

BRIEFING REPORT:

STRATEGIC INTERVENTIONS



Civic Commons Catalyst

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This briefing report was prepared by the **Center for Civilization**, a design research lab and international think tank based at the **University of Calgary School of Architecture, Planning and Landscape** (SAPL).

The Catalyst is being led by the Center for Civilization at the University of Calgary School of Architecture, Planning and Landscape (SAPL) and **Evergreen**; executed in partnership with the **Urban Policy Platform at the University of Calgary School of Public Policy** (SPP).

This project is made possible through a grant from the Alberta Real Estate Foundation (AREF). The Alberta Real Estate Foundation invests in real estate policy, research, practices, and education that strengthen the real estate industry and Alberta's communities. The Foundation's revenues are generated by the accumulation of interest earned on real estate transactions through licensed real estate brokers. Learn more at <u>www.aref.ab.ca.</u>





Prof. Alberto de Salvatierra University of Calgary

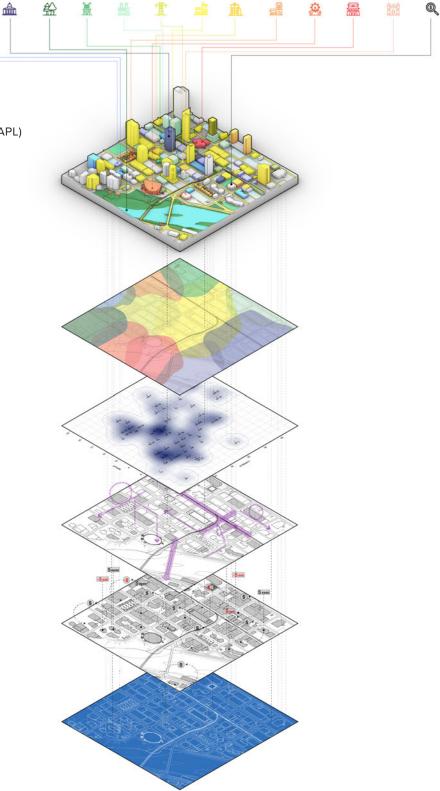
School of Architecture, Planning and Landscape (SAPL)

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PF 3193, 2500 University Drive Calgary, AB T2N 1N4 Canada

+1.403.220.7843 alberto.desalvatierr@ucalgary.ca

Center for Civilization centerforcivilization.org



Anagha Patil and Alberto de Salvatierra, Center for Civilization. Research Structure Conceptual Exploded Axon: Civic Commons Catalyst. 2021.



Civic Commons Catalyst

About the Catalyst

In 2020, the Center for Civilization at the University of Calgary School of Architecture, Planning and Landscape (SAPL) and Evergreen laid the foundations of the Civic Commons Catalyst (i.e. "The Catalyst")-an interdisciplinary research and innovation platform embedded with SAPL's City Building Design Lab. By strategic design, the Catalyst has been incubated and embedded within the University due to its intellectual capacity and substantive local and regional partnership assets. With the CBDLab and its partner faculties leading an inter- and trans-disciplinary city-building research agenda-and its growing list of civil society and government partners-the Catalyst is consciously designed as vehicle for transformational and longterm change for the real estate and other city-building industries, organizations and sectors. Aimed at taking underutilized spatial assets in Albertan cities and catalyzing them into positive assets for the community that can revitalize their downtowns, the Catalyst is identifying zones of opportunity so that assets can be networked together and help focus strategies for economic development and impact investment.

The Catalyst is also developing and deploying a comprehensive set of methods through a produced catalog of civic assets. This project complements the work being done by municipalities and industry, and therefore is maximizing the impact and transformational long-term change for both our partner municipalities and the Province of Alberta. The Catalyst is currently focused on the ~30% vacancy in the downtown core of the city of Calgary while branching out to three new Alberta communities, deploying the research methods and findings to a rural setting-opening up opportunities and strategies for replicability across the rest of the Province. With a catalog, an ideation methodology, and detailed design proposals and partnerships to advance them, the Catalyst is providing a clear and innovative roadmap to engage in economic development and impact investment in downtown cores-providing lasting impact to municipalities and the real estate industry.

Lastly, the Catalyst addresses all three of AREF's primary mandates: education of the public and professionals, research on policy and law reform, and advancement of activities that improve the real estate industry. Through its employment of graduate researchers across the disciplines of architecture, landscape architecture, planning, public policy and business, the Catalyst is contributing to the training of future real estate industry professionals—helping promote a pipeline of young talent with developed core competencies that can advance the sector. This is inline with the *Alberta 2030* long-term strategic plan for Alberta's post-secondary system.

Strategic Interventions

Overview

The strategic interventions presented in the following pages present the culmination of one year of research—concluding Phase I of the Civic Commons Catalyst.

Engendered through a synthesis of the preceding components of the research (Interviews, Horizon Scanning, Public Policy, Finance Innovation, Geospatial Data, and the CCC Catalog), the strategic interventions present new, bold, and innovative ideas for the revitalization of Calgary's Downtown Core.

These final strategic interventions are organized around seven scales (Person, Building, Landscape, Block, Neighborhood, City, and Province) and are divided into three types: Single Asset, Asset Class, and Asset Cluster.

The first iteration resulted in 50 strategic interventions. These were further refined, stress-tested and de-risked through additional cross-referencing with potential sources of funding, policy priorities at the federal, provincial and municipal level, and through an initial business-case analysis that would determine potential industry interest and support.

The final grouping—reduced from a selection of 30—present a variety of options at a number of scales. These 20 strategic interventions each present an opportunity to establish bespoke partnerships, pursue targeted funding programs, deploy specific financial tools, address interrelated policy opportunities, and address emerging signals and trends.

A special thanks to the 55 M.Arch graduate students of Spring Intersession 2021 course **ARCH 675: Urban Systems** (*City as Civilization: From Ecumenopolis to Res communis*) who—under the supervision of Prof. Alberto de Salvatierra—undertook the exploration and analysis of 16 of 20 of the final strategic interventions. Tackling scales of material flow analysis between the planetary and the municipal, students examined the viability and market context of these ideas—making use of geospatial data and precedent research. Titled Codex for Civilization in a *City*, this project asked, "*Can global materials flows be mined for opportunities for revitalization of the urban at a local scale?*" Or, worded differently, "*What planetary-scale movements and trends can be operationalized to choreograph and reinject new industry—and therefore vibrancy—into a struggling city?*"

Single Asset Interventions

- 1. Waste-to-Energy Power Plant
- 2. Cross-Laminated Timber (CLT) Mill
- 3. Hyperloop Station
- 4. Calgary Airport-Downtown-Banff Rail

Asset Class Interventions

5. Urban Ramblas (Extended Sidewalks/Reduced Road Lanes/ More Patios)

- 6. Office-to-Residential Conversions
- **7-8.** Office-to-Crypto-Mining Farm Conversion and/or Gas Field Crypto Farms
- **9.** Affordable Housing/Green Building Retrofits
- 10. Beehive Rooftops + Wildflower Gardens Network
- 11. Office-to-Hydroponic Facility Conversions
- 12-13. Office-to-Data-Center Conversions and/or Data Centers
- 14. E-Commerce Fulfillment Centers
- 15. Urban Gardens
- 16. Parking Lots as City Activators/ "Flex Space"

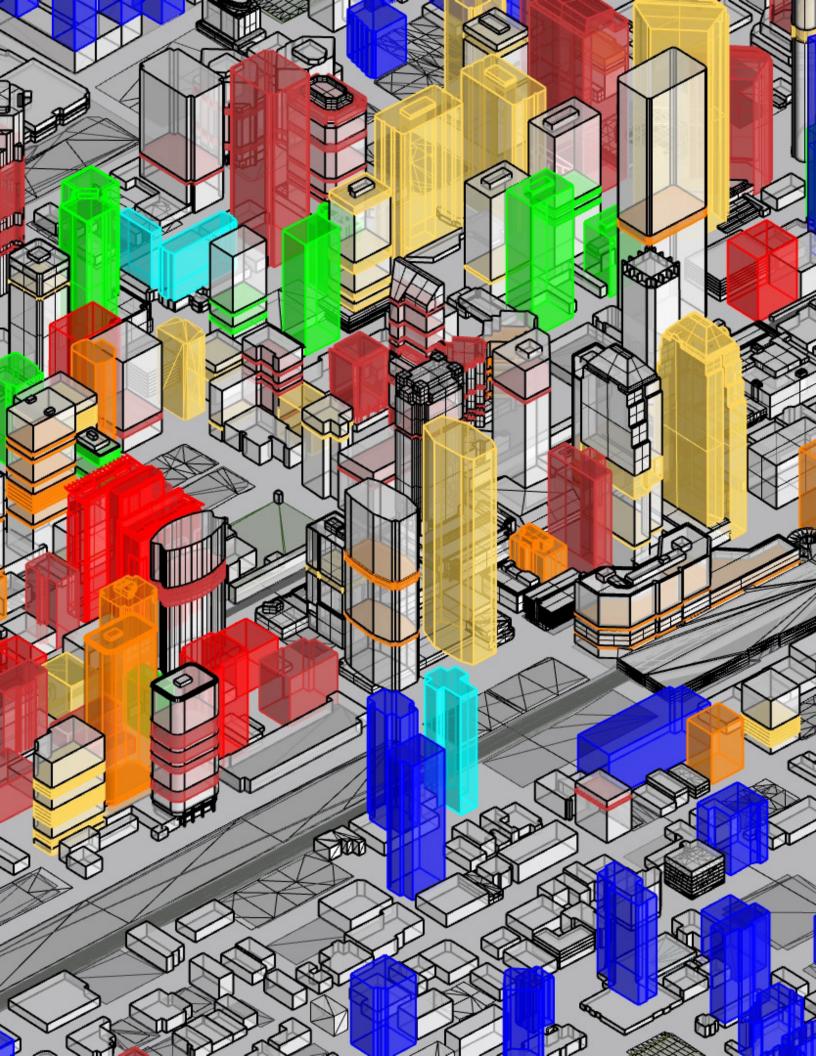
Asset Cluster Interventions

- **17.** Innovation Campus + Smart City Strategy (AI/Fin-Tech/De-Fi)
- 18. Casino District
- **19.** Movie & TV Production Campus/Filming Sets
- 20. Artist/Rainbow Village

Right: Ji Song Sun and Alberto de Salvatierra, Center for Civilization. City of Calgary Axon: Office-to-Residential Conversion Analysis. 2021.

