The Role of Local Government in Bottom-Up Climate Change Action

Jessica Bacher Josh Galperin

GC3's Exploring Climate Solutions Webinar Series • September 2016

What is bottom-up governance?

Bottom-up v. Top-down Governance

Approaches to Bottom-up Governance



"The rapid and often uncontrolled growth of cities"

"...to assess the countries' progress in achieving sustainable development and tacking urbanization within their cities..."

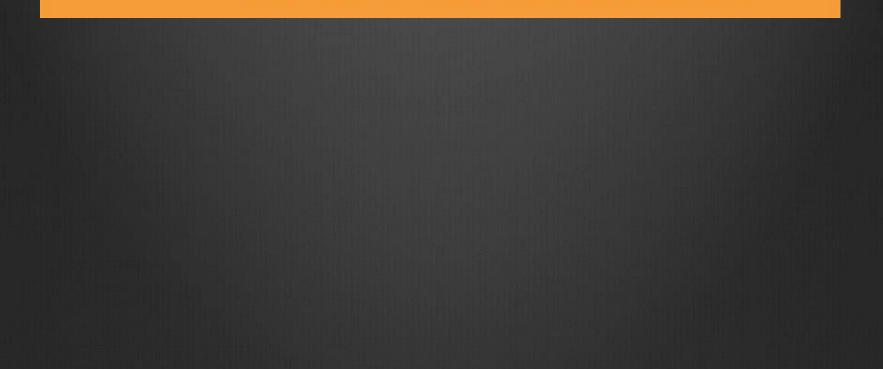
"...to assess the <u>countries</u>" progress in achieving sustainable development and tacking urbanization within their <u>cities...</u>"

"...power devolved to the local municipalities and authorities because they are better quipped to respond to rapid changes."

"...international actors increasingly are recognizing the urban and local government dimensions of climate change."



Make cities and human settlements inclusive, safe, resilient and sustainable



PARIS2015 UN CLIMATE CHANGE CONFERENCE COP21.CMP11 "...Parties should, when taking action to address climate change, respect, promote, and consider...local communities..."

> PARIS2015 UN CLIMATE CHANGE CONFERENCE COP21.CMP11

"We propose that the COP 21 outcomes provide a mechanism for non-state actors to signal their enforcement of the goals of the 2015 Paris Agreement and formalize their own climate change contributions."



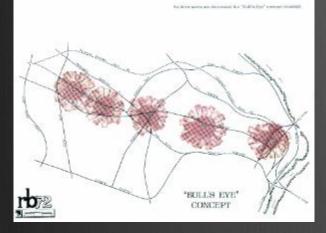
I.C.L.E.I Local Governments for Sustainability

C4O CITIES

Land Use Collaborative



Land Use Collaborative





Transit Oriented Development

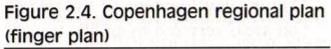


INTERNATIONAL EXAMPLES

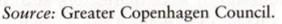
THE "FINGER PLAN" & UPDATED MUNICIPAL PLAN OF COPENHAGEN Copenhagen, Denmark REDE INTEGRADE DE TRANSPORTE (RIT) – CURIBITA MASTER PLAN Curitiba, Brazil GUATEMALA 2020 Guatemala City, Guatemala TRANSIT-ORIENTED DEVELOPMENT ZONE Delhi, India TIME – A 265-UNIT, MIXED USE PROJECT NEAR SEABUS PUBLIC TRANSIT North Vancouver, Canada RAIL PLUS PROPERTY (R+P) DEVELOPMENT Shenzhen, China THE TRANSIT ORIENTED DEVELOPMENT FRAMEWORK The City of Calgary, Canada

Copenhagen

Chapter 2. Land Use and Urban Form: Planning Co



Much of the urban form of Copenhagen is owed to its famous 1947 regional fingers plan, which required major new growth areas to be sited along the transit lines, with large wedges of greenspace preserved between the growth fingers.





