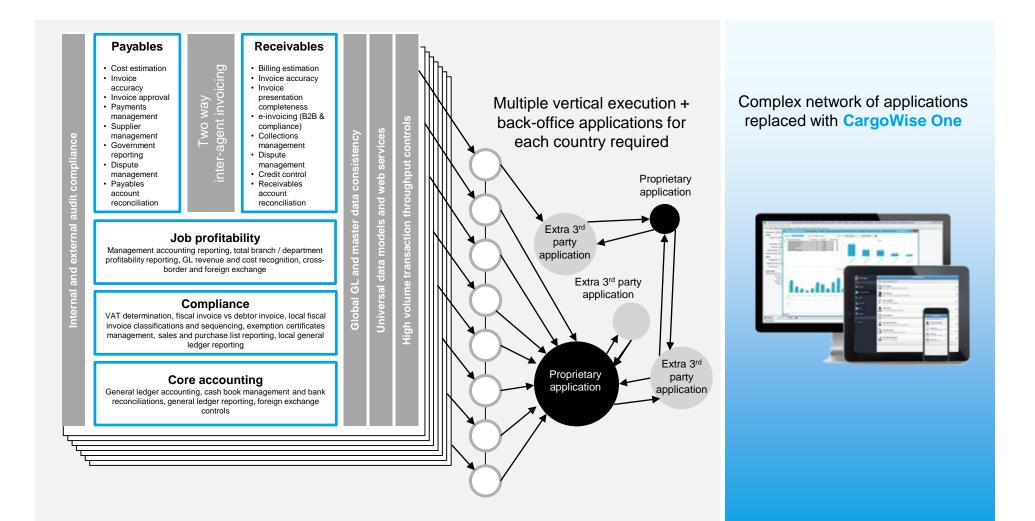
- In-built payments + receivables management
- Integrated dispute management for claims + queries
- Bulk AR + AP data management

Inter-agent settlement

- Multi-lateral, multi-currency global invoice + payment netting
- In development partner pilot phase now

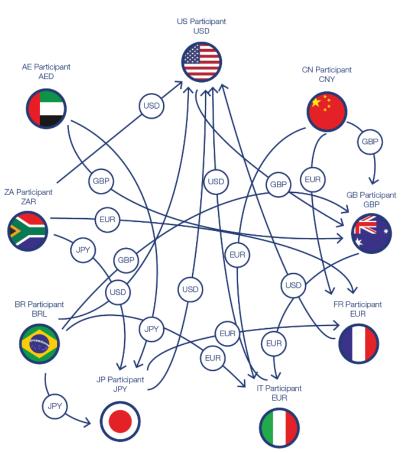


Innovation pipeline – 3PL requires specialised accounting *Complex network of applications replaced with CargoWise One*

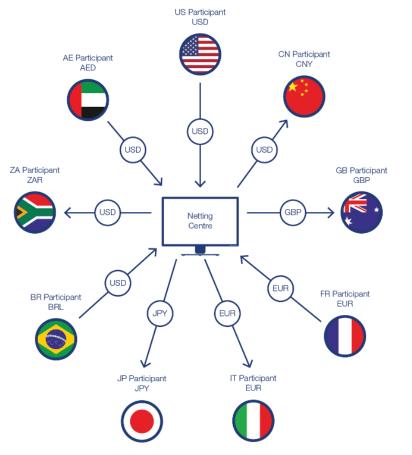




Innovation pipeline – CargoWise One delivers netting in addition to accounting *Netting reduces the number of payments and shortens the time taken for reconciliations*



Without netting



With netting







BorderWise

Tracking & events



Rates & bookings

E-commerce



Global accounting, netting and invoicing





Know your customer, denied party, Master Data

Innovation pipeline – e-tail 2nd generation, High Volume Low Value

Scalable, high volume integrated solution for 3PLs facing e-commerce juggernaut

International e-commerce solution designed for higher volume levels Country agnostic – founded on the global customs strategy Designed for seamless rollout to CW1 customers + their partner warehouses Web-enabled, multi-user interface, multiple devices Global rollout expected FY19