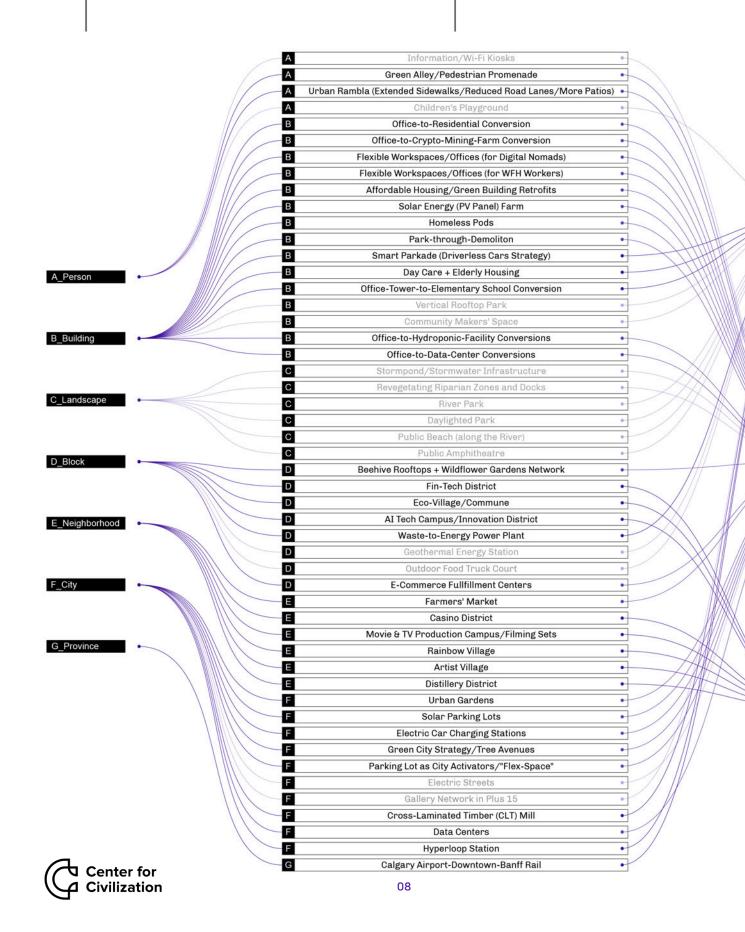


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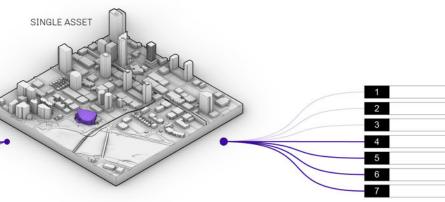
SCALE

50 STRATEGIC INTERVENTIONS

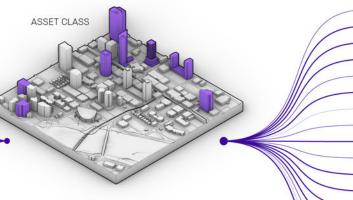


TYPES OF S.I

30 STRATEGIC INTERVENTIONS



Smart Parkade (Driverless Cars Strategy)	
Day Care + Elderly Housing	
Office-Tower-to-Elementary School Conversion	
Waste-to-Energy Power Plant	1
Cross-Laminated Timber (CLT) Mill	2
Hyperloop Station	3
Calgary Airport-Downtown-Banff Rail	4



8	Green Alley/Pedestrian Promenade	
9	Urban Rambla (Extended Sidewalks/Reduced Road Lanes/More Patios)	5
10	Office-to-Residential Conversion	6
11	Office-to-Crypto-Mining-Farm Conversion and/or Gas Field Crypto Farms	7, 8
12	Flexible Workspaces/Offices for Digital Nomads + WFH Workers	
13	Affordable Housing/Green Building Retrofits	9
14	Homeless Pods	
15	Park-through-Demoliton	
16	Beehive Rooftops + Wildflower Gardens Network	10
17	Farmers' Market	
18	Office-to-Hydroponic-Facility Conversions	11
19	Office-to-Data-Center Conversions and/or Data Centers	12, 13
20	E-Commerce Fullfillment Centers	14
21	Urban Gardens	15
22	Solar Parking Lots	
23	Green City Strategy/Tree Avenues	
24	Parking Lot as City Activators/"Flex-Space"	16

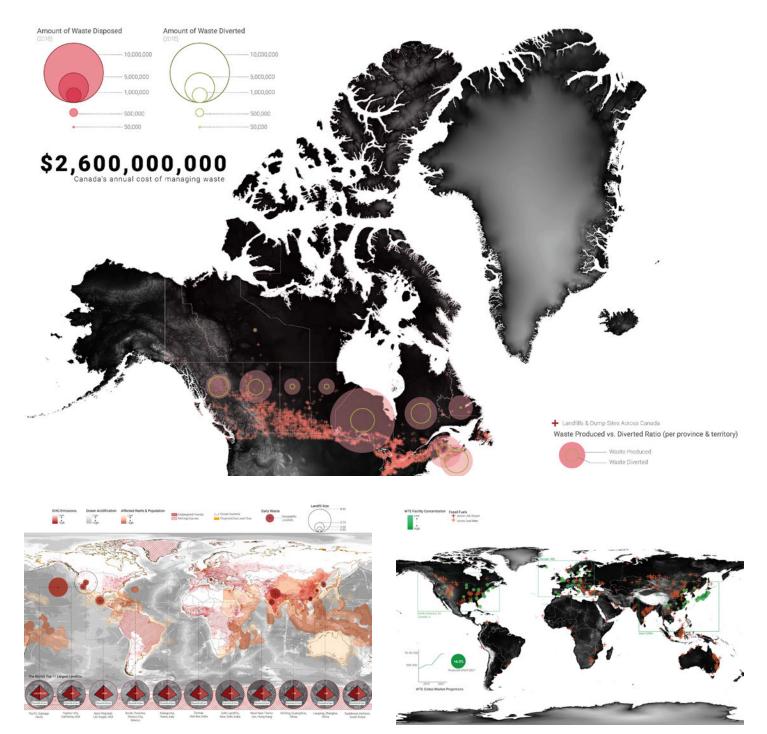
ASSET CLUSTER

25	Eco-Village/Commune	
26	Innovation Campus + Smart City Strategy (AI/Fin-Tech/De-Fi)	17
27	Casino District	18
28	Movie & TV Production Campus/Filming Sets	19
29	Artist/Rainbow Village	20
30	Distillery District	

Alberto de Salvatierra, Ji Song Sun, and Anagha Patil, Center for Civilization. CCC Strategic Interventions Diagram. 2021.

No. 01, Single Asset

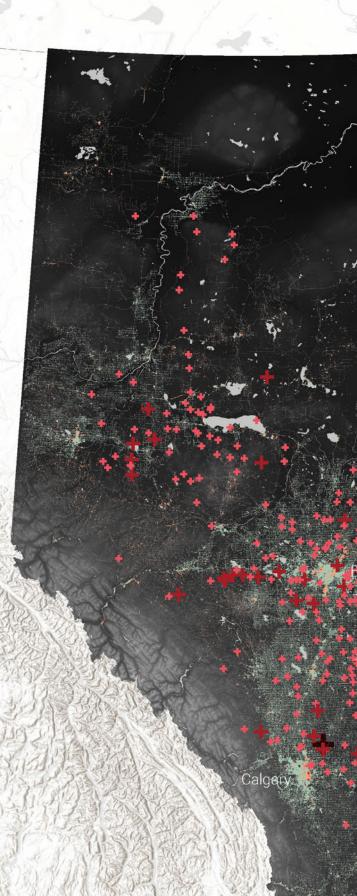
Waste-to-Energy Power Plant



Jennifer Choi, Ashley Elias, and Neve Toth. Codex for Civilization in a City: Trash, Maps. 2021.







