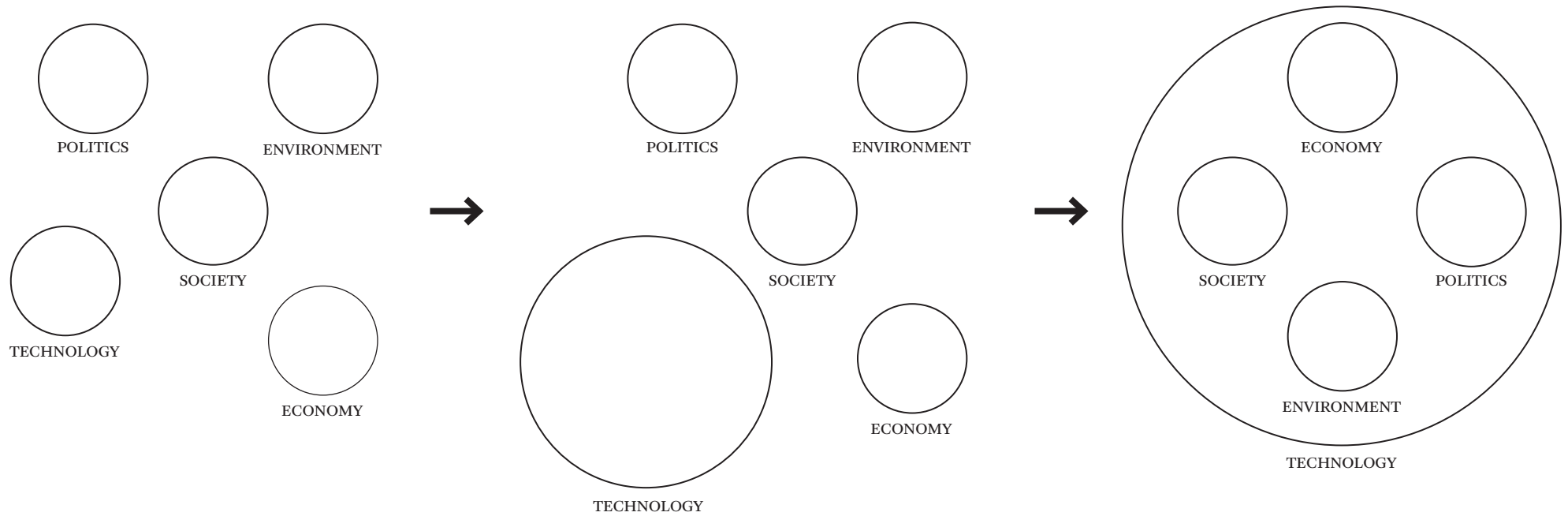
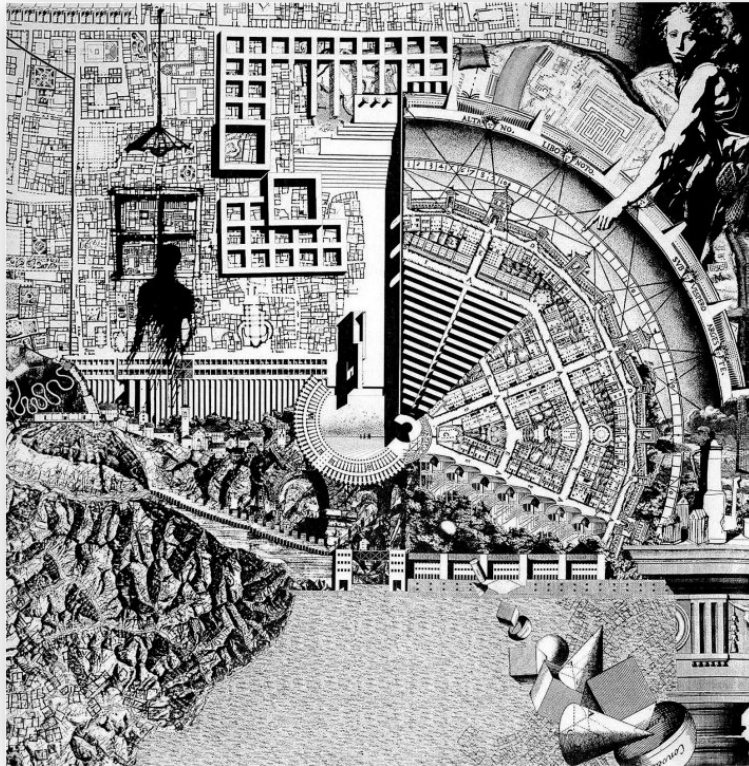


THE TECHNOLOGIC COMMAND.