- Currently in prototype test with development partner, then roll out to existing AU & NZ customers.
- Phase 1 launch complete FY18 with destination depot. Phase 2 origin warehousing, courier integration and automations in FY19.
- Fully integrated, highly scalable, cross border solution for HVLV packages
- Next generation to our existing e-commerce product (AU)
- Full integration between freight forwarding, customs brokerage, warehousing, last-mile carrier management and online tracking
- Transaction-based licensing, cloud-enabled
- Immediate customer base from our existing e-commerce customers







BorderWise

Tracking & events



Rates & bookings



Global accounting, netting and invoicing



E-commerce



Know your customer, denied party, Master Data

Innovation pipeline – Geo compliance: the cost of shipping to a denied party

Increasing government scrutiny, increasing fines and penalties

US Export Administration Act 1979

- Criminal penalties
 - \$1,000,000 per violation
 - 20 years imprisonment per violation
- Administrative penalties
 - \$250,000 per violation, or twice the amount of the transaction, whichever is greater
- Loss of export licence

Compliance thwarted by problem of scale

- More than 120 lists globally
- Over 200,000 denied parties
- 3,000 changes per week

"We are putting the world on notice: the games are over. Those who flout our economic sanctions and export control laws will not go unpunished – they will suffer the harshest of consequences."

Wilbur Ross – US Secretary of Commerce

FY		Criminal	Administrative
	Convictions / cases	52	63
2013	Fines / penalties	\$20.9M	\$6.1M
	Imprisonment	73 Years	
2014	Convictions / cases	39	44
	Fines / penalties	\$139.1M	\$60.4M
	Imprisonment	47 Years	
2015	Convictions / cases	31	47
	Fines / penalties	\$240.9M	\$15M
	Imprisonment	40 Years	
2016	Convictions / cases	32	35
	Fines / penalties	\$79.3M	\$23M
	Imprisonment	73 Years	

2017

ZTE was fined a record \$1.19B in March for exporting communications equipment to Iran and North Korea

https://www.bis.doc.gov/index.php/enforcement/oee/penatites https://www.commerce.gov/news/press-releases/2017/03/secretary-commerce-wibur-1-rossjr-announces-119-billion-penalty

WiseTech

Record fine in 2017 \$1.19bn

Innovation pipeline – Geo compliance: the denied party solution

CargoWise One – an integrated solution

Fully integrated screening of

- organisations and contacts
- vessels

Stops document production for

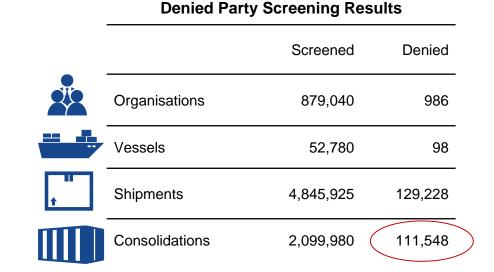
- shipments and consolidations
- US customs declarations

List updates are automated

Match rates improved by:

- automated rescreening
- duplicate removal
- multiple fuzzy matching techniques
- address verification before screening (125m to date)

More than 2 million screens in 2017



"For us, the address validation is a mandatory step for denied party screening... so we are fine with the validation! It's VERY fast and now that the address validates as you are typing it into the organization module, it's even better!" Debbie Strojan – OIA Global







INNOVATION AND EXPANSION OF OUR GLOBAL PLATFORM

Architecture / data centres / security / scalability Brett Shearer, Chief Technology Officer

