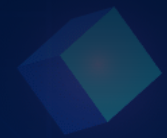
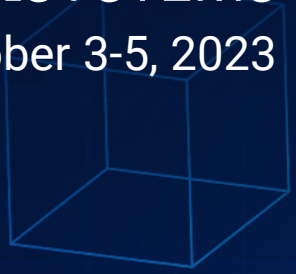


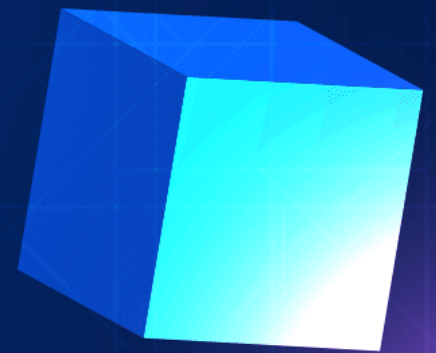
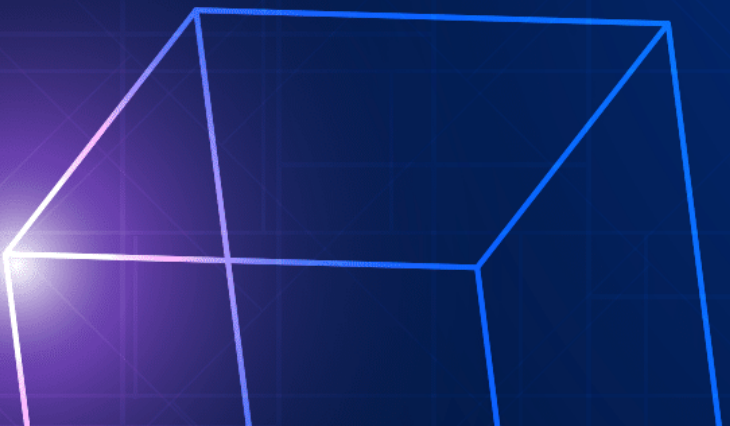


UC23 | October 3-5, 2023



WebTMA Space Management

A Picture Speaks a Thousand Words



Presenters



Glenn Seehausen

President/CEO
ACAD-Plus, Inc.



Joe McVay

Manager of Solutions Engineering
TMA Systems





Agenda

1. TMA Space Management
2. Drawing Services
3. Floor Changes
4. Hierarchical Reporting
5. Composite Reporting
6. Stack & Square Diagrams
7. Planning Scenarios
8. Product Roadmap



TMA Space Management

What Features Are Currently Available?

- AutoCAD Drawings can create/update Area Records in WebTMA along with their SQF.
- Administrators can review any pending changes coming from AutoCAD into WebTMA prior to accepting them
- The WebTMA-CAD add-on can pull the following information for graphical reporting in your floorplans: Equipment Inventory, Equipment Service Locations, Occupancy, Department Ownership, and Hierarchical Type/SubType reporting

WebTMA 7 AREAS

Fast Find - Search

Records

SH-123
SH-127
SH-128
SH-129
SH-130
SH-131
SH-132
SH-133
SH-134
SH-135
SH-137
SH-138

Action Menu
Favorites
Records
Reports
Linked Documents

Identity Misc Department Part Reference PMs Monitored Condition Occupants Total View Cost Rates More

General Information

Location ID	SH-134	Active	<input checked="" type="checkbox"/>
Facility	Main Campus	Area Description	134
Building	Seehausen	Lock-out #	
Floor Code	SH-1	Area Function	
Area #	134	Gender	
Area Type	Classroom Facilities	Occupancy	
Area Subtype	Classroom Support	Parking Spots	0
Parent Area		Mall Stop	
Portfolio Manager ID		Actual Sq. Ft	16.91
Portfolio Manager Name		Usable Sq. Ft	16.91
Phone #		Warranty Date	
		Last Inspected	

Location

Latitude	Longitude
	GIS ID

UDF

Last Insp	Last Inspected
-----------	----------------

Right To Know

Asbestos	Hazardous Materials	Lead	Mold
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Option Controls

Assignable Space	Confined Space Perm	Off-site Property	In Leasable Portfolio
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