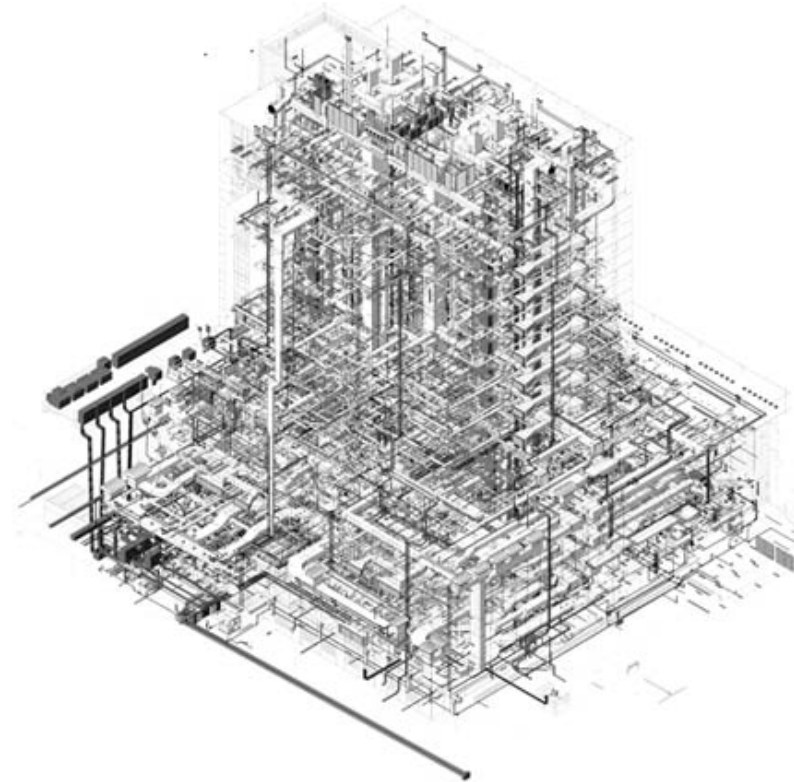
THE DEMOLITION IS INSIDE THE BUILDING ITSELF,
BECOMING AN AUTOPLASTIC MOMENT,
THE PARADIGM IS THE DIGITAL ARCHITECTURE.



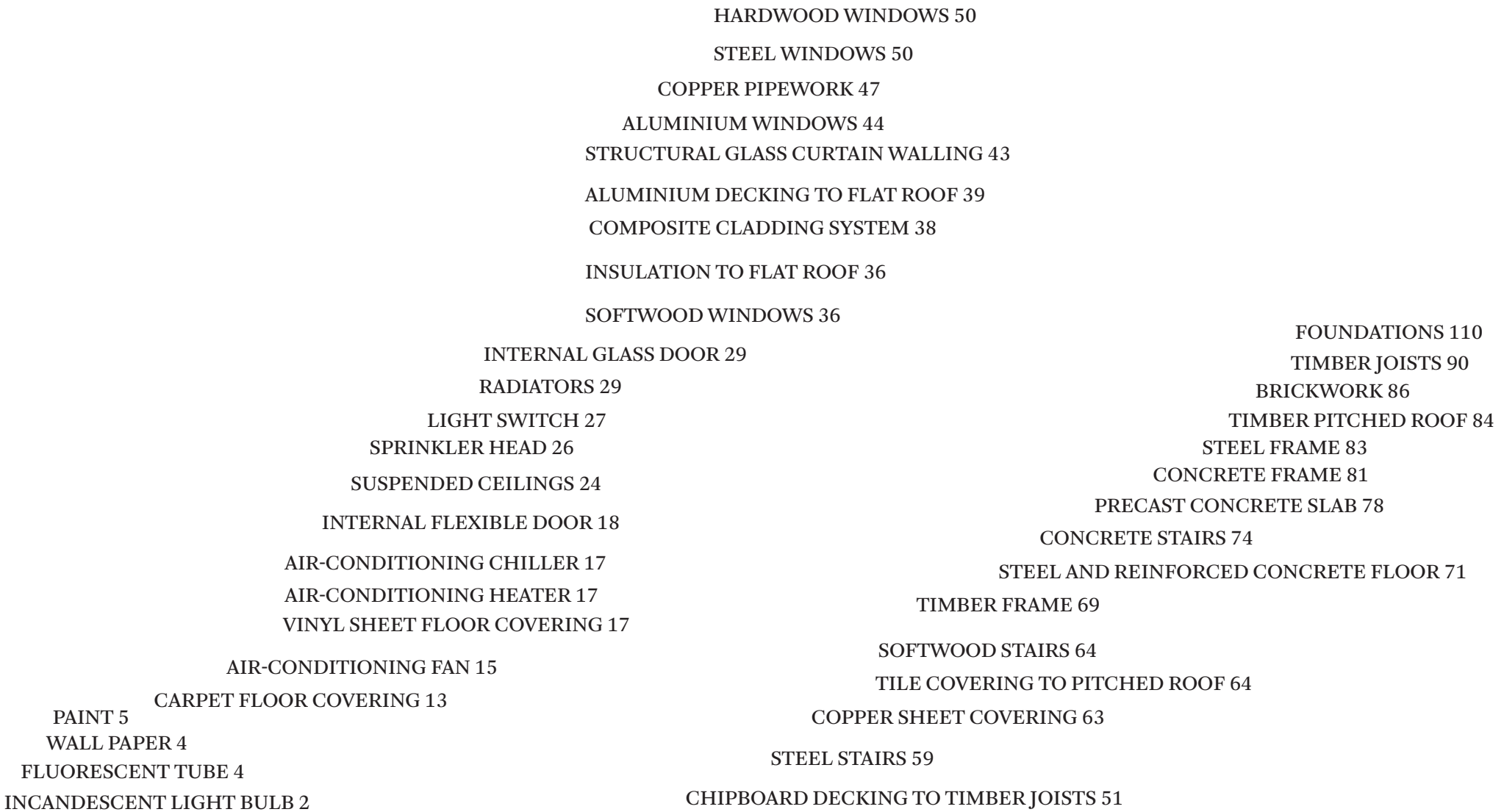
Technology as the dominant force in the contemporary context as stated by Agamben



