

Data.gov and the [World Bank](#) are joining forces to sponsor the second International Open Government Data Conference (IOGDC)

The IOGDC will gather policymakers, developers, and others with a keen interest in open government data to share lessons learned, stimulate new ideas, and demonstrate the power of democratizing data.

Track: The Art and Science of Data Visualization Presentation: "From Bio3d Data Model to rPlanet"

Bio 3d Data Model



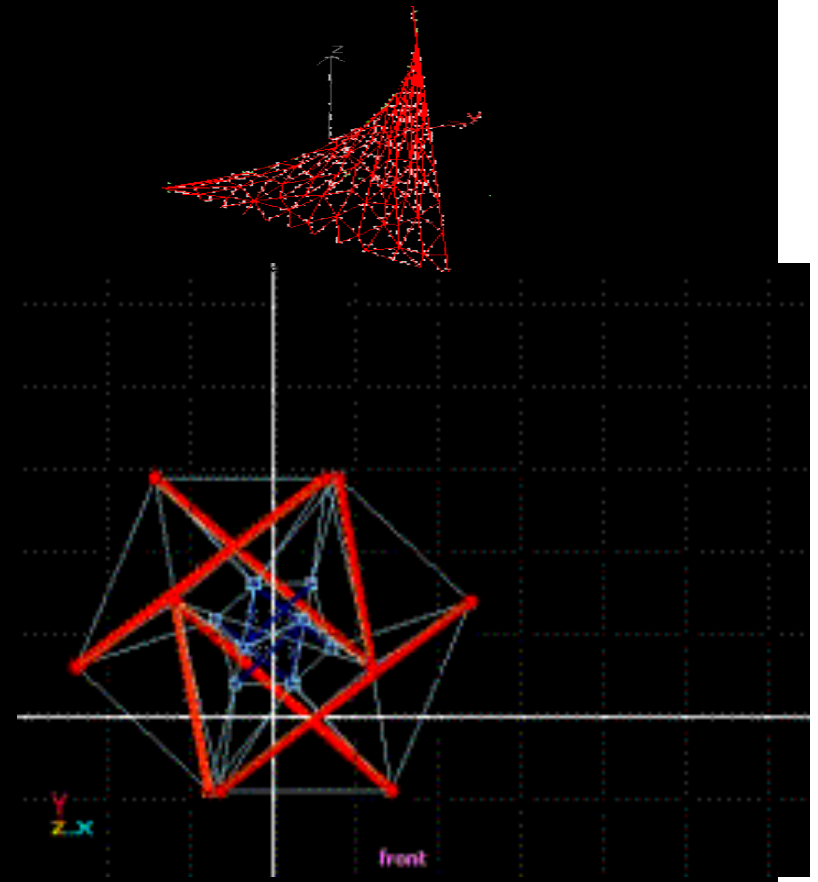
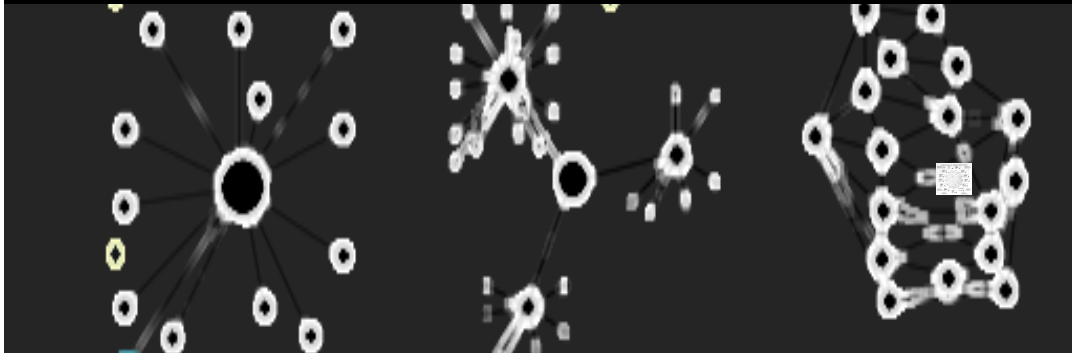
Marcela Oliva, Architecture Professor, Los Angeles Trade Technical College, (U.S.)

Michael Rendler AIA, Director e7 Architecture Studio (U.S.)

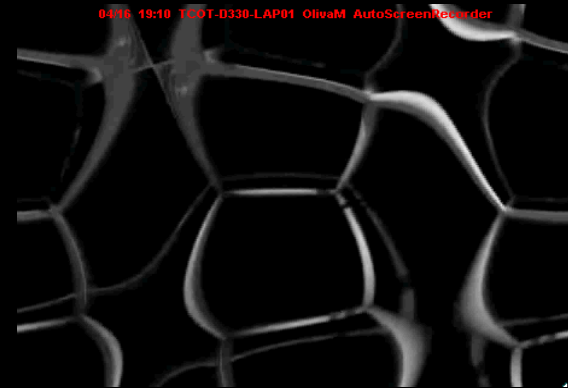
What is the Bio 3d Data MODEL?

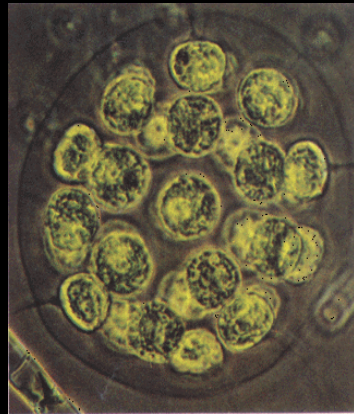
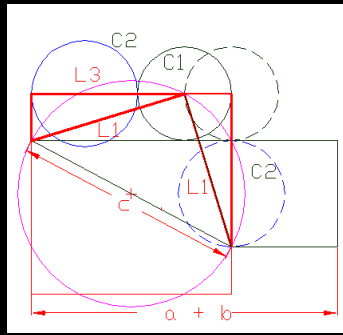
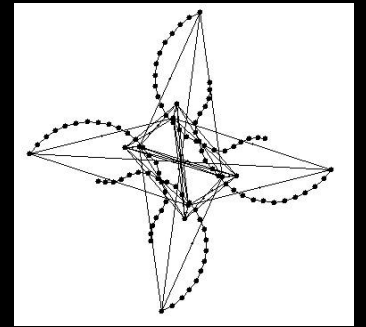
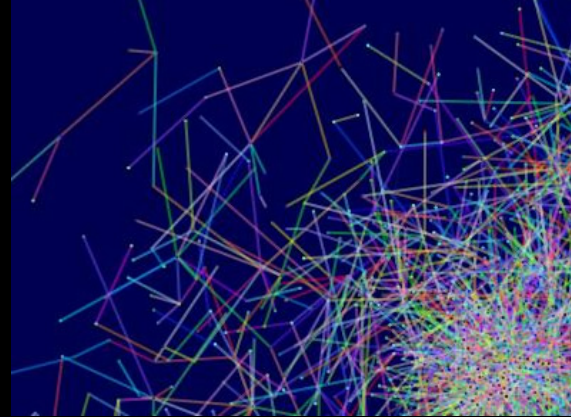
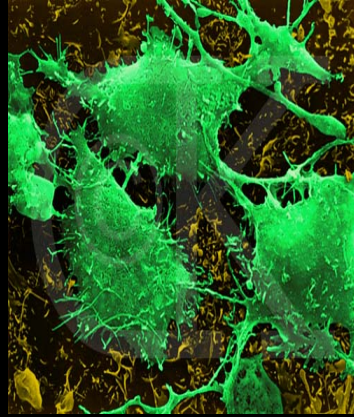
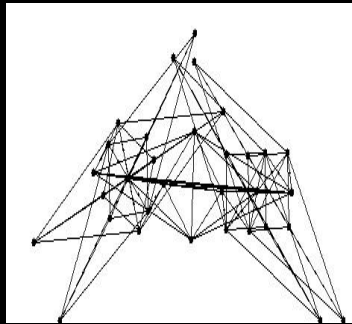
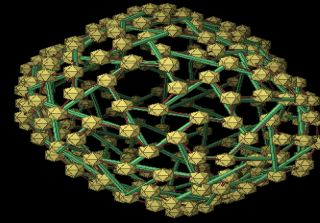
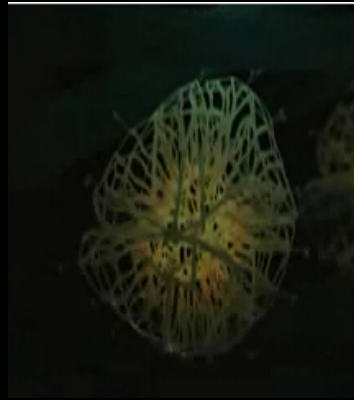
Bio 3d Data Model

