

Investor Day 2019

December 11, 2019, Toronto



Today's Presenters



CORPORATE:



Bob Courteau CEO



Carl Farrell President



Angelo Bartolini CFO



Camilla Bartosiewicz VP IR



Gordon Richardson EVP Finance



Amer Rasul VP, Financial Planning & Analysis

ALTUS ANALYTICS:



Matt Cotter EVP



Richard Kalvoda Sr. EVP, Advisory



Scott Morey Exec. Director, One11



Dhinaker Dhandi VP, Product Management



Erica Tabrizi Team Lead, ARGUS Sales

PROPERTY TAX:



Terry Bishop President, Canada



Alex Probyn President, UK



Mark Bedford SVP, Real Property Tax



Mark Walker EVP Finance & Business Performance

BIOS PROVIDED IN APPENDIX

Agenda



Time		Presentation Session	Speakers						
7:30 am	30 min	Registration (continental breakfast available)							
8:00 am	5 min	Introduction	Camilla Bartosiewicz						
8:05 am	15 min	CEO opening remarks	Robert Courteau						
	Altus Analytics (2 hours, 10 min)								
8:20 am	15 min	CRE tech market fundamentals	Scott Morey						
8:35 am	10 min	AA consolidated view	Carl Farrell						
8:45 am	1 hour	ARGUS operations - Overview (5 min) - Strategy (25 min) - Development (20 min) - Go to market (10 min)	Carl Farrell Carl Farrell Carl Farrell & Dhinaker Dhandi Carl Farrell & Matt Cotter						
9:45 am	15 min	Appraisal Management operations	Richard Kalvoda						
10:00 am	20 min	Altus Analytics audience Q&A	Moderated by Carl Farrell						
10:20 am	10 min	BREAK							
		Property Tax (1	hour, 20 min)						
10:30 am	1 hour	Property Tax operations	Bob Courteau, Terry Bishop, Alex Probyn, Mark Bedford, Mark Walker						
11:30 am	20 min	Property Tax audience Q&A	Moderated by Robert Courteau						
11:50 am	30 min	LUNCH BREAK – presentations continue over lunch starting @ 12:20 pm							
		Corporate Finance	e (1 hour, 10 min)						
12:20 pm	10 min	Corporate finance	Angelo Bartolini						
12:30 pm	10 min	AA financial review	Gordon Richardson						
12:40 pm	10 min	Property Tax financial review	Amer Rasul						
12:50 pm	15 min	Capital allocation	Angelo Bartolini						
1:05 pm	20 min	Corporate finance audience Q&A	Angelo Bartolini, Robert Courteau, Carl Farrell, Gordon Richardson, Amer Rasul, Mark Walker						
1:25 pm	5 min	CEO concluding remarks	Robert Courteau						
1:30 pm		Event concludes							
1:35 pm	20 min	OPTIONAL ARGUS Enterprise capabilities demo	Erica Tabrizi, Dhinaker Dhandi						

WIFI PASSWORD: investorday

Caution Regarding Forward-Looking Statements



This presentation contains certain statements that constitute forward-looking information within the meaning of applicable securities laws ("forward-looking statements"), including without limitations, the statements contained in section entitled "Long Term Financial Potential". Statements concerning Altus Group Limited's ("Altus" or the "Company") objectives, goals, strategies, priorities, intentions, plans, beliefs, expectations and estimates, and the business, operations, financial performance and condition of Altus are forward-looking statements. The words "believe", "expect", "anticipate", "estimate", "intend", "may", "will", "would", "could", "should", "continue", "plan", "goal", "objective", and similar expressions and the negative of such expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

Certain material factors and assumptions were applied in providing these forward-looking statements. Forward-looking information involves numerous assumptions including the following specific assumptions: the ability of Altus to meet its "Revenue", "Recurring Revenue", "Over Time Revenue", and "Adjusted EBITDA Margins" targets, assumptions on Altus Analytics bookings growth, retention rates, growth in its Data Solutions and Appraisal Management businesses, assumptions on the Argus Software revenue model, license sales, subscription renewal rates, cloud conversion (including timing and rate), assumptions on other Altus Analytics contributors, expenses, operating leverage, and foreign exchange. Projections may be impacted by macroeconomic factors, in addition to other factors not controllable by the Company. Altus has also made certain macroeconomic and general industry assumptions in the preparation of such forward-looking statements. Management believes that the expectations reflected in forward-looking statements are based upon reasonable assumptions; however, Management can give no assurance that actual results will be consistent with these forward-looking statements. Not all factors which affect the forward-looking information are known, and actual results may vary from the projected results in a material respect, and may be above or below the forward-looking information presented in a material respect.

Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause Altus' actual results, performance or achievements, or developments in its industry, to differ materially from the anticipated results, performance, achievements or developments expressed or implied by such forward-looking statements. Risks related to forward-looking statements include, among other things, risks relating to cloud adoption and conversion, pricing pressure, risks relating to Altus' Appraisal Management business and demand for implementation services; as well as general market conditions, including economic and exchange rate dynamics. Given these uncertainties, readers are cautioned not to place undue reliance on such forward-looking statements. The Company's most recently filed Annual Information Form and the most recently filed annual MD&A for the year ended December 31, 2018, available on SEDAR at www.sedar.com, also identify additional factors that could affect the operating results and performance of the business. Forward-looking statements are based on management's current plans, estimates, projections, beliefs and opinions, and Altus does not undertake any obligation to update forward-looking statements should assumptions related to these plans, estimates, projections, beliefs and opinions change except as required by applicable securities laws. All of the forward-looking statements made in this presentation are qualified by these cautionary statements and other cautionary statements or factors contained herein, and there can be no assurance that the actual results or developments will be realized or, even if substantially realized, that they will have the expected consequences to, or effects on, Altus.

Non-IFRS Measures



This presentation makes reference to certain non-IFRS financial measures. These non-IFRS financial measures are not recognized measures under IFRS, do not have a standardized meaning prescribed by IFRS and are therefore unlikely to be comparable to similar measures presented by other companies. Rather, these measures are provided as additional information to complement IFRS measures by providing further understanding of operations from Management's perspective. Accordingly, non-IFRS measures should never be considered in isolation nor as a substitute to using net income as a measure of profitability or as an alternative to the IFRS consolidated statements of revenues, net income, cash flows or other IFRS statements. Management presents non-IFRS measures, specifically "Recurring Revenue", "Adjusted EBITDA" and "Adjusted EBITDA Margin" as it believes these supplementary disclosures provide useful additional information related to the operating results of Altus Analytics and uses these measures of financial performance as a supplement to the consolidated statements of income of this business.

See "Non-IFRS measures" in Altus' MD&A for the three and nine month period ended September 30, 2019 for a more complete description of "Adjusted EBITDA Margin", for a reconciliation of Adjusted EBITDA to its most directly comparable IFRS measure and for a discussion of Altus Analytics "Recurring Revenue", including its definition.

All currency throughout this presentation are in Canadian dollars unless otherwise expressly stated.

20119 TTM refers to the trailing twelve month period ended Sept. 30, 2018 (Q4 2018 – Q3 2019).



Connecting the Global CRE Marketplace



Altus Group Enables Clients to:

MAXIMIZE THE VALUE



An integrated platform solution that provides complete data-driven visibility to enhance performance of CRE assets

Independent technologyenabled CRE professional services

Altus at the Center of the CRE Market



Solutions for all CRE participants involved in the value chain of CRE assets



SS	ARGUS Software	Appraisal Management Data Analytics Solutions	Data Solutions	
ΙĔ	Global	US, Europe, Asia Pacific	Canada	
ALTUS ANALYTICS	 Mission critical software tools for CRE portfolio & asset and investment management ARGUS Enterprise (AE) flagship product 	 Valuation management advisory with proprietary data analytics tools for performance benchmarking & attribution analysis 	 Canadian market data subscription products covering residential, office, industrial and investment markets 	
ני)	Property Tax	Valuation Advisory	Cost Advisory	
CONSULTING	Property Tax Canada, US, UK	Valuation Advisory Canada	Cost Advisory Canada / Asia Pacific	

2,500+ employees worldwide

75+ offices in major CRE markets

~5% employee ownership

Leading CRE Offerings with Strong Differentiators



Leading positions in all CRE offerings

OPERATIONAL HIGHLIGHTS:

FINANCIAL HIGHLIGHTS:

ARGUS Software

Global scale, mission-critical software with industry leading retention

Highly predictable revenues with "Rule of 40" business model, supported by long global growth runway

Appraisal Management

US market standard for fund valuation data analytics

Scaling & recurring revenue model, internationally expanding, high margin business

Data Solutions

Leading industry position, "go to" name for Cdn. market data, innovation lab for Altus Group

Stable recurring revenue base with high margin profile

Property Tax

Global scale in key CRE markets, fastest growing market leader

Stable & growing revenues, top tier margin profile, strong cash generation, supported by long growth runway

Valuation & Cost Consulting

Leading industry position, "go to" provider for CRE services

Stable revenue & earnings contributor

Financially Attractive & Economically Insulated Businesses



	ALTUS AN	NALYTICS	CRE CONSULTING &		
	ARGUS Software	Appraisal Management (AM) & Data Solutions (DS)	Property Tax	Valuation & Cost Consulting	
Revenue model	Predominately license based subscriptions	AM: ~5-yr contracts, priced per CRE asset on platform DS: subscriptions	~77% contingency-based fees & time and materials	Predominately fixed fee	
Current revenues (% of total)	\$ 199.2 M TTM 36%		\$198.4 M TTM 36%	\$109.5 M TTM 20%	
5-year revenue CAGR*	17%		15%	3%	
Current Adjusted EBITDA (% of total)*	\$ 41.3 M TTM 37%		\$ 53.2 M TTM 48%	\$ 12.3 M TTM 11%	
5-year Adjusted EBITDA margin avg.	24.6%		24.0%	11.8%	
Recent acquisitions (>\$10m in spend)	Voyanta (\$12m, 2014), EstateMaster (\$20m, 2017), Taliance (\$30m, 2018), One11 (\$14m, 2019)	RealNet (\$20m, 2014)	SC&H (\$43m, 2014) & CVS (\$50m, 2017)		
Primary geographies	North America, Continental Europe, APAC	AM: US, Europe, APAC DS: Canada	UK, US, Canada	Canada	
Industry leadership	✓	✓	✓	✓	

Simplifying & Becoming More Focused



Disciplined investment focus to:

MAXIMIZE SHAREHOLDER VALUE





PROPERTY TAX

- Ongoing evolution from legacy "diversified CRE services" to "CRE software, data analytics & advisory" with higher recurring revenues
- Overweighting investment & innovation focus on Altus Analytics to leverage our global operating model and growth runway
- Taking advantage of our strategic position with Property Tax to further enhance value

Altus Analytics Strong Foundation in Place



Growth Indicator	2015	2019 TTM	Trends & Future Direction	
Revenue (C\$M)	\$126 M	\$199 M	50%+ growth in last 3 years, primarily organic Target 90% over time recurring revenues by 2021	
Over Time (Recurring) Revenues ¹	\$91 M	\$138 M		
Adjusted EBITDA	\$30.3 M	\$41.3 M	+36% in 4 years, 24% 3-yr Adjusted EBITDA margin avg., including two investment phases in 2015 & 2018	
# of AE Customers	~600	4,000+	+600% in 4 years, established AE as the global standard in key CRE markets	
AE Maintenance Retention ²	96%	97%	World class retention, consistently strong, especially in larger enterprise accounts	
Revenues Outside N.A.	18%	21%	Increasing revenues internationally consistent with market expansion strategy and supported by AE globalization upgrades & investments (international revenues doubled in 3 years)	

- 1. Over Time Revenues = subscription revenues recognized on an overtime basis under IFRS 15, maintenance revenue, data subscription revenue and appraisal management revenue
- 2. AE Maintenance renewal rate, a non-GAAP measure = the percentage of the available renewal opportunity in a fiscal period that renews, calculated on a dollar basis, excluding any growth in user count or product expansion.