10,000+ Landfills in Canada

450+ Registered landfills in Alberta

Landfills & Dump Sites Across Alberta



Gity of Calgary Landfill Industrial Residential

Alberta Annual Waste Material Breakdown (2018)

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Medicine Hat

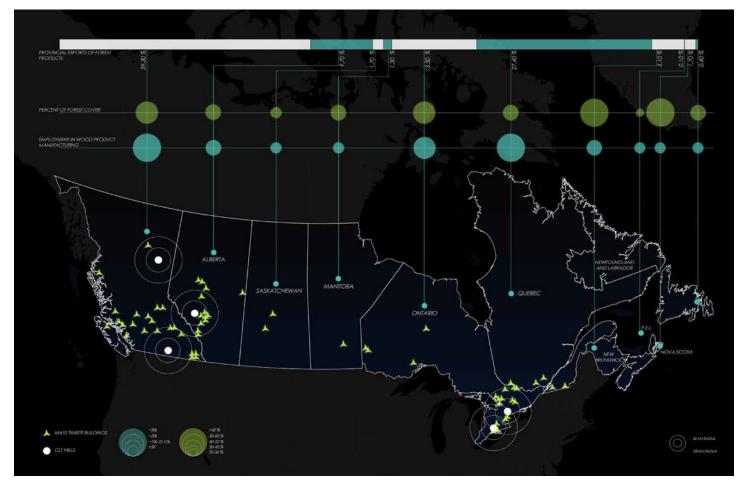
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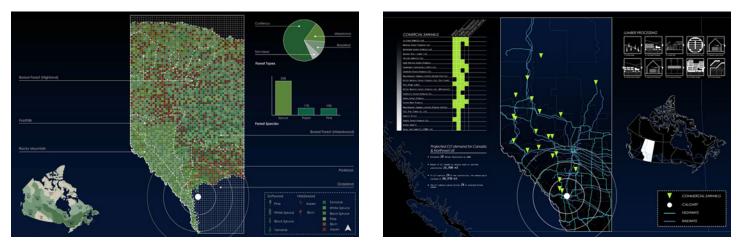
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No. 02, Single Asset

Cross-Laminated Timber (CLT) Mill



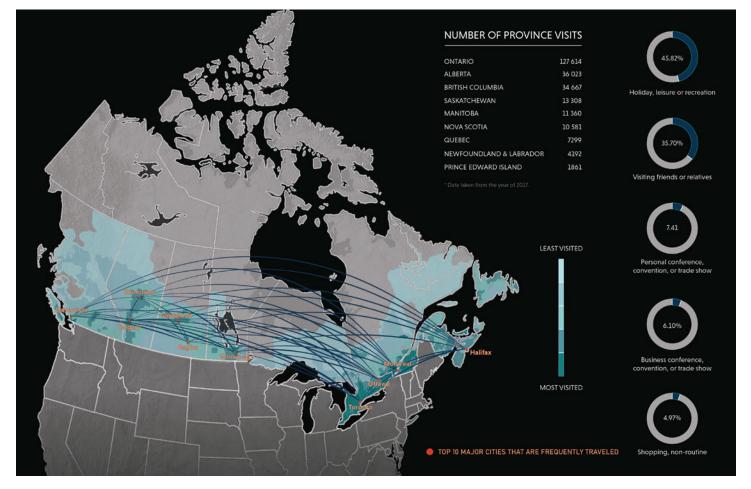


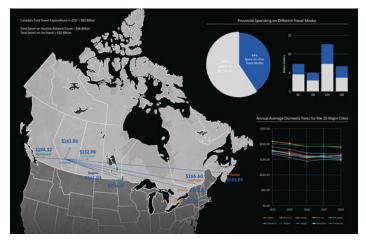
Ben Harrison, Pragya Salhan, Chagan Wang, and Boxu Zang. Codex for Civilization in a City: Timber, Maps. 2021.