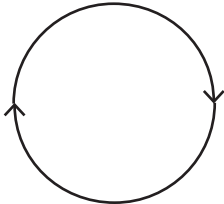
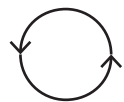
Alloplastic Demolition
in the τέχνη Age:
demolition as creative usage

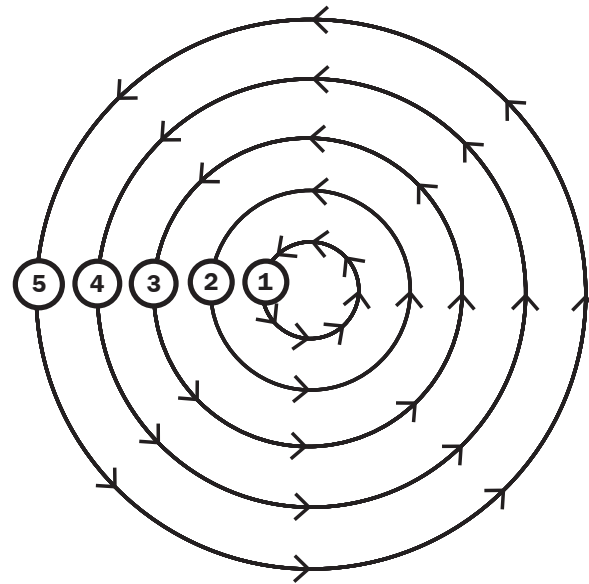


Autoplastic Demolition
in the Technology Age:
demolition as command



Technology enters the building
Assemblage of failures

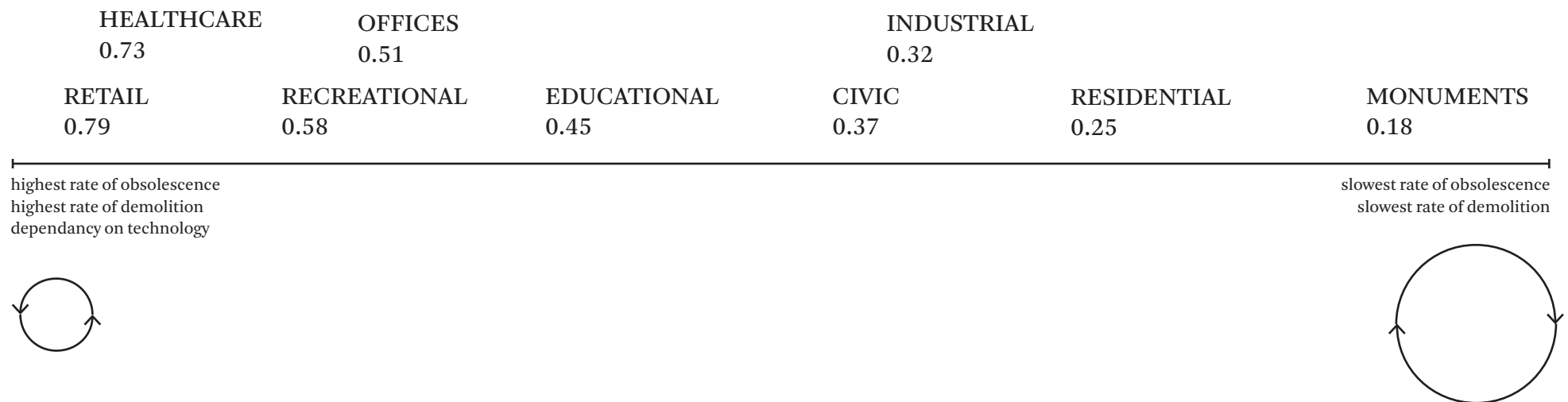




- (1) Objects
- (2) Plan
- (3) Services
- (4) Skin
- (5) Structure

A building can be understood as a assemblage of systems with various rate of technological obsolescence.

Source: Stewart Brand, How Buildings Learn.