Altus Analytics Well Positioned for Sustained Growth





Indsutry leader – "industry standard" solutions, mission critical ARGUS software



Global reach – global operating scale & penetration, global blue-chip client base



Attractive business model – target 90% over time revenues by end of 2021, superior client retention, economically stable



Attractive growth & profitability profile – large addressable market opportunity, high organic growth potential, robust and growing end market

Created strong moats around the business:

Trusted by World's Largest CRE Firms

Prevailing Industry Standards Multi-Country Global Capability

Full CRE Asset Management Platform

Data in the Cloud

Property Tax Strong Foundation in Place



Growth Indicator	2015	2019 TTM	Trends & Future Direction
Revenue (C\$M)	\$134 M	\$198 M	Steady annual revenue growth - acquisition potential to accelerate revenue growth
Adjusted EBITDA (C\$M)	\$28 M	\$53 M	Steady earnings growth
Average 4-year Adj. EBITDA margins	23.0% (2012-2015)	24.8% (2016-2019 TTM)	Top tier margin performance, superior margins to peers in CRE services
Revenues Outside Canada	55%	67%	Steady geographic expansion, highest growth potential in US, followed by UK
% of Contingency Revenues	~65%	~77%	Continuing to build high contingency revenue base (highest margin opportunity)
UK Market Share*	Low	Leading, >20%	Fastest growing, market share dominant
US Market Share*	Low	Fastest growing**	Strong organic growth, acquisition potential
CDN Market Share*	High	High, ~60%	Solidifying position and modernizing platform

Best Talents in the Industry

Global Blue Chip Client Base

Comprehensive Database on Key Markets

Global Reach, National Scale, Regional Expertise

Exceptional Track Record of Best Client Outcomes

Property Tax Well Positioned for Sustained Growth





Strong competitive advantages – people, clients, data, scale, results = share



Solid track record of execution – operational, organic & acquisitive growth, geographic expansion



Attractive financial profile – stable & growing revenues, top tier margin profile, strong cash generation



Long growth runway – major accounts, industry, volume



Digital transformation underway – to drive profitable growth & opens up new revenue opportunities



Market share leader & fastest growing Property Tax company

Industry Leadership

Industry leader for core CRE practice areas; Altus Analytics solutions are mission critical and have market standard distinction; Property Tax is the market share leader & fastest growing

Global Market Opportunity

Long growth runway ahead for current offerings & new future vertical opportunities; well positioned to capitalize on increasing need for CRE tech adoption and expert advisory, with solid market fundamentals

Sustainable Competitive Advantage

Limited competition and wide moats; Altus Analytics has very strong barriers to entry due to industry standard products, scale and global customer adoption; Property Tax has differentiated market offering and pricing power

Financial Strength

Strong balance sheet and cash generation with stable and recurring revenues from global blue chip client base, with long-standing and sustainable dividend policy in place

Strong Track Record of Execution

Steady revenue growth since IPO (17% CAGR, 2005-2018) & successful ongoing business transition to a technology company driven by financially-invested management team and workforce (approx. 5% employee ownership)

The Altus Group Advantage

Privileged position at the center of the global CRE market



Altus Analytics

Global Scale, Indsutry Leader, Mission Critical Solutions

High Growth & Attractive Profitability Profile, Long Global Growth Runway







Market Opportunity in CRE Tech

Scott Morey, Executive Director, One11 Advisors

(acquired by Altus Group in July, 2019)

Presentation outline:

- Real estate investment trends
- Its impact on operating models
- Demands on technology solutions

Significant market opportunity in CRE tech

The market is demanding global technology partners that can improve the value of their underlying assets at the portfolio, fund or asset level



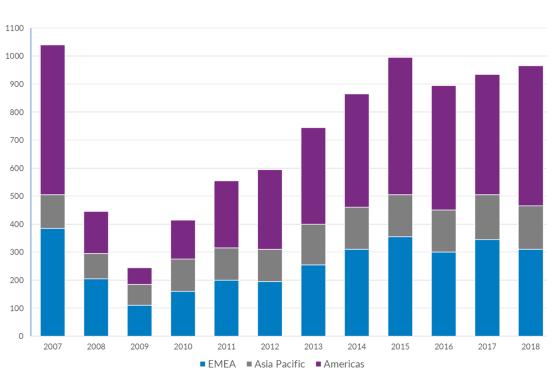


CRE Investment Continues to Grow





Global Acquisition Capital Flows (\$ bn)



Source: Real Capital Analytics

Global Property Investment Volumes by Region



Source: Cushman & Wakefield, RCA: Deals over US\$5 million, including land

Growth in Cross Market Investment



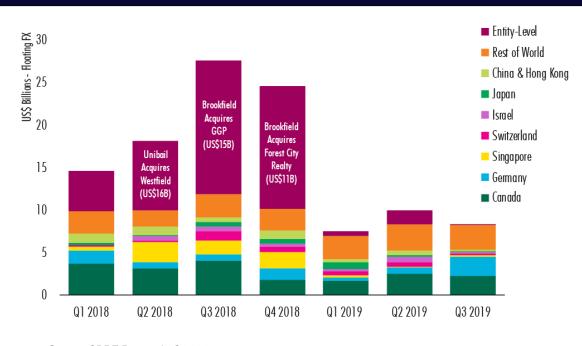


Global Cross Border Capital Investment in 2018

\$23.4bn \$10.4bn \$2.8bn \$1.5bn So.2bn \$0.2bn \$0.5bn LATIN AMERICA \$3.9bn \$7.8bn

Source: Savills Research using RCA (2018)

U.S. Cross-Border Inbound Investment by Origin



Source: CBRE Research, Q3 2019

Focus on Optimizing Asset Mix







Kimco Realty's Pentagon Centre Signature SeriesTM **Mixed-Use Project** Recognized as 2019 PACE Excellence Award Winner by the Property Management Association



In 2017 JLL surveyed 90 super regional and regional malls that are undergoing or have completed a significant renovation since 2014. These landlords have spent **more than \$8 billion in renovations**. While most of the renovation dollars are going toward food and beverage additions, entertainment and tenant upgrades, 30% of malls surveyed are **adding non-retail uses** with apartments being the most popular option at 40.7%, followed by hotels (33.3%) and office (25.9%). Malls are also adding call centers, schools, distribution centers, medical facilities, children's play areas, parks and/or community areas.

2017 National Community and Transportation Preference Survey

...uncovered 62 percent of Millennials, 45 percent of Gen Xers and Baby Boomers, and 55 percent of the new Silent Generation prefer shorter commutes and want to live in walkable communities.





2019 CONSTRUCTION ECONOMIC FORECAST – NONRESIDENTIAL – (DEC. 2018) - Of the \$1.328 trillion spent on construction in 2017, **80% was spent on some version of mixed-use.**





Drive Unit Level Profitability

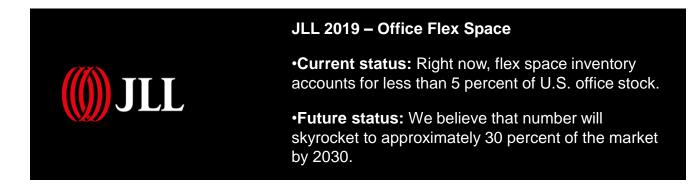




Optimizing revenues:

- ✓ Retail Pop Up Stores
- ✓ Office "Flex Space"
- ✓ Housing Long to Short Term
- ✓ Industrial Prologis Investment in Flex

News headlines reflect reality:





Short-Term Rentals are the Next Niche in Multifamily

July 2019



How Temporary Pop-Ups Became a Permanent Strategy

November 2019

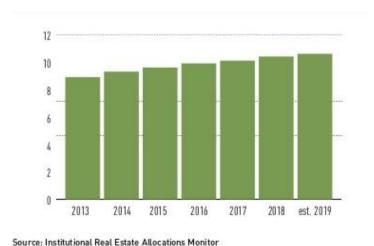
Increase in Institutional Allocations





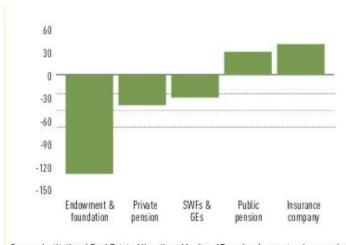
Real estate allocation continues to rise...

Weighted average target allocation to real estate All institutions



...but not for all investors

Change in target allocation, by type of institution – Repeat participants*



Source: Institutional Real Estate Allocations Monitor; *Based on 'same store' comparison for institutions that participated in the allocations monitor survey in both 2017 and 2018



While the U.S. remains the largest listed real estate market, the market is increasingly becoming more global. Today, **39 countries** and regions around the world, **including all of the G7 nations**, have a **REIT regime in place**. Most recently, Portugal passed its REIT legislation in January, adding it to the growing list of countries that have adopted the U.S. approach.

All Operating Models Impacted





- Increased complexity in understanding performance of fund/ portfolio/ investment
- Increase in 3rd party managers/operators
- More complicated property staffing models (i.e., front, middle and back office)
- Greater demand for transparency in historical and future performance

Complexities in Data Management





Findings from 2019 Altus Group CRE Innovation Report (survey of 400 global executives):





Technology Solutions Trends





- Being global is more important than ever
- Ability to aggregate multiple sources of financial and operating data is critical
- The broader market on its own has difficulty navigating PropTech space
- A "Partner First Mentality" is influencing buy decisions
- Market expects direct "economic" insights from its solution providers



Presentation outline:

- Altus Analytics segment overview
- ARGUS Software
 - Product overview
 - Growth strategy & opportunities
 - Development focus
 - Operational readiness
- Appraisal Management operations
- Q&A

Global Scale, Industry Leader, Mission Critical Solutions

High Growth & Attractive Profitability Profile, Long Global Growth Runway

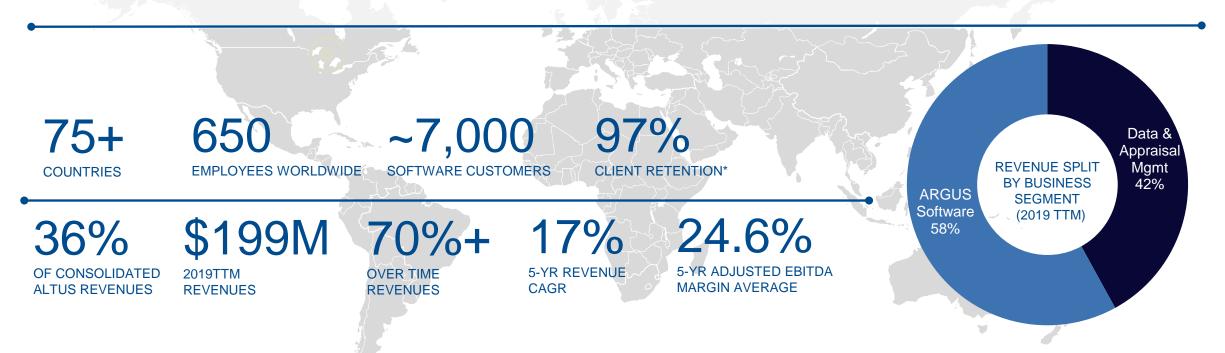


Altus Analytics at a Glance



The leader in software and data solutions for CRE investment and asset management to enable clients to maximize the value of their CRE assets

- · ARGUS Software solutions are amongst the most recognized in the industry globally, include mission critical software
- Appraisal Management solutions comprise data & analytics functionality for performance reviews
- Data subscription products for Canadian residential, office, industrial and investment markets
- Serving CRE portfolio owners, managers and investors, CRE funds, and related industry participants (service providers, brokers, developers, etc.)





Multiple Products for Sustained Growth



Instruments to enhance performance of commercial real estate investments

ARGUS CLOUD	ARGUS Enterprise®	ARGUS Taliance	ARGUS Voyanta	▲ ARGUS Developer ▲ ARGUS EstateMaster	ARGUS acquire	ARGUS API
Powers AE 12, new apps. & integrates all ARGUS offerings	For Asset Management Valuation industry standard	For Fund Forecasting	For CRE Data Collection & Validation	For Development Projects	For CRE Acquisitions	For Software Integration
✓ Store✓ Access✓ Integrate✓ AE Model Benchmarking	 ✓ Asset & portfolio performance ✓ Value ✓ Budget ✓ Transact ✓ Operate 	 ✓ Fund performance ✓ Model & optimize investments ✓ Improve performance 	✓ CRE data management✓ Reporting	✓ Plan Projects✓ Raise Capital✓ Manage Developments	✓ Acquisitions pipeline✓ Track deals✓ Assess risk	 ✓ Application programming interface to connect ARGUS solutions with other customer applications & data
<500 Customers	4,000+ Customers	<100 Customers	<100 Customers	2,000+ Customers	<100 Customers	Launching soon!

GLOBAL ASSET AND INVESTMENT MANAGEMENT PLATFROM







ARGUS ENTERPRISE VALUATION AS THE COMMON CURRENCY FOR CRE TRANSACTIONS







~7,000

Software Customers (tens of thousands of users)

146/200

Relationships with Top Investment Managers*

10/10

Relationships with Largest Service Providers

Growth Strategy

Carl Farrell
President, Altus Group



Multiple Avenues for Sustained Growth





"ARGUS Everywhere" Go To Market Plan



Increasing wallet share & crossing borders with multiple capabilities

Cross-Sell / Up-Sell

ARGUS as a multidepartment standard from acquisitions to finance, broadened use across organization

Sustained trend in clients deploying more seats and adding more functionality

4,000+ ARGUS Enterprise client calling card

Market Expansion

Focus on **Germany**, **France** and **Asia** in 2019,
creating local value
through local functionality
(network effect led by
biggest CRE firms)

Cloud Transition

Driving value through enhanced functionality via cloud applications that enhance workflow, data aggregation & partner data flow

Integrated Platform

Focus on global, multiproduct enterprise contracts for end-to-end client needs

Global Deployment

Focus on **Top 200 customers** to deploy

ARGUS Enterprise

everywhere globally



A. Cross-Sell / Up-Sell



Cross-Sell / Up-Sell

ARGUS as a multidepartment standard from acquisitions to finance, broadened use across organization

Sustained trend in clients deploying more seats and adding modules

4,000+ ARGUS Enterprise client calling card



- Significant wallet share opportunity with ~7,000 current Altus Analytics customer base
- Limited penetration (by product, function and geography) provides significant up-sell/cross-sell opportunity
 - Historically, mainly adding more users of existing product within original purchasing division
- Approx. 70% of software sales today coming from add-on transactions from existing clients
- Continued opportunity for net new customer additions for all product types in ALL markets
- Cloud facilitates more SMB transactions in current markets

~85%

Repurchase Rate in Top 200 Existing SW Customers

~200%

Repurchase
Uplift in Top 200
Existing Software
Customers

B. Market Expansion



Market Expansion

Focus on **Germany**, **France** and **Asia** in 2019,

creating local value

through local functionality

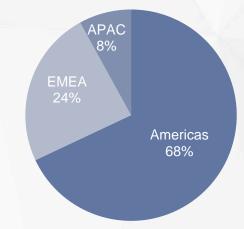
(network effect led by

biggest CRE firms)

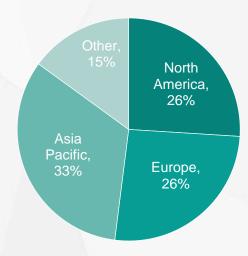


- Geographic expansion opportunity, ~70% of software customers are still in the Americas
- Strategic investments in key international markets completed: UK, APAC, Germany, France
- Significant inroads in international markets (ARGUS reach in 75+ countries for over 20 yrs.)
- 100% growth in revenues outside of Americas in past 3 yrs
- Sales channel/named accounts focus
- We are still <20% penetrated* globally continued opportunity for net new customer additions for all product types in ALL markets
- Cloud facilitates more SMB transactions in current markets