WebTMA 7 AREAS

Fast Find - Search

Records

SH-123
SH-127
SH-128
SH-129
SH-130
SH-131
SH-132
SH-133
SH-134
SH-135
SH-137
SH-138

Action Menu
Favorites
Records
Reports
Linked Documents

Identity Misc Department Part Reference PMs Monitored Condition Occupants Total View Cost Rates More

Location ID SH-134 Area Description 134

Department

Add Department Add Department Detail Auto Distribution

<input type="checkbox"/>	Code	Name	Contact	Phone	Distribution
<input checked="" type="checkbox"/>	SOBUS	School of Business			40

Add Area Function Auto Distribution

<input type="checkbox"/>	Area Function	Distribution
<input checked="" type="checkbox"/>	Instruction	100

1 - 1 of 1 items

<input checked="" type="checkbox"/>	ENG	School of Engineering	Bill Knight	454-5648	60
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Add Area Function Auto Distribution

<input type="checkbox"/>	Area Function	Distribution
<input checked="" type="checkbox"/>	Other Institutional Activities	50
<input checked="" type="checkbox"/>	Research/non-class Laboratory	50

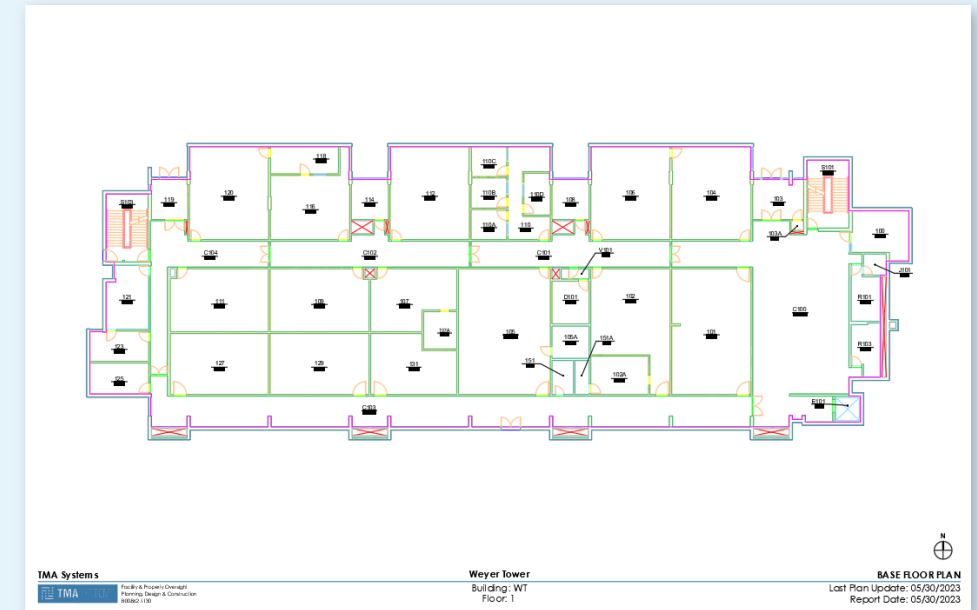
1 - 2 of 2 items



Drawing Services

Preparing the Story in Pictures!

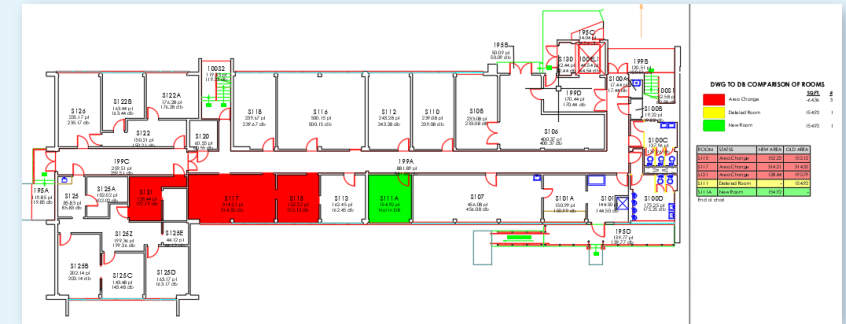
- Floor Plan Drawing Conversion for WebTMA-CAD
- Field-Verification and Laser Measuring
- AutoCAD Floor Plan Drawing Creation
- Is your CAD Department staffed adequately to maintain the drawings as remodels are completed, but cannot get caught-up because they don't have accurate drawings to start from?
- Provide Project Management/Strategy, including consulting and training on how to approach field-verification and drawing creation internally.
- We can even BE your CAD Department if you cannot justify any internal CAD staffing.



