FIG WORKING WEEK 2017

Surveying the world of tomorrow -

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The Rise and Fall of Zoning

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TS06H – Unpacking Planning Principles for Sustainable Development





Plans are nothing... Planning is everything.

– General Dwight David Eisenhower



https://en.wikipedia.org/wiki/Military_career _of_Dwight_D._Eisenhower

OUTLINE

- Rational zoning: What? and Who?
- Problem: Why zoning, or not, and How to change zoning plans?
- Functional development vs. Conservative control
- Evolution and critique of zoning trends along the 20th Century
- Conclusions

MEANINGS OF "ZONE"

- Ancient Greek: ζώνη = belt, circling strip, spherical segment, ring
- Geographical zones: torrid (tropical), temperate, frigid (polar)
- Time zones: hourly bands E & W from Greenwich UK
- Marginal, peripheral area: flooding zones, dismantled city walls
- Strictly delimited sector, range, location, domain of specific interest
- Focus on visualization feature or area
- Strictly partitioned/delimited sectors of a larger area, for a purpose
- In urban planning: spatial element of a system of land-use regulation
- It refers to and is an area along a firm delineation, with special status.

WHAT IS ZONING

Land use planning instrument

• Enforcement of urban policies and by-laws, towards existing or foreseen situations to manage and control within zones, on private land (at the parcel-lot level), building, usage, and business development.

Procedures, methods, and practices in municipal administration

- Delineation of precise perimeters of zones
- Distribution of functions and uses
- Management of land owners' exercise of specifically local rights and obligations
- Most cities have enforced huge zoning and construction by-laws, with thousand pages of rules and norms that detail what is obligatory, permitted, or prohibited to do by land owners and project promoters, with procedures to get permits.
- They apply to **numerous small zones**, ruling any aspects from parcel lot subdivision at minimal/maximal dimensions to the height and colour of the walls and roofs.



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Quebec City Zoning Map Sheet and Specifications Table -8 RÈGLEMENT DE L'ARRONDISSEMENT SAINTE-FOY-SILLERY SUR L'URBANISME GRILLE DE SPÉCIFICATIONS En vigueur le R.A.3V.Q.86 32717Md URACES AUTORISÉS COMMERCE DE CONSOMMATION ET DE SERVICES Superficie maximale de plancher Projet d'ensemble pur diabilitatement pior hilthrowst Localitation Services administratify C2 Vente su détail et services COMMERCE D'HEREBGEMENT TOURISTIQUE Norther continued of public par etablicement per hilden et Localization Projet d'ensemble C10 Exhistement Meeter Secondicia animizzable de ultere her par hitten of Legisation Projet d'ensemble par diablement Enthissement d'éducation et de formation P4 Etablissement d'éducation prot-secondaire P3 Etablissement de samé sans bébergeinan Superficie maximals de plancher par diablicament par hätlesent Localisation Projet d'ensemble 11 Industrie de heute technologi RÉCHEATION EXTÉRITURE R1 Party BÂTIMENT PRINCIPAL Nonches d (Ragno DEMENSIONS DU BÂTEMENT PRENCIPAL Largene raise Haistenet 140340 (WOLLING) 1007/001 #5tal ani-i DIMENSIONS GENERALIS . 105 Marge laterale Marge luperficis: argmar commissio das cos **Weblewing** NORMES D'DIPLANTATION d'aire . Marge event **kahésela**si rentral dune rere entriple. Explored NORMES DIMPLANTATION GENERALES Quarter Beautgoois, Charmin das / Namin For 22.5 million MARGE DE RECUL À L'AXE Billiott Bauetana, Arkenan / Sainte-Nee 31 infines Somethics manuale is planches Negalisty de logerments à l'heutien-NURMES DE DENSITI Vento ao dittai IDAN I A a For ballion et to the sum 65 kg/hz DISPOSITIONS PARTICID. JERKS Calcul de la husteur maximale d'un blüment sur un temun en pente - article 340 STATIONNEMENT HORS BUE, CHARGEMENT OU DÉCHARGEMENT DES VÉHICULES Assistment A DISPOSITIONS PARTICULIERES L'ambiagement d'une aite de stationnement devant une façade d'un bitiment principal est prohibé - article 633 Le pourcemant minimal de la superficie des caues de stationnement arrefragées set un lot aui doit être souremante est de 80 % - article 586 Type 9 Public ou sécrétatif AUTRES DISPOSITIONS PARTICULIÈRES

RATIONAL PRINCIPLES

- Conserve urban trends at the ward or the street corner scales, within the city core.
- Cut-off strict zones with detailed limits adjusted to existing collateral situations.
- **Respect** of owners' vested interests, with intention to gradually reduce constraints.
- **Promote** large (sub-)urban differentiated zones with sharp **functional** separation (*e.g.* residential sectors, industrial parks, shopping centers, public institutions, CBD, ports, stations, and airports, parks and playgrounds, agricultural,...).
- Install projects at "the best place for the best (profitable) use", in order to reduce usage conflicts and constraints, with respect to road structures for good access.
- Inform all citizens about zoning regulation based on participative decision making or acceptation, what impedes discretionary decisions on derogations or permits.