Product, Technology and Strategy Day – 4 May 2018



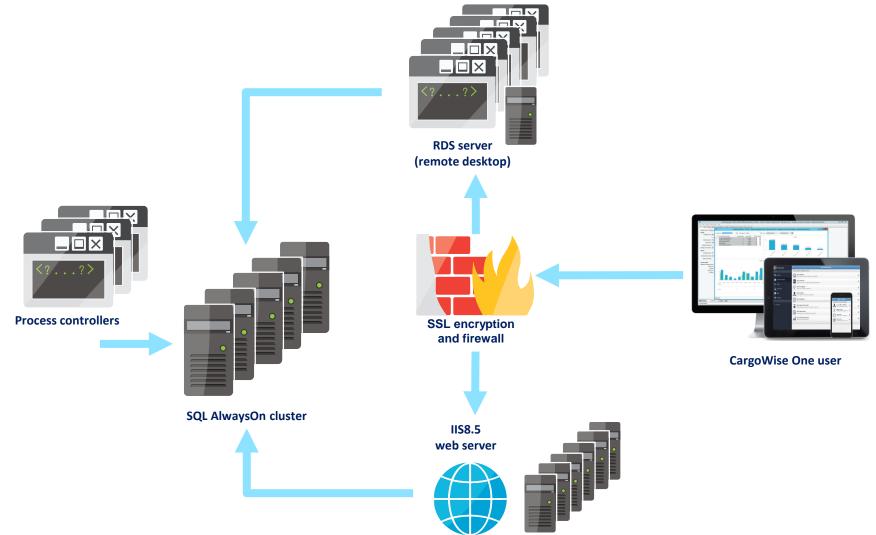
Integrated global platform structured to be the 'operating system'

- CargoWise One is designed to be the 'operating system' with infinite scale
- Investment in single-source code integrated global platform
- Platform operates efficiently for small users to tens of thousands users per customer
- Test-driven product development framework with 670,000 tests run every 45 minutes
- Focus on efficiency 'more with less'
- Ongoing annual data transaction reduction



CargoWise One scalability

Scales out for high performance and repeatable implementation





Global data centres located in UK, Asia Pacific and North America





North America, Chicago United States, Rest of World



England, Milton Keynes Europe, Middle East, Africa



Australia, Sydney Asia, Australia, New Zealand



WiseCloud hosting benefits

Benefits to customer

- Faster go-live
- One-stop-shop: provides all they need
- Tuning/optimisation/monitoring provided as part of hosting
- GDPR requirements managed
- SOC accreditation for all data centres
- No upfront capital expense all operational

External products that are used for hosting

- Dell servers
- CISCO networking
- Windows / Linux (Cent OS 7)

Why do some customers use private cloud?

- Security/control protocols
- Existing hardware and IT services spend is utilised





Security

Security implemented at all layers to protect against all forms of attack

Software management

Automated patching

Single eHub/Universal* interface decreases surface area for attacks

Access

Physical access controls

 Two factor authentication internally

Logical access

- Single sign-on
- interfaces encrypted with SSL



Development All development in-house (No outsourcing)

Data centre

Whole cloud owned by WiseTech

Independent audits

- Vulnerability scans
- Penetration testing
- Risk assessment
- SOC accreditation



Approach to technology

Technology choices are based on fitness for purpose – no exclusions due to vendor or platform

AI/NLP/ML

Languages

- Scala
- R
- Python

Techniques

- Neural networks
- Word vector
 representation
- Big data
- Natural language
 processing
- Machine learning





Storage/data

Software defined networking

NoSQL

- Mongo
- Graph database

RDMS

- Postgres
- SQL server

Indexing

💑 kafka

Scala

- Lucene
- Elastic Search

Ĉ

python

Platform/messaging technologies

- Kafka
- Blockchain/distributed ledgers

Out on the horizon... quantum computing









ACCELERATING ORGANIC GROWTH THROUGH ACQUISITION

Panel: Experience of origination, acquisition, integration Bysoft, CargoSphere, Microlistics, ABM Data Systems

Product, Technology and Strategy Day – 4 May 2018

Panel guests



Edneia Moura Chebabi **Managing Director** bysoft Soluções Em Sistemas ('Bysoft')

Edneia founded Bysoft in Brazil in 1991, a company that went from success to success, being awarded the Best Company Global Award for developing logistics solutions for foreign trade in 1999.

In 2005, Edneia was awarded the Prêmio Intermodal for the Best Businesswoman of the year. Edneia has 35 years of experience in information technology, and 30 of these were dedicated to developing software for foreign trade management.

Bysoft was acquired by WiseTech Global in 2017.



Stewart Bourke Managing Director ABM Data Systems



Mark Dawson Managing Director Microlistics



Neil Barni **Managing Director** CargoSphere

Neil founded CargoSphere in 1999 with

an aim to create a market leading

freight rate management and networking solution. CargoSphere connects the global shipping industry with its collaborative and confidential technology platform, the Rate Mesh, the neutral rate network for container shipping.

