







MINING THE GOLD: INNOVATION WITH DATA ANALYTICS

2016 CHAM ANNUAL CONFERENCE







MOUNTAINS OF DATA





There are nuggets of GOLD in those Mountains!





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Got data?

- Building data
 - Size of units / amenities
 - Building & utility consumption
 - Geographic location
- Tenant information
 - Income and asset levels
 - Tenant ledger information
 - Household composition
- Census bureau data!
 - Income levels in census blocks
 - Demographic trends

- Occupancy information
 - Physical and economic occupancy
 - Type of units in great demand
 - Length of waiting lists
- Financial information
 - Debt coverage ratio
 - Tenant receivables
 - Per unit operating costs
- Reserve account information
 - Deposit and withdrawal information
 - Use of reserves
 - What vendors being engaged



Know your data!

- Think about and understand what data you collect and where it is located (be aware of 'outliers' / think about their impact)
- Be creative and think out side the box!
- A 'smart' approach to data analytics will:
 - Spark new ideas
 - Trigger new thoughts
 - Allow you to 'prove' or 'disprove' theories you may have in regard to your property or portfolio performance
- What data elements are MISSING? Find a way to capture that data



The elusive 'Holy Grail' of Asset Management

- Having relevant data at your 'fingertips' that provides critical insight into your operations that informs the decision-making process
- If successful, Asset Managers are able to...
 - Be more PROACTIVE vs. REACTIVE
 - Identify risks or emerging trends SOONER allowing for prompt mitigation of issues
 - Maximize the value of an asset and/or portfolio
 - More effectively achieve the desired goals / improve long-term sustainability of affordable housing stock
 - Earn a 'seat at the table' to influence outcome of new deals



But in reality...it will ALWAYS be a 'work in progress'

- We are only 'scratching the surface' of what is possible...
- There will always be fresh new 'angles' to explore
- Don't get complacent!
- Always push the envelope to find those next 'nuggets of gold'...





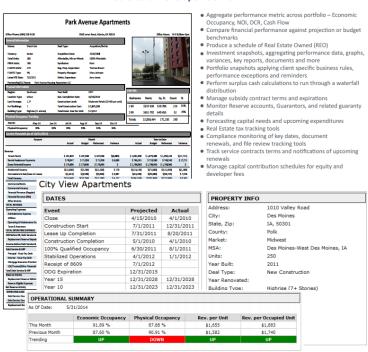
Demo -- Integratec!



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Features of Developer Central



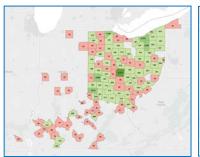
- . Construction monitoring tool manage construction budget and draws at a source and use level
- Document Repository
- · Role based security access
- Workflow & task tracking tools to manage standard lists, dates, assign responsible party, and documents throughout a deal's lifecycle – due diligence through disposition

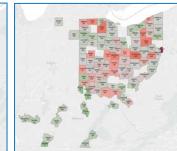


How OCCH uses data analytics tool...

Important tool that helps us identify and visualize information

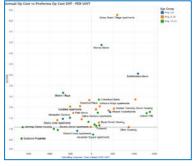
- Business planning
- Identify project or portfolio trends
- Portfolio reviews / benchmarking
- Underwriting process





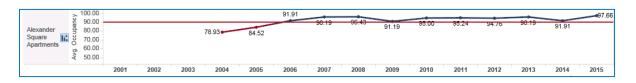
Heat map showing concentration of units.

Heat map showing per unit real estate taxes.





Scatter charts comparing actual audited numbers vs. proforma for income and operating expenses!







Demo - OCCH / Tableau!

- Using Tableau Software
 - Data analytics tool
 - www.tableau.com
- Attached to OCCH proprietary database called 'PIXUS'
 - Web-based information system capturing project data
 - ~575 properties actively reporting















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