No. 03, Single Asset

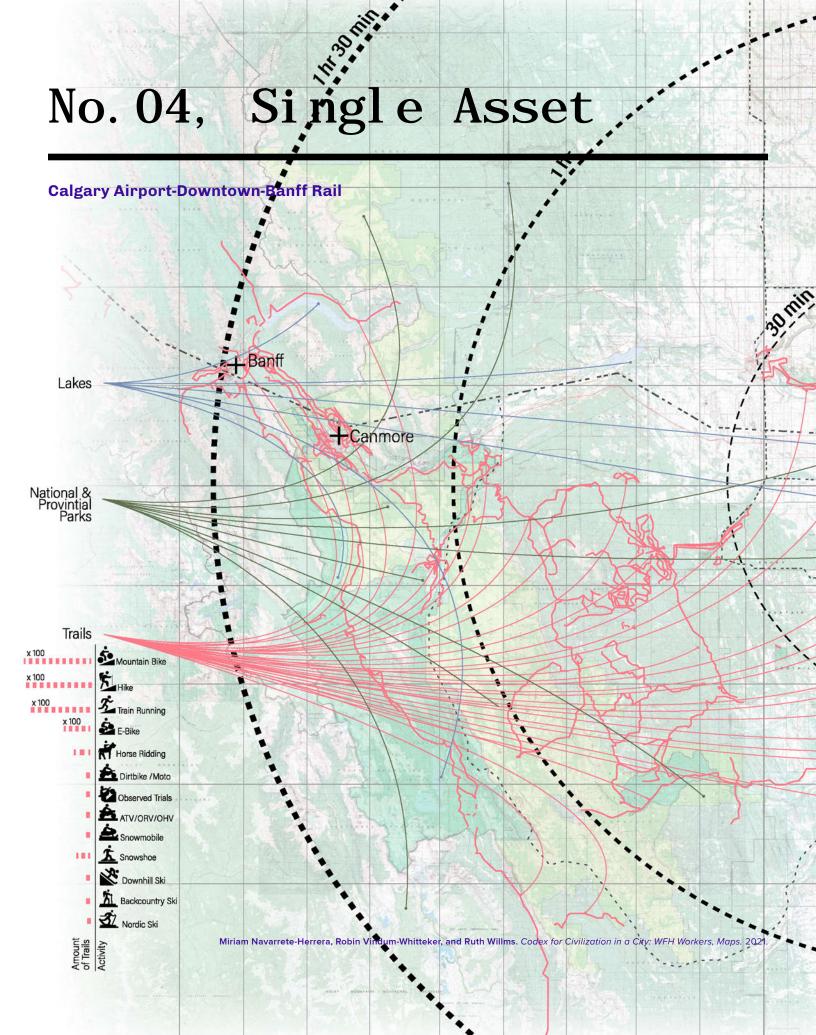
Hyperloop Station

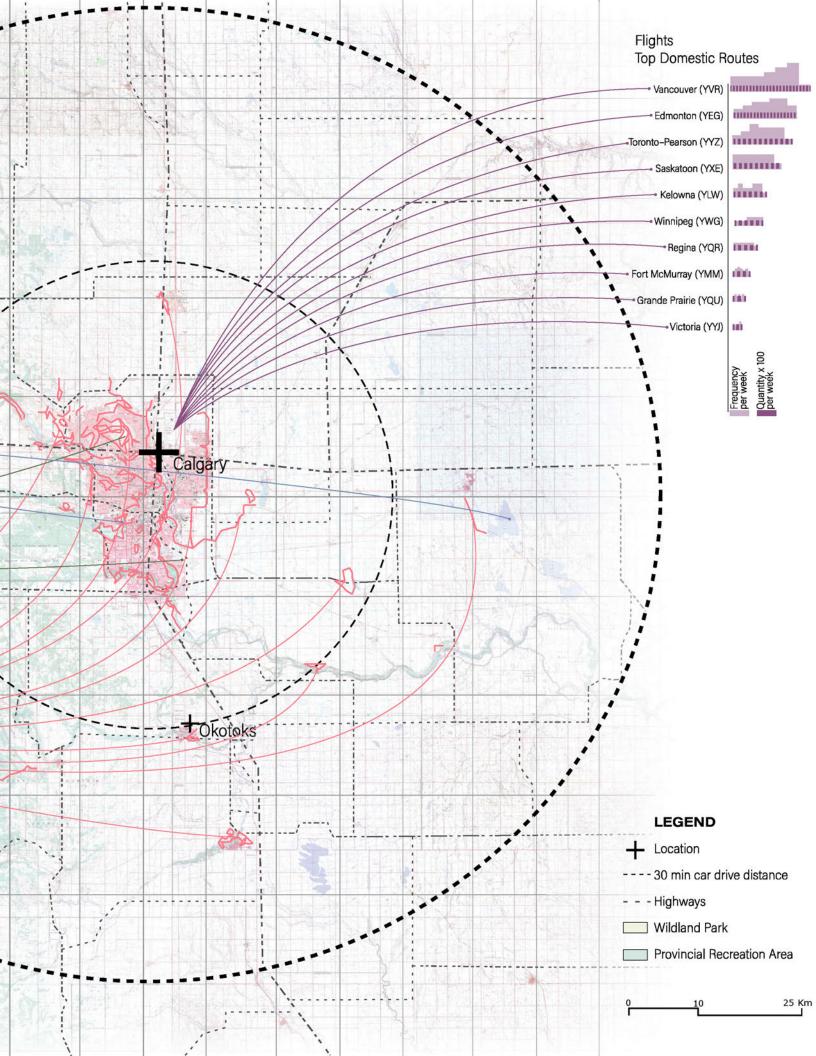




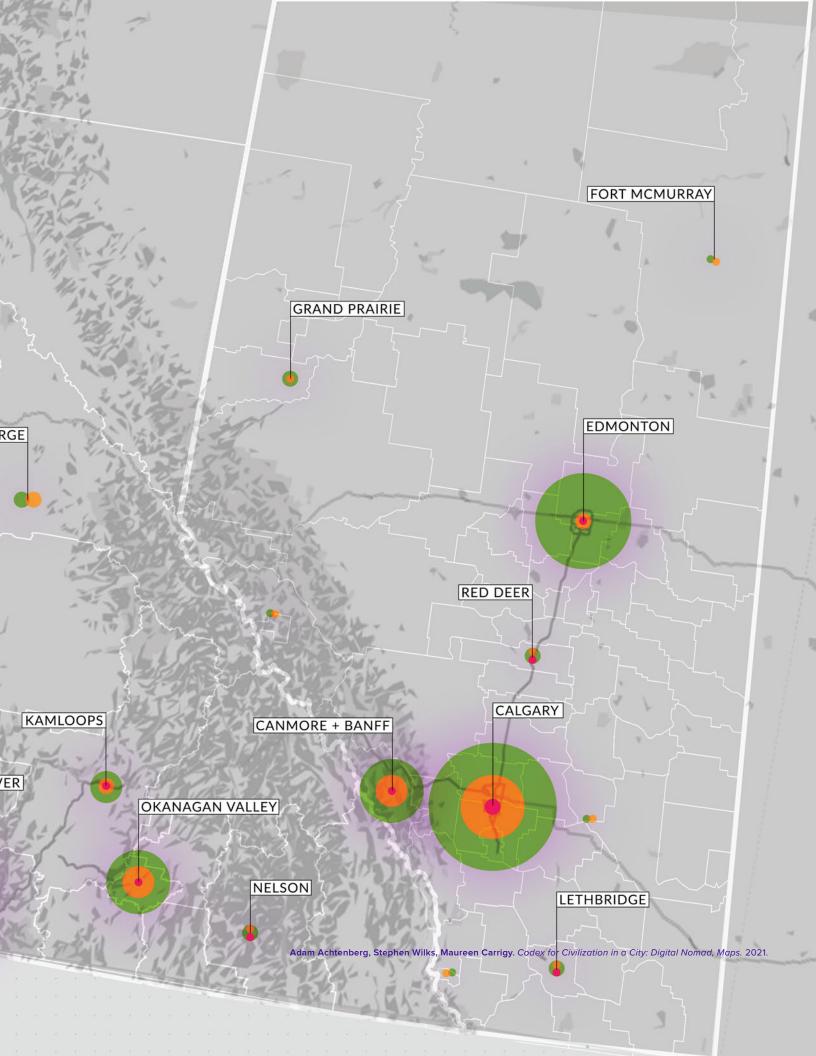


Brooklyn Hofmann and Jenny Li. Codex for Civilization in a City: Commuters, Maps. 2021.

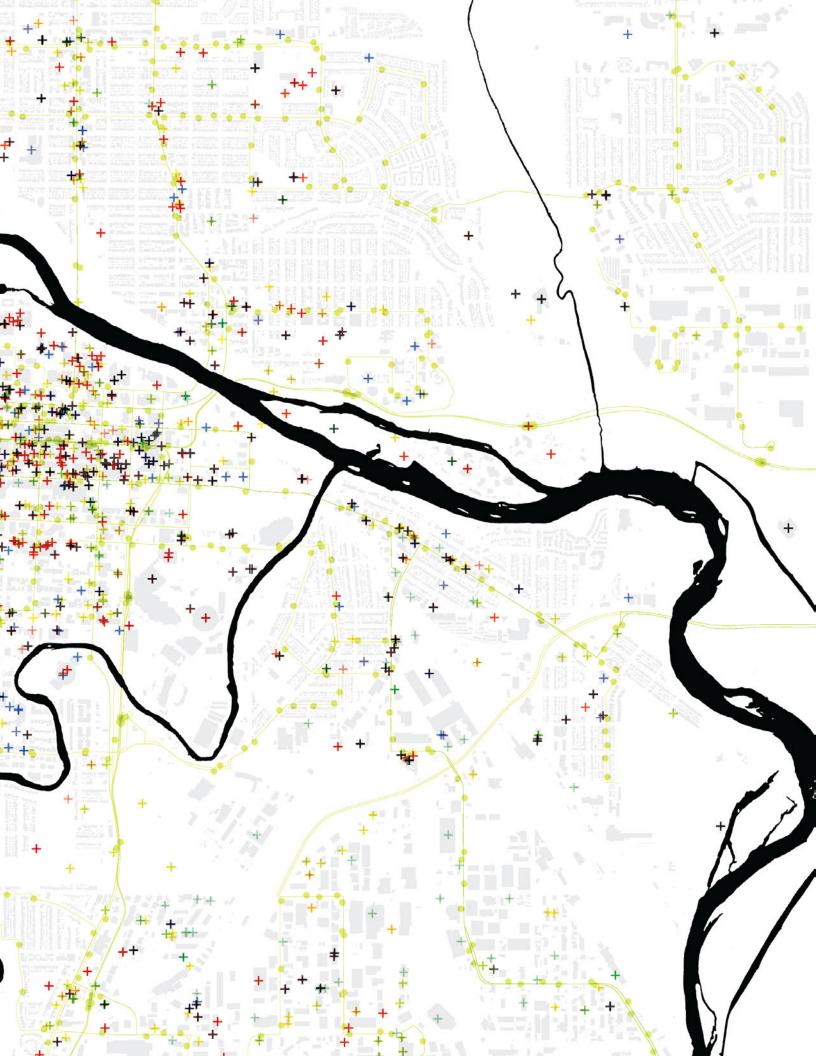




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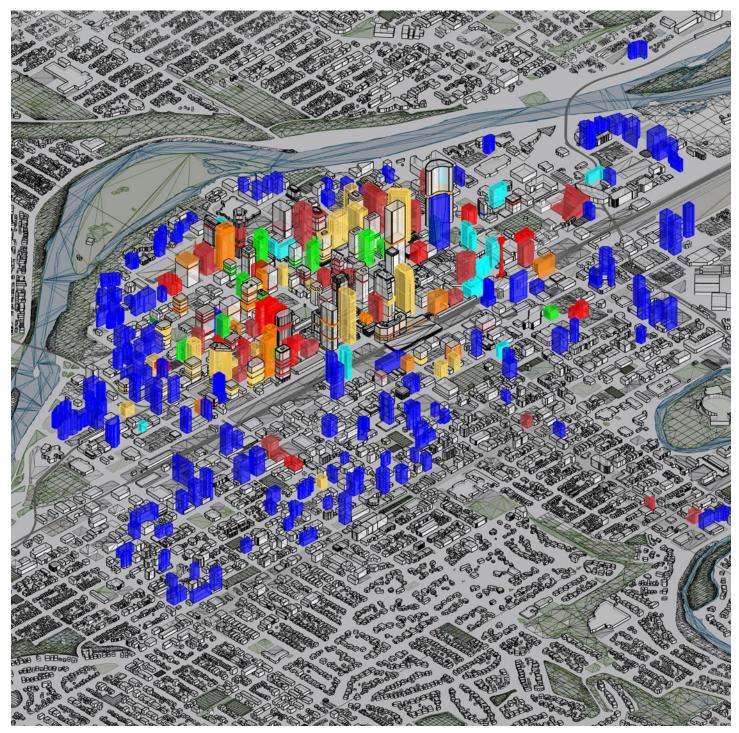


No. 05, Asset Class Urban Ramblas (Extended Sidewalks/Reduced Road Lanes/More Patios) u+ + Tripty Kaur, Inioluwa Adedapo, Ji Song Sun, and Alberto de Salvatierra, Center for Civilization. Map of Urban Attractors: City of Calgary. 2021.



No. 06, Asset Class

Office-to-Residential Conversions

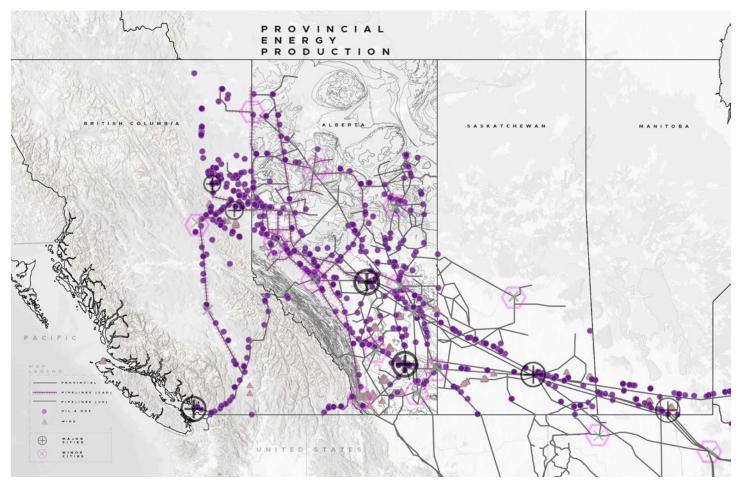


Ji Song Sun and Alberto de Salvatierra, Center for Civilization. City of Calgary Axon: Office-to-Residential Conversion Analysis. 2021.