Prior to CargoSphere, Neil held various roles in the international logistics division of the Pepsi Cola Company and has over 20 years of international

CargoSphere was acquired by WiseTech Global in 2017.

supply chain experience.



Stewart has 30 years' experience leading successful development teams in various high-volume European logistics organisations.

Stuart founded a transport management software company, which was acquired by a major European postal operator in 1999.

Using his extensive industry experience, Stewart founded ABM Data Systems in Ireland in 2006, with a vision to create a global customs platform.

ABM Data Systems was acquired by WiseTech Global in 2018.

Mark has nearly forty years' experience in the logistics industry.

Prior to founding Microlistics, Mark worked at transport companies TNT Group and Henderson.

In 1990, Mark established Dawson Consulting International which went on to become Australasia's leading supply chain and logistics consulting practice, and in the same year founded Microlistics to address the gap in the software available for the running of warehouses and distribution centres.

Microlistics was acquired by WiseTech Global in 2018.

Overview



- Founded in 1991, Bysoft is the largest provider of customs brokerage, government compliance and freight forwarding solutions to the logistics industry across Brazil
- Pioneers with 27 years' experience
- Headquartered in São Paulo, Bysoft has a team of 50 industry and technology experts
- Bysoft provides automated software and solutions to about 750 logistics customers, comprising more than 3,000 users
- Customers include DHL, FedEx, UPS, Schenker, Yusen and CH Robinson









Market opportunity



- Brazil is the 5th largest country in the world
- The foreign trade market in Brazil is made up of more than 43,000 importing companies and 25,000 exporters companies¹
- There are about 5,500 freight forwarders and customs brokers in Brazil².
- Bysoft the largest software company for logistics in the country³





Specialists in the Foreign Trade market



Compliance, commitment, respect and partnership with our client



Specializing in providing solutions for service providers

¹ http://www.mdic.gov.br/index.php/balanca-comercial

² <u>https://www.ibge.gov.br/</u>

³ Estimate based on Bysoft and WiseTech Global data, 2018

ABM Data Systems



- Founded 2006 in Dublin, Ireland
- Vision to create a single global customs platform
- Headcount (2017) 22 staff
- Proven technology currently supporting 80+ procedures in 8 countries

Country	Export	Import	Transit	Warehousing	Port systems
	✓ Certified	Certified	✓ Certified	✓ Certified	✓ Certified
BE	✓ Certified	✓ Certified	Certified	Certified	Certified
DE	Certified	Certified	Certified	✓ Certified	Certified
GB GB	Certified	Certified	Certified	Certified	Certified
■ <u>■ IE</u>	✓ Certified	✓ Certified	Certified	Not Applicable	Not Applicable
+ <u>CH</u>	✓ Certified	✓ Certified	Certified	Not Applicable	Not Applicable
AE	Certified	Certified	Not Applicable	Not Applicable	Not Applicable
SE	✓ Certified	Certified	 Certified 	Not Applicable	Not Applicable



ABM Data Systems



- Typical customer any company with customs/compliance requirements in multiple jurisdictions
- Acquired Dec 2017
 - Very positive market and team reactions
 - Working with WiseTech Global since 2012, already integrated







Global reach

In 2018, due to new partnerships and customer expansion around the globe, Microlistics has more global reach than ever before.