**Demolition follows the typologies
dependance on technologies.**

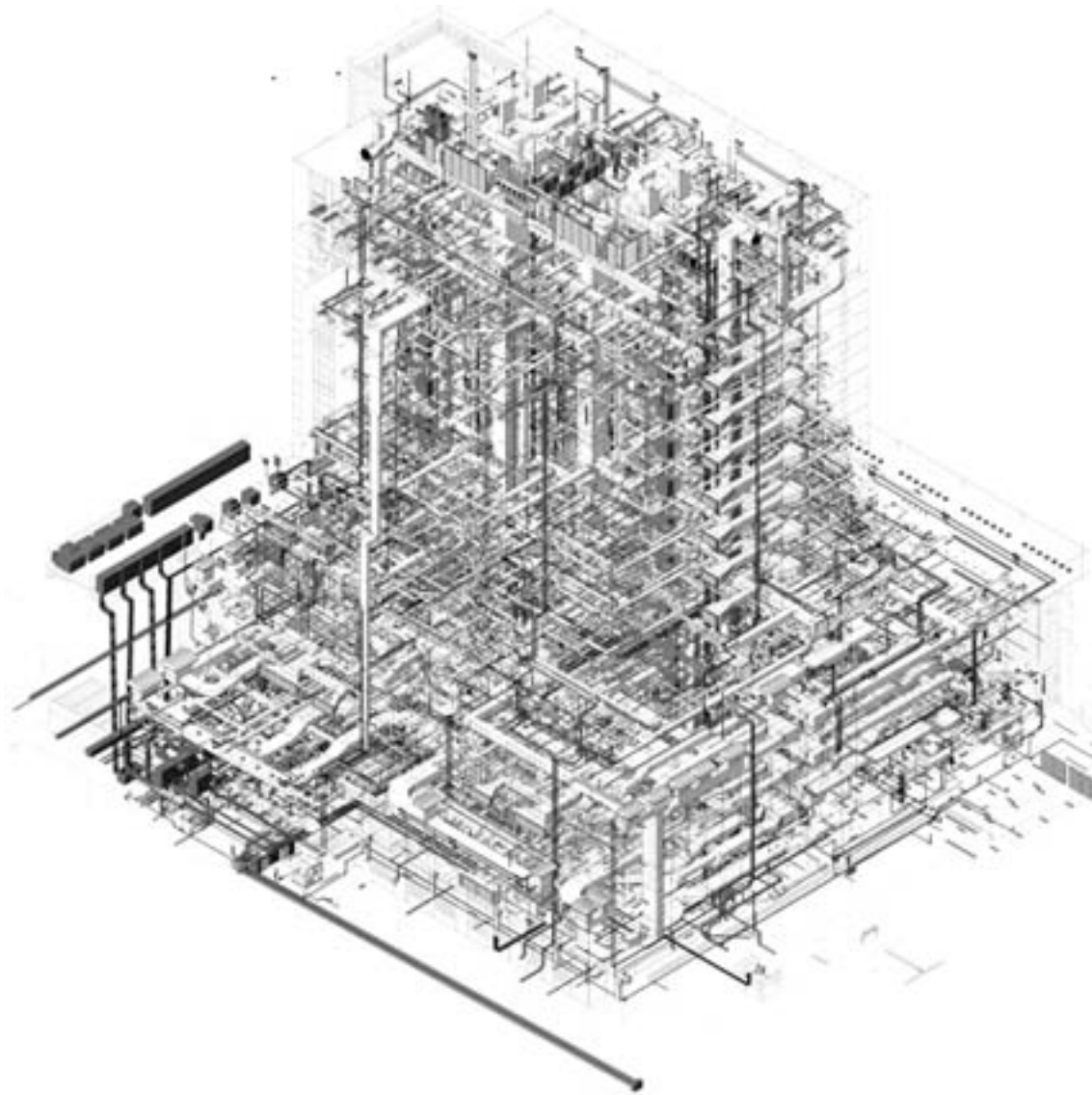
ON ARCHETYPES AND BUILDING ADAPTIVE REUSE

Professor Craig Langston, School of Sustainable Development, Bond University, Gold Coast