U.S. EXAMPLES

TOWN OF DOVER TRANSIT ORIENTED DEVELOPMENT PLAN Dover, New Jersey STATION AREA TRANSIT ORIENTED DEVELOPMENT PLAN (DRAFT) Linden, New Jersey MORRISTOWN CODE OF ORDINANCES FOR TRANSIT VILLAGE CORE ZONE Morristown, New Jersey CITY OF RAHWAY MIXED-USE ZONE Rahway, New Jersey TRANSIT ORIENTED DEVELOPMENT ZONING DISTRICT REGULATION Meriden, Connecticut TRANSIT-ORIENTED COMMUNITY DEVELOPMENT FUND Seattle, Washington LIVABLE CENTERS INITIATIVE Atlanta, Georgia METRO (MPO) – TOD IMPLEMENTATION Portland, Oregon

Green Buildings





INTERNATIONAL EXAMPLES

MUNICIPAL BUILDING CODE Carugate, Italy CITY OF HANNOVER ENERGY PLAN Hannover, Germany CLIMATE ACTION PLAN Münster, Germany Green roof tax incentive Mexico City, Mexico

U.S. EXAMPLES

GREEN BUILDING AND GREEN POINTS PROGRAM City of Boulder, CO **BUILDINGS REGULATION ORDINANCE** Doraville, GA CLIMATE ACTION PLAN (CHAPTER 3, ENERGY EFFICIENCY AND REDUCING ENERGY USE), FOUNDATION FOR ENERGY EFFICIENCY PROGRAM PLAN Fremont, CA BUILDING SERVICES FEE SCHEDULE – GREEN BUILDING **INCENTIVES**

Catawba County, NC

Vegetated Carbon Sequestration



INTERNATIONAL EXAMPLES

THE BAIX LLOBREGAT AGRICULTURAL PARK Barcelona, Spain WATER MASTER PLAN & RAINWATER CAPTURE Singapore THE HILLS FACE ZONE (HFZ) Adelaide, Australia MANDATORY GREEN ROOFS ON FLAT SURFACES Zürich, Switzerland BEIJING-CHENGDE WATER RESOURCE PROTECTION PROGRAM Beijing, China **GREEN INFRASTRUCTURE INCENTIVES** Sao Paulo, Brazil

Switzerland



U.S. EXAMPLES

RAIN TO RECREATION – VIA VISION 2020, LENEXA, KA'S COMP PLAN Lenexa, Kansas GREEN INFRASTRUCTURE PROVISIONS IN MUNICIPAL CODE Emeryville, California **OPEN SPACE ZONING PROVISION** West Manchester Township, Pennsylvania STORMWATER MANAGEMENT ORDINANCE Chicago, Illinois ALACHUA COUNTY FOREVER & Wild Spaces Public Places Referendum Alachua County, Florida GREEN ROOFS PROGRAM Chicago, Illinois





RENEWABLE ENERGY



INTERNATIONAL EXAMPLES

SOLAR HOT WATER MANDATES Rizhao, China MUNICIPALITY SOLAR THERMAL ORDINANCE Barcelona, Spain SOLAR HOT WATER MANDATE Cape Town, South Africa BYLAW FOR INSTALLATION OF SOLAR ASSISTED WATER HEATING SYSTEM

Rajkot, India STANDARDS FOR SUSTAINABLE BUILDING CODE Edinburgh, Scotland SOLAR MASTER PLAN Berlin, Germany ADVICE ON RENEWABLE ENERGY DEVELOPMENT AND USE POLICY FRAMEWORK Kunming, China ZERO NET EMISSIONS BY 2020 STRATEGY Melbourne, Australia **TAX-BASED SOLAR INCENTIVE** Municipality of Thane, India TAX CREDITS FOR RENEWABLE ENERGY **INVESTMENTS** Navarra, Spain LOW CARBON BUILDINGS PROGRAM Oxford, UK GREEN ELECTRICITY AND GREEN HEAT CERTIFICATES Tokyo, Japan

U.S. EXAMPLES

WESTERN PA ROOFTOP SOLAR CHALLENGE FINAL SOLAR ZONING ORDINANCE (DEALING WITH SYSTEM TYPE) Western Pennsylvania SOLAR ZONING ORDINANCE (DEALING WITH ENERGY USAGE) Casco Township, MI LOCAL ENERGY PLAN Portland, Oregon

GOSOLAR

San Francisco, CA



Building the Human Infrastructure for Collaborative Bottom Up Governance



Imagine...







Contact Information

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