Current Geographic Software Revenue Split:



Geographic Spread of Identified 30K Target Firms:



C. Cloud Transition



Cloud Transition

Driving value through enhanced functionality via cloud applications that enhance workflow, data aggregation & partner data flow



- Transitioning clients to cloud subscriptions creates more value for customers & while facilitating improved economic and operating benefits for Altus
- Supports and enables higher wallet shares expansion, new customers growth and geographic expansion
- Key revenue growth accelerator:
 - Higher value cloud sales (~20% premium to legacy on premise sale price)
 - Monetizing "maintenance" to "cloud subscription" conversion (~40% price uplift)
 - Overall higher lifetime economic contract value (scaling effect)
 - New revenue opportunities from new cloud application
- Strategy in progress to drive cloud broader adoption in 2020, with a target to migrate majority of AE users to the cloud by 2023



Successfully Executing on Cloud Transition



Enables higher economic value & operating efficiencies for Altus Group while creating value for customers

Delivered Cloud Platform

- Launched ARGUS Cloud (Nov. 2018) & first cloud app (ARGUS Acquire)
- Commenced internal transition to cloud strategy

Full Shift to Subscriptions

- As of January all AE sales will be on subscription terms (new customers can only buy cloud, existing customers can buy cloud or on-premise versions of AE)
- Product development shifted to cloud; no more onpremise enhancements

Acceleration of AE Migration to Cloud

 Ongoing upgrades of existing AE users to cloud



Initiated Cloud Transition

- Launched AE 12 on the cloud (July 2019)
- H2 all <u>new customer</u> AE sales are cloud subscriptions (existing customers can still buy on on-premise software on perpetual terms)

Target to hit 90% Over Time Revenue Model by YE

 Targeting to transition Altus Analytics to 90% over time revenue model by end of 2021 by migrating customers to cloud subscriptions

Majority of AE Users Expected to be on the Cloud

- Target to migrate majority of AE users to the cloud by 2023
- Set 5-year goal to reach \$400M in Altus Analytics revenues by 2023

D. Integrated Platform



Integrated Platform

Focus on global, multiproduct enterprise contracts for end-to-end client needs



- Untapped potential for integrated multi-product, enterprise deals from Top 200 clients
- Significant up-sell/ new sales opportunity from enterprise deals for global multi-product sales – especially from Top 200 customers
- Currently less than 5 (of top 200) customers have purchased multi products – selling a full integrated platform solution represents a tremendous upsell opportunity

Customers by product type:

Product	Customers
ARGUS Enterprise®	4,000+
ARGUS Developer	1,000+
ARGUS EstateMaster	1,000+
ARGUS Taliance	<100
ARGUS Voyanta	<100
ARGUS CLOUD	<500
ARGUS acquire	<100
🛦 ARGUS API	New

E. Global Deployment



Global Deployment

Focus on **Top 200 customers** to deploy
ARGUS Enterprise
everywhere globally

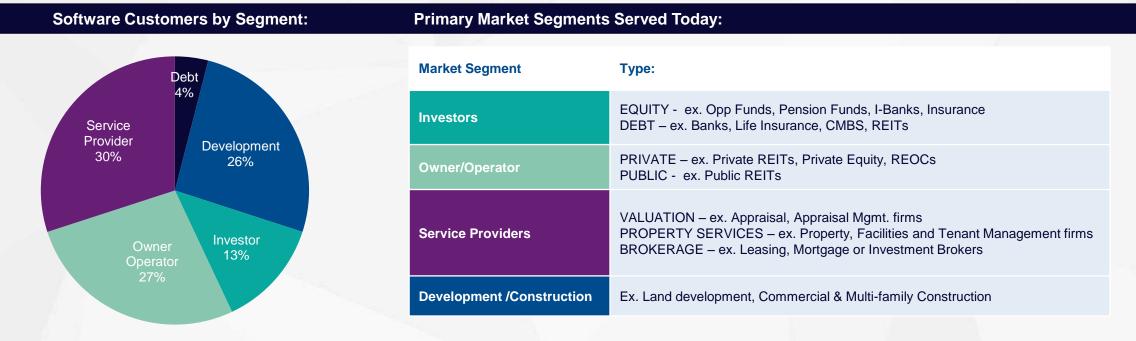


- Cloud simplifies the customer environment
 - Multi software instance to a single platform with global data integration
 - Allows customer to drive internal software standards and data consistency
 - Provides internal data transparency, benchmarks and comparisons
- Significant opportunity from enterprise deals for global deployment of AE
 - Top 200 customers
 - New global customers
 - Expansion of agreements with service providers
 - Additional products and users "ARGUS everywhere"
- Expected contract sizes >\$0.5 M annual contract value
- Faster sales cycles
- Currently less than 5 (of top 200) customers have fully deployed AE globally

Opportunity: Adjacent Market Verticals



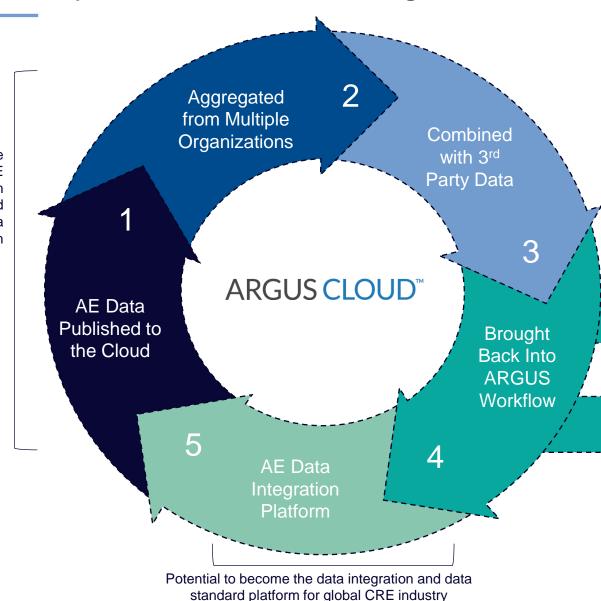
- Limited penetration in adjacent market verticals with wide TAM i.e. Debt markets
- Product strategy on complimentary workflow opportunities
- "Buy" or "build"



Opportunity: Data Driven Insights



Utilizes the cleanest CRE industry data in automated environment on a single platform



- "Give to get" data model
- Brings high value data that can be reported, benchmarked, aggregated and used to drive high value analytics for customers:

functionality on cloud platform

New, value-add data

New data products for sale via ARGUS Cloud apps

- Enhances client value & retention
- Enhances client value
- New revenue stream
- Expands use of ARGUS across organizations

Software Development

Carl Farrell
President, Altus Group

Dhinaker DhandiVP, Product Development,
Altus Analytics



Our Development Path Forward



Built & protected strong moats around the business:

Trusted by World's Largest CRE Firms

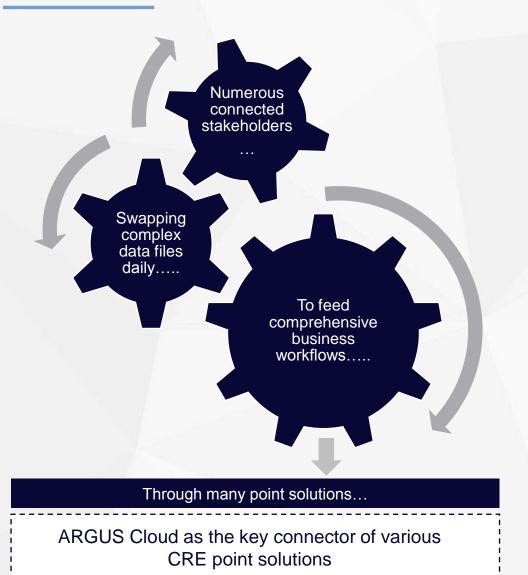
Prevailing Industry Standards Multi-Country Global Capability Full CRE Asset Management Platform

Data in the Cloud

- Product design and application development will reflect the key workflows in the CRE industry
- Framework for partnering for CRE industry and integrating solutions and launching APIs
- Harmonizing on a cloud only development environment
- Diverse global modern team
- Global availability and enterprise scale

What We Are Solving For





CUSTOMER PAIN POINTS:

- Chaotic workflows
- Tremendous cost to maintain data quality
- Impeded transparency

Customers increasingly looking for consolidation across software platforms & data collaboration across workflows

Shifting development focus & product design to "workflows" to drive feature function

All Roads Lead to ARGUS



Scattered landscape with wide range of local & global solutions, focused on single specialties

Key CRE workflow categories we will lead – via partnerships or by replacing single workflow solutions:



Customers increasingly looking for consolidation across software platforms & data collaboration across workflows

- Everything starts and ends with an ARGUS valuation file, the CRE valuation standard
- Strategy to connect key workflows on a single, collaborative data platform

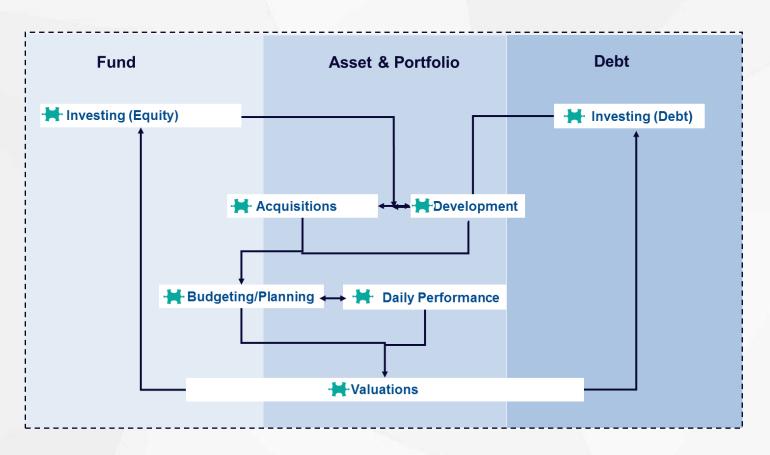
ARGUS CLOUD™

- Expands use of ARGUS across organizations and keeps users on ARGUS
- Foundational platform for global asset and investment management

Expanding Workflows to Drive Network Effect



Interconnected workflows at the core of product development:



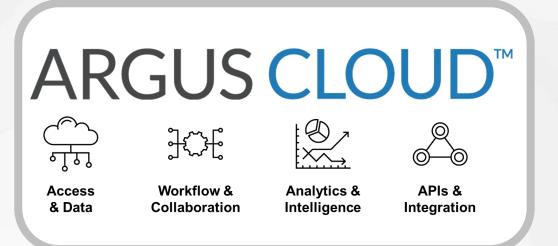
- Uniting people and data through workflows to drive higher wallet share
- Product strategy shifting from individual product functionality to collective workflow functionality
- Connected functionality along the workflow drives higher customer value & broader/deeper user experience
- Enables speed, agility, lower costs, better information sharing

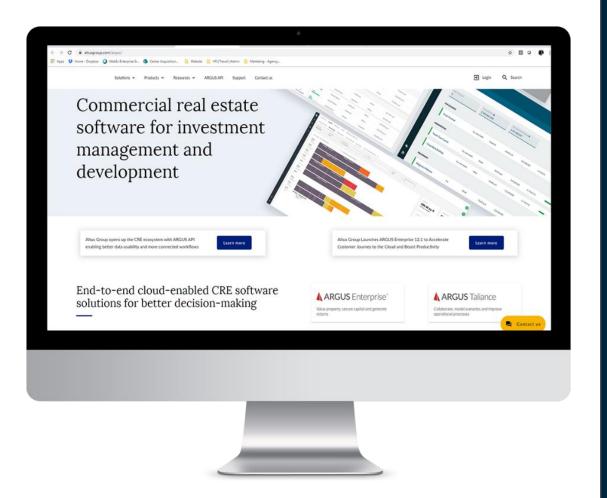
Unique "Pull" Approach to Cloud



Customer-Friendly Transition to Cloud

- Unique approach eliminates the biggest barriers to cloud adoption:
 - Time (re-implementation of solutions) & re-work on customizations, not cost
- Provides customers with infrastructure and functional benefits
- ARGUS Cloud is an enhancement of AE, not a replacement (connected AE to cloud vs. re-write of software)
 - AE on-premise transition to ARGUS Cloud preserves customer implementations and data
 - Prioritize added value over replacements
 - Open up to core CRE systems and partners





ARGUS Enterprise® powered by CLOUD

SEAMLESS MIGRATION DEMO

Erica Tabrizi Team Lead, ARGUS Sales

Long-Term ARGUS Enterprise Functionality Transition



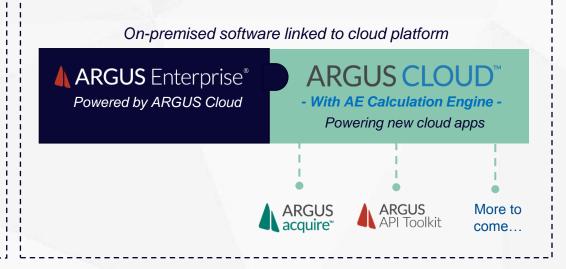
- Transition to cloud enables evolution of AE functionality
- Over time, will transition certain AE functions to enhanced stand-alone apps by workflow function
- Separating proprietary AE calculation engine from applications
- Shift to "menu based" buying (opens up SMB opportunities, supports network effect, broadens use of ARGUS across clients' firms)

ORIGINAL STATE: TODAY: FUTURE STATE:



On premise solution with various functions sold via modules:

- Valuations & Cash Flow Analysis
- Reporting
- Scenario & Risk Analysis
- Budgeting & Strategic Planning
- Investment & Fund Management