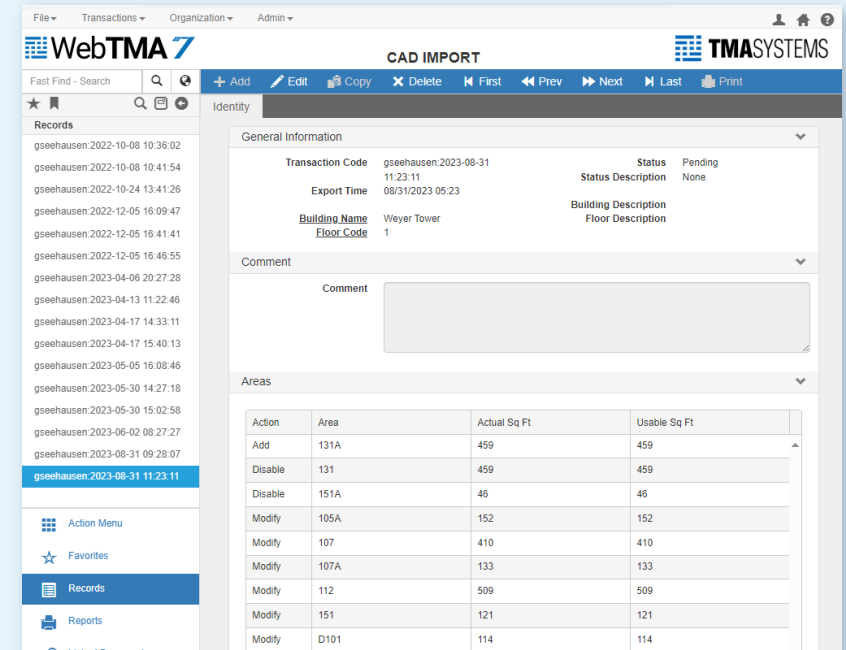
Floor Changes

Telling the ACCURATE Story in Pictures

- Accurate Locations are initially perceived as critical for only Space Management
 - Space Utilization Analysis and Optimization
 - Space Planning
 - Indirect Cost Recovery Calculations
- But Locations data probably permeates more modules in WebTMA than any other type of data.
- So accurate locations are important for almost every module in WebTMA, and the entire system will suffer if the locations data is deficient.
- Compare and then Export accurate Spaces (Room Numbers and Areas) from Floor Plans directly to WebTMA



Export






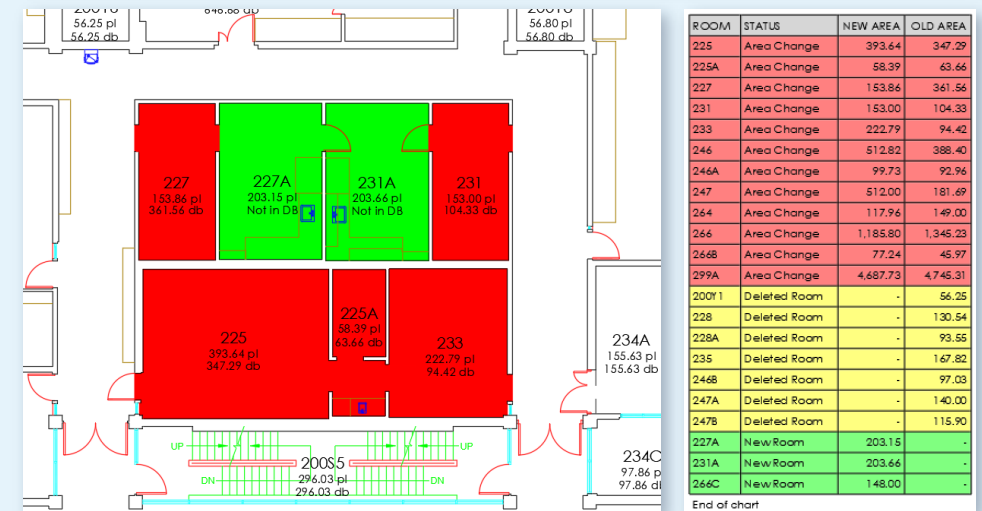
Floor Changes

Telling the ACCURATE Story in Pictures

- Compares and Illustrates the changes from construction events prior to exporting/updating data in WebTMA
- Preserves a PDF for a full historical understanding of the changes to each floor
- Send the PDF to stakeholders to notify them and accurately illustrate all changes
 - Room Scheduling (EMS)
 - Emergency Egress Maps
 - Life Safety Equipment Drawings

DWG TO DB COMPARISON OF ROOMS

		<u>SQ.FT.</u>	<u>#</u>
	Area Change	255.13	12
	Deleted Room	801.09	7
	New Room	554.82	3



Live Demo Here...