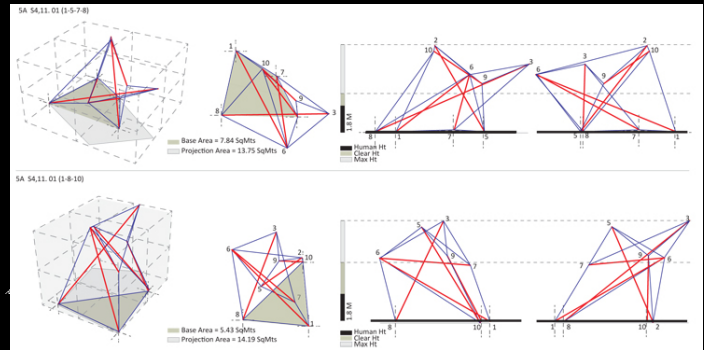
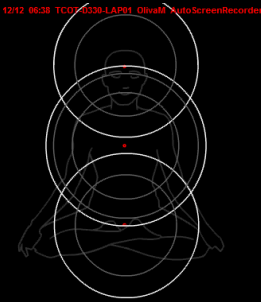
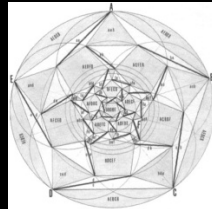
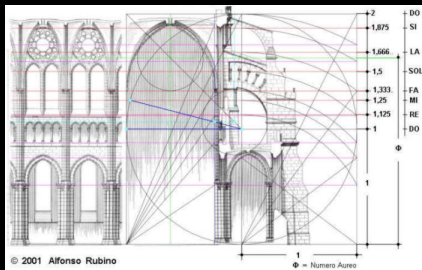
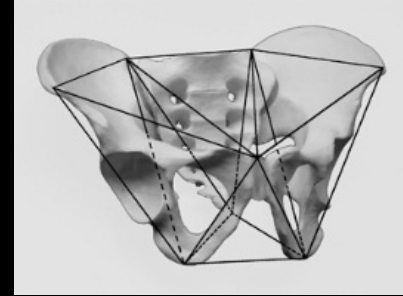
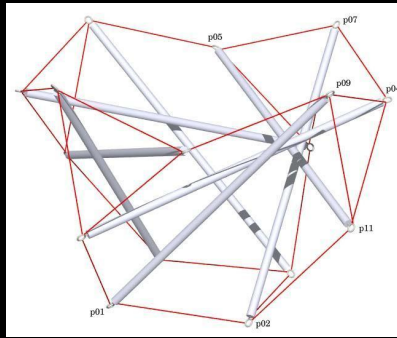
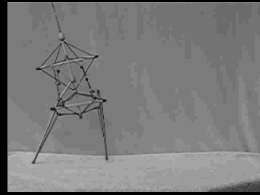
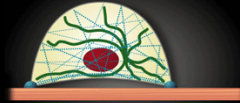
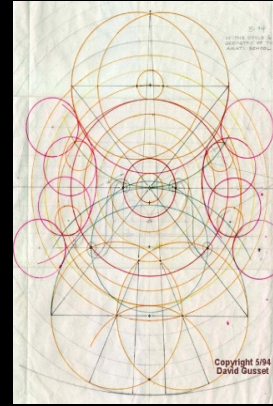
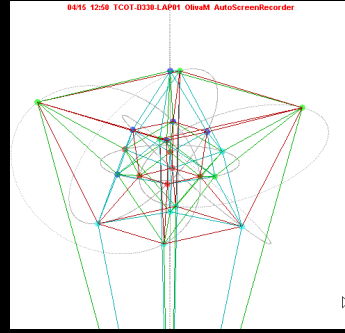
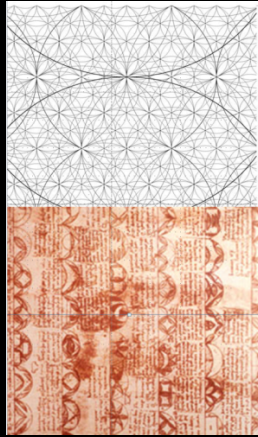
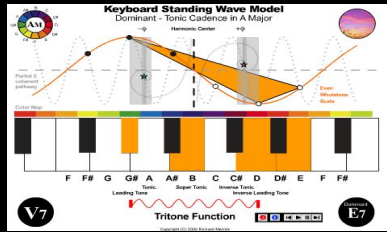