No. 07-08, Asset Class

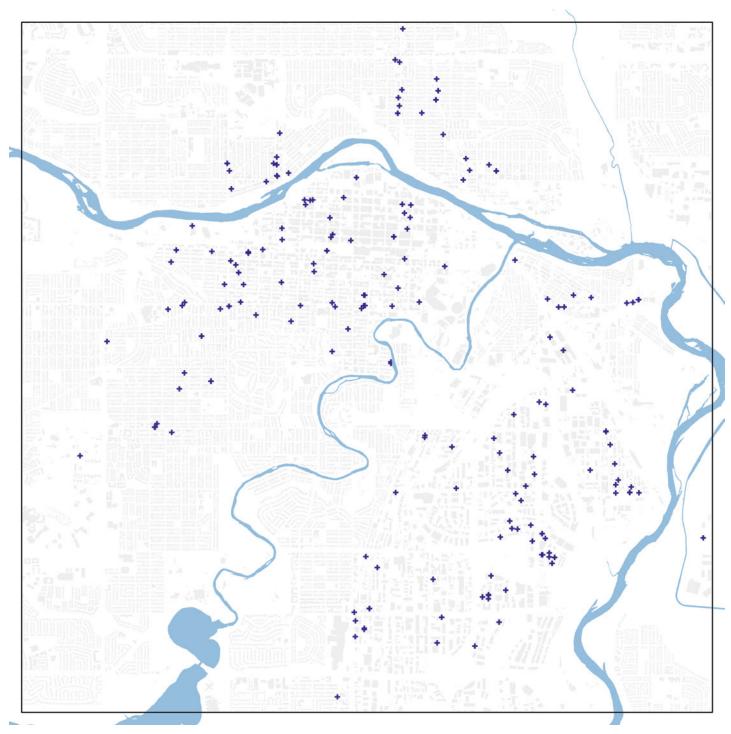
Office-to-Crypto-Mining-Farm Conversions and/or Gas Field Crypto Farms



Connor Chow, Marshall Evens, and Mac McGinn. Codex for Civilization in a City: Cryptocurrency, Maps. 2021.

No. 09, Asset Class

Affordable Housing/Green Building Retrofits

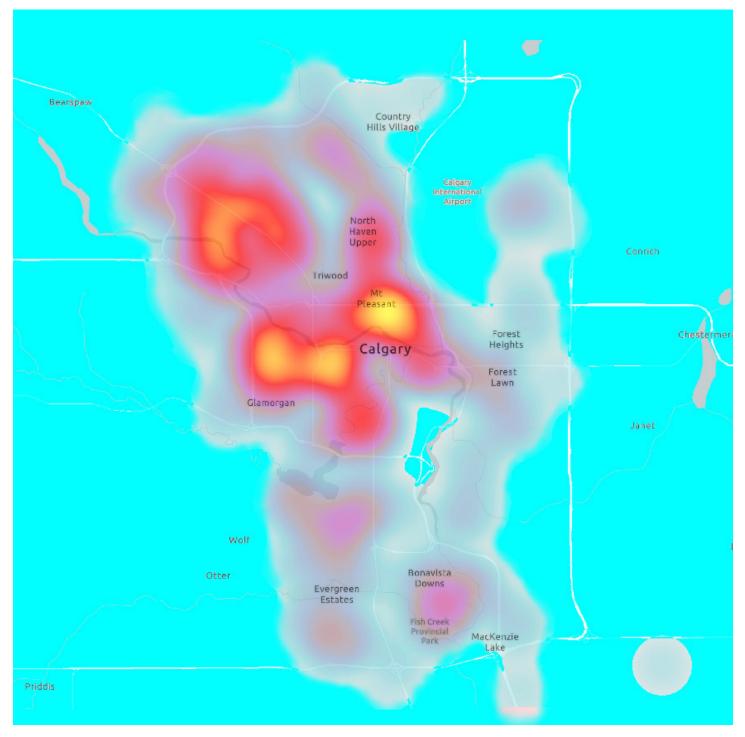


Tripty Kaur, Inioluwa Adedapo, and Ji Song Sun, Center for Civilization. CCC Catalog: Non-Office Tower Vacant Buildings. 2021.



No. 10, Asset Class

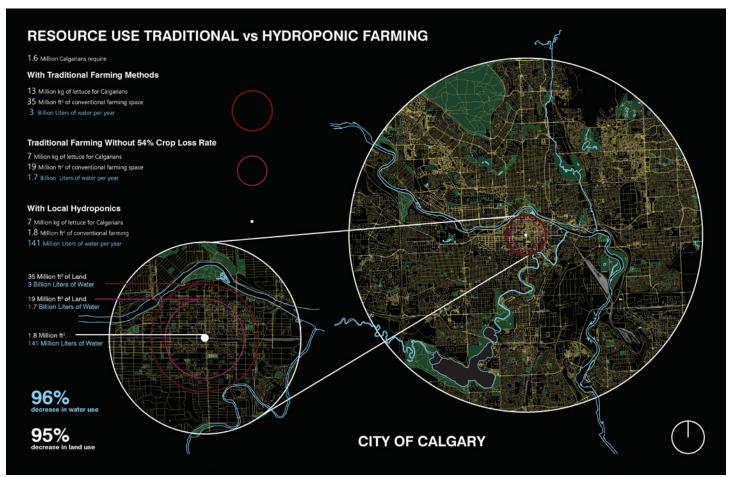
Beehive Rooftops + Wildflower Gardens Network

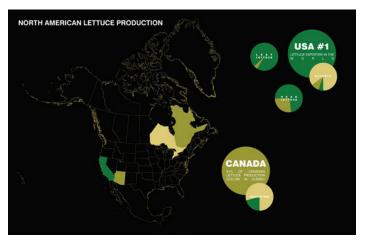


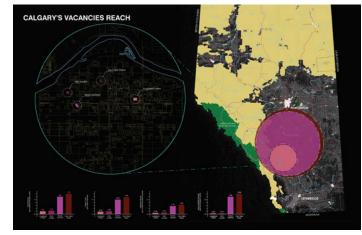
Ioana Palade. Codex for Civilization in a City: Honey, Maps. 2021.

No. 11, Asset Class

Office-to-Hydroponic-Facility Conversions



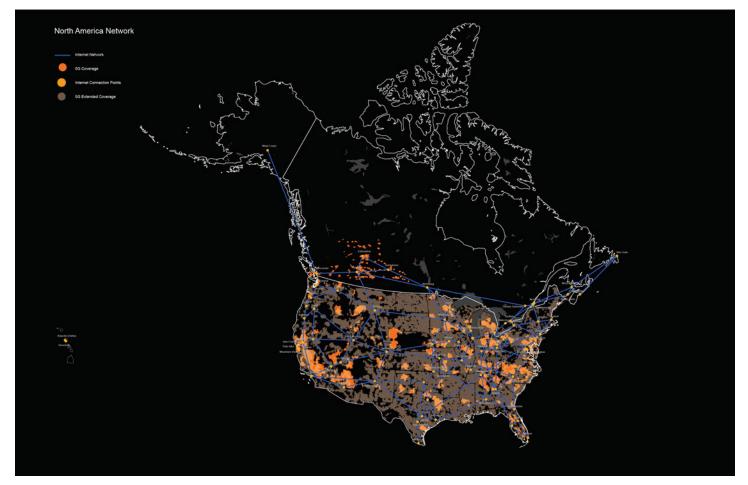




Mac Garvin, Rhea Jenkins, and Alex Neumann. Codex for Civilization in a City: Lettuce, Maps. 2021.