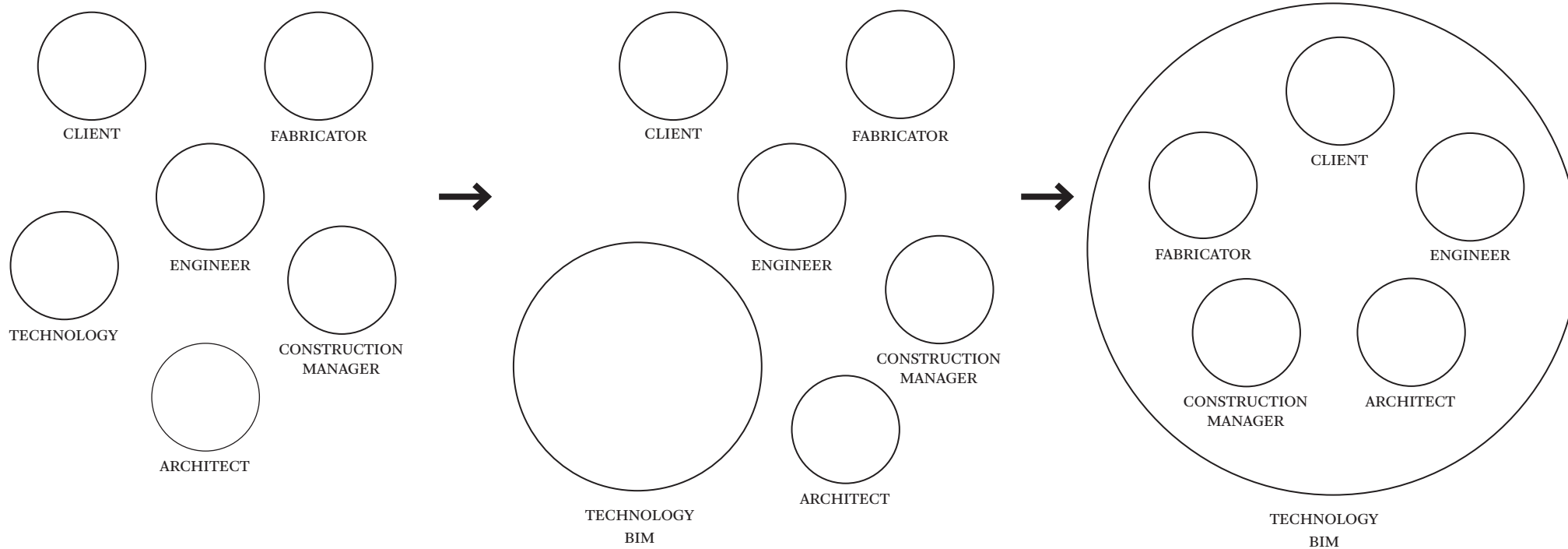
<p> Brookdale Mall: Cedar Rapids, IA Kansas (Please note: The Kansas City Metro encompasses both Kansas and Missouri) Hutchinson Mall: Hutchinson, KS Mid-State Mall: Salina, KS Mission Center / Mission Center Mall: KC Metro (Mission, KS) Newton Factory Outlet Mall: Newton, KS Riverfront Outlet Mall: Lawrence, KS The Mall: Hays, KS Metcalf South Shopping Center: Overland Park, KS (KC Metro) Kentucky Kyova Mall: Ashland, KY Lexington Mall: Lexington, KY Lincoln Mall: Owensboro, KY Turfline Mall: Lexington, KY Western Kentucky Factory Outlet Center: Eddyville, KY Louisiana Belle Promenade: Marrero (New Orleans), LA Bon Marche Mall: Baton Rouge, LA Cortana Mall: Baton Rouge, LA New Orleans Centre: New Orleans, LA Oakwood Mall: New Orleans, LA The Plaza at Lake Forest: New Orleans, LA South Park Mall: Shreveport, LA Twin City Mall: Monroe, LA Maine Auburn Mall: Auburn, ME Maryland Andrews Outlet Mall: Morningside (near Andrews AFB), MD Capital Plaza Mall: Landover, MD Chatham Mall: Ellicott City, MD Carrolltowne Mall / Center: Eldersburg, MD Frederick Towne Mall: Frederick, MD Golden Ring Mall: Rosedale, MD Harundale Mall: Glen Burnie, MD Hunt Valley Mall: Baltimore, MD Landover Mall: Landover (near D.C.), MD Laurel Mall: Laurel, MD Owings Mills Mall: Baltimore, MD Rockville Mall: Rockville, MD Massachusetts Assembly Square Mall: Somerville, MA Baystate West / Tower Square: Springfield, MA Dedham Mall: Dedham, MA Fairfield Mall: Chicopee, MA Hampshire Mall: Hadley, MA Mountain Farms Mall: Hadley, MA Methuen Mall: Methuen/Lawrence, MA New Harbour Mall: Fall River, MA Shoppers World: Framingham / Natick, MA Swansea Mall: Swansea, MA Worcester Common Outlets / Worcester Fashion Outlets: Worcester, MA Michigan Cherryland Mall: Traverse City, MI Copper Country Mall: Houghton, MI </p>	<p> Hampton Square Mall / Hampton Towne Center: Essexville, MI Livonia Mall: Livonia (Detroit), MI Maple Hill Mall: Kalamazoo, MI Marquette Mall: Marquette, MI Northland Center Mall: Southfield (Detroit), MI North Kent Mall: Grand Rapids, MI Summit Place Mall / Pontiac Mall: Waterford, MI The Orchards Mall: Benton Harbor, MI Universal Mall / Universal City: Warren, MI Wonderland Mall: Livonia (Detroit), MI Minnesota Apache Plaza: St Anthony Village (Minneapolis), MN Brookdale Mall: Brooklyn Center, MN The Conservatory: Minneapolis, MN Bandana Square: St Paul, MN Knollwood Mall: St Louis Park, MN Westridge Mall: Fergus Falls, MN Mississippi Jackson Mall: Jackson, MS Metro Center: Jackson, MS Sawmill Square Mall: Laurel, MS Singing River Mall: Gautier, MS Village Fair Mall: Meridian, MS Missouri (Please note: The Kansas City Metro encompasses both Kansas and Missouri) Antioch Shopping Center: North Kansas City, MO (KC Metro) Bannister Mall: Kansas City, MO (KC Metro) Blue Ridge Mall: Independence, MO (KC Metro) Crestwood Plaza: St Louis, MO Metro North Mall: Kansas City, MO (KC