Floor Changes : Telling the ACCURATE Story in Pictures











Hierarchical Reporting

Telling the SUMMARY Story in Pictures

- Provides a rollup so more stakeholders get the summary at the levels they need
 - Budgeting Stakeholder
 - Planning Stakeholder
- Works with any/all Hierarchical Data

Examples:

 - Assignable, Category, Subcategory, Type
 - Cost Center, Department, Budget Unit
- Supports Unlimited Levels in the Hierarchy
 - Number of Levels to be included is selectable when generating each report







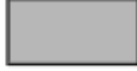

		COST CENTER #	
		<u>SQ.FT.</u>	<u>#</u>
<u>BUSINESS AND FINANCE</u>		<u>2,317</u>	<u>12</u>
Auxiliary		<u>2,266</u>	<u>11</u>
	Dining & Vending Services (CC00150)	1,618	6
	Telecommunications (CC00449)	648	5
Facilities Operations & Planning		<u>52</u>	<u>1</u>
	Facilities Management (CC00187)	52	1
<u>PROVOST</u>		<u>56,488</u>	<u>224</u>
Auxiliary - Student Health		<u>6,415</u>	<u>37</u>
	Student Health Operations (CC00434)	6,415	37
School of Marine, Atmospheric Studies		<u>50,073</u>	<u>187</u>
	Marine and Atmospheric Studies (CC00111)	620	3
	Facilities - Rosburg School (CC00188)	3,306	33
	Graduate Programs - Rosburg School (CC00400)	1,640	3
	Marine Biology and Ecology (CC00286)	31,543	114



Hierarchical Reporting

Telling the SUMMARY Story in Pictures

- Requirements/preparation to leverage this feature:
 - Assignable/Area Type/SubType
 - Ensure Logical Subtypes are correctly beneath the Types
 - Define Fill Codes and Assign to the List of Values
 - Perhaps use the same color for each Type
 - Then use different hatch patterns for each Subtype
 - Example shown here -->

		<u>SQ.FT.</u>	<u>#</u>
<u>ASSIGNABLE SPACE</u>		<u>15,082</u>	<u>53</u>
Laboratory Facilities		<u>12,318</u>	<u>38</u>
	Research Lab	8,473	15
	Research Support	3,845	23
Office Facilities		<u>2,764</u>	<u>15</u>
	Conference Area	253	1
	Office Area	2,511	14
<u>UNASSIGNABLE SPACE</u>		<u>7,347</u>	<u>25</u>
Building Service		<u>545</u>	<u>6</u>
	Environmental Service Area	76	2
	Lavatory Area	469	4
Circulation		<u>6,184</u>	<u>11</u>
	Horizontal Circulation	5,699	6
	Vertical Circulation	485	5











Hierarchical Reporting

Telling the SUMMARY Story in Pictures

- Requirements/preparation to leverage this feature:
 - Departments
 - Ensure each Department has an equal number of Parent Levels from bottom to top
 - Will likely have to repeat the same values when the Levels are unequal, as shown below

Level	IF YOU WANT THIS MANY LEVELS		THAN SOME MUST BE REPEATED	
	Code	Department	Code	Department
1	CCH_0001	University President	CCH_0001	University President
2	CCH_0006	Provost	CCH_0005	President
3	CCH_0016	Schools and Colleges	CCH_0014	President
4	CCH_0067	MSOM	CCH_0072	Office Of The President
5	CCH_0213	MSOM - Clinical Departments	CCH_0239	Office Of The President
6	CCH_0505	MSOM - Surgery	CCH_0532	Office Of The President
Actual	CC01522	MSOM - Surgery - Pediatric	CC00342	Office Of The President

COST CENTER #		SQ.FT.	#
<u>BUSINESS AND FINANCE</u>		<u>2,317</u>	<u>12</u>
Auxiliary		<u>2,266</u>	<u>11</u>
	Dining & Vending Services (CC00150)	1,618	6
	Telecommunications (CC00449)	648	5
Facilities Operations & Planning		<u>52</u>	<u>1</u>
	Facilities Management (CC00187)	52	1
<u>PROVOST</u>		<u>56,488</u>	<u>224</u>
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	Graduate Programs - Rosburg School (CC00400)	1,640	3
	Marine Biology and Ecology (CC00286)	31,543	114



Live Demo Here...