0476 19:10 TCOT-D330-LAP01 OlivaM AutoScreenPowder







Bio 3d Data Model



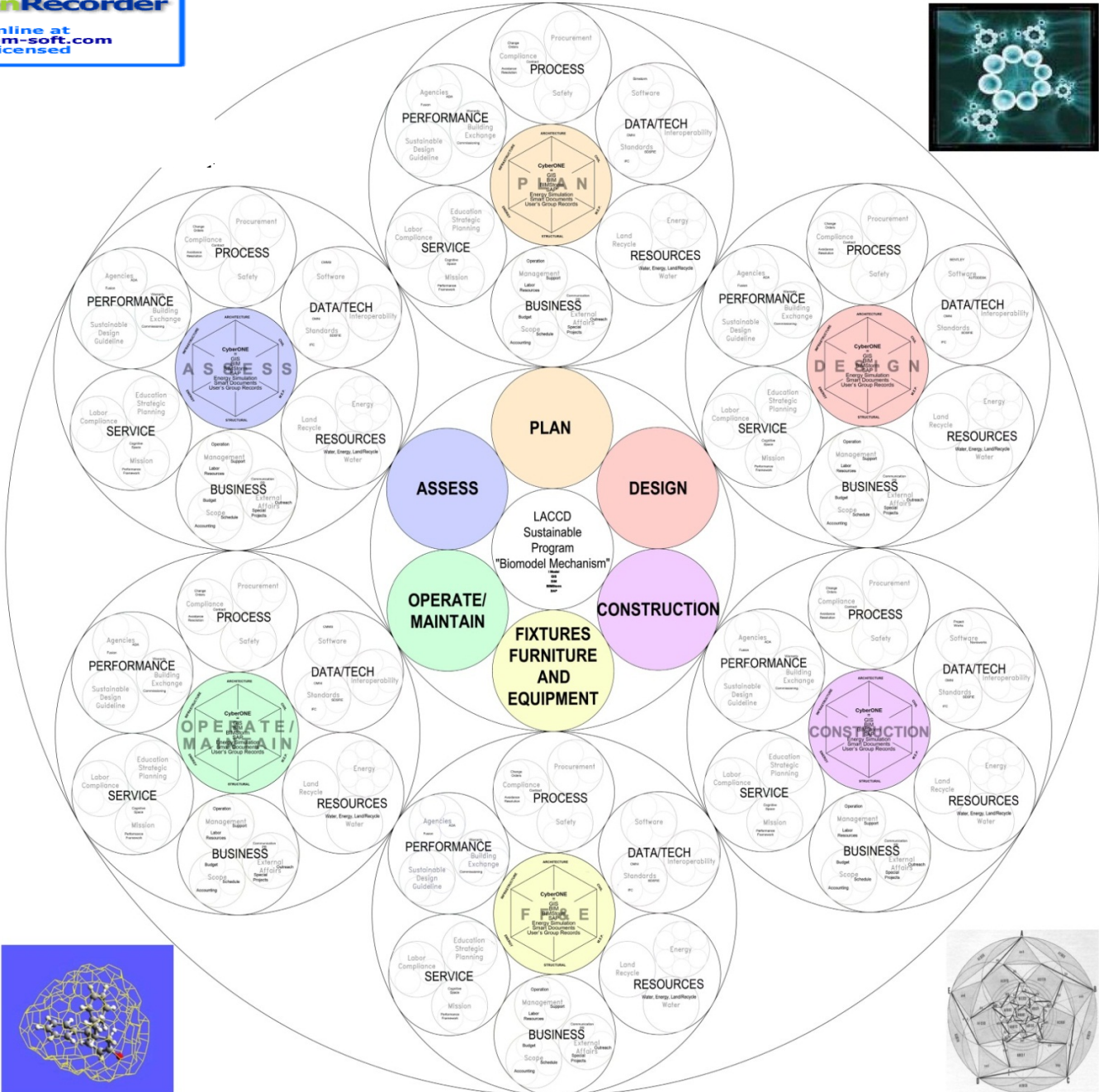
FOR

Life Cycle of Building/Campus/City
and
Federal Enterprise Architecture

innovation and collaboration. It is a strategy to improve performance, competitive advantage and continual improvement. The BioModel Mechanism facilitates sharing valuable insights, reducing redundant work, training time, retaining intellectual capital and adapting to changing environments of nature, education and economic demands.

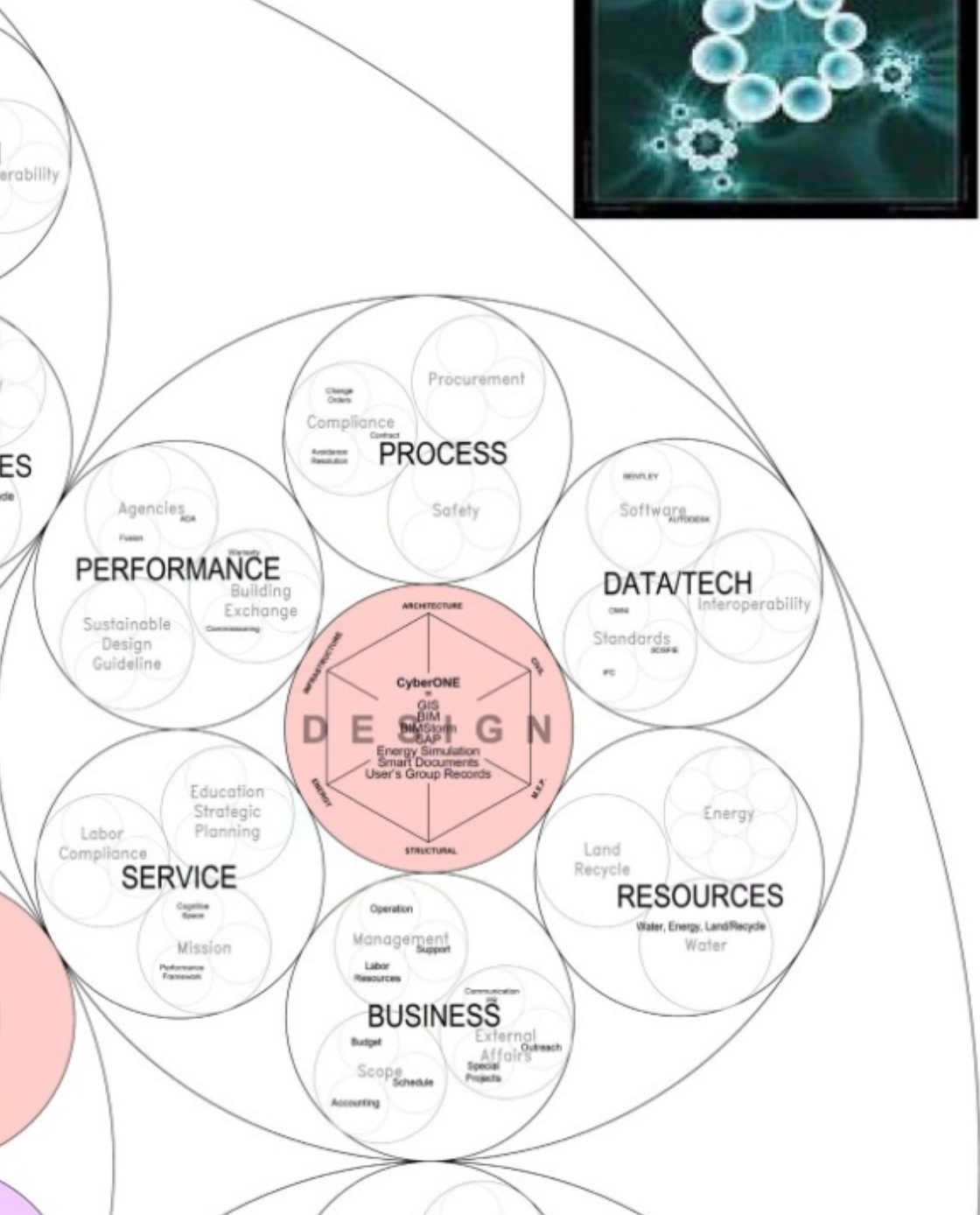
09/16 18:24 PRECISION50 Marcela AutoScreenRecorder

RECORDED BY
Wisdom
AutoScreenRecorder
 Shop online at
www.wisdom-soft.com
 to get licensed



LACCD BioModel Mechanism is an organizing logic of our operation and it works as an enterprise within a lifecycle.

LACCD BioModel Enterprise Mechanism:



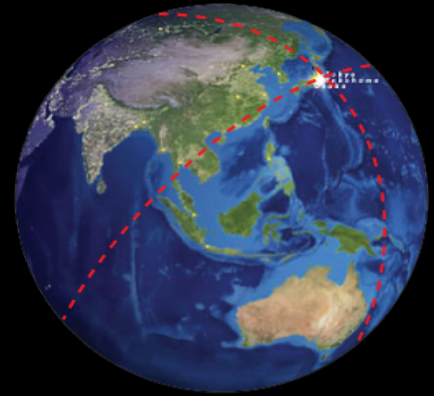
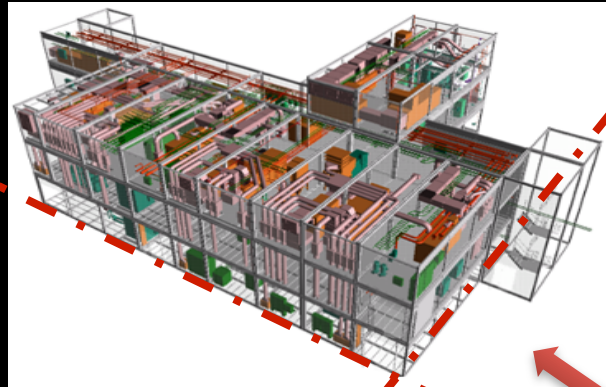
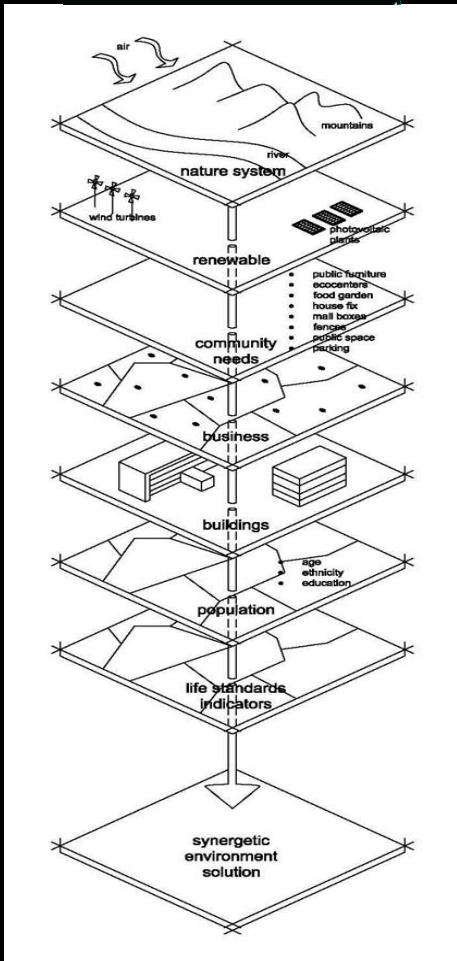
PROCEDURES Data Standards

- FEA
- IFC
- NIBS BIM
- SDSFEI
- OMNI
- COBIE
- GSA Energy Guidelines
- GSA O&M

Bio 3d Data Model



For Visualization



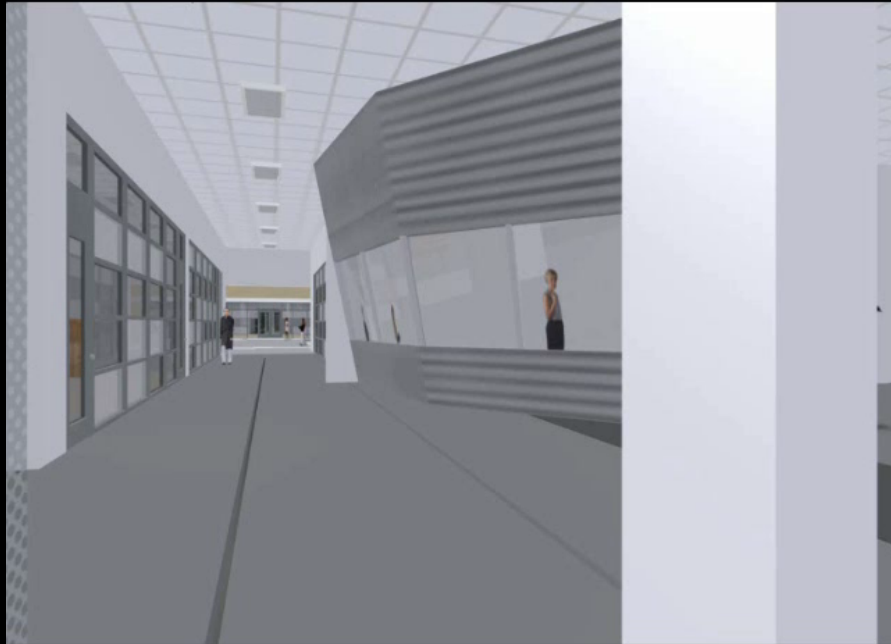
X

Y

Microsoft Excel

Computer Information Systems

	A	B	C	D	E
21	095210	C	T	Carpentry	Carpentry
22	095212	C	T	Carpentry - Adjunct	Carpentry
23	095211	AA	T	Carpentry - Adjunct - Plan A	Carpentry
24	130519	AA	T	Child Development - Plan A	Child Development
25	130511	AA	T	Child Development - Plan B	Child Development
26	130512	C	T	Preschool Teacher Option	Child Development
27	130513	C	T	Teacher	Child Development
28	101301	AA	T	Sign Graphics	Commercial Art
29	101301	C	T	Sign Graphics	Commercial Art
30	101300	AA	T	Visual Communications	Commercial Art
31	101300	C	T	Visual Communications	Commercial Art
32	101220	AA	T	Photography	Commercial Photography
33	101220	C	T	Photography	Commercial Photography
34	070100	AS	T	Computer Information Systems	Computer and Information Science, General
35	070100	C	T	Computer Information Systems	Computer and Information Science, General
36	300700	AA	T	Cosmetology	Cosmetology
37	300701	C	T	Cosmetology	Cosmetology
38	130632	AA	T	Baking Professional	Culinary Arts
39	130632	C	T	Baking Professional	Culinary Arts
40	130630	AA	T	Culinary Arts	Culinary Arts
41	130630	C	T	Culinary Arts	Culinary Arts
42	084700	AS	T	Diesel and Hybrid Technology	Diesel Technology
43	084700	C	T	Diesel and Hybrid Technology	Diesel Technology
44	084701	C	T	Diesel and Hybrid Technology - Adjunct	Diesel Technology
45	095225	C	T	Electrical Cable Splicer Apprenticeship	Electrical
46	095222	C	T	Electrical Construction & Maint Construction Tech	Electrical
47	095224	AA	T	Electrical Construction & Maint Construction Tech	Electrical
48	095221	AS	T	Electrical Construction and Maintenance	Electrical
49	095221	C	T	Electrical Construction and Maintenance	Electrical
50	095226	C	T	Electrical Lineman Apprenticeship	Electrical
51	093401	AS	T	Electronic Communications	Electronic and Electric Technology
52	093401	C	T	Electronic Communications	Electronic and Electric Technology
53	093401	C	T	Electronic Communications	Electronic and Electric Technology



Bio 3d Data Model



For

Operation and Maintenance

GIS Portal

Logged in as: anon

- ports
- osting
- p
- neral Links
- CCD Maps
- Campuses Map
- ELAC Map
- LACC Map
- LAHC Map
- LAHC Central Plant Map
- LAMC Map
- LAPC Map
- LASC Map
- LATTC Map
- LAVC Map
- LAVC Central Plant Map
- WLAC Map