Metro) Northland Shopping Center: Jennings, MO North Town Mall: Springfield, MO Northwest Plaza: St. Ann (St. Louis), MO River Roads Mall: Jennings, MO St Louis Centre: St Louis, MO Mall At Wentzville Crossings: Wentzville, MO Nebraska Conestoga Mall: Grand Island, NE Crossroads Mall: Omaha, NE Monument Mall: Scottsbluff, NE South Roads Mall: Bellevue (near Omaha), NE New Hampshire Bedford Mall: Bedford, NH Belknap Mall: Belknap, NH Nashua Mall: Nashua, NH Newington Mall: Newington, NH Royal Ridge Mall: Nashua, NH New Jersey 251 Route 18: East Brunswick, NJ Bergen Mall: Paramus, NJ [offsite] (Robin Groves' awesome short film) Echelon Mall: Voorhees, NJ </p>	<p> Fashion Center: Paramus, NJ Flemington Mall: Flemington, NJ Mall at IV: Paramus, NJ [offsite] Manalapan Mall: Manalapan, NJ Princeton Forrestal Village: Princeton, NJ Seaview Square: Ocean Township, NJ Shore Mall: Egg Harbor Township, NJ The Mall at Fashion Place: North Brunswick, NJ Wayne Hills Mall: Wayne, NJ Wayne Towne Center: Wayne, NJ Willingboro (Levittown) Plaza: Levittown, NJ New Mexico Winrock Center: Albuquerque, NM New York Capital District of New York Amsterdam Mall: Amsterdam, NY Aviation Mall: Queensbury / Glens Falls, NY Clifton Country Mall / Park Center: Clifton Park, NY Cohoes Commons: Cohoes, NY Johnstown Mall: Johnstown, NY Latham Circle Mall: Latham, NY Malta Mall, Round Lake/Malta, NY Mohawk Mall, Schenectady, NY Northway Mall, Albany, NY Saratoga Mall, Wilton/Saratoga, NY The Hudson Valley Apollo Plaza: Monticello, NY Dutchess Mall: Fishkill, NY Galleria at Crystal Run: Middletown, NY Hudson Valley Mall: Kingston, NY Kings Mall: Kingston, NY Mall At New Rochelle: New Rochelle, NY Nanuet Mall: Nanuet, NY Orange Plaza: Middletown, NY South Hills Mall: Poughkeepsie, NY Long Island Atlas Park Mall / The Shops at Atlas Park: Glen-dale, NY The Mall at the Source: Westbury, NY Champlaine Valley of New York Champlaine Centre (south), Plattsburgh, NY Greater Syracuse Area of New York Camillus Mall: Camillus, NY Cortlandville Mall: Cortland, NY Destiny USA: Syracuse, NY Fayetteville Mall: Fayetteville, NY Marketplace Mall: Cicero, NY Penn-Can Mall: Syracuse, NY Shoppingtown Mall: Dewitt, NY TriCounty Mall: Baldwinsville, NY The Southern Tier Area of New York Pyramid Mall: Ithaca, NY Western New York </p>	<p> Midtown Plaza: Rochester, NY Rainbow Mall: Niagara Falls, NY Seneca Mall: Buffalo (West Seneca), NY Summit Park Mall: Wheatfield (Niagara Falls), NY North Carolina Becker Village Mall: Roanoke Rapids, NC (from external web site) Biltmore Square: Asheville, NC Burlington Square Mall: Burlington, NC Carolina Circle Mall: Greensboro, NC [offsite] Carolina East Mall: Greenville, NC Eastland Mall: Charlotte, NC Eastridge Mall: Gastonia, NC Founders Hall: Charlotte, NC Innsbruck Mall: Asheville, NC Northpark Mall: Charlotte, NC Salisbury Mall: Salisbury, NC Signal Hill Mall: Statesville, NC South Square Mall: Durham, NC Southgate