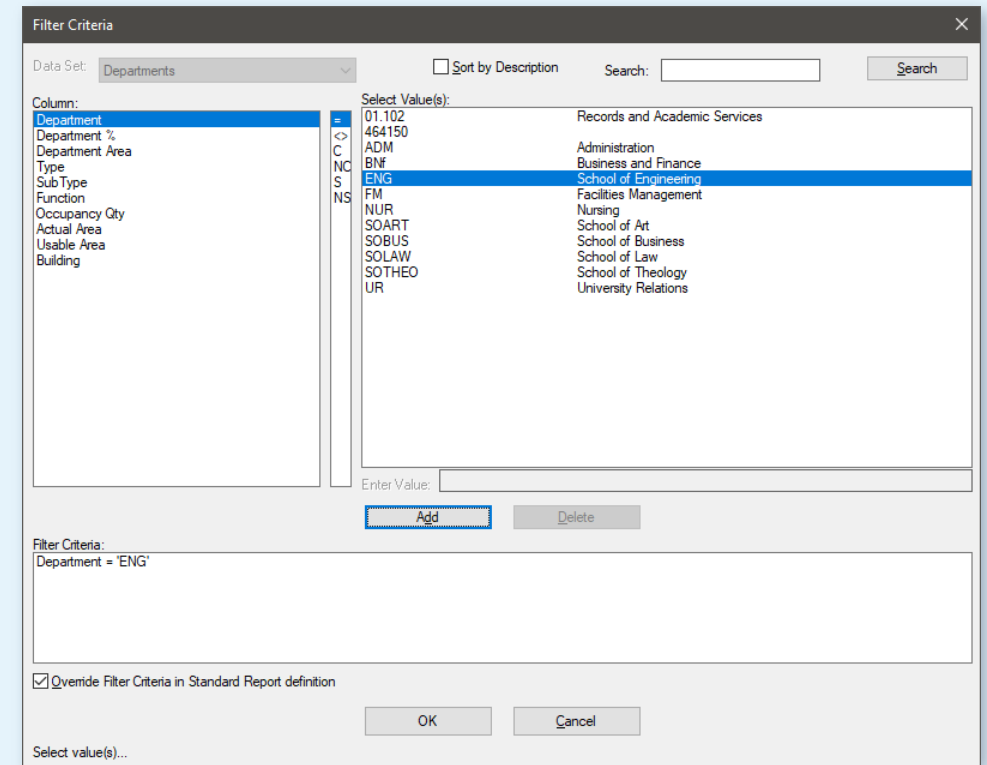
Hierarchical Reporting : Telling the SUMMARY Story in Pictures