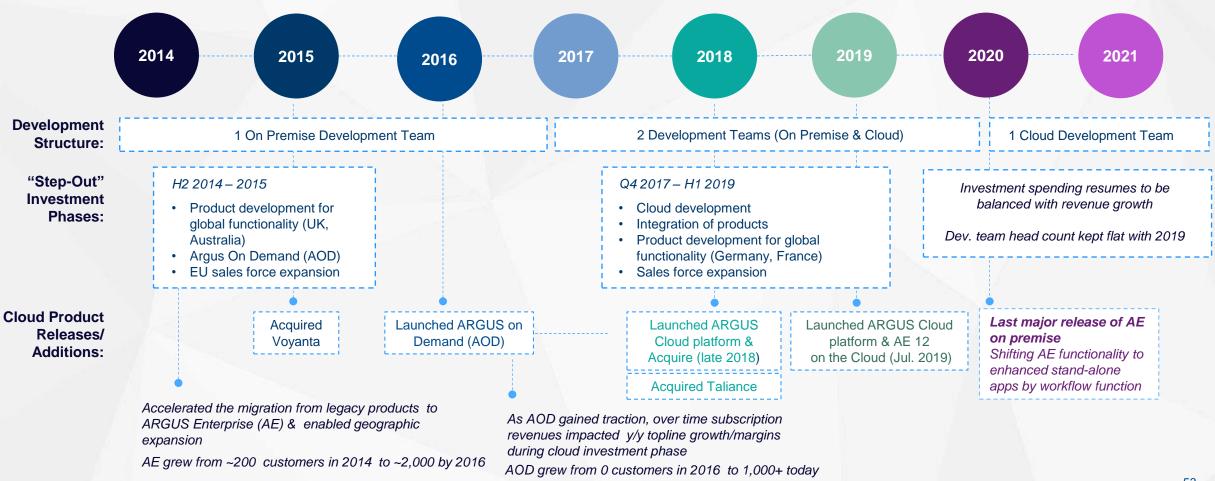
ARGUS Enterprise functions gradually replaced by native function ARGUS apps accessible on ARGUS Cloud platform, addressing for unique workflows

ARGUS CLOUD™

Transformation Investments are Behind Us



- Previous "step-out" investment phases established foundation to drive global expansion & transition to cloud
- Solid track record of consistent annual "Rule of 40" performance from 2013 2017 (51% 5-yr avg.) pre Cloud investment phase
- "Building" phase behind us, we are now in "execution" mode



Go to Market Model

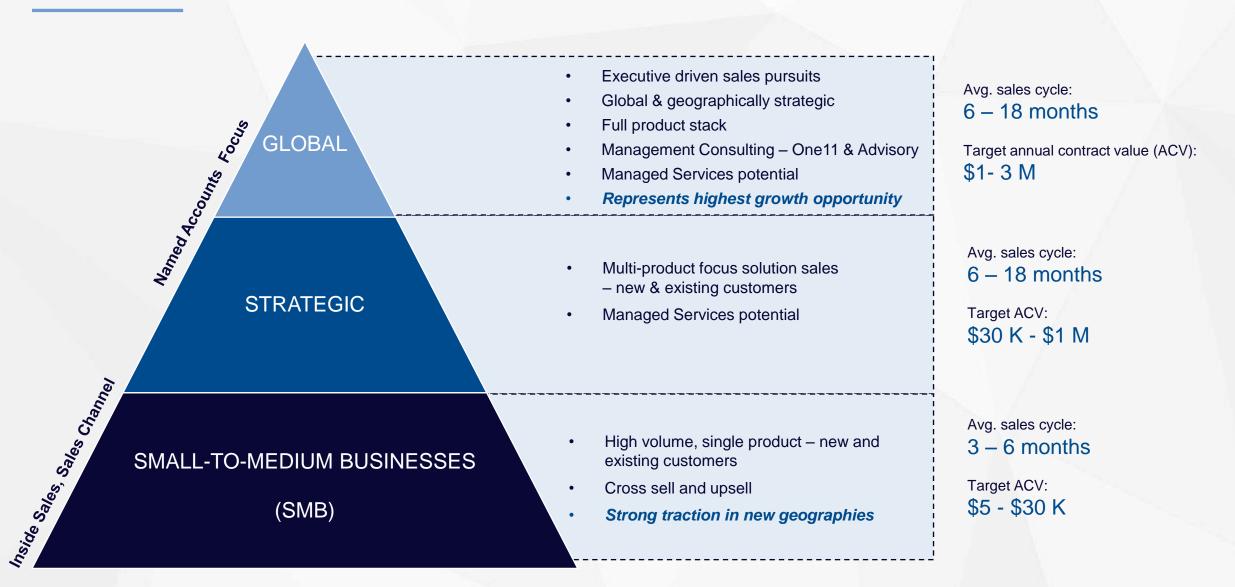
Carl Farrell
President, Altus Group

Matt Cotter
Executive Vice President



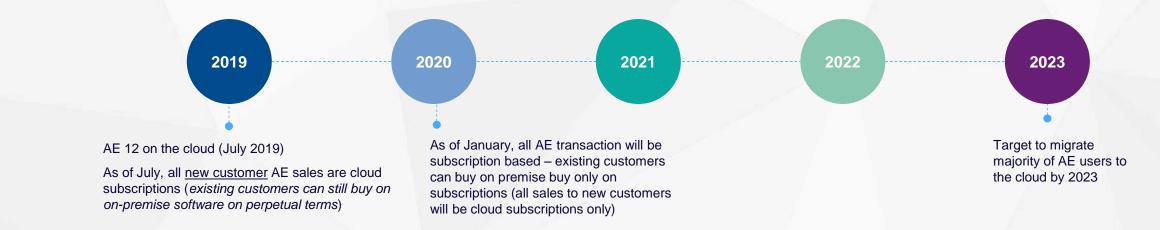
Evolved to a Focused Sales Model





Cloud Subscription 6-Month Progress





- Rapid pick up of new customers buying AE on ARGUS Cloud no issues to date with AE only available on Cloud platform
 - New sales in all geographies (North America, South America, UK, Europe, Asia, Australia) primarily in SMB space
 - Currently the majority of AE sales, but

Migration volume picking up

- Customers not waiting for their maintenance renewal date, majority of migrations done mid contract
- Mainly smaller customers, with simple deployments (per expectations)
- Ongoing discussions with every large customer (approximately 40% of the AE sales pipeline is migration related)
- Segmented marketing programs to begin early 2020

Executing the Strategy











- Significant, global market opportunity in CRE teach
- Significant growth opportunity with existing & new customers (in current & new markets)
- Increasing cloud maturity (on our 3rd release of cloud platform)
- Internal cloud experience (i.e. Argus on Demand & other cloud products)
- Market is accepting/ demanding cloud
- Product plan in place (supports platform solution, enterprise selling)
- Migration tools in place

- Team is in place
 (development & sales model)

 best combination of
 tech/CRE in the industry
- New cloud practices (continuous product certification & sales training)
- Subscription selling compensation model previously in place
- Migration to cloud strategy in progress
- Sales force evolution from "point solutions/transaction" sales to enterprise selling

- Operational KPIs in place subscription sales forecasting, new internal metrics to measure progress, changes in the way we look at sales operations and forecasting
- New external operational metrics planned for 2020 reporting

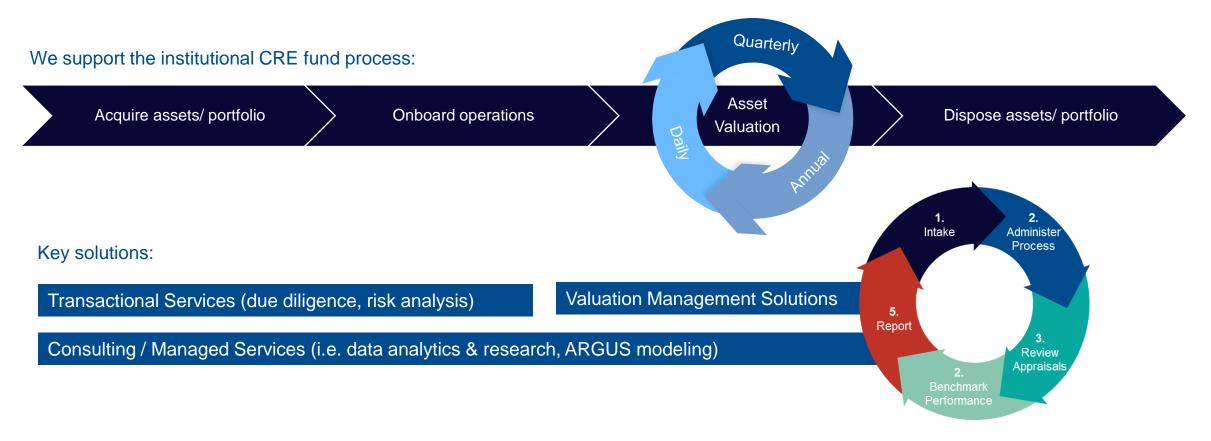


Best-in-Class Appraisal Mgmt. & Data Analytics Solutions



Technology-enabled managed service delivery to enable clients get better intelligence to make data-driven decisions and achieve superior results

- An end-to-end valuation management solution for institutional CRE funds
- Driven by highly-skilled practitioners, innovative data analytics and proven process governance



Strong Business Moats & Differentiation



120+
INSTITUTIONAL CLIENTS

22 / 24 ODCE FUNDS SOURCE FOR NCREIF INDEX 165+ FUNDS 8 FUNDS >\$10B AUM 40+ DEBT FUNDS





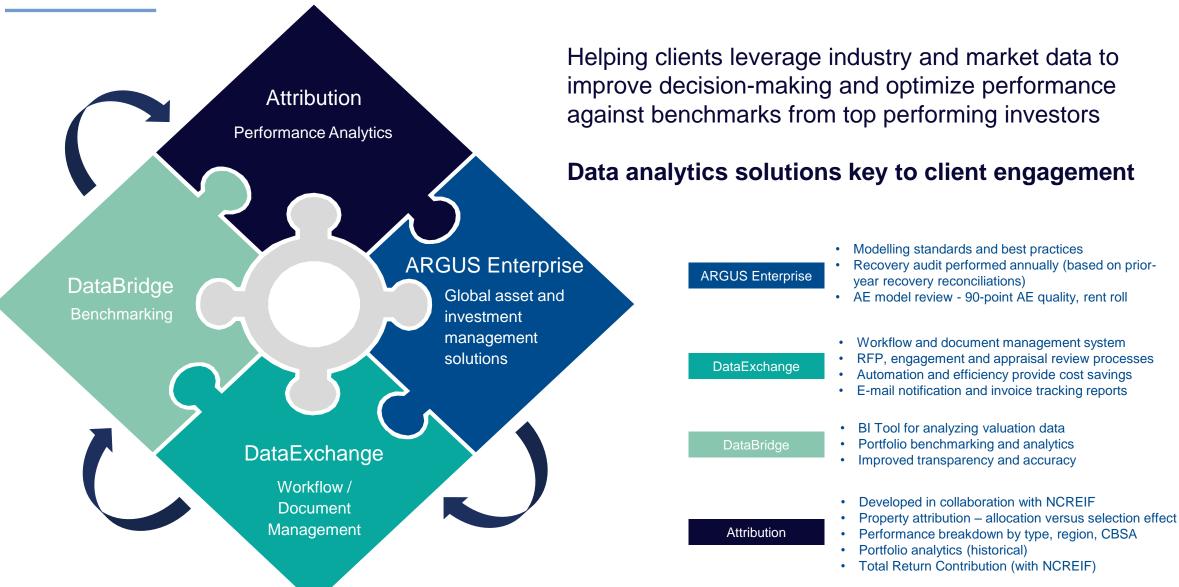
- 20+ year client relationships high client loyalty & retention
- Market standard for US fund valuation largest provider of fund valuation services
- Proprietary analytics tools robust benchmarking & attribution analysis for CRE funds & assets
- Breadth of data unique in industry, covers 400+ individual valuation parameters per asset
- Expertise & independence accredited professionals with local market expertise & global insight (200+ CRE licensed & accredited professionals with dedicated market and subject matter experts, >20 yrs. avg. experience for top 25% of staff)
- Scaling revenue model 3-5 year contracts; pricing primarily based on # of CRE assets on our platform, adjusted for frequency of valuations & complexity

Sample clients include*:

- ✓ Blackstone
- ✓ Brookfield
- ✓ CalSTRS
- ✓ Clarion Partners
- ✓ Deutsche Bank
- ✓ Goldman Sachs
- ✓ Invesco
- ✓ Oaktree Capital
- ✓ Morgan Stanley
- ✓ Principal Financial
- ✓ Starwood Capital
- ✓ TIAA
- ✓ UBS

Technology & Data Analytics Driven





CRE FUND INVESTMENT PERFORMANCE DATA

- ✓ Historical Performance Benchmarks
- ✓ Forecasted Value of Funds (compared to market)
- ✓ Data Analytics Tool for Attribution Analysis

Altus Group Client Dashboard

PRODUCT DEMO



Growth Priorities



- Natural convergence of Appraisal Management with ARGUS Top 200 clients increasingly sold as part of ARGUS integrated solutions (DataBridge on ARGUS Cloud furthers network effect)
- Large addressable market supported by continued strength in CRE asset class
- Creating a NEW market for our solutions

New Customer Growth

New client and new client "type" opportunity – growing open-end and closed-end funds, and higher penetration with pension funds, debt funds, REITS, etc.