Offices / Partners

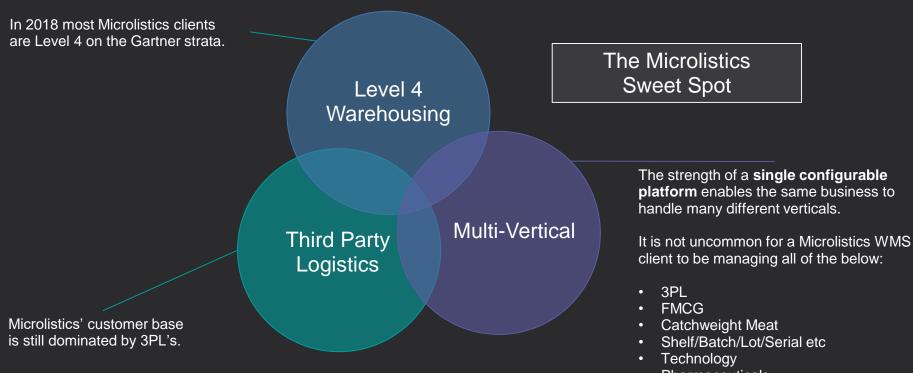
Client Sites

50 Employees



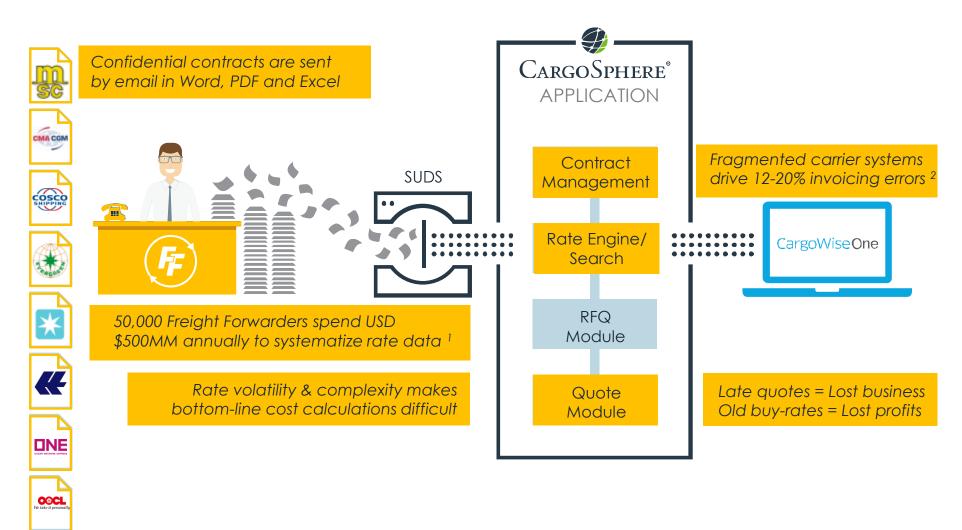
"Our Best Fit Customer"

Any size, any vertical.



• Pharmaceuticals

Ocean Rates: A \$500MM Problem

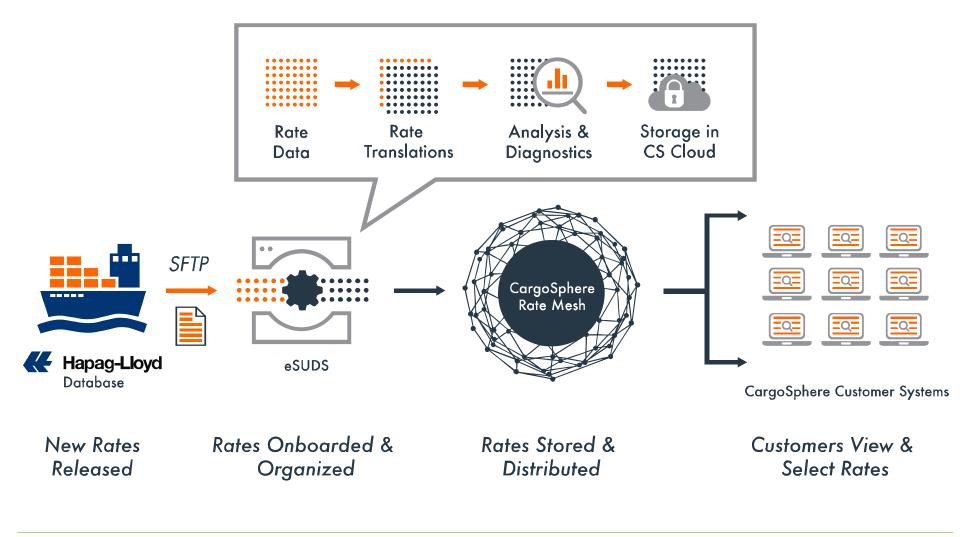


¹ Drewry study available on <u>www.cargosphere.com</u> or click <u>here</u>



²Ocean Audit Inc on Linked-In or click here

Hapag-Lloyd Digital Rate Distribution in CargoSphere Platform





Our Solution: Search In Seconds