Composite Reporting

Telling the COMPLETE Story in Pictures

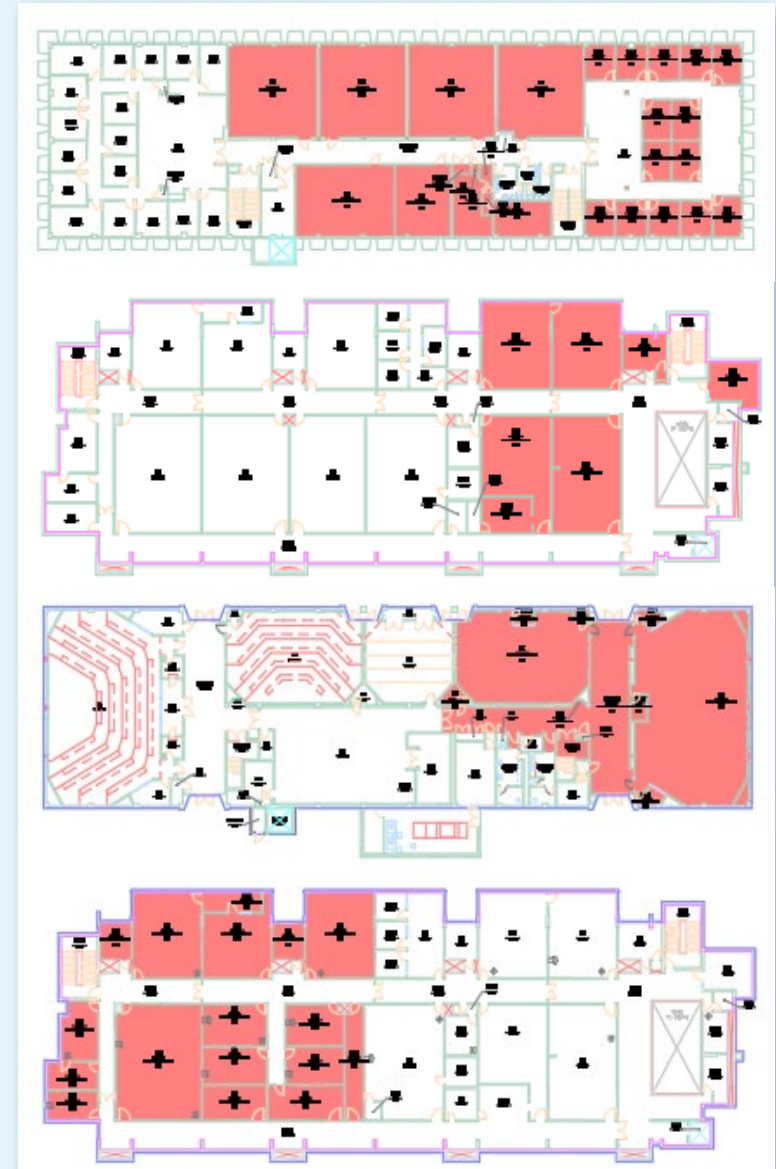
- Find all Spaces across your entire campus/portfolio that meet any criteria
- Assembles the results into a multi-page PDF thematic report
- Examples of application:
 - Answers questions using pictures in minutes, like...
“Show me where my department has classrooms that will accommodate 50 people.”
 - Provide Department Heads a single multi-page PDF showing every floor on a separate page with only their space highlighted for audit and confirmation
 - Provide Space Planners a clear understanding of assigned space, for example, when trying to consolidate and optimize space



Composite Reporting

Telling the COMPLETE Story in Pictures

- Requirements/Preparation in order to Leverage this Feature:
 - All Floor Plan Master Drawings must be consistent
 - Consistent Layouts with appropriate scaling, room numbers scaled and placed legibly
 - Positioning of the Legends and Charts in Paper Space
 - Run SCOMPDAT on each DWG
 - Each Floor record must include the path and filename to the Floor Plan Master Drawing
 - Configuration settings applied according to the customer preferences/ requirements.



Live Demo Here...

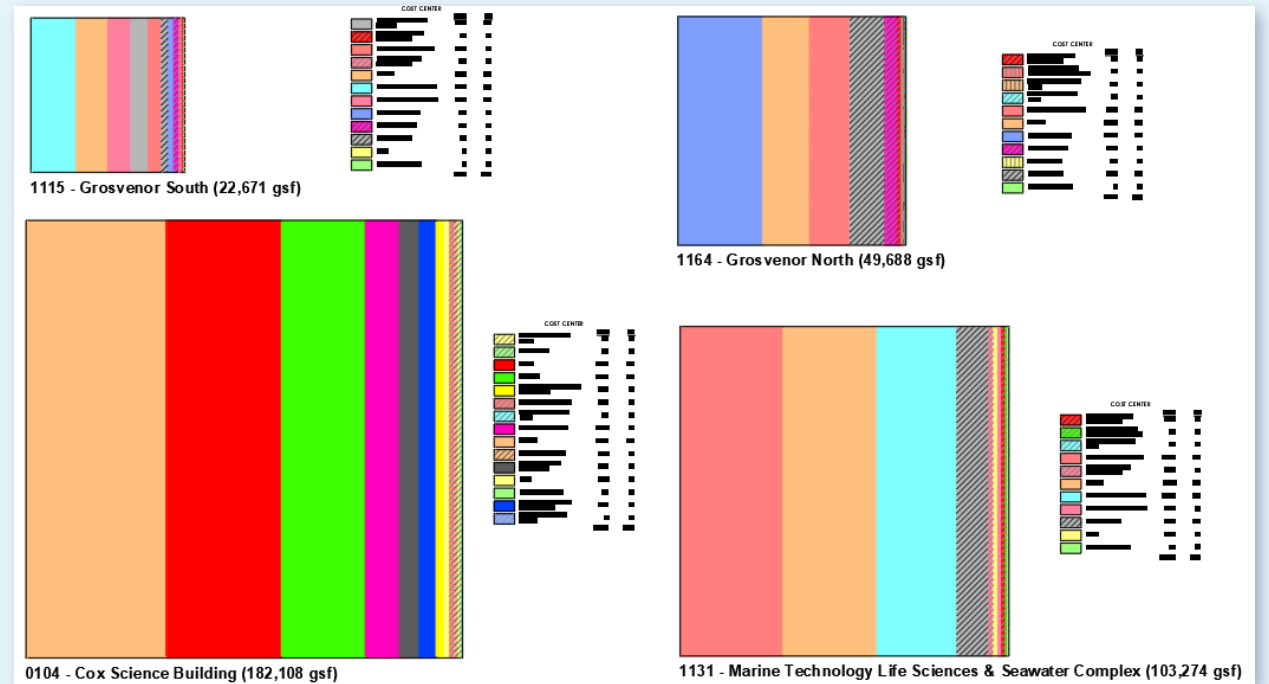
Composite Reporting: Telling the COMPLETE Story in Pictures