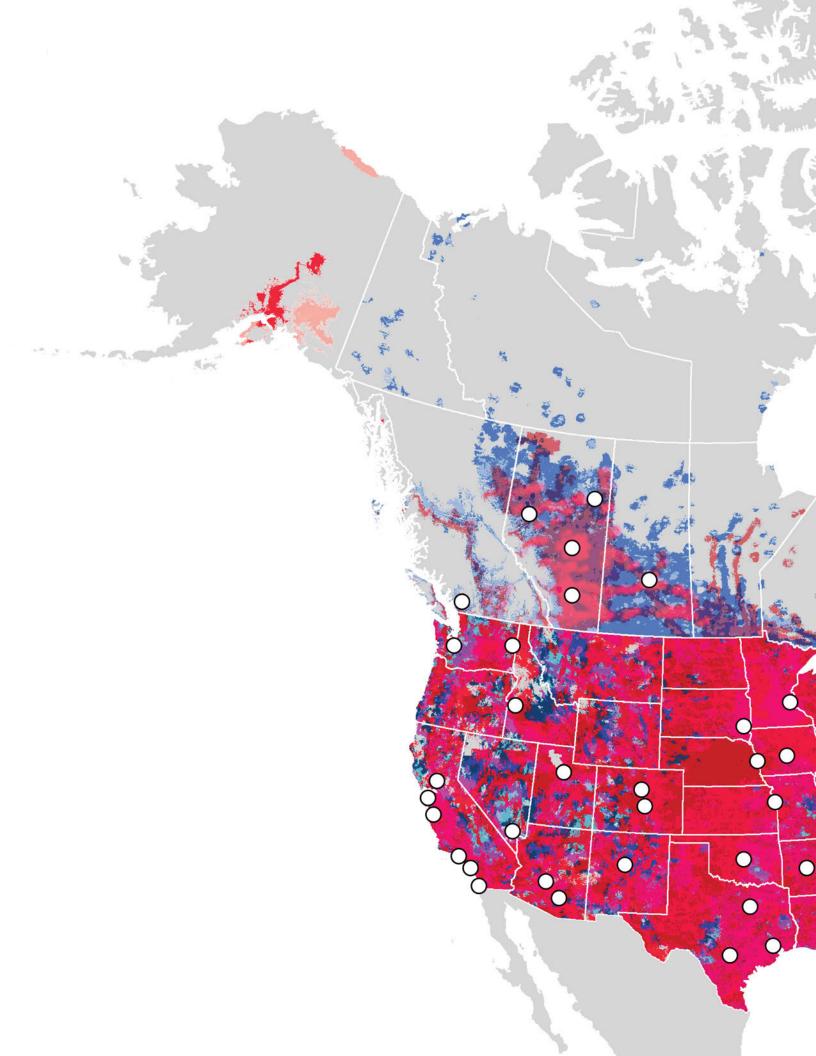
No. 12-13, Asset Class

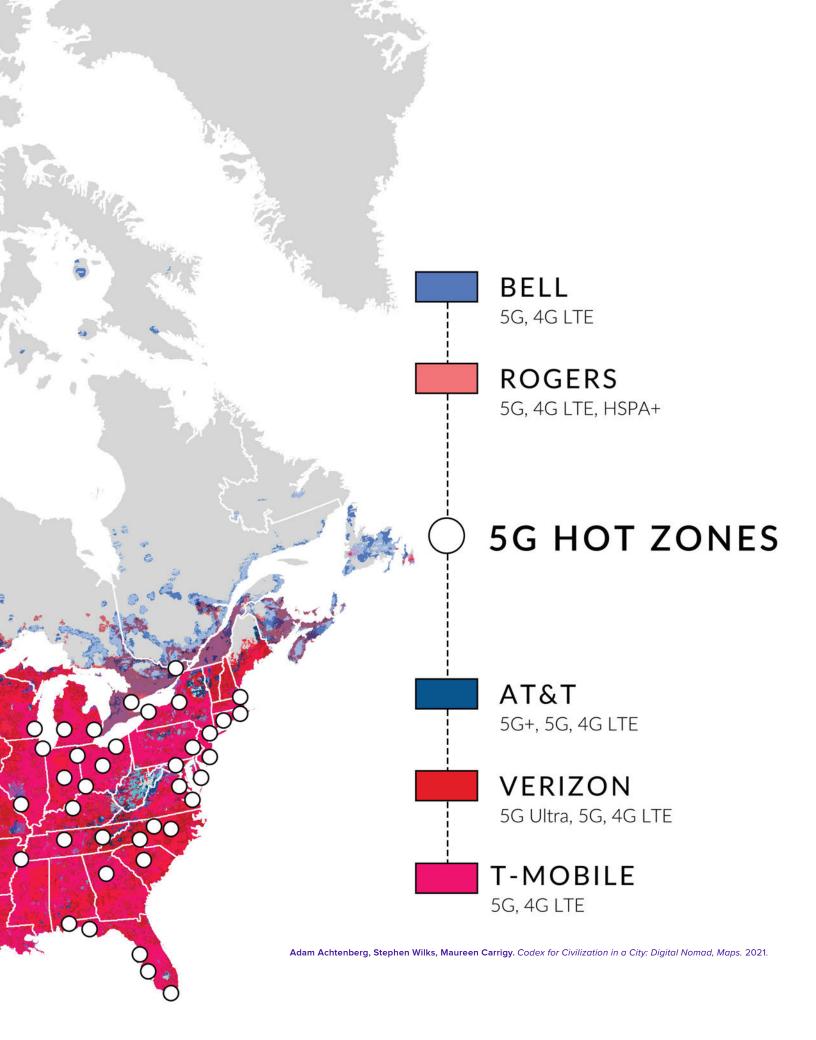
Office-to-Data-Center Conversions and/or Data Centers





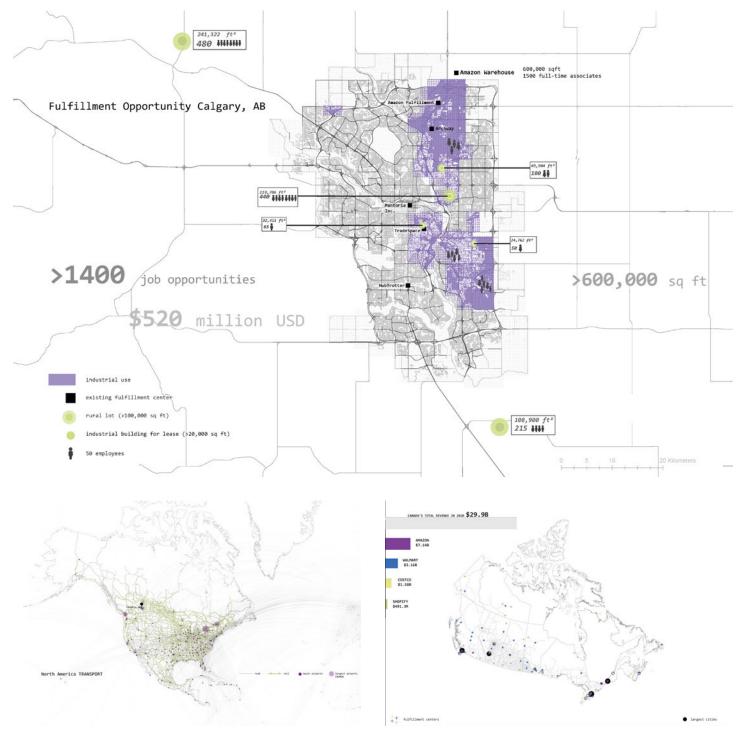
Armaghan Divanei, Evan Dodds, and Rujuta Nayak. Codex for Civilization in a City: Data, Maps. 2021.