Mall: Elizabeth City, NC Tryon Mall: Charlotte, NC Wilson Mall: Wilson, NC Ohio American Mall: Lima, OH Arcade Square: Dayton, OH Beechmont Mall: Cincinnati, OH City Centre Mart: Middleton, OH Columbus City Center: Columbus, OH Euclid Square Mall: Euclid, Ohio Forest Fair Mall: Cincinnati , OH Midway Mall: Elyria, OH New Market Mall: Columbus, OH Northland Mall: Columbus, OH Northtowne Square Mall: Toledo, OH Parmatown Mall: Parma, OH Portside Festival Marketplace: Toledo, OH Randall Park Mall: North Randall (Cleveland), OH Rolling Acres Mall: Akron, OH Salem Mall: Trotwood (Dayton), OH Severance (Town) Center: Cleveland, OH Southland Mall: Marion, OH Southwyck Mall: Toledo, OH Surrey Square: Norwood, OH Tiffin Mall: Tiffin, OH Tower Place Mall at Carew Tower: Cincinnati, OH Westland Mall: Columbus, OH Western Woods Mall: Cincinnati , OH Westgate Mall: Fairview Park (Cleveland), OH Woodland Mall: Bowling Green, OH Hill Mall: Northwood (Toledo), OH Oklahoma Badlands Mall: Oklahoma City, OK Heritage Park Mall: Midwest City, OK Shepherd Mall: Oklahoma City, OK Sheridan Village: Tulsa, OK </p>	<p> Eastport Plaza: Portland, OR Jantzen Beach Mall: Portland, OR Mall 205: Portland, OR Pennsylvania Allegheny Center Mall: Pittsburgh, PA Camp Hill Mall: Camp Hill (Harrisburg), PA Carlisle Plaza Mall: Carlisle, PA Cedarbrook Mall: Wyncote (Philadelphia), PA Century III Mall: Pittsburgh, PA Clearfield Mall: Clearfield, PA Columbia Mall: Bloomsburg, PA Delco Plaza Mall: York, PA Eastland Mall: North Versailles, PA Gallery At Market East: Philadelphia, PA Greengate Mall: Hempfield, PA Highlands Mall: Natrona Heights, PA MacDade Mall: Holmes, PA [offsite] MJ Mall: Carlisle, PA Monroeville Mall: Monroeville / Pittsburgh, PA North Hills Village Mall: Pittsburgh, PA North Mall: York, PA Northway Mall: Pittsburgh, PA Parkway Center Mall: Pittsburgh, PA Pittsburgh Mills: Tarentum, PA Richland Mall: Johnstown, PA Schuylkill Mall: Frackville, PA Station Mall: Altoona, PA Steamtown Mall / The Mall at Steamtown: Scranton, PA Village Mall: Hatboro, PA Warren Mall: Warren, PA West Manchester Mall: York, PA York Mall: York, PA Rhode Island Davol Square Marketplace: Providence, RI Lincoln Mall: Lincoln, RI Rhode Island Mall: Warwick, RI Wakefield Mall: Wakefield, RI Wampanoag Mall: East Providence, RI South Carolina Aiken Mall: Aiken, SC Ashley Plaza Mall: Charleston, SC Bell Tower Mall: Greenville, SC Bush River Mall: Columbia, SC Charles Towne Square: Charleston, SC Columbia Place Mall: Columbia, SC North Kent Mall: Grand Rapids, MI Summit Place Mall / Pontiac Mall: Waterford, MI The Orchards Mall: Benton Harbor, MI Universal Mall / Universal City: Warren, MI Wonderland Mall: Livonia (Detroit), MI Minnesota Apache Plaza: St Anthony Village (Minneapolis), MN Brookdale Mall: Brooklyn Center, MN </p>
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Architecture as 3d conduits management
needed in the technological age