Building Square Diagrams

Telling the MACRO Story in Pictures

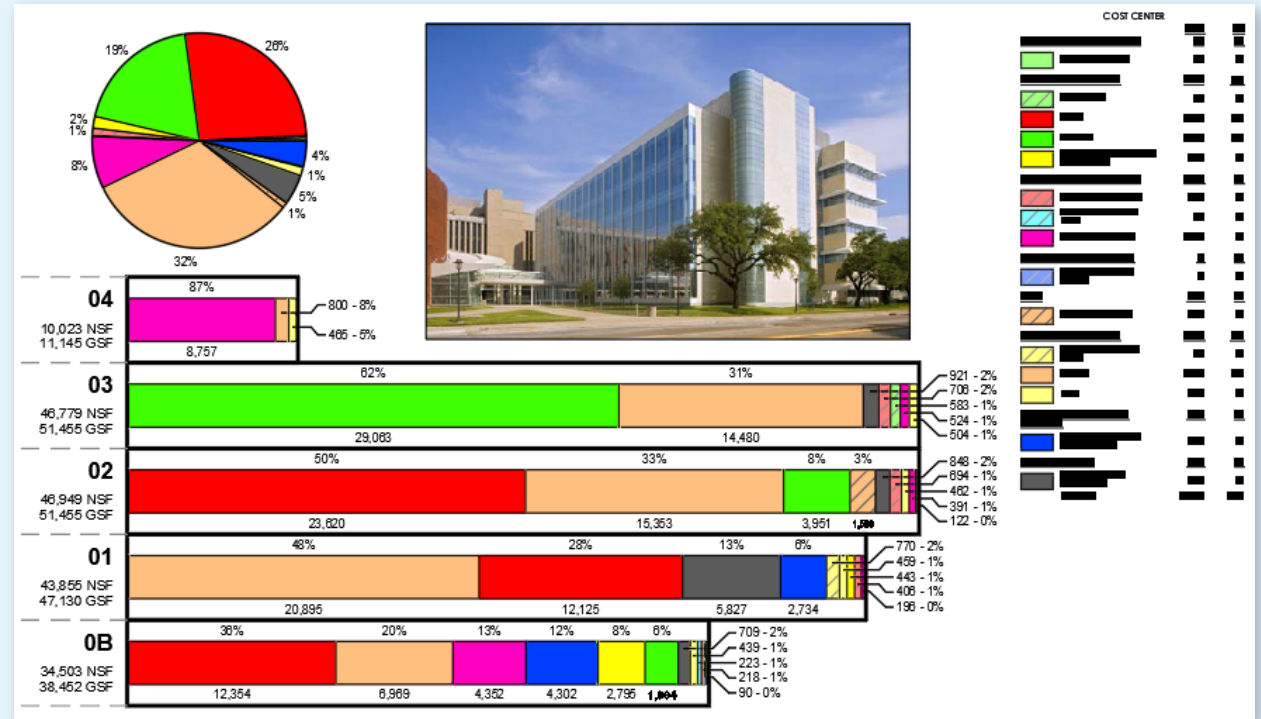
- Shows a very high-level macro view to compare buildings to each other
- Each “Square” is a Building that is sized proportional to the Gross Area of the Building
- Each Square is treated like a Bar Chart showing the reported Data
- Preparation:
 - One Template DWG
 - CFG settings applied according to the customer preferences