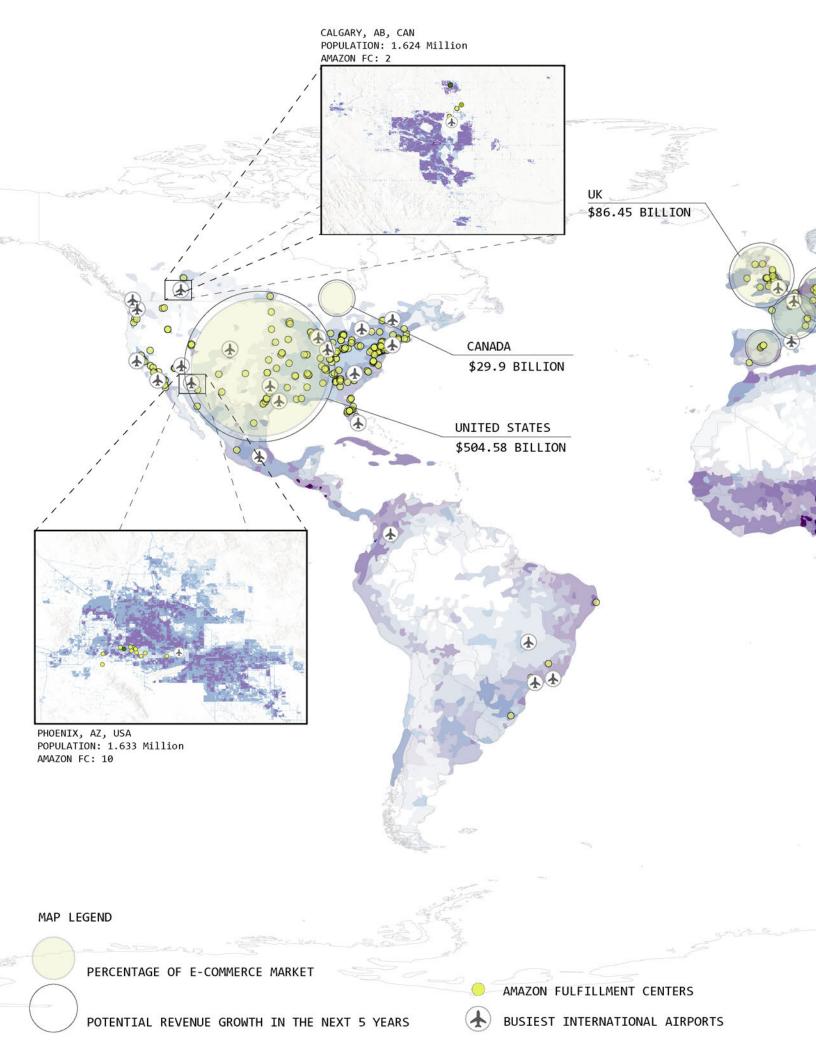
No. 14, Asset Class

E-Commerce Fullfillment Centers





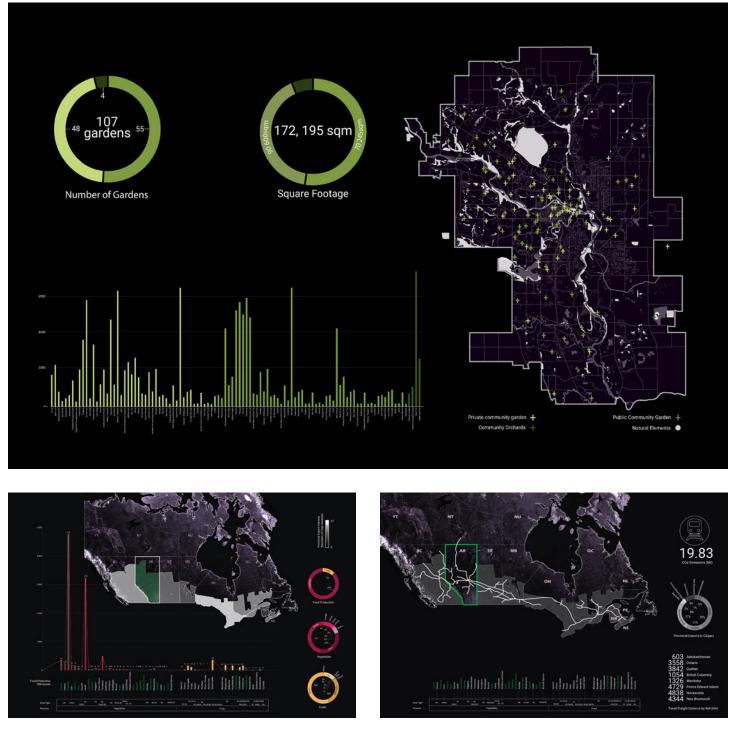




civic commons catalyst

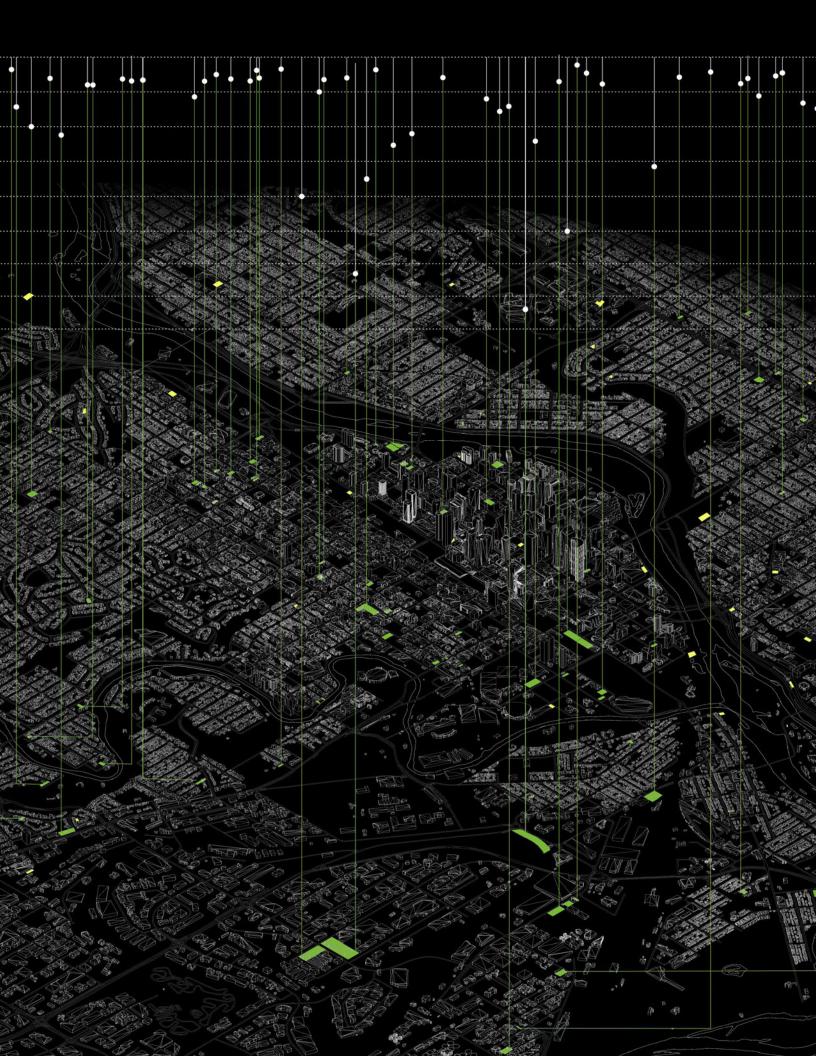
No. 15, Asset Class

Urban Gardens



Inioluwa Adedapo, Obinna Ekezie, and Rayhan Muniff. Codex for Civilization in a City: Produce, Maps. 2021.





No. 16, Asset Class

Parking Lots as City Activators/"Flex-Space"

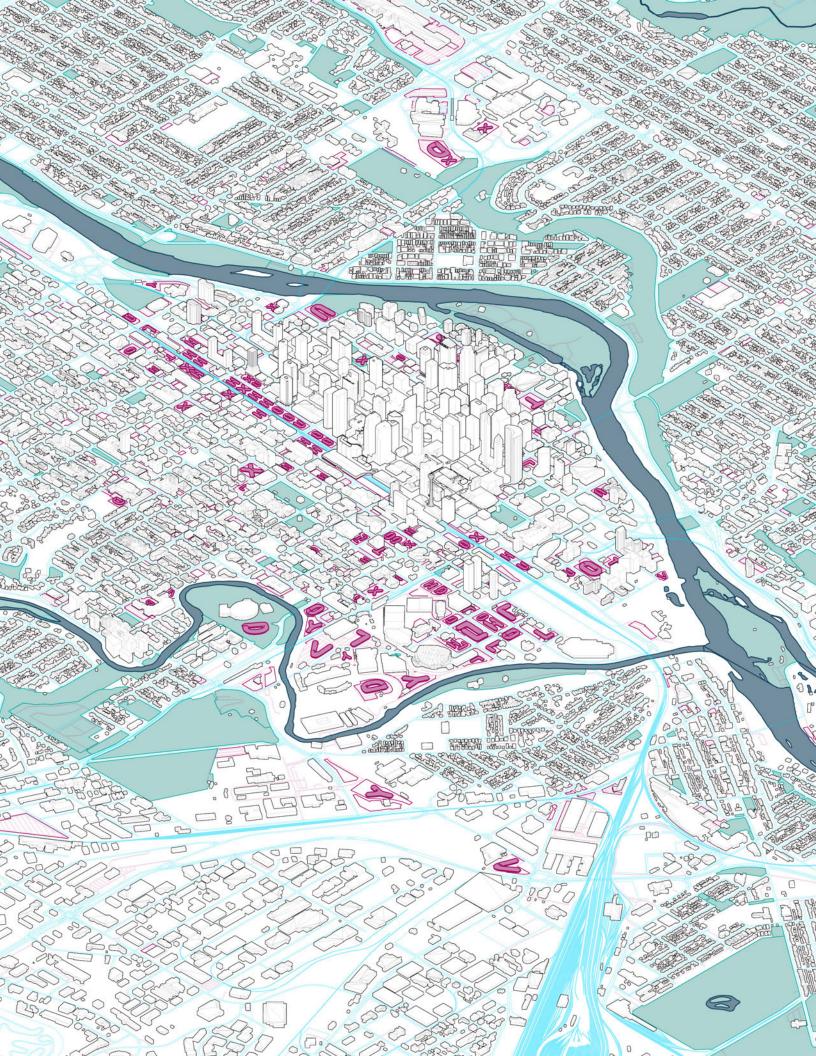






Alberto de Salvatierra and Dan Hapton, Center for Civilization. Soft City, Soft Haus. 2020-2021.



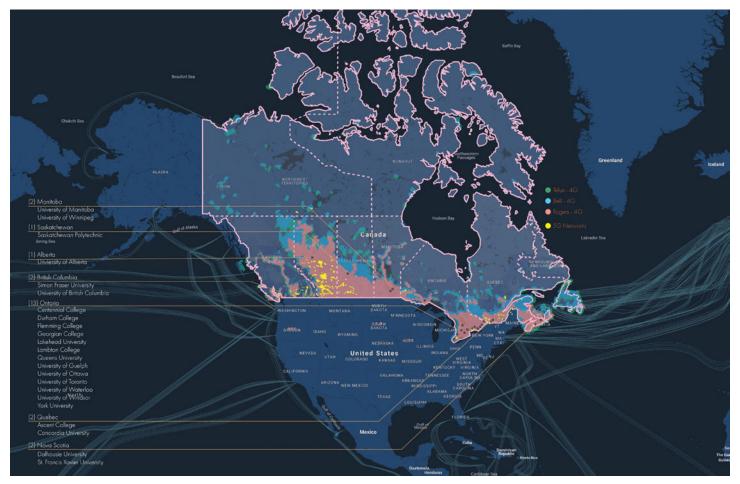






No. 17, Asset Cluster

Innovation Campus + Smart City Strategy (AI/Fin-Tech/De-Fi)





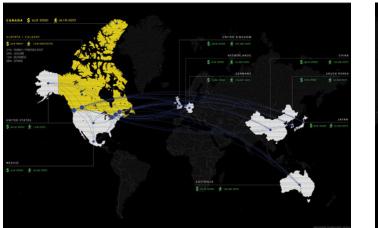


Kristan Ignagni, Esther Ephraim-Osunde, and Yi Ting (Jessica) Wang. Codex for Civilization in a City: Al, Maps. 2021.

