# You Just Received your Facilities Condition Assessment Report

Now What?

Joe Lalley AVP for Facilities Operations

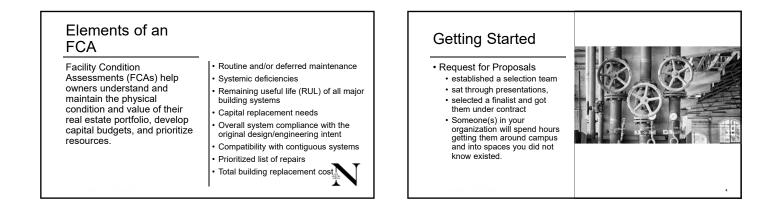




## Why do an FCA?

The physical environment of a college campus provides the context for learning and social interactions. These interactions lead to involved students, which help build community, and vibrant communities on college campuses contribute to student persistence and academic success. \*



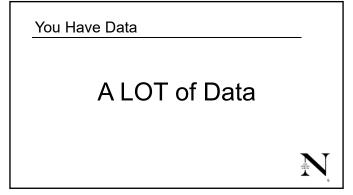


#### **Getting Started**

Finally, after all these months and a just few dollars later, you now have your facility condition report. You are at the end......

.....the beginning and ready to start the process of incorporating this data into your deferred maintenance strategy and multi-year capital planning.





# Processing the Data

#### **Facilities Condition Assessment**

- Northeastern University
  - >150 uniquely identified facilities either owned or occupied
     Boston, MA
    - · Burlington, MA
    - Dedham, MA Nahant, MA
- · Responsible for maintenance in most leased facilities
- ~8.2M GSF
- · Planning to use Archibus modules for FCA and DM Capital Planning

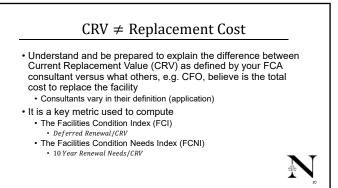
#### Socialize Definitions Used in FCA

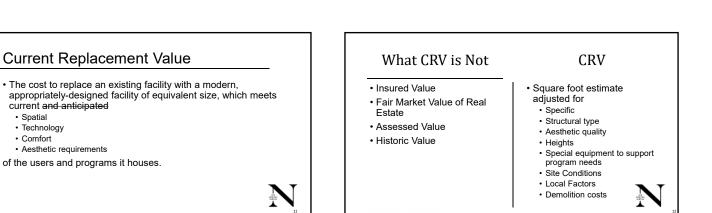
- Current Replacement Value (CRV)
- · Facilities Condition Index (FCI)
- Facilities Condition Needs Index (FCNI)
- Localization Factor Capital Renewal
- Replacement

Spatial

Comfort

· Recurring and Nonrecurring Costs





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#### Localization Factor

- · Applied to All Costs
- Reflective of Local Costs
- Includes Institutional Cost
- Ranges from 1.70 2.35 are common
  - Should be a constant for the institutionIs reflected in the numerator and the denominator
  - Does not have to be perfect

# Processing the Data

#### Recurring and Nonrecurring Costs

#### Recurring

 Cyclical and consist primarily of major repairs to or replacement/rebuilding of facility systems and components (e.g., roof or HVAC system replacement at or past the end of its normal useful life).

#### Nonrecurring

 Modifications or repairs necessary to comply with fire/life safety or accessibility code requirements or to address isolated, nonrecurring deficiencies that could negatively affect the structure of the facility or the systems and components within.

#### Processing the Data

- Many consultants offer an online tool to view, organize and manage capital renewal portfolios
  - Usually requires annual maintenance fee after first year
  - Often a stand alone system
  - Data duplication across systems

#### **Pivot Tables Are Your Friend** Processing the Data 8V.21 8V.22 8V.23 8V.24 \$37,003,537 \$20,309,500 \$15,220,035 \$25,256,636 \$6,357,0 58,537,847 \$4,050,000 \$0 \$0 \$0 · Recommend downloading data to familiarize yourself with it ACADEMIC/ADMI =140 The Fea way (P4) 180178 - H Multiple worksheets in an Excel Workbook Behruk is Haulth Sciences Countr \$76000 Facilities Data What the consultant used – e.g. Current Replacement Values, GSF Data of Record for the institution (P4) Behrakis co (P4) Behrakis su (P4) Behrakis va (P4) Window Tr replacement Status: Not Status: Not in eBuilder/Stk Deferred Maintenance entries Recurring Costs items \*Cahner: Hall (P4) Cahners HVAC Units replacement Status: Not in eBuilder (\$100K · Systems costs Relate to other institution data Condense large amounts of data into relevant chunks Cutting Ital Country

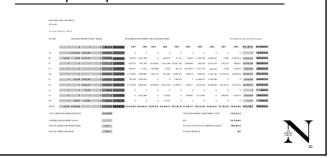
#### Processing the Data

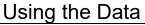
- Validate FCI and FCNI Calculations
  - Start with one (1) building
     Use same
    - Compute FCI

    - Compute FCNI
       Compare against reports
    - Reconcile Difference
  - · Validate remaining facilities and the data set as a whole



#### **Develop Snapshots**





Buildings....The Gifts That Keep On Taking by Rodney Rose (Author), Ph.D David A. Cain (Author), James De APPA 2007 ey (Author), Rich Schneider



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\*Kuh, Cruce, Shoup, Kinzie & Gonyea, 2008; Palmer, 2011; Strange & Banning, 2001; Tinto & Goodsell - L

#### Advocating for Capital Renewal

- Understanding the Context of the Institutional Master Plan
- Define the Need
- Engage the Campus Communities
- · Identify Funding Streams
- · Integrated Campus Stewardship



#### Refining the Need

Develop or utilize deferred maintenance inventory to prioritize criticality and timing of projects Use CMMS to identify facilities with high corrective or emergency work orders Incorporate other data Engage facilities staff to tap their wealth of knowledge Devise method for prioritization of projects, e.g. Must Do Should Do Nice To Do Don't Do

#### Define the Need

#### Peer comparisons

- APPA
   IFMA
- Sightlines
- Key Metrics

  - Renovation ages of buildings
    Current versus target deferred maintenance level of \$50/GSF
  - Impact of level funding
  - Funding required to "Keep Up" · Funding required to "Catch Up"



#### Engage the Campus Communities

Engage educational leadership to learn about facility "pain points"

- · Learn what is important to them and their programs
  - · What matters most to them will inform deferred maintenance capital planning Program support
  - Aesthetics

  - Building environments
    Operational impacts
- · Enlist their help and support in capital plan prioritization and timing · Partnership is key

#### Engage the Campus Communities

Seek or create opportunities with administration, faculty and staff:

- To test alignment of the plan with campus mission and strategic priorities
- · Share potential impacts on campus operations if:
  - Implemented • Not implemented or postponed



#### Identify Funding Streams

- · Take advantage of visits by representatives, trustees, and influential persons to provide tours of campus infrastructure and facilities
- · Engage Office of Philanthropy to identify fund raising opportunities
  - Bundle the cost of DM/CR inside the philanthropic opportunity

#### **Identify Funding Streams**

- · Effectively time projects with capital plan programmatic improvements Identify/package/scope DM work to minimize administration costs
- · Analyze costs of renewal/renovation versus building replacement
- · Identify possible joint projects with municipalities



# Conversation



# Northeastern University

# LVX VERITAS VIRTVS