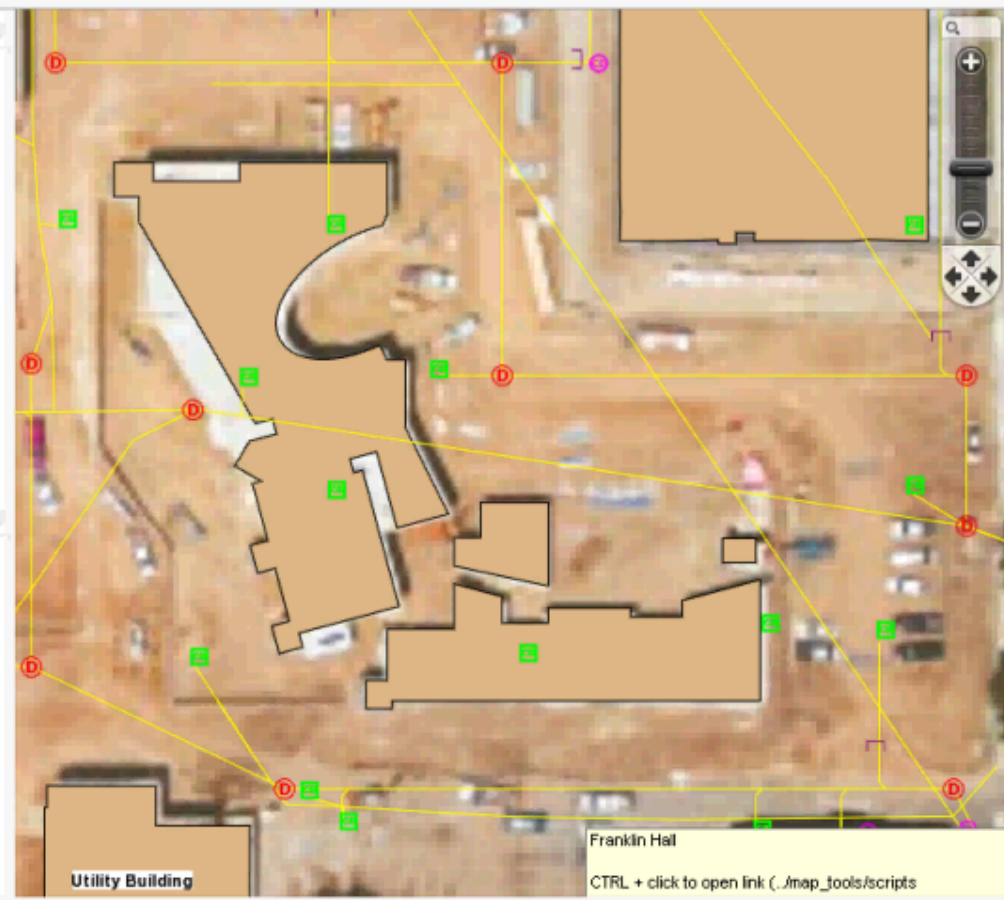
Welcome to e7 GIS LACC Map

Print Zoom Search Tasks Test

- Layers
- LOS ANGELES CITY COLLEGE
 - Buildings
 - Cadastre
 - Common
 - Flora
 - Improvement
 - Transportation
 - Utilities
 - utilities_natural_gas_system
 - utilities_storm_system
 - storm_sewer_fitting_point
 - storm_sewer_inlet_point
 - storm_sewer_junction_point
 - storm_sewer_line
 - utilities_wastewater_system
 - utilities_water_system

Properties

None Selected



Project Menu

Projects

Select a project...

Utilities

- Inventory Browser
- As-Built Browser

Search Tools

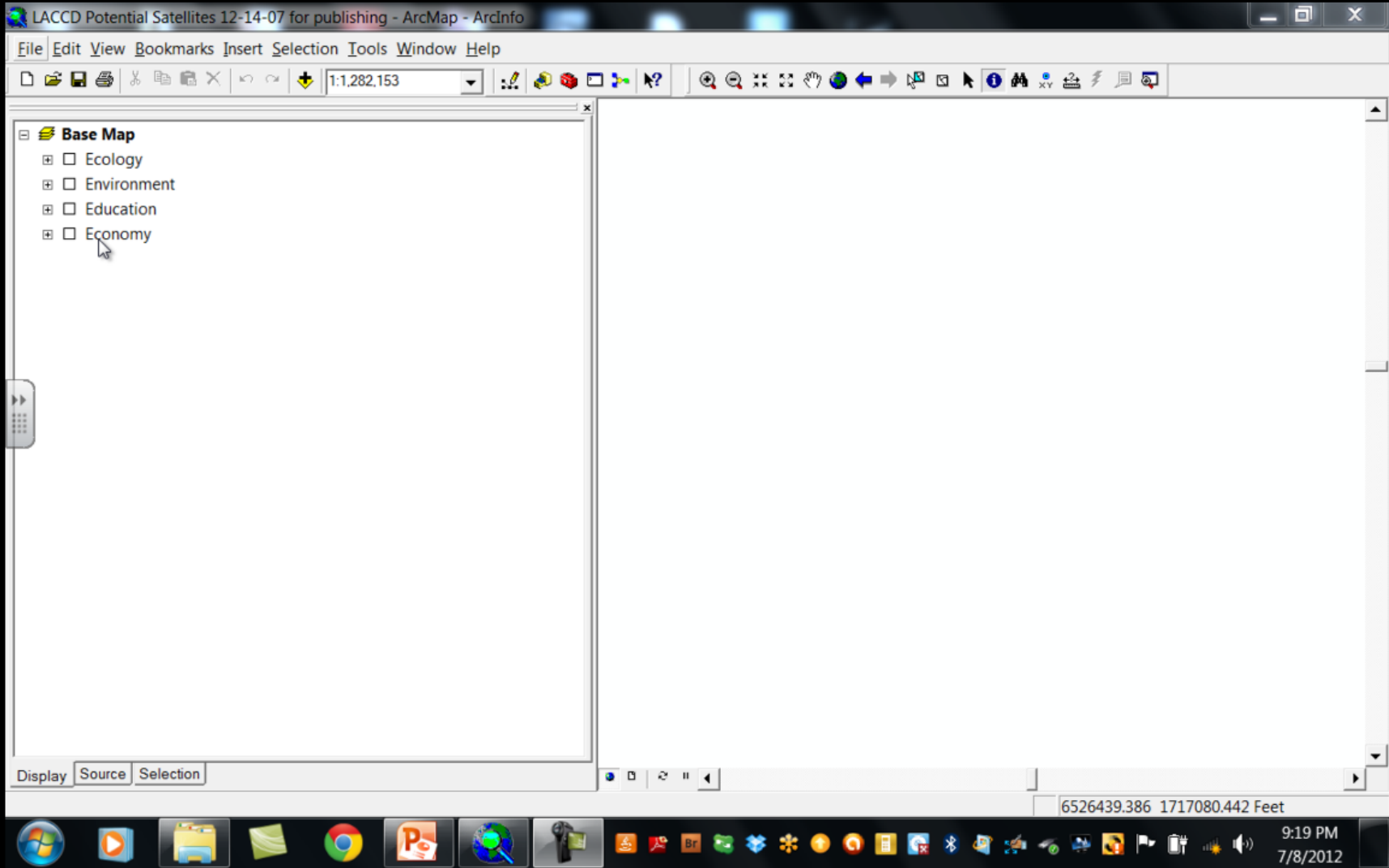
Basic OmniClass SOSFIE

X: 6,473,245.35 Y: 1,854,360.81 (ft) 0 feature selected 1: 665.14 381.65 x 340.65 (ft) Powered by MapGuide