Building Stack Diagrams

Telling the MACRO Story in Pictures

- Shows a macro view of all Floors of a Building
- Each Floor is treated like a Bar Chart showing the reported data
- Supports hierarchical legends
- Added support for small “slivers” with Leaders
- Preparation:
 - One Stack DWG per Buildings (SFLSTACK)
 - CFG Settings



Live Demo Here...

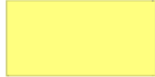


Stack & Square Diagrams: Telling the MACRO Story in Pictures

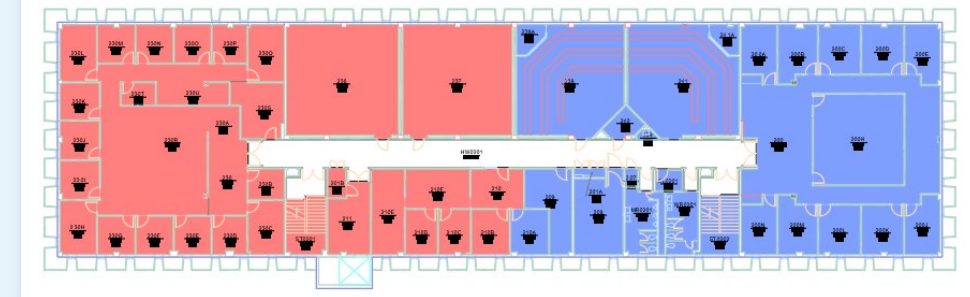
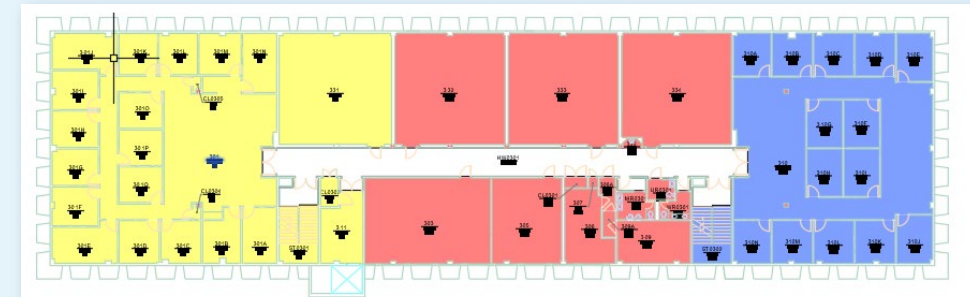


Planning Scenarios

Telling the FUTURE Story in Pictures

- Create Planning Scenarios (“what-if” scenarios) using easy point-and-click in AutoCAD
- Prepares high quality presentations to illustrate all options to the stakeholders
- Requires AutoCAD, but no drafting skills needed
- Prints the options as Thematic PDF and lists all scenario data in an Excel spreadsheet for further analysis
- Sold as a separate add-on module.
- Preparation:
 - No additional drawing preparation other than what is required for the WebTMA-CAD Base
 - Installation and Configuration of the module according to the customers preferences

DEPARTMENT			
		<u>AREA</u>	<u>QTY</u>
	Facilities Management	5,255	24
	Nursing	3,589	16
	School of Engineering	4,939	15
TOTAL:		13,783	55



Live Demo Here...

Planning Scenarios: Telling the FUTURE Story in Pictures



Product Roadmap

Additional Planned Development

- **Additional API Endpoints for Reporting** – As adoption of this module increases we will be responsive to customers requesting additional API endpoints for graphical floorplan reporting.
- **Embedded Floorplan Viewer** – Making views of floorplans visible and interactive directly from within WebTMA and eventually our mobile application.
- **Longer Term Roadmap** – Addressing Space Surveys, Wayfinding, and Move Management



Questions?



Thank You.

marketing@tmasystems.com | tmasystems.com

Appendix.