No. 18, Asset Cluster

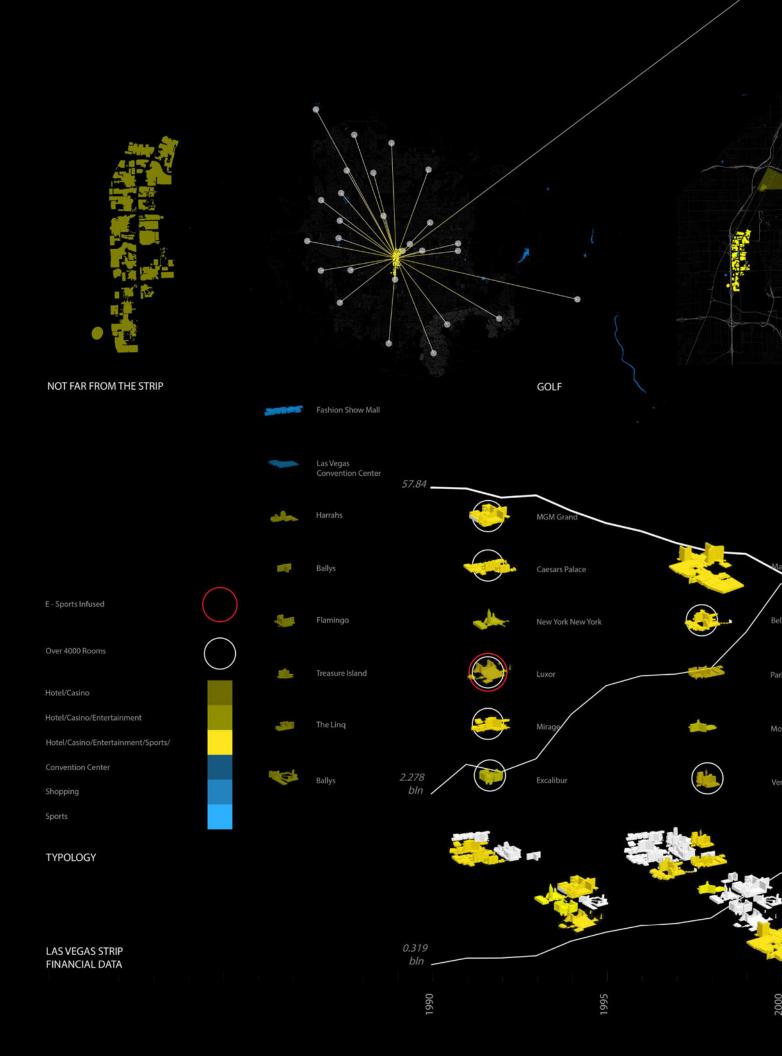
Casino District



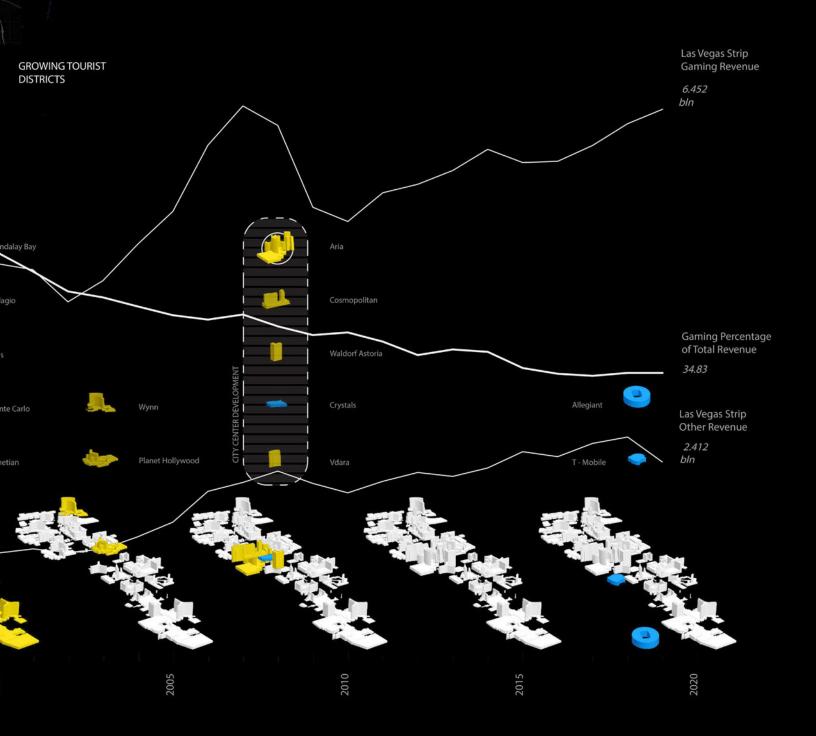




Adam Majer, Mia Santos, and Brendan Webb. Codex for Civilization in a City: Gambling, Maps. 2021.

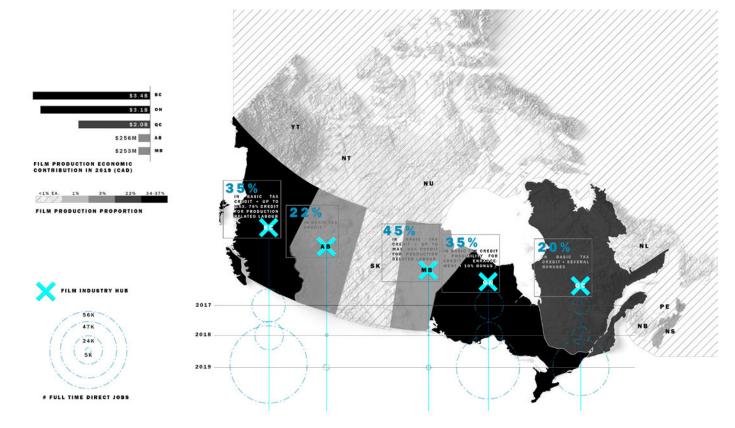


A look into the physical growth of the Las Vegas Strip over the past 30 years reveals that the replacement of smaller scale hotel and casino combinations with mega – developments is tied to the strengthening of its non-traditional gambling assets, including recent arena additions for new professional sports teams and the introduction of a dedicated e-gaming facility. The financial data of this time period, reveals that this diversification strategy has been incredibly symbiotic, with traditional gambling revenue nearly tripling, while nearly halving the reliance of the Strip on traditional gambling for income.

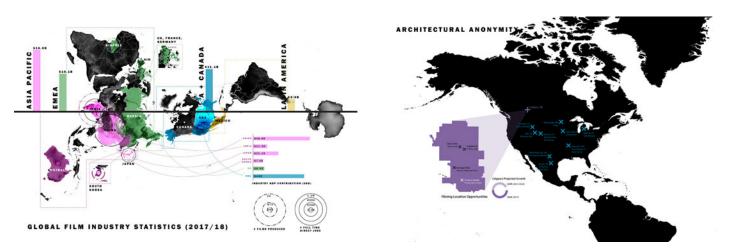


No. 19, Asset Cluster

Movie & TV Production Campus/Filming Sets



CANADIAN FILM INDUSTRY STATISTICS (2017-2019)

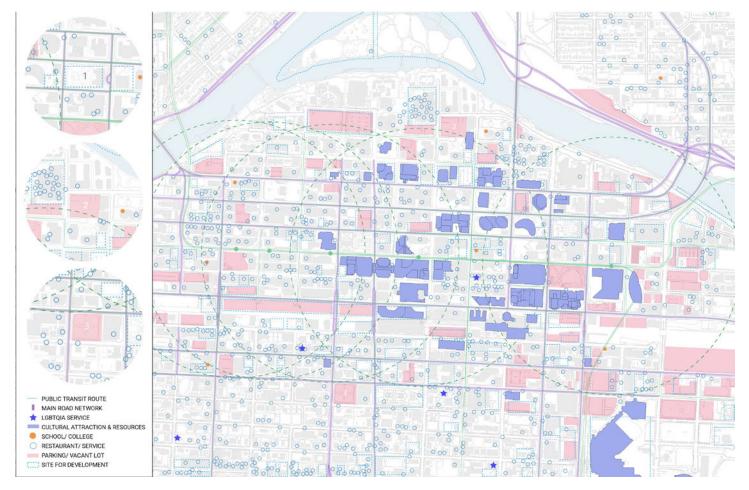


Candice Cheah, Maria Grygoryeva, and Faith Lynch. Codex for Civilization in a City: Movies & TV, Maps. 2021.



No. 20, Asset Cluster

Artist/Rainbow Village





Rebecca Choi, Natalie Sandelli, and Erika Sieweke. Codex for Civilization in a City: LGBTQIA+ Immigrants, Maps. 2021.