Bio 3d Data Model



For Community College Service

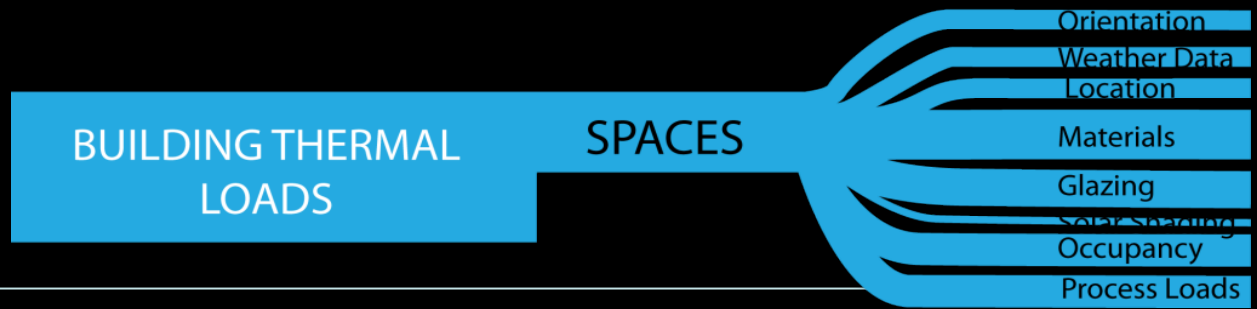


Bio 3d Data Model

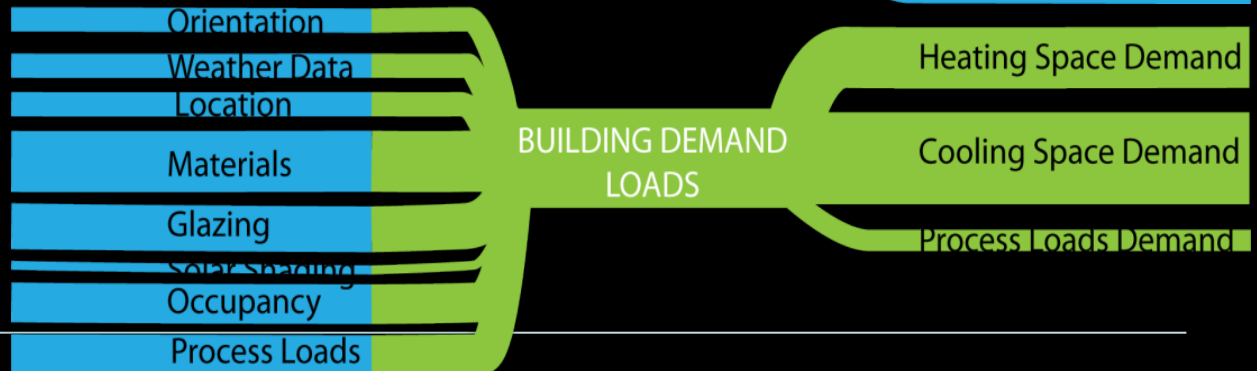


For
Energy

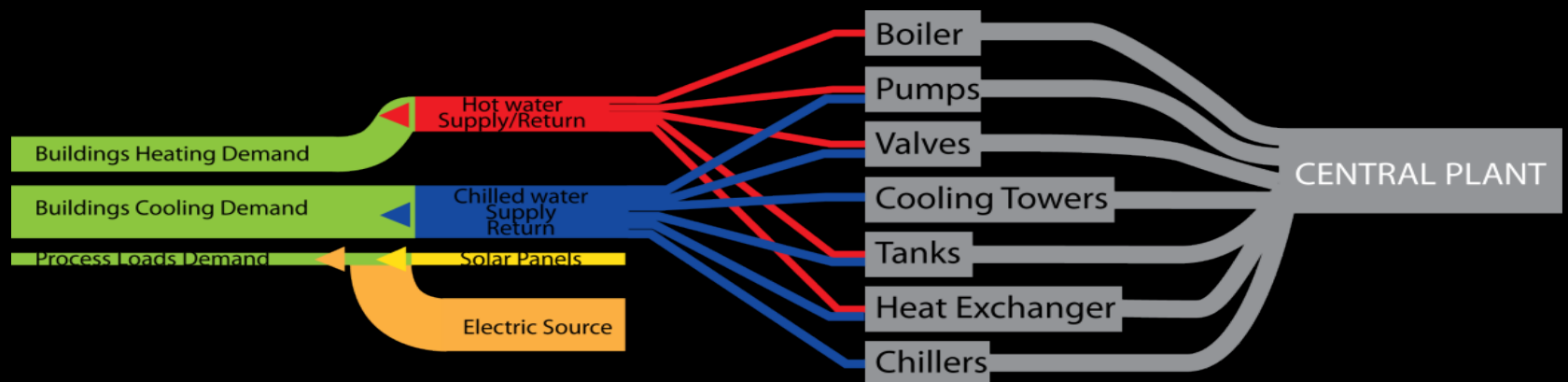
☐ Thermal Loads:



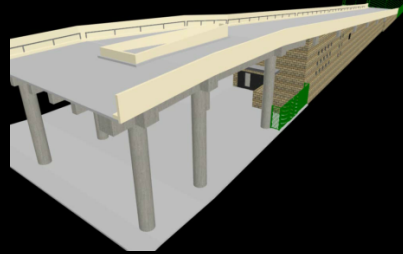
☐ Demand Loads:

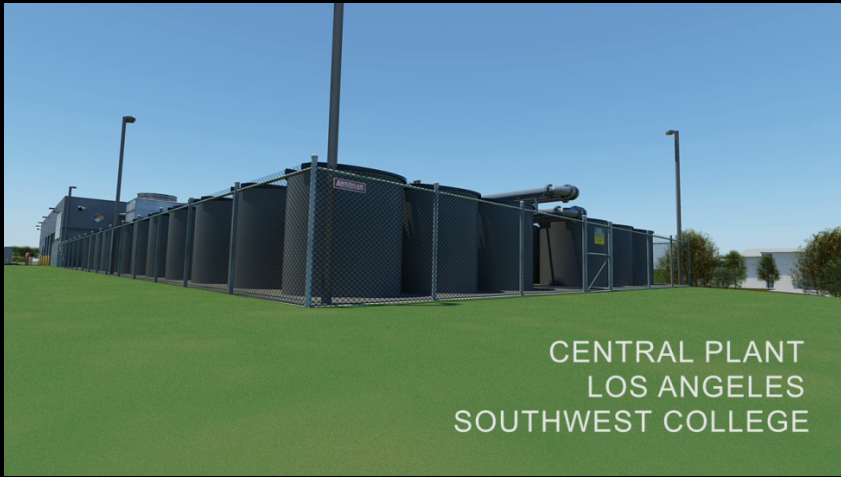


☐ Central Plant



LATTC - PARKING F RAMP
MECHANICAL (HVAC) MODEL

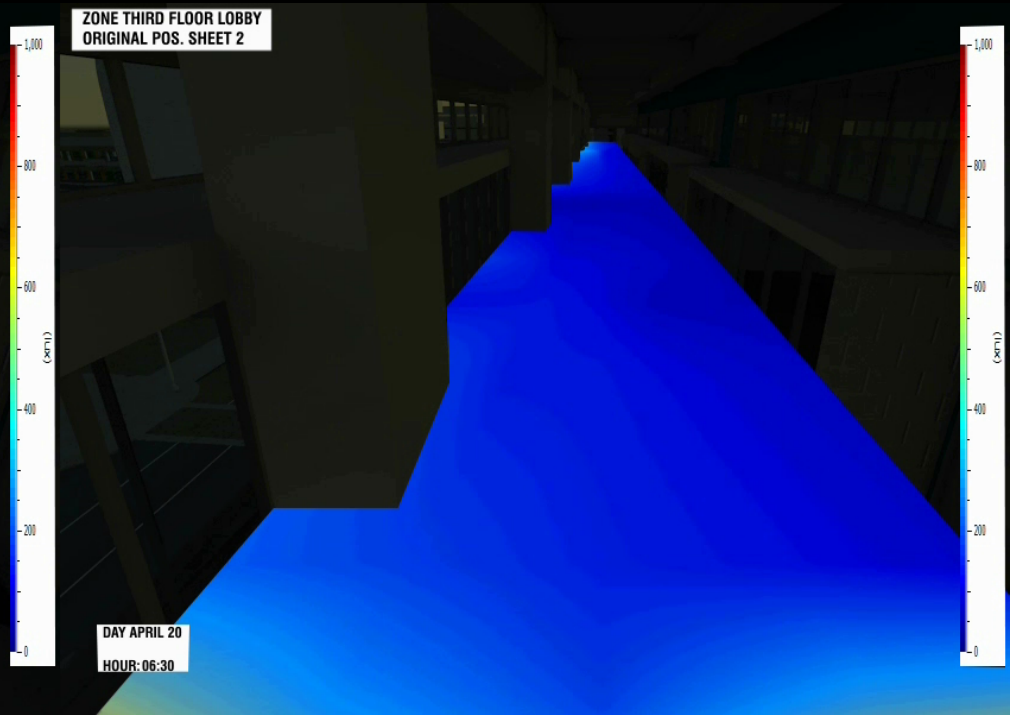




ZONE THIRD FLOOR LOBBY



ZONE THIRD FLOOR LOBBY
ORIGINAL POS. SHEET 2



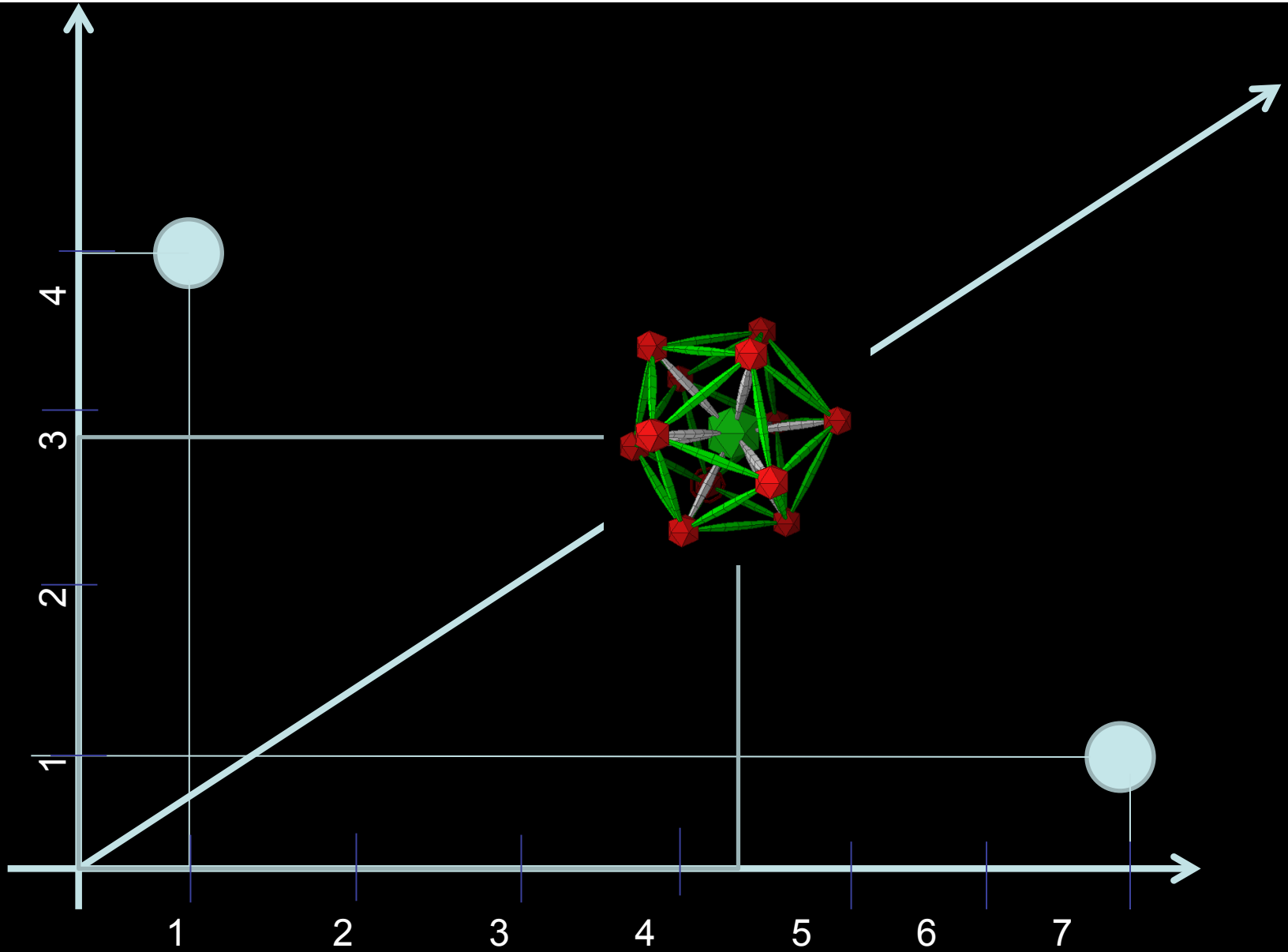
Bio 3d Data Model



For
Knowledge Worker

EDUCATION

Interdependent Environments, Occupation Needs, Academic and Vocational Standards



STUDENTS

Multiple Backgrounds, Experiences, Modalities of Learning and Different Intelligences

Bio 3d Data Model



TO r PLANET

Integrate all participants and stake holders

Interdependent environments –natural, ecological, human made

Innovate solutions for local needs in a global market

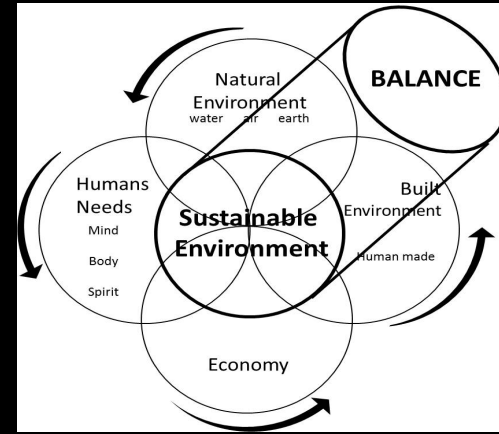
Intelligent solutions with self organizing systems

Interoperable spatial data

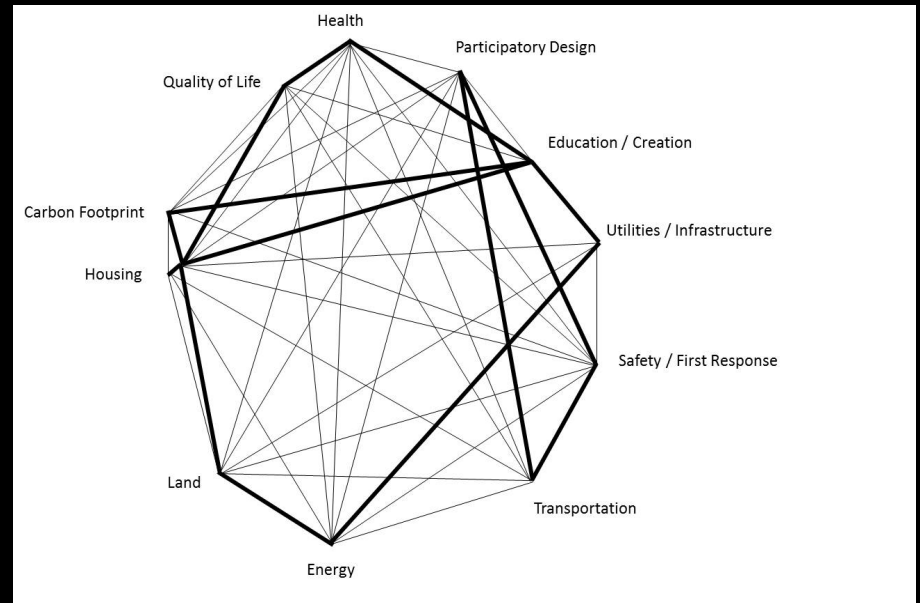
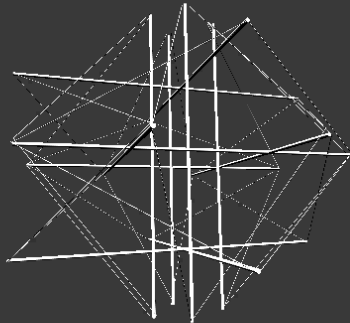
Interactive and real time education –skills, knowledge, talent

