LAST-MILE ECOSYSTEM

REVOLUTION

SIDE EFFECTS

PRE-INDEPENDENCE

1636 — FERGEMEN'S STRIKE

1677 — NYC: FIRST STRIKE

1760 — INDUSTRIAL REVOLUTION

1815 — MIGRATION

1850 — COMPETITION

ABOLISHED SLAVERY

INDUSTRIAL REVOLUTION

1865 — Thirteenth Amendment

Compromise of 1850

SLAVERY & ABOLITION

Illegality of unions

ANTITRUST AND THE LOCHNER ERA

FREEDOM OF CONTRACT

1916 — YELLOW DOG CONTRACTS

Erdman Act 1898

Adamson Act 1916

Adkins v. Children's Hospital law 1923

Railway Labor Act 1926

THE "GREAT DEPRESSION"

National Industrial Recovery Act 1933

MODERN LABOR LAW

WORLD WAR II

Employment Act of 1946

WAGNER ACT

National Labor Relations Act of 1935

Smith–Connally Act

Fair Labor Standards Act of 1938

POST-WAR REGULATION

CIVIL RIGHTS MOVEMENT

Civil Rights Act 1964

Equal Pay Act of 1963

LEGISLATION IN THE 1970'S

1970 — OCCUPATIONAL SAFETY AND HEALTH ACT

1988 — WARN Act

1990 — Americans with Disabilities Act

HURRICANE KATRINA

1994 — NEWSEED.COM

1998 — Amazon goes public!

"Get big fast"

"AMAZON LAW"

KINDLE

2000 — INTERNATIONAL BANKS

2007 — SALES-TAX EXEMPTIONS

2008 — TAX AVOIDANCE VIAS

HURRICANE SANDY

2011 — 1st Amazon.com office in SEATTLE

2015 — REAL ESTATE SPECULATION

Black lives matter founded

2017 — AMZ – METROPOLITAN AREA

Black lives matter movement

2019 — WITHDRAWAL

Zoning issues!

ULURP

LONGER-TERM STRUCTURES

Digital & social inequalities

PANDEMIC

COVID WIDENS CONVERGING SIDE AND TERRITIC SIDE GAP

$370 billion

COVID-19

URBAN ECOLOGY RAPTURE

HIDDEN PENVERY IS NOW FOREGROUND

Strategic location abusing minority groups...

Ongoing environmental racism...

WASTE REDUCTION

URBAN MOBILITY TRANSITION

TRUCK-APOCALYPSE

NEW HUMAN INFRASTRUCTURE

2020 — Emergency Preparedness Law

Last-mile facility storage logistics movement evolution

SHORT-TERM DISRUPTIONS CAUSES

Reaches the health care sector

Essential Workers arise

Black lives matter in COVID

2021 — Last-mile facilities

Hero act law

Same day delivery service

Where does Amazon fresh food come from?

Racial-ethnic disparities in pollution

Temporary workers

Reverse last-mile

Environmental Rights Amendment

Freight NYC

Last-mile interventions

First Regulations

2030 — World Economic Forum

AMZ – METROPOLITAN AREA

$2 trillion

Waste management outcome

PANDEMIC ZOOM-IN (2021)

Four key urban design attribute

URBAN STAKES IN PANDEMIC

WORKING WORKERS

Density (people/km²)

1. Urban density and crowding

2. Urban mobility

3. Urban activities

4. Urban inequality

CITY SHUTDOWN + HEALTH SECTOR

LOCKDOWN + HEALTH

VACCINE + LAST MILE HEALTH

PHASE 1

PHASE 2 — NYC business reopening guide

PHASE 3

PHASE 4

REOPENING PLAN

LEGEND:

CAPITAL MOVEMENTS

EVENTS

INVENTIONS

HISTORICAL EVENTS

ERAS

Workers laws & reg.