Closed and open-end private funds remain the preferred investment products for institutions



Existing Customer Expansion

Customers growing their portfolios - adding more assets on our platform, or

Increasing frequency of valuations (i.e. quarterly, daily)

Geographic Expansion

Driven by international expansion of our existing customers & attracting new customers – Europe & APAC

Well positioned for regulatory changes (AIFMD)

3

Solid Execution on Growth Agenda



Steady Revenue Growth (\$USD) Solid Customer Growth Growth in # of Assets 5-Yr Revenue 75% 75% 5-Yr Asset Growth 5-Yr Customer Growth 2015 2016 2017 2018 2019

TTM

2015

2016

2017

2018

2019

TTM

Altus Analytics Operations

Q&A

Please hold your financial questions until after the financial review session







Global Property Tax

Global Footprint, National Coverage, Regional Expertise

Steady Revenue Growth, Top Tier Margin Profile, Long Growth Runway



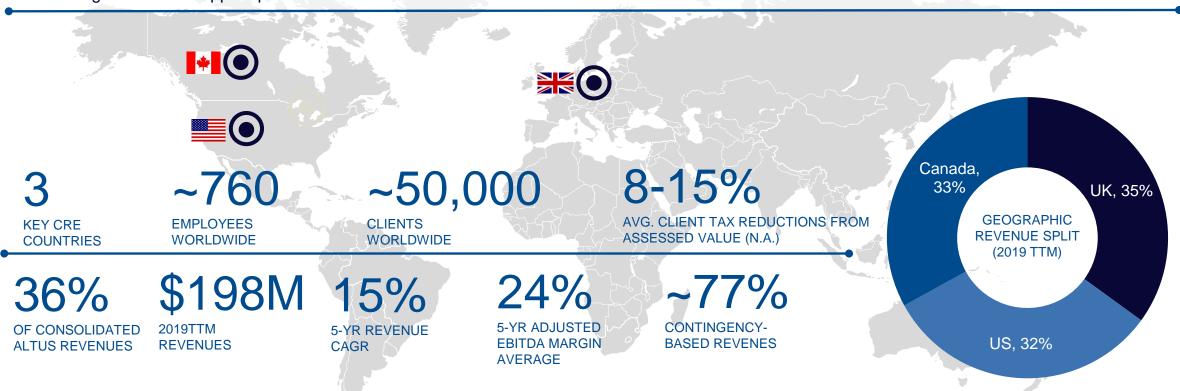


Global Property Tax Business at a Glance



The leader in solving complex property tax appeals for clients and developing solutions to increase value for their CRE assets

- Property tax is typically the largest cost in CRE property ownership after debt-service
- Realty tax regimes vary significantly between jurisdictions requiring regional and asset specific expertise
- Given the magnitude and complexity of this expense, property managers and owners are increasingly seeking outsourced professional expertise to manage this cost & appeal process



Our Competitive Advantages



PEOPLE



Best talent in the industry

Access to Altus talent key value proposition for clients

~760 Property Tax professionals worldwide

Unmatched industry, market and asset specific knowledge

CLIENTS



Global bluechip client base

Relationships with 8K+ clients across N.A. and 42K+ in the UK

Strong client loyalty & retention between cycles

Relationships with largest CRE companies

DATA



Comprehensive database on key markets

Altus proprietary data key factor in successful client outcomes

Digital transformation agenda to drive techenabled service delivery and a highly-efficient operating model

SCALE



Global reach, national scale, regional expertise

Leadership in key markets

One of largest national property tax providers in each market in which we operate

Global operating model for most attractive property tax CRE markets – US, Canada, UK

RESULTS



Exceptional track record of best client outcomes

Strong track record of success rates on appeals

Material client savings achieved on complex appeals

8-15% avg. client tax reductions from assessed value (N.A.)

Tax Appeal Framework (Simplified)



Helping clients reduce their property tax burdens (one of the highest operating costs in CRE)

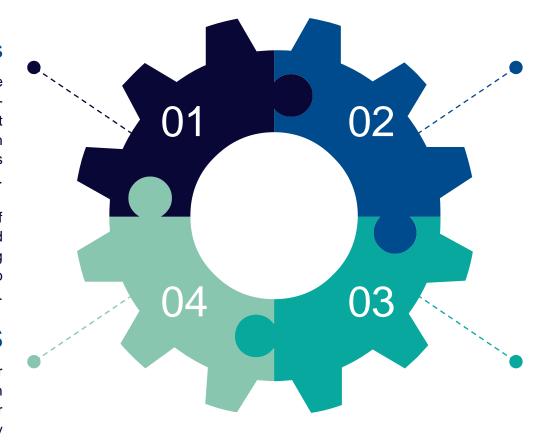
Client Engages Altus

We have relationships with 8K+ active customers across NA, and on avg. 42K+ in the UK per cycle. We enjoy significant client retention in between cycles, with some of our largest client relationships pre-dating our IPO.

Given the magnitude and complexity of this expense, property managers and owners are increasingly seeking outsourced professional expertise to manage this cost & appeal process.

We Save Clients \$

Our financial interests are aligned with our clients. We recognize revenues only when a settlement is made. A high portion of our revenues are derived on a contingency basis based on client savings.



We Assess Client Portfolio

We leverage our industry leading expertise and data to analyze & asses which properties in our clients' portfolios warrant appeals per cycle (identifying gaps between "taxed" value and "market" value)

We offer a broad variety of property tax appeal and administration services to help our clients strategically manage this expense.

We Appeal Certain Properties

We selectively pursue appeals to reduce our clients' property tax burdens, and in some cases proceed to full hearings. We have a strong track record of successful client results. On average we save clients 8-15% per appeal on standard cases with factual errors, and achieve more material savings on complex cases.

Global Reach in Key CRE Countries



Three distinctly complex markets in one global entity:



Canada

- Each province has separate assessment cycle (vary from 1-4 years)
- Property tax is assessed at provincial and municipal level
- Target customers are landlords and single occupants (typically large CRE portfolio holders)
- Altus market share estimated at ~60% (largest national provider)



US

- Independent state (50) and county (+15K) assessment cycles
- Property tax is assessed at the county or city levels
- Target customers are landlords, owners and tenants
- Altus holds strong market position in its key markets, one of top 5 largest players nationally (highly fragmented market)



- One national cycle currently a 4-year assessment cycle for property values, subject to change for 2021 List
- Centralized assessments by the Valuation Office Agency (VOA)
- Target customers are occupiers
- Altus market share estimated >20%

Positive trends on property taxes: (Includes recurrent and non-recurrent taxes on the use, ownership or transfer of property)

3.4% CAGR from 2008 - 2017

3.1% CAGR from 2008 - 2017

4.2% CAGR from 2008 - 2017

Highly Specialized Services in Key CRE Markets



Property tax assessment & appeal files represent ~80% of global Property Tax revenues



Canada National coverage	US In select States & industries	UK National coverage	
Property Tax assessment reviews & appeals	Property Tax assessment reviews & appeals	 Property Tax assessment reviews & appeals (aka Business Rates) 	
 Tax Consulting and Due Diligence Tax Management and Budgeting In-House Tax Professionals Tax Payment Processing 	 Personal Property Compliance Property Tax Administration State and Local Tax Incentives Industry strengths (Retail, Healthcare) 	 Empty rates – avoidance/deferral Rate payment management Ancillary services – Commercial Agency, Valuation service, Lease advisory 	

Stable & Economically Insulated Revenues



Leading industry position

Best people & expertise on our team_

Best data to drive results for clients

Best systems to drive efficiency

Key revenue drivers:	Comments:
✓ Market value assessment volatility	Any change in assessed values provides opportunities for appeals
✓ Market share gains	Based on both volume and value of appeal cases
✓ Acquisitions	Fastest way to get into new markets, recruit and win new clients
✓ Customer retention	Strong client loyalty & retention between cycles provides for recurring revenues
✓ Consultant productivity	Improving with recent technology initiatives while improving margins
✓ Data driven productivity	Our comprehensive data is a key factor in successful client outcomes & helps us identify most lucrative business development opportunities
✓ Gov't driven inefficiencies	Altus benefits from better data, processes & focused expertise in appealing gov't assessed values
✓ Contingency pricing	Represents ~77% of total global Property Tax revenues; leverages fixed cost operating base

Biggest threats:

- Competitive pressures pricing & talent
- Legislative changes could contribute to short-term volatility, timing of revenues and margin pressure

Threat mitigation strategies proactively in place

Continuously Improving Economic Model & Strategy



Volume & value of appeals

Success rates (driven by people & Altus data) Value of contingency contracts (higher margin, leverages fixed cost base)

Operational productivity (revenue per consultant)

Visibility via technology & systems
(drives revenue repeatability & smart correlations)

Predictability,
Revenue Growth
and Margin
Expansion

Model supported by organic growth initiatives & financially accretive acquisitions



- ✓ Tech-enabled efficiency
- ✓ Data driven insights
- ✓ Modern service delivery
- ✓ Data-enabled business development

Global Strategy



Leveraging our national strengths across all geographies

- 1. INDUSTRY efficiently leverage specialty in target asset classes
- 2. MAJOR ACCOUNTS penetrate largest CRE owners/tenants (higher value, lower volume)
- 3. VOLUME lead mid-market (lower value, higher volume/ operating leverage) aided by technology

	INDUSTRY	MAJOR ACCOUNTS	VOLUME
UK	✓ OPPORTUNITY	✓ EMERGING	✓ MARKET LEADER
US	✓ MARKET LEADER	✓ EMERGING	✓ OPPORTUNITY
CAN 🐈	✓ MARKET LEADER	✓ MARKET LEADER	✓ OPPORTUNITY
 Primarily focused 	rtise in hospitality, retail & healthcare I on large CRE portfolio holders & owner opera key tax-favourable States/markets	National leader serving the lators CRE portfolio holders & owner operators	



MAJOR ACCOUNTS CASE STUDY

Toronto Bank Towers Appeal

CLIENTS:



Brookfield









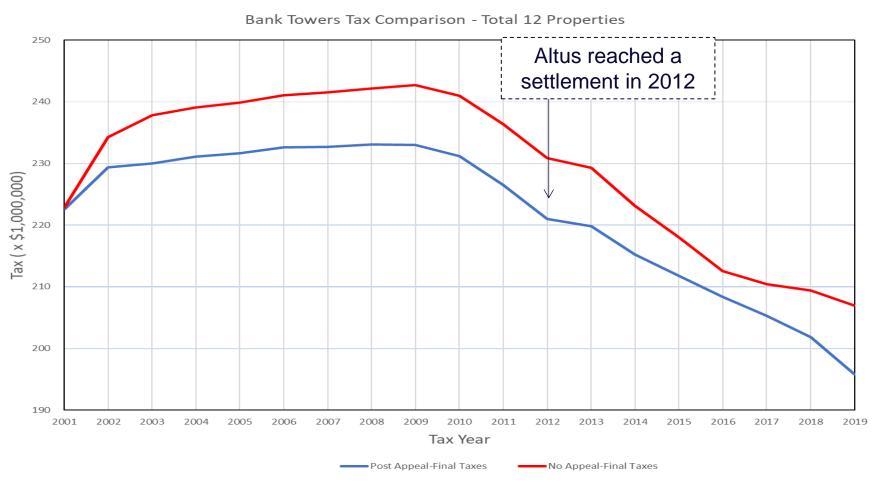


- Tax Capping caused tax increases
- No sign of relief
- Assessment appeals filed 2001-2002



Toronto Bank Tower Appeals Case Study





THE RESULTS:

\$146M of savings realized

12% annual reduction from 2001 to 2019



MID-MARKET VOLUME CASE STUDY

London Hotels Appeal

CLIENTS:

2/3 star Hotels in London

- Mid-market volume
- Data profiling and lead generation
- Sales led multiple success
- Integrated processes Surveyor/Data Lead Gen/Sales/Gateway Client Services



London Hotel Appeals Case Study



Successful Outcomes for Clients & Altus:

- Files Settled to date = 52
- Total 4 year client savings (2017 to 2021) = £5.33 million
- Average 4 year client savings per settled case = £102.4k (typical average saving = £18k)
- Files outstanding to settle = 12 with estimated 4 year client savings of c. £1.0 million
- Original client engagements = 26
- Additional Sales Instructions = 38

FOR DISCUSSION

- ☐ Legislative changes risk or opportunity
- ☐ Competitive landscape
- Digital transformation opportunity

Executive Panel

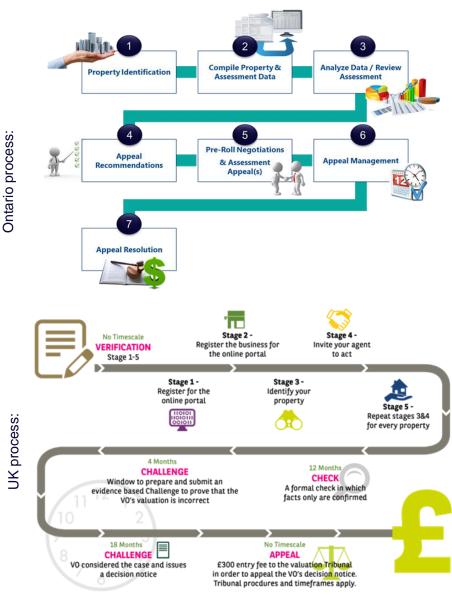
- Robert Courteau, CEO (Moderator)
- Terry Bishop, President, Canada Property Tax
- Mark Bedford, SVP, Real Property Tax, US
- Alex Probyn, President, UK Property Tax
- Amer Rasul, VP, Financial Planning & Analysis
- Mark Walker, EVP, Finance & Business Performance, UK Property Tax



Some background on process changes...