CONCERNS, ACTORS, APPROACHES

- Politician, local/city or regional/metropolitan
- Municipal administrator and the Bureaucracy: permits, taxation
- Assessor (market value within the area)
- Architect, Urban planner
- Geographer, Cartographer
- Local citizen, small individual owner (residential, commercial), taxpayer
- Urban or environmental Activist, association for tenants' rights
- Promoter, developer, investor, speculator, project manager
- Construction industrialist

REASONS FOR ZONING, OR NOT

- **Control**, permit, obligate, forbid, or impose procedures on the territory.
- Set apart zones with distinct dominant urban functions, possibly conflicting each other, or causing nuisances, traffic, etc.
- Freeze, protect, consolidate, comfort, complete existing built areas, thus fix norms to adapt changes, improvements, or new buildings or usages with respect to the real situation to perpetuate.
- **Prevent**, protect, or **reserve** identified hazardous, natural, or cultural sites from intensification or development due to new buildings and usages.
- **Identify** fallow or waste lands, brownfields, greenfields, or wild sectors, without clear actual purpose, to be prepared to receive later projects of investment that will enhance, exploit, or develop their best **potential**.

HOW AND WHY ZONING PLAN CHANGES?

- Authorities call **public consultation** and participation regarding their proposal designed by planners, before adoption of the whole zoning plans, maps, by-laws (specifications).
- So, zoning is perceived as stable and **permanent**, engaging all citizens to get **informed** of the same rules applied on their places. Formal revision process will come by decades.
- Demands accepted for little **derogations** on very specific situations, with respect to plan.
- Newcomers in the block buy parcel-lots (built or not) as an opportunity to make profits.
- They ask for **changing norms** as constraints to a more profitable project than permitted, then engage in trade-offs about counter-part amenities, compensation, and future taxes.
- Local citizens perceive such demands as offensive from outside their zone, then fear consequences on land value or taxes. If change accepted, lost confidence and credibility on the zoning plan and municipal administration, without any visible advantage locally.
- Important change in a zone can raise or decrease value and potential of neighbours.

FUNCTIONAL PLANNING AND DEVELOPMENT OF LAND

- Spatially discriminates economic functions (about 5 to 7, plus some hybrid ones).
- Imposes strict norms specifically to each zone (or type of zones).
- Favours any investment, seen as improvement to the functional area.
- Plans infrastructures, access roads, and urban services consequently.
- Consolidates wide zones with large development projects.
- Considers incentives and relocation for reducing nuisances, prejudices.
- Justifies detailed constraints with fair competition and uniform justice.
- Views urban planning and zoning as technical policies, not politics.
- Changes willingly zoning norms or limits to accommodate new interest development.
- That led to dormitory suburbs, large industrial or protection parks, urban sprawl.

CONSERVATIVE CONTROL OVER DEVELOPED AREAS

- Freezes the urban situation within larger city perimeters, instead of zones
- Prefers uniformity or harmony character of the place
- Reduces to eliminate sources of harm, prejudice, nuisance, pollution, heavy traffic
- Reduces to vanish derogative vested interests, but accepts little derogations
- Minimizes opportunities of new activities, usages, developments
- Opposes to densification, gentrification, disharmonious renovation or renewal
- Resists to large external investments that should rise taxes around
- Claims for local social and urban services (schools, kindergarten, parks, libraries)
- Insists on democratic power and control of local citizens over neighbourhood
- Takes part to public meetings and trade-offs to fix the plan and by-laws, locally

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Functional distribution over a non-developed land area = Zoning

When it is time to redevelop: You turn off the game.



EVOLUTION OF ZONING TRENDS ALONG THE CENTURY

- Sector restrictions or interdictions on harmful activities
- Protection of historical, heritage, cultural, natural sites
- Euclidian zoning on determined districts
- Spot zoning (and some kind of *gerrymandering* in zone design)
- Flexible zoning on floating area
- Postponed zoning (land reserve, brownfields)
- New Urbanism, convenient derogations compensated by public amenities
- Form-based codes, more consistent, predictable patterns of development
- Sector Planning Program for re-development above zoning plan

CONSEQUENCES OF ZONING, RE-ZONING, DE-ZONING

- Complexity of detailed normative zoning and piecemeal changes on it challenges the struggle over the land for site improvement and return on investments.
- If more and more rules and norms, then more and more demands for derogation.
- Too small (one spot parcel-lot) or too wide (a complete district) zones are critical.
- Bureaucratic procedures harass against small owner's initiatives and requests.
- Density ratio (building/ground surfaces) considers access and traffic capacity; demand for densification should too (not just architectural design, height, shadow)
- Intensive demand for permits, derogations, and changes: fees as a kind of taxation!

URBAN DENSIFICATION

Quebec City

Densification into Low Density Residential Zone



CRITIQUES OF ZONING

- Today, usefulness of even "soft" zoning is criticized as promoters' demands for derogations and changes increase.
- Who absorbs or endures the univocal changes in zone characteristics and the parcel-lot values there? Who captures the increase in value, the "plus-value"?
- Political authorities are willing to make discretionary decisions based on business and taxation reasons, whereas local public acceptance is weak or opposed.
- Norms appear actually no more than indications or references for settling (re)development plans larger than the zones; they are no more strictly essential.
- Restrictions impede individual construction initiatives that would meet emerging societal needs, like multi-generational housing or urban agriculture on roofs.
- Many do question the decline of public interest in zoning and the justification to maintain it as the main instrument of control over land, building, and usage.

CONCLUSIONS

- The rise of the functional Euclidian zoning led to generalisation of this municipal control and planning instrument which, after normative consolidation and bureaucratic operation, distances citizens from comprehension and just usage.
- The decline of zoning through more flexible and adaptive plans and procedures, with derogations and higher level plans, questions its usefulness in the future.
- The impact of small-size but heavily-regulated zones on land and building values, thus on municipal tax revenue, seems contradictory in context, and cannot be correlated with any clear links between cadastral, zoning, and tax maps.
- If zoning cannot provide sustainable urban development, one should look to an integrative and evolutionary 3D multipurpose cadastre that would help to harmonize land management with ownership and new societal demands.

THE LAW CREATES THE CRIME!

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