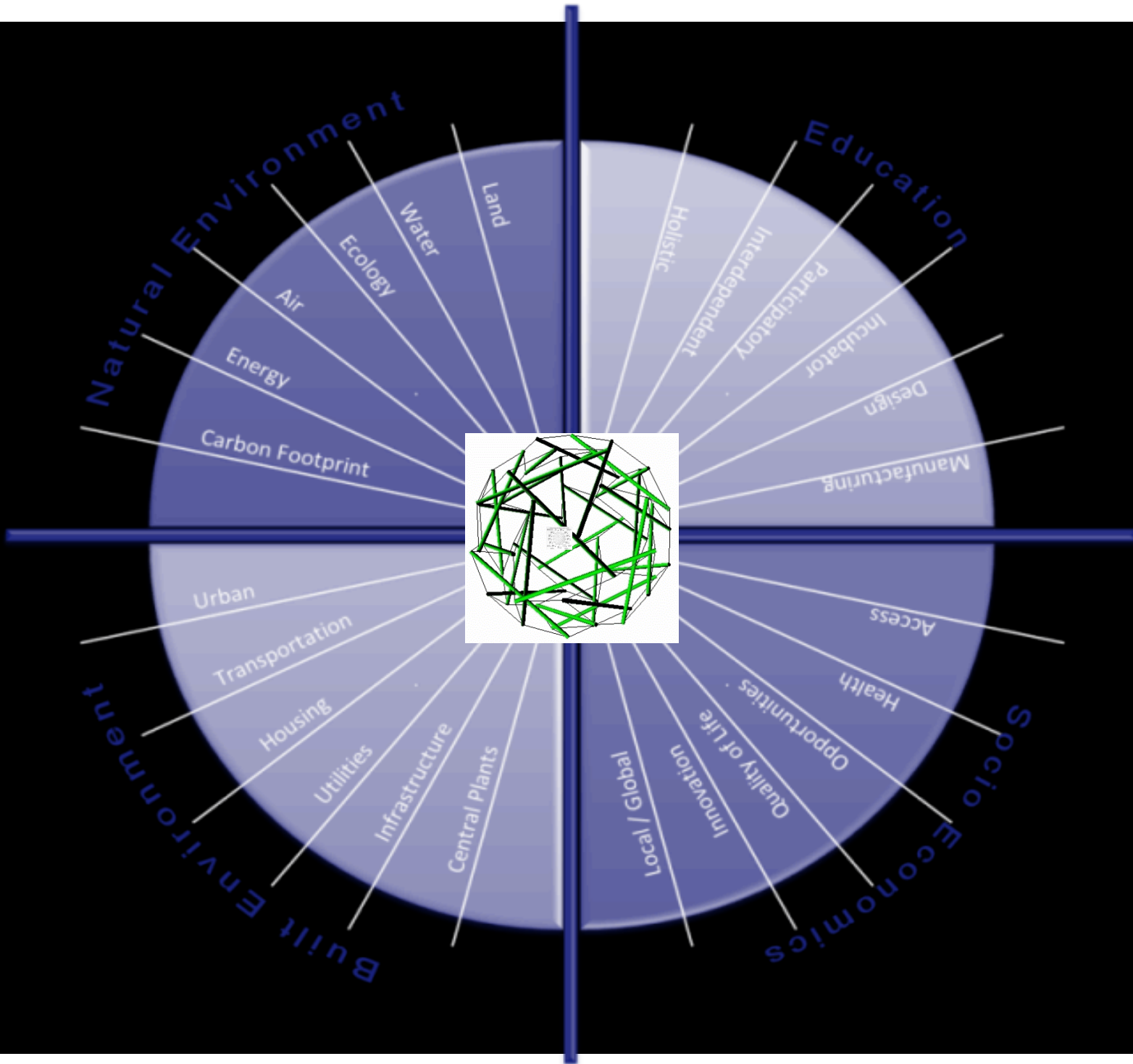
Information becomes knowledge and application

Improve life styles with catalytic rapid prototype and construction



[+] [Camera001] [Smooth + Highlights]

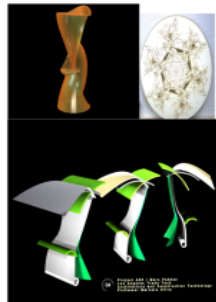




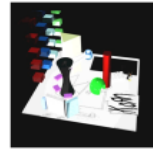
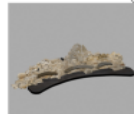
Produce Create Make



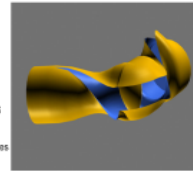
GREEN SOLUTIONS
New Energy Alternatives



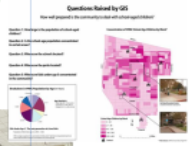
Produce Create Make



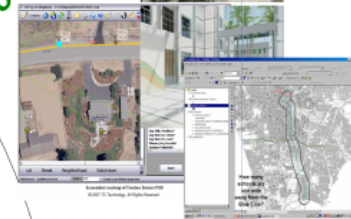
GREEN OBJECTS
Chairs
Tables
Play ground Structures
Virtual Games



Produce Create Make

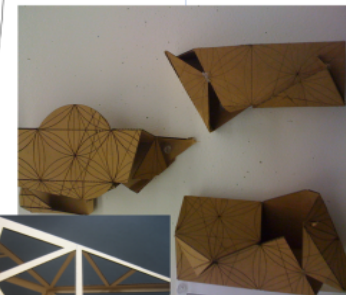


Building Energy Performance



BUILT ENVIRONMENT ANALYSIS

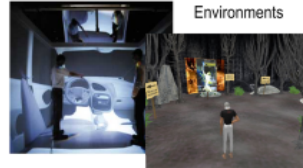
Produce Create Make



GREEN HOUSES and URBAN SPACES



is Immersive Educational Environments

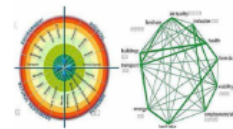


is

Teleconference center
Create courses facilities near your house
All resources available
Be at one place and virtually in another College



Integrated System Solution
Knowledge Architecture



is



C.A.S.A. Complex Adaptive System Architecture and Spatial Knowledge NADA Knowledge Architecture

is



PERSONAL FABRICATION

is



GREEN EXHIBITS
PRODUCTS SOLUTIONS
AND LIFE STYLE



GREEN PROJECTS WITH CTE STANDARDS INTERDISCIPLINARY CURRICULUM USING NATURE PATTERNS TO CREATE

is

Innovation
Identify Opportunities
Use Local Talent
Solve Local Problems
Provide Solutions to Existing System
Environmental
Incentives
Applied Research
Energy Tools

Each community can design and build for their own needs. Schools, businesses, growing gardens, playground, clinics, library reading centers, sustainable prefabricated buildings, furniture, jewelry, etc. etc. Each community can design and build with the support of the community colleges intellectual and practical infrastructure, cultural spaces, meeting halls, growing food areas, art, sculptures, sidewalk etc. etc.

Bio 3d Data Model



olivam@lattc.edu

Michael.rendler@e7studio.net