- Appeal framework intact, rather tweaks to process of how we appeal in UK & Ontario, and change in pre-roll assessment appeals in BC for 2020
- Caused high volume of settlement delays in Ontario & UK in H1 2019 & subsequent rebound
- Impact of Ontario & UK process changes is behind us, BC change defers revenue further out
- Motivations by gov't varied, ultimately aspired to achieve more order & structure in dealing with high volumes of appeals
- Summary:
 - Ontario introduced a new series of procedural dates/meetings before appeals could move to "hearing" stage, impacting timing of when cases could be settled (previously, settlements would typically occur closer to hearing dates). Typically, less than 5% of appeals proceed to full hearings.
 - UK introduced a new "check/challenge/appeal" process, and a requirement for rate payer to register online through a Gateway government portal. (Previously, there was a higher volume of speculative appeals; impacted lower volume of appeals, but for Altus offset by higher success rates now that only credible appeals are filed)
 - BC change in pre-roll assessments poses operational challenges (i.e. Q1 delay of revenue, compression on appeal timeline)



FOR DISCUSSION

- ☐ Legislative changes risk or opportunity
- ☐ Competitive landscape
- Digital transformation opportunity

Executive Panel

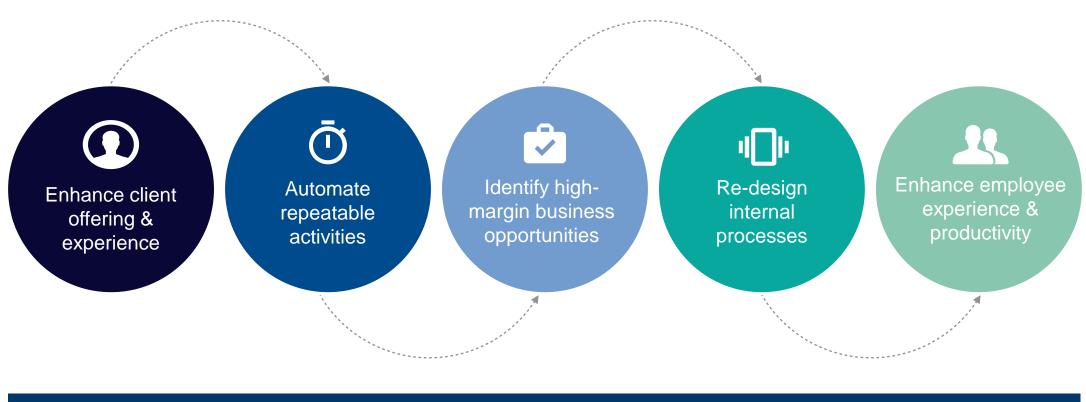
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Digital Transformation Priorities



Organize & leverage internal data, and implement technology to:



Platform for Insight and Data

Strong Track Record of Execution



	Growth priority:	2014 Results		2019TTM Results	Comments
~	✓ Revenue growth	\$98.3 M	→	\$198.4 M	15% CAGR, strong growth runway
.11	✓ Profitable growth	21.7% Adjusted EBITDA margin	→	26.8% Adjusted EBTIDA margin	5.1% increase, excellent operating platform
	✓ US & UK market share expansion	44% of revenues came from US & UK	→	67% of revenues coming from US & UK	Multiple revenue sources
	✓ Digital transformation	Limited common data visibility	→	All data in one place, moving on modern platforms	Innovation underway, accelerating in priority for 2020

Property Tax Operations

Q&A

Please hold your financial questions until the after the financial review session



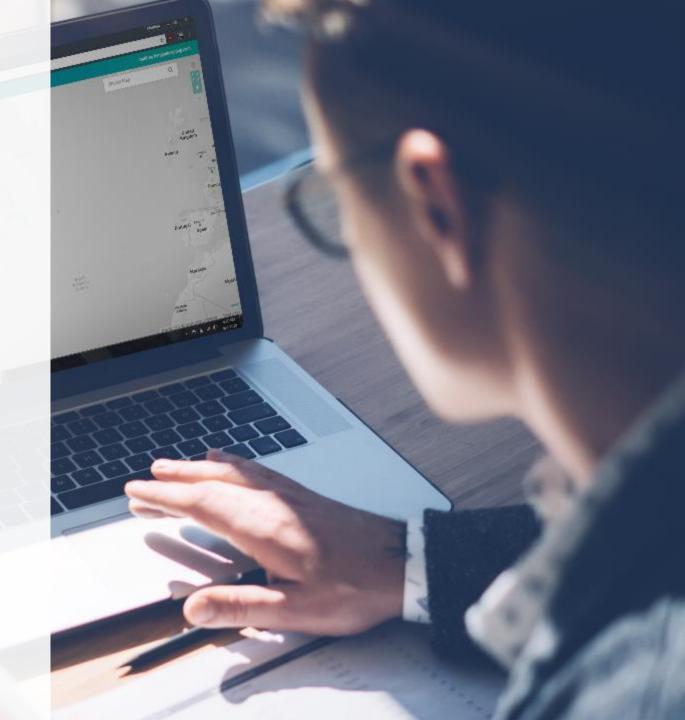
30 Min. Lunch Break

Presentations to resume over lunch starting at approx. 12:20 PM



Corporate Finance

Solid financial position with stable and recurring revenues from global blue chip client base





Presentation outline:

- Consolidated financial performance overview
- Altus Analytics financial review
- Property Tax financial review
- Capital allocation
- Q&A



Altus Grou

Attractive Financial Profile





Growing CRE market



Stable revenue base across economic cycles



High degree of predictable and over time revenue streams



Strong financial position



Proven track record of profitable growth & sound capital allocation

Solid Financial Track Record





Made organic investments In technology & global expansion

Pursued strategic acquisitions

Strengthened balance sheet

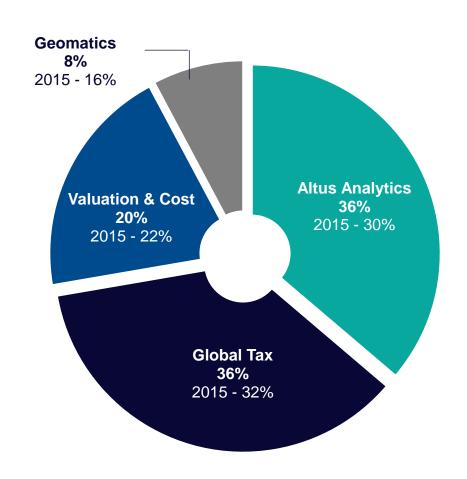
Transitioning to over time revenues

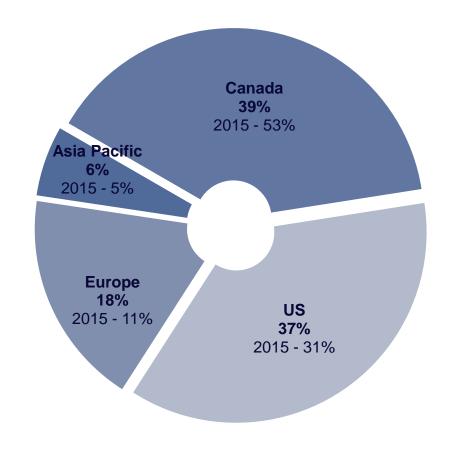
Growing Focus on Altus Analytics & Property Tax



Revenue Split by Segment (2019 TTM)

Revenue Split by Geography (2019 TTM)





Stable Revenue Base Across Economic Cycles



- High degree of revenue stability protected from CRE market cyclicality
- Growing base of over time revenues in Altus Analytics, and strong client & project retention in CRE Consulting businesses
- Geographically diversified
- Growing importance of CRE as an asset class
- Limited revenue impact in a CRE market downturn:

Business Segment	% of Consolidated Revenues*	Revenue Risk	Comments:
Altus Analytics	~40%	LOW	 Over time revenues (70+%, moving to 90%) expected to remain intact, supported by long-standing 95+% retention trends & mission critical software Altus Analytics solutions are strategic & mission-critical for clients, increase transparency for risk analysis Potential risks: pricing pressure, slow down in new license sales, slowed customer portfolio expansion at Appraisal Management
Property Tax	~40%	LOW	 Property tax savings are always an important element regardless of market conditions Market value volatility creates ongoing opportunities Potential risks: pricing pressure
Cost & Valuation Advisory	~20%	LOW-MEDIUM	 Cost construction projects have a long tenure (3-5 yrs on avg.) Significant portion of Valuation revenue consist of periodic valuations of CRE portfolios Potential risks: transactional projects



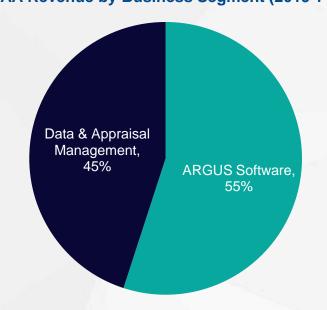
Financial Snapshot



Solid Financial Performance Over Last 5 Years While Making Significant Investment In Cloud and Transitioning To Over Time Revenues

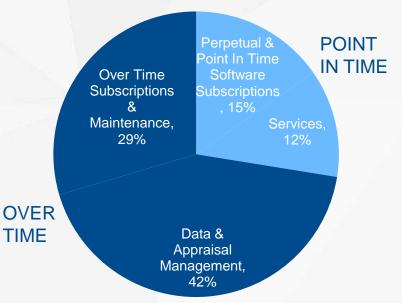
100%+ revenue growth over last 5 years

AA Revenue by Business Segment (2019 YTD)



2019 TTM: ~\$200M 2023 Goal: \$400M ~50% adj. EBITDA growth over last 5 years

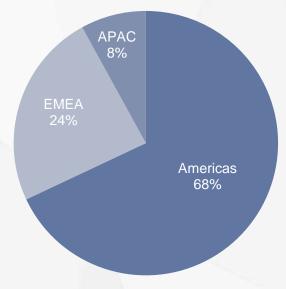
AA Revenue Type (2019 YTD)



2019 YTD: 70%+ Over Time 2023 Goal: 90% Over Time

Resilient 97% maintenance renewal rate for ARGUS Enterprise

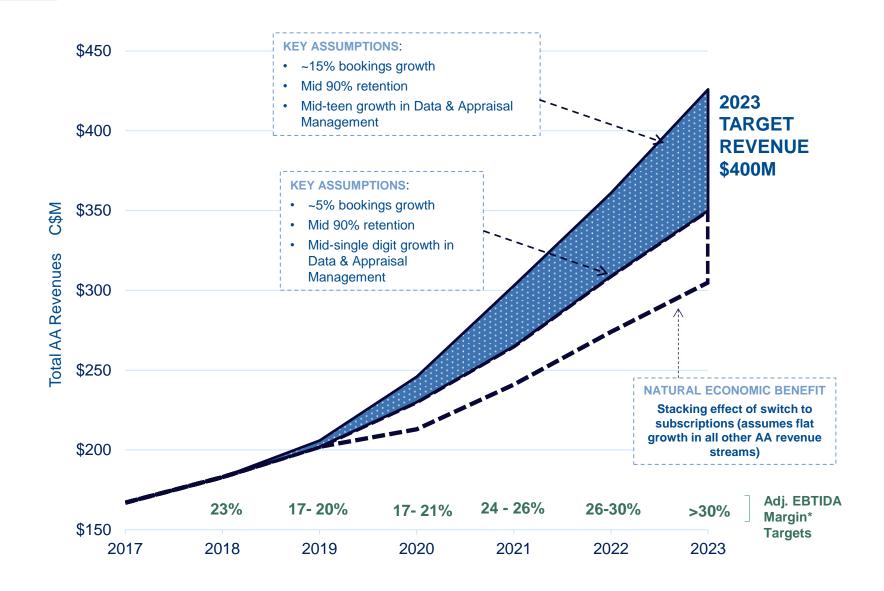
Software Revenue by Geography (2019 YTD)



~100% growth in EMEA & APAC revenues in 3 Yrs.

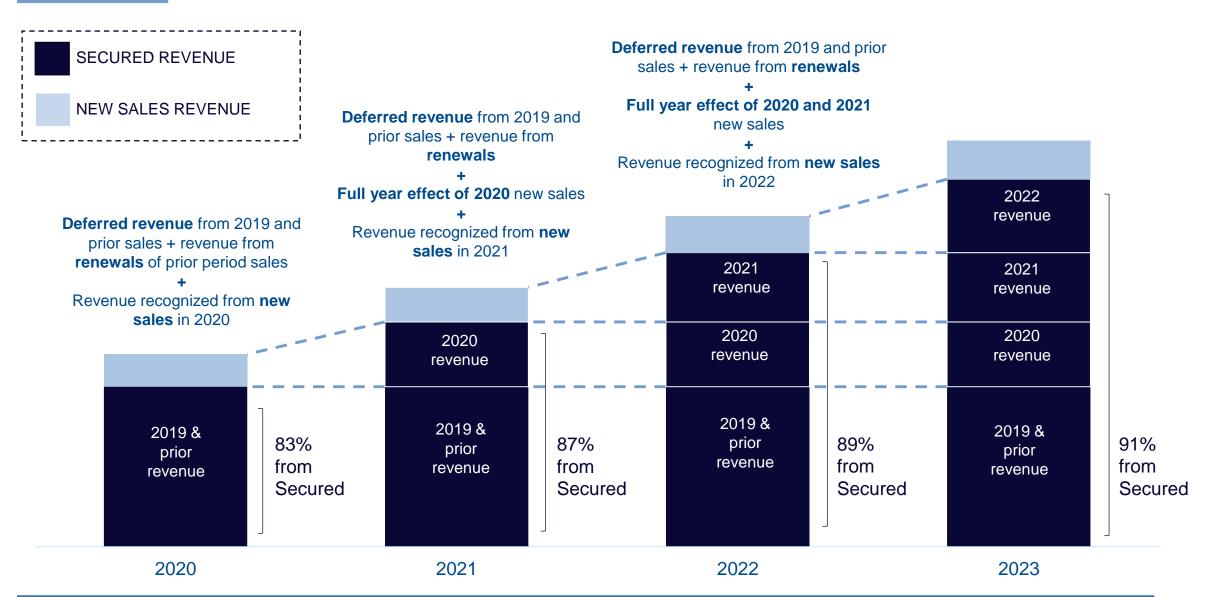
Long Term Financial Potential





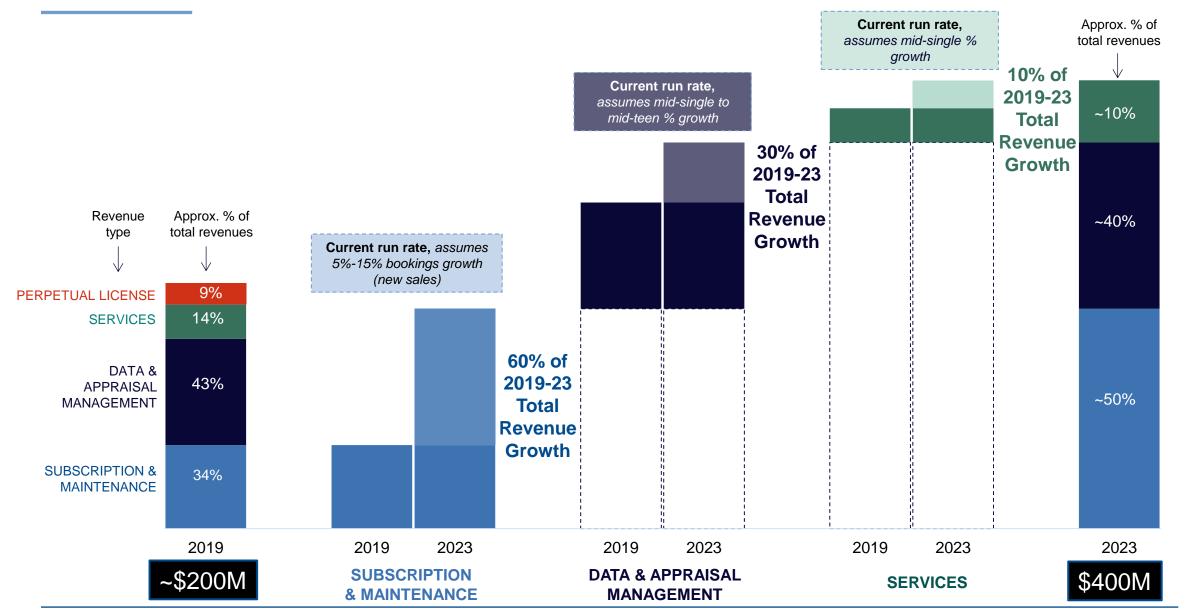
Growing Subscription and Maintenance Revenue Base