**Autoplastic Demolition in the Technology Age:
demolition as command.
Technology enters the process.**



**Technology enters the process
BIM and intergration**

Vienna Wood Community Building

Name of building

2005

Year of construction

2005

Year of demolition

Hefei City, China

Location

Vienna Wood Community in Hefei City “died” before completion on December 10, 2005. The community covered about 20,000 square metres of construction area with the main structure raised to 58.5 metres high. The tens of millions of yuan worth building was blasted as a whole when its 16th floor was still under progress.

The building was demolished before completion. The crudest way to stimulate GDP Growth: Demolition then rebuilding.



<http://www.zeroedge.com/article/china-proudly-demolishing-buildings-completed-pursuit-glorious-hou->

Source

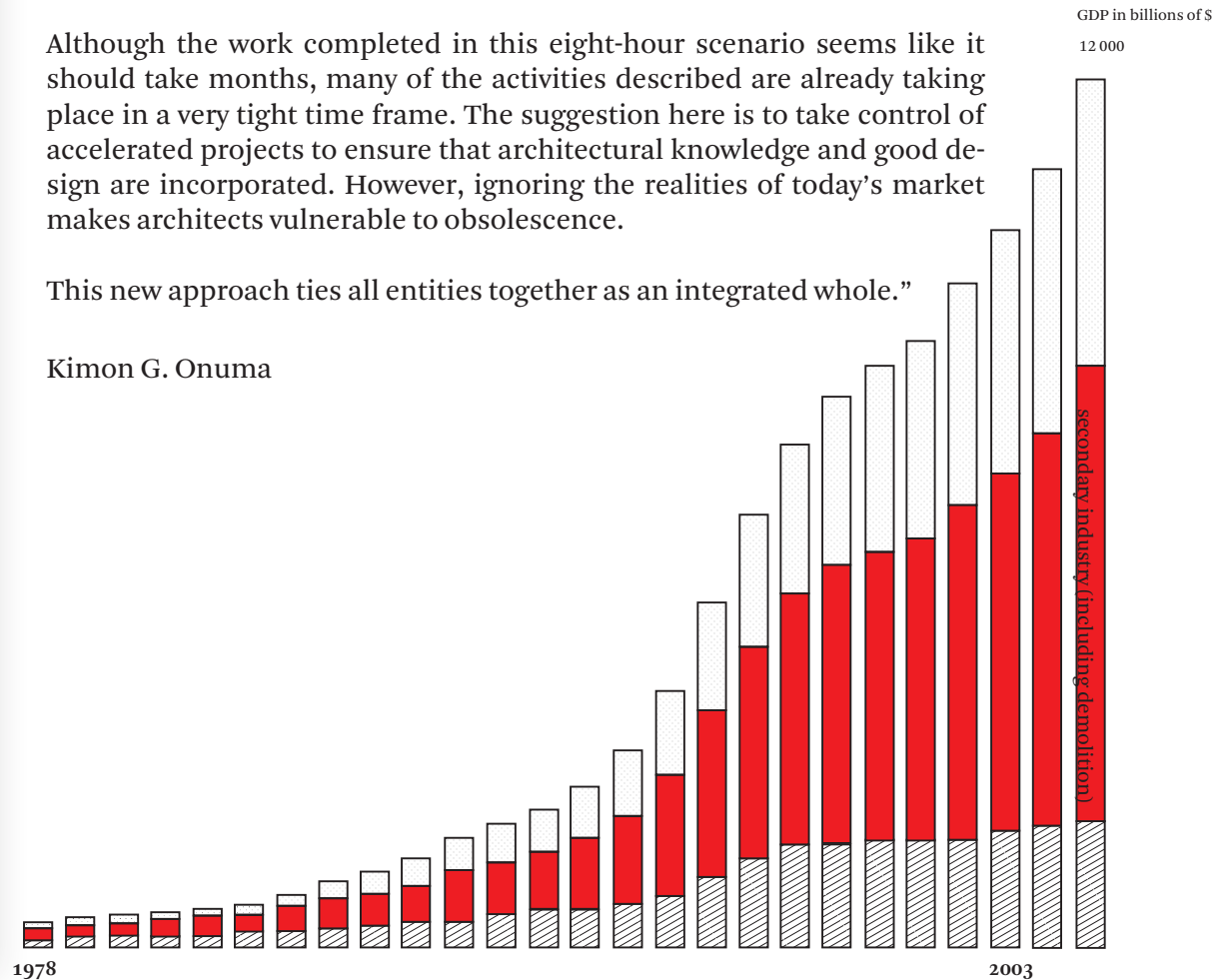
“Clients are changing by implementing global communication, continuous process improvement, and integrated decision making.

The most important initial in “BIM” is the ‘I’ – for “information”. It is the management, analysis, and effective use of information that will distinguish the twenty-first century architect. Architecture will not be viewed on its aesthetic merits alone. Command of data will allow architecture to be increasingly rated on its ability to support a client’s mission through the entire life cycle of a project.

Although the work completed in this eight-hour scenario seems like it should take months, many of the activities described are already taking place in a very tight time frame. The suggestion here is to take control of accelerated projects to ensure that architectural knowledge and good design are incorporated. However, ignoring the realities of today’s market makes architects vulnerable to obsolescence.

This new approach ties all entities together as an integrated whole.”

Kimon G. Onuma



Demolition is growth as it boots GDP

Dutch firm Breijn used its BIM model for construction sequencing when designing a replacement railway bridge over the Linge River. “ProRail [the Dutch railway authority] wanted a cost-effective replacement bridge, with minimal disruption of rail service during its construction,” recalls Breijn senior designer Cristian Otter.

“With the help of BIM technology, we developed a design that met our client’s requirements for aesthetics, cost, and constructability.”

Breijn was given a tight 90 hour window for the bridge construction in which the rail service would be halted, the existing deck demolished, and new concrete decks placed on the bridge pillars.

“We created as-is infrastructure models and to-be design models to help coordinate our design and simulate the demolition and reconstruction of the bridge,” says Breijn construction engineer Leo Molenbroek.

“When we ran a **4D simulation of these critical 90 hours**, there were still some pieces of the old bridge just hanging there. We had forgotten some demolishing tasks on the schedule. Thankfully we were able to find and fix these types of issues before they impacted construction.”

A new methodology



BIM/DIM

Building information modelling/Demolition information modelling

<https://www.youtube.com/watch?v=QtHwR60aZ78>

“Designing office buildings in eight hours will not stop an architect from camping in a forest for days in order to better understand how to site a vacation home.”

Kimon G. Onuma