Revenue Bridge to \$400M 2023 Goal





Key Assumptions for 2023 \$400M Goal



Growth Driver	Comments	Contribution to Revenue Growth	
DATA & APPRAISAL MANAGEMENT			
Appraisal Management Existing Customer Expansion	Growth in existing customer assets, new funds, expanded scope	000/	
Appraisal Management Geographic Expansion	Growth in EMEA and Asia Pacific	30% of 2019 to 2023	
Data Solutions	Expended range of offerings on new technology platform	Revenue Growth	
ARGUS SOFTWARE			
Sustained Add-on Sales	 Continued sales into existing customers for additional capacity, solution upgrades and additional functionality 		
Enterprise Deals	 Multi-solution transactions within Top 200 customer base. Significant license annual contract value (ACV) plus initial services engagement followed by ongoing managed services 	60% of 2019 to 2023	
International Expansion	 Continued growth in EMEA and Asia Pacific, initially focused on Continental Europe and Asia 	Revenue Growth	
Cloud Adoption	Conversion of existing on premise AE base to Cloud platform		
REVENUE CAGR (2019 – 2023)		15 - 20% 4-yr CAGR	
 REVENUE CAGR (2019 – 2023) Other Assumptions: Current FX environment Mid 90% retention rates for recurring software con 	Not factored in/upside to model: New revenue streams from significant new application Acquisitions Material price increases		

High volume of multi-product enterprise deals

Adjusted EBITDA Margin Expansion



Targeting 30+% Adjusted EBITDA margins by 2023

Margin expansion supported by revenue growth, controlled expense management and leverage of past development investments

Adjusted EBITDA margin targets:

2019	2020	2021	2022	2023
17-20%	17-21%	24-26%	26-30%	>30%

Transformation investments are behind us

- Historic "step out" investments established foundation to drive global expansion & transition to cloud
- Product, go-to-market resources and delivery capability all in place & in current run rate

Now in Execution mode

- Existing development investment to shift to supporting one technology platform
- Majority of growth in new sales driven by increasing productivity rather than increasing sales resources
 - Expanding lead generation activity to drive higher quality opportunities, and increasing technical and enterprise level selling skills
- Recent investments in technology and automation to aid in more efficient delivery of appraisal and data management services and solutions
- Some investment needed to drive expansion in new markets and support Cloud platform
- Expect expenses to grow in 10-15% YoY range, below revenue growth in all years, driving Adjusted EBITDA margins to 30+% in 2023

Altus Analytics - Improving Visibility



New Metrics Planned	
Over Time Revenues	 Subscription revenues recognized on an overtime basis under IFRS 15, maintenance revenues, data subscription and appraisal management revenues
	 Excludes perpetual license sales, software services, due diligence from appraisal management, and any upfront right of use subscription
Cloud Adoption	% of total AE user base contracted on ARGUS Cloud
ARGUS Enterprise Software Retention Rates	% of subscription and maintenance revenue retained upon renewal
Geographic Revenues	Total revenue by major region – Americas, EMEA and APAC

Target to roll out new metrics for Q1 2020 financial report



Steady Revenue Growth

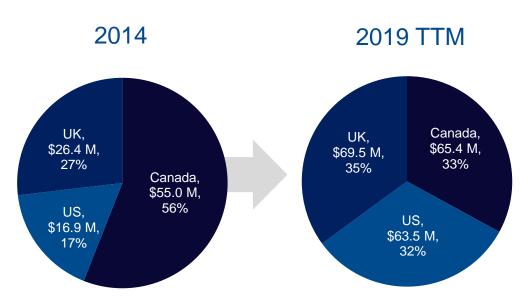


Steady & Profitable Revenue Growth

15% 5-yr Revenue CAGR

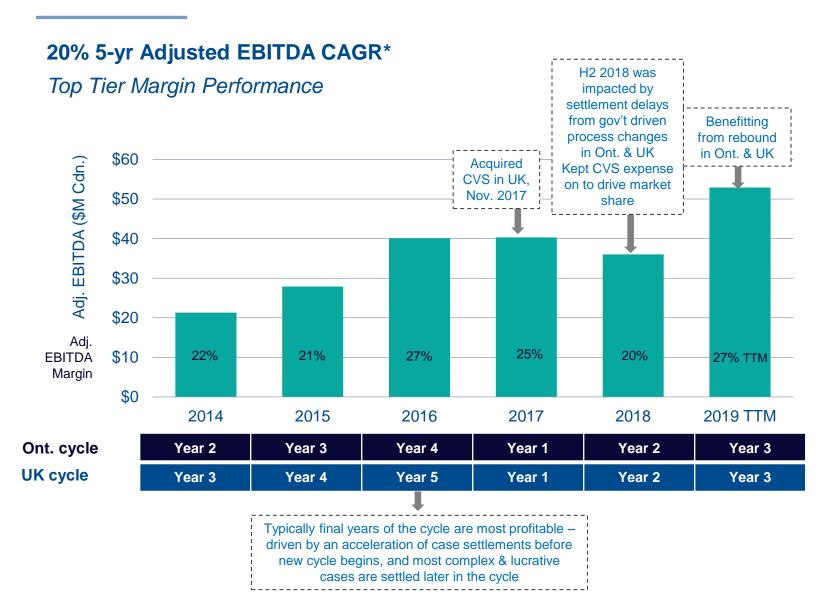


Steady Geographic Expansion



Profitable Growth

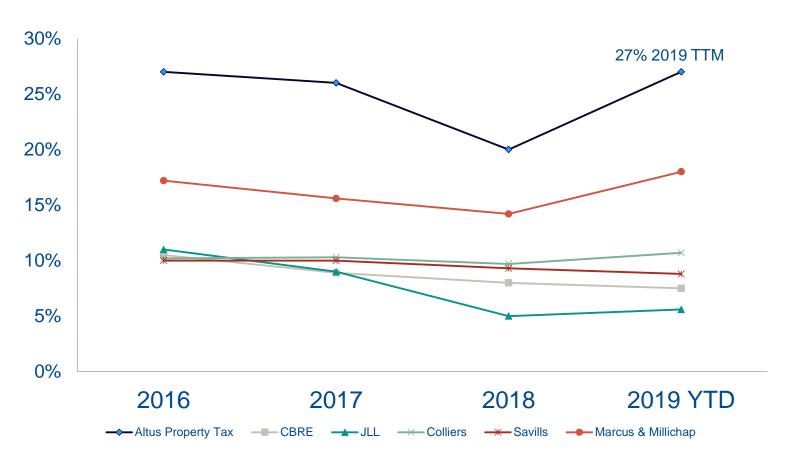




- Annual Adjusted EBITDA impacted by the same factors that influence revenue variability
- With ~77% of global Property
 Tax revenues based on
 contingency fees, once
 contingency settlements are
 settled it flows directly to the
 bottom line

Top Tier Adj. EBITDA Margin Performance





- Superior margins to peers in CRE services
- Annual Adjusted EBITDA margin fluctuation impacted by where we are in certain big cycles (namely UK & Ont.) & primarily by timing of certain highervalue contingency settlements
- As we moved toward a higher contingency model & implemented more technology across the businesses Adjusted EBITDA margins have been improving

Steady Annual Revenue Growth



Quarterly revenue variability impacted by contingency engagement 15% 5-Yr Revenue CAGR



Improved visibility and less variability:

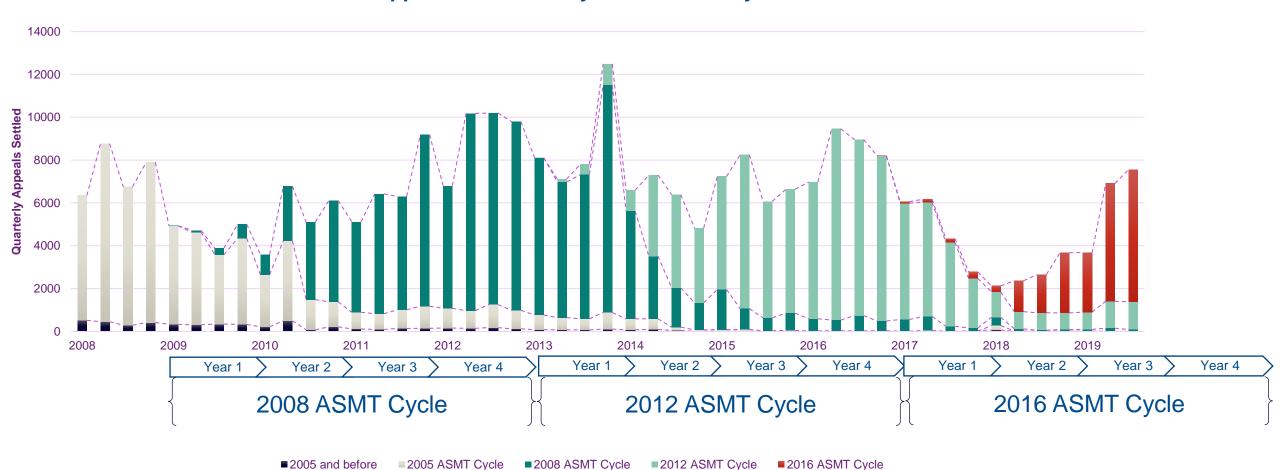
- Number of Jurisdictions UK national, Cdn. provincial, US county and state level
- Mix of Cycles
 Range from 1 4 yrs
- Growing Market Share
- New revenue streams

UK Annuity Billings
 Q2 cyclicality/seasonality, excluding first year of new cycles

Ontario Rebound Post Process Change in 2018



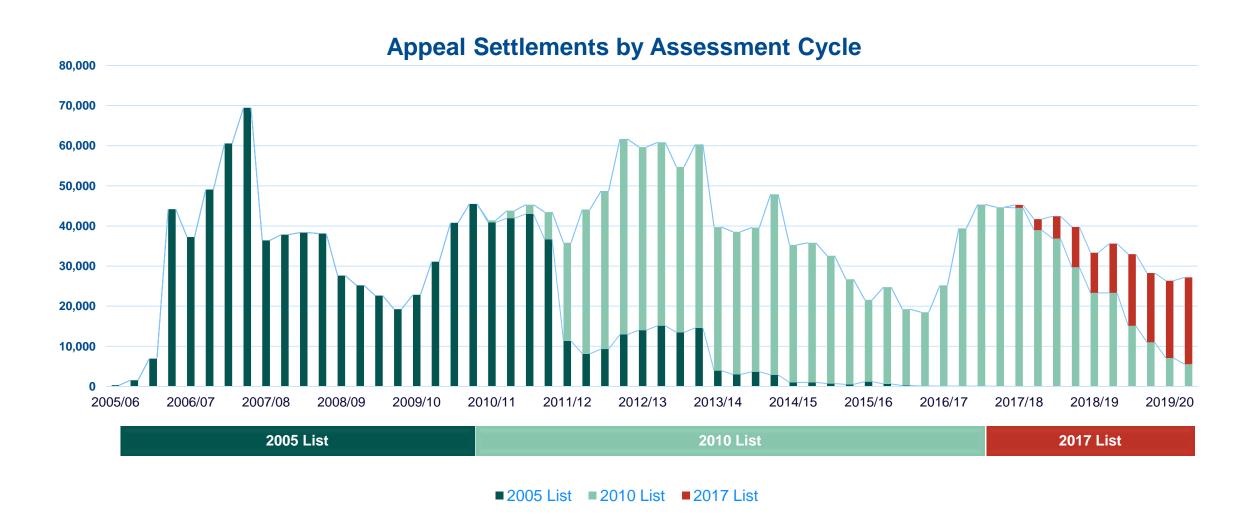
Appeal Settlement by Assessment Cycle



*All Ontario section 40 (Annual ASMT) appeals

UK Approaching Ramp Up at End of 2017 Cycle





Overview of Key Cycles



Following key markets make up ~80% of 2019 TTM revenues:

Key Markets	Length of Cycle	2018	2019	2020	2021	2022	2023	2024
UK	4 yrs. → 3 yrs.	2 nd year	3 rd year	4 th year	1 st year – <i>no annuity</i>	2 nd year	3 rd year	1 st year - no annuity
Ontario	4 yrs.	2 nd year	3 rd year	4 th year	1 st year	2 nd year	3 rd year	4 th year
Texas	Annual							
Alberta	Annual							
ВС	Annual							
Quebec	3 yrs.	2 nd year	3 rd year	1 st year	2 nd year	3 rd year	1 st year	2 nd year
Manitoba	2 yrs.	1 st year	2 nd year	1 st year	2 nd year	1st year	2 nd year	1st year
Maryland	Annual, 1/3							
Florida	Annual							
California	Transactional							

Growing number of key markets and mix of cycles increasingly provides more balanced revenue performance

- Two independently strong, high-value & growing businesses
- Attractive 5-year outlook at Altus Analytics
 - Target to double revenues to \$400M by 2023
 - Top 200 strategy and geographic expansion
 - Adjusted EBITDA margin recovery post 2019-2020 transition (targeting margin expansion 30+% by 2023)
 - Transition to Cloud and subscription pricing creates a stable and growing revenue stream
- Strong performance in Global Property Tax
 - High margins, strong contributor to cash generation
 - Robust pipeline expected to contribute to strong revenue streams in future years
 - Opportunities to continue to capture significant market share in key markets

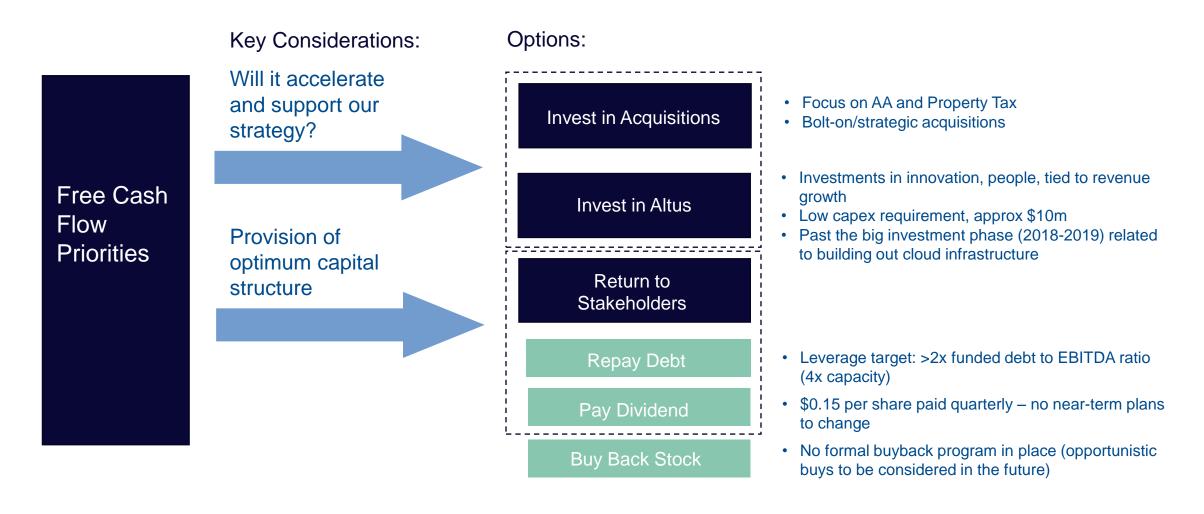




Capital Allocation Framework



• With a significant market opportunity ahead, our primary objective is to maximize our growth prospects



M&A Framework



High focus on quality businesses with high quality people to further our strategic growth initiatives and generate attractive financial returns

STRATEGIC

- Core to Altus strategy
- Market expansion in key geographies
- Expansion of solution portfolio (buy or build)
- Complementary to existing businesses
- Cross-sell opportunities
- Enhances competitive position

FINANCIAL

- Financially accretive
- Financial synergies
- Revenue growth opportunities
- Return on investment
- Funding mechanisms

CULTURAL FIT

- Cultural fit & alignment on values
- Quality of talent (high emphasis on key talent retention)
- Ability to execute & high performance culture

Creating Value Through Acquisitions



2017	2018	2019
 CVS Property Tax; \$61M UK market expansion (doubled size) Improved pricing model & business processes 	 Taliance Altus Analytics; \$30M Fund management solution European expansion 	 One11 Advisors Altus Analytics; \$14M Strategic software advisory Strengthened enterprise selling
 EstateMaster Altus Analytics; \$20M Enhanced software portfolio APAC expansion 	 Aspect Property Tax; \$5M UK market expansion Market expertise 	CaruthersProperty Tax; \$4MExpansion in key US market
AxiomCost; \$1MEnhanced Cost services	 New Market Altus Analytics; \$1M Strengthened appraisal management capability 	

- \$135 million deployed towards Altus Analytics and Tax acquisitions in last 3 years across 7 acquisitions
- Altus Analytics acquisitions:
 - Expand software & data capabilities
 - Enhance platform adoption
 - Expand users workflows,
 - Further penetrate key international markets
- Property Tax acquisitions:
 - Focused on market expansion in key US and UK markets
 - Enhance value of global Property Tax business
 - US revenues +375%, UK revenues +263%, since 2014
 - Adjusted EBITDA margin improvement from 22% in 2014 to 27% 2019 TTM

- ✓ Significant market opportunity ahead for Altus Analytics & Property Tax
- ✓ Altus continues to be in growth mode (for years to come)
- ✓ Invest to maximize growth prospects and financial returns
- ✓ M&A focus on highest growth businesses: Altus Analytics & Property Tax
- ✓ Strong financial position in support of growth initiatives
- ✓ High confidence & visibility on future returns



Final

Q&A



Robert Courteau, CEO

Closing Remarks







Speaker Biographies (In Alphabetical Order)





Angelo Bartolini CFO

Angelo has over 25 years of experience as a finance and accounting professional. Angelo joined Altus Group in January 2008, assuming a senior leadership role in the Accounting department. He has been instrumental in building a highly competent team, and in improving the accounting and finance processes. Previously, he held senior finance and accounting roles at Canadian Tire and Home Depot Canada. Angelo is a Chartered Accountant and holds a degree in Honours Business Administration from the UWO.



Camilla
Bartosiewicz
VP IR

Camilla Bartosiewicz is senior investor relations professional with over 12 years of experience in implementing award-winning strategic investor relations programs for publicly traded issuers. Prior to joining Altus Group in 2014, she headed up investor relations and corporate communications for a dual-listed company in the resource sector, and earlier in her career, she worked at capital markets consulting firms advising clients on strategic investor relations programs and special situation communications, including mergers and acquisitions and proxy contests. Camilla holds a B.A. Hons in Media Studies from the University of Guelph and a Diploma in Public Relations from Humber College. She currently serves on the board of the Ontario Chapter of the Canadian Investor Relations Institute (CIRI) and often presents as a speaker on IR related topics at various industry events and academic institutions.



Mark Bedford SVP. US Real Property

Mark has over 30 years of experience in the real estate and property tax consulting industry. He is experienced in property valuation and appeals, covering most all real property types, including hospitality, retail, office, multifamily, heavy manufacturing and healthcare. Assignments have included real and personal property appeals, complex property tax consulting, and various valuation assignments. Mark is a Licensed Senior Property Tax Consultant (Texas), Licensed Real Estate Broker (Texas and Oregon) and Licensed Tax Consultant (Texas, California, Kentucky and Tennessee). Mark's experience with ad valorem property tax began in 1985 with a national firm based in Dallas, Texas, for twelve years. He then helped form Complex Property Advisors Corporation (CPAC) and served as Executive Vice President for 16 years. Mark's primary focus was on the management of appeals and litigation of complex properties nationally. Mark has been especially proactive in the states of Texas, Washington, Oregon, California and Florida.





Terry Bishop
President, Canada
Property Tax

Terry is the President of Property Tax Canada at Altus Group. Altus' Property Tax group is the pre-eminent provider of property assessment and tax consulting services in Canada, comprised of over 220 property tax professionals and located in 14 offices across Canada. With over 35 years of experience in the Property Tax consulting business Terry has been called upon to solve property tax matters on many types of properties in jurisdictions across Canada. Through his broad range of expertise and client knowledge, Terry brings a wealth of insight and experience to Altus' clients. He is a member of the Institute of Municipal Assessors holding the designation M.I.M.A., is designated a Professional Land Economist P.L.E. with the Ontario Association of Land Economists and is a Licensed Paralegal with the Law Society of Ontario.



Matt Cotter EVP

Matt Cotter's experience in the technology industry and his work with community banks, credit unions and financial institutions has given him a deep understanding of the role technology plays in today's financial services marketplace. Matt shares his insights as a contributor to community banking and credit union technology journals such as Mortgage Technology News and Mortgage Banking Magazine and is a regular speaker at industry events. Matt is a graduate of Duke University, where he studied English literature.



Robert Courteau CEO

An accomplished senior executive, Robert has extensive experience in leading new business initiatives and achieving growth objectives with some of the world's foremost companies. Robert was a corporate executive with SAP AG, a global market leader in enterprise application software, including roles as the President, North America and Global Chief Operating Officer. He has been an active board member of numerous North American not-for-profit organizations and has served on boards of several publicly-traded companies. Robert has a Bachelor of Commerce degree from Concordia University where he was also the recipient of an Honorary Doctorate. In recognition of his commitment to education and endorsement of international standards and regulation, Robert was awarded an Honorary Fellowship with RICS (FRICS) in 2014.





Dhinaker Dhandi VP, Product Management, Altus Analytics

Dhinaker is a quality-driven and customer-focused professional offering more than 12 years of business and technical success spanning software product development, market analysis, business development, and roadmap prioritization. He possesses a consistent record of executing complex projects, delivering high-quality products that meet market and customer needs and is known for strategically managing products throughout lifecycle, from requirements gathering to design, development, and marketing. Dhinaker proactively works across functional lines to ensure customer satisfaction and achievement of revenue goals, and fuels profitability by determining effective pricing and positioning strategies. Dhinaker confidently fosters lasting relationships with partners and across organizational levels.



Carl Farrell
President

Carl is a seasoned technology executive with over 30 years of extensive global experience in the software, data and professional services industry.

Carl most recently served as the Executive Vice President & Chief Revenue Officer for SAS Institute, the global leader in the business analytics market. During his 15-year tenure with SAS, he held responsibilities for sales, professional services, marketing and overall global operations. Previously, Carl held executive positions at Vinette Corporation, Idiom Technologies, JD Edwards and JBA Plc..



Richard Kalvoda Sr. EVP, Advisory, Altus Analytics

Rick Kalvoda is a Senior Executive Vice President at Altus Group and serves as the Global Head of Advisory, which provides valuation management and portfolio analytics for over 165 real estate funds comprising more than \$650 billion in assets under management. Rick has over 28 years of experience in commercial real estate consulting and has presented at various real estate conferences, including AICPA, Appraisal Institute, NCREIF, PREA, Argus Connect, Pepperdine University and IMN. He was also a contributing researcher and presenter for Emerging Trends in Real Estate, an annual survey publication of PricewaterhouseCoopers and Urban Land Institute.

Prior to joining Altus Group, Rick served as a Principal with PricewaterhouseCoopers' Real Estate Advisory Practice, and received his Master's Degree in Real Estate Appraisal and Investment Analysis from the University of Wisconsin - Madison. Rick holds the MAI, CRE, and FRICS designations, and is a certified appraiser in various states.





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Scott Morey
Exec. Director, One11



Alex ProbynPresident, UK
Property Tax



Amer Rasul VP, Financial Planning & Analysis

Scott has 30 years of experience working in the real estate industry. Over that time frame Scott has worked in North America, Europe, Africa and the Middle East with numerous real estate owners, operators, developers, advisors and users of real estate with the objective of maximizing the value of their holdings. This includes providing strategic advice relative to market positioning, improving the underlying operations of the company, and using technology (i.e., PropTech) in ways that creates real long-term sustainable value. Scott has developed a strong reputation for his knowledge, creativity, integrity and ability to execute.

With Altus and its predecessor Edwin Hill since 1996, Alex has practiced extensively throughout England advising occupiers and owners on minimizing Business Rates and other property matters. His experience in dealing with Rating Revaluations, appeals and the co-ordination of negotiations on both large office and industrial complexes has led him to assume responsibility for a number of key corporate rating instructions throughout the country. Alex is a Chartered Surveyor and a Fellow of the Royal Institution of Chartered Surveyors (FRICS).

Amer joined Altus Group in May 2009 and has over 20 years of experience as a finance and accounting professional. He previously held senior financial management roles with various Canadian public companies. He is skilled in Budgeting, Accounting, Mergers & Acquisitions (M&A), Financial Reporting, and Project Management. Amer holds a Bachelor of Commerce (B.Com.) focused in Finance and Accounting and an MBA, both from the Rotman School of Management, University of Toronto, and is a Chartered Professional Accountant.





Gordon brings a wealth of international financial and business experience gained through various roles with multinational organizations, including operations, finance, strategy and M&A; roles at BMC Software and Halliburton. At ARGUS Software he lead the global finance organization and continues to do so for Altus Analytics, with responsibility for all financial strategy, planning and overall financial management

Gordon Richardson EVP Finance



Erica Tabrizi Team Lead, ARGUS Sales

Erica is extensively experienced in training and presenting commercial real estate software to an array of relatively large corporations, globally. She possesses strong research, writing and analytical skills along with the ability to evaluate real estate projects efficiently and communicate these results effectively to clients to ensure they are optimizing their business' success through the ARGUS Software platform.



Mark Walker EVP, Finance & Business Performance, UK Property Tax

Mark Walker has worked in the property service sector for over 10 years, having previously held Finance Director positions in a number of private equity backed businesses. As part of the senior leadership group in the UK, Mark is charged with both looking after the finances of the business and working with his colleagues to deliver a programme of continued service improvement. This includes optimizing the use of data and MI to maximize savings generated for clients and improving the delivery of value-added information through increasing the use of technology.

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