Comprehensive Climate Planning November 17, 2011 Julia Parzen, USDN

- Current Context for Climate Action Planning: All About Benefits
- Lessons from the Chicago Climate Action Plan (CCAP)



OUR CITY. OUR FUTURE.

### Making the Case By the Benefits

For the Community



#### **For the Municipality**



#### **F&F Foods** INDUSTRIAL CASE STUDY A Way to Save the City and Residents Money



cisinus 4462



F&F Foods produces cough drops, mints and various over the counter vitamins and tablets for the confectionary and pharmaceutical industry. The total footprint of their buildings is 153,444 square feet.

#### ENERGY COSTS:

\$280,121 per year (including electricity, gas and water)

#### ACTIVITIES UNDERTAKEN:

Upgraded to new process technologies

Replaced existing boiler

 Installed a new closed loop cooling system with a cooling tower that would reduce plant water consumption by over 11,524,099 gallons/year

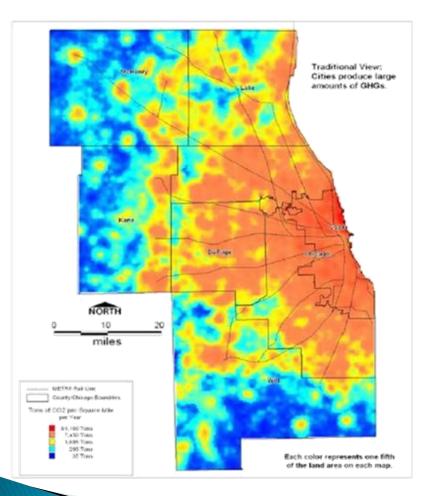
> COST OF AUDIT AND RETROFIT: \$785,400

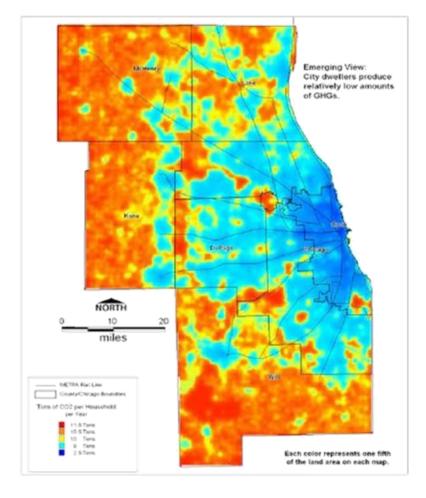
> > COST SAVINGS: \$296,500 per year

2.65 years

CO2 REDUCTIONS: 218,841 pounds per year

### **Two Views of Where GHGs Produced**





### **Ex. Transit Oriented Development**



- Transportation # 2 Household Cost
- •When workers buy homes far from work, they often end up paying more than  $\frac{1}{2}$  their income for H + T
- •Building housing close to transit reduces car use, lowers transportation costs, reduces congestion (and reduces greenhouse gas emissions)
- •By 2030, the # of US HH wanting to live near transit will grow from 6 M to 16 M (U.S. Census) and they can be accommodated

### A Way to Organize To Exploit New Markets and Job Creation



What needs to be done to protect vulnerable citizens from heat-related illnesses?

#### A Way to Preserve Quality of Life

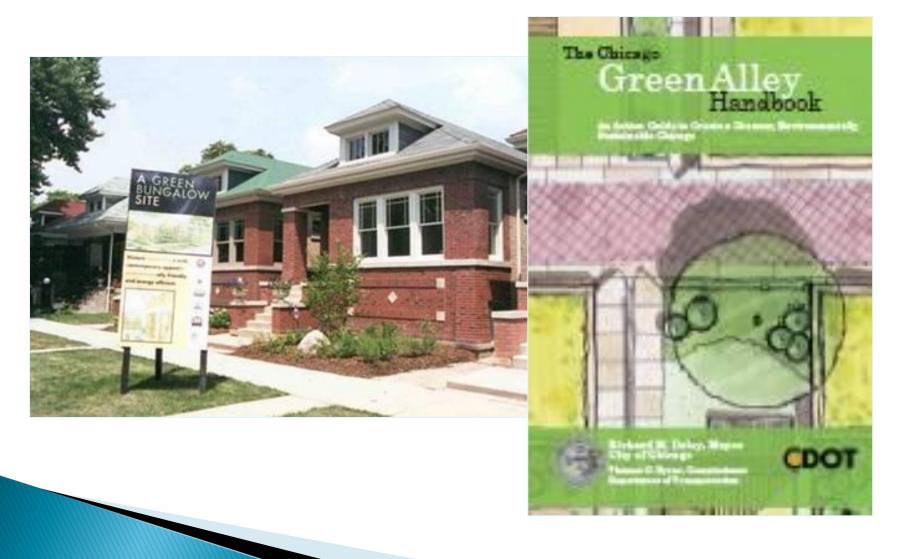
Higher Emissions: 31 days

# 5 days 1961-1990 2010-2039 Igher Emissions Scenario

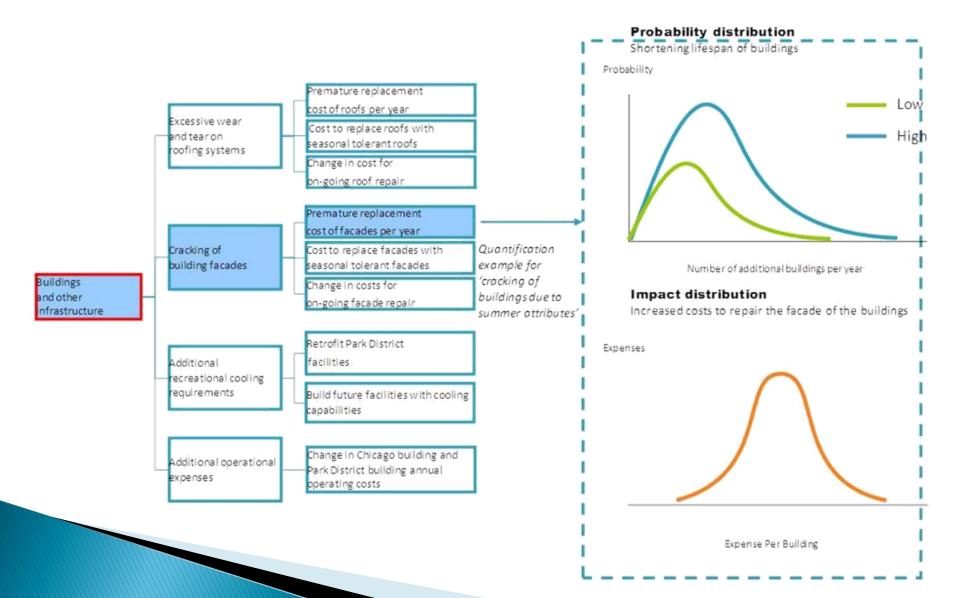
### Lower Emissions: 8 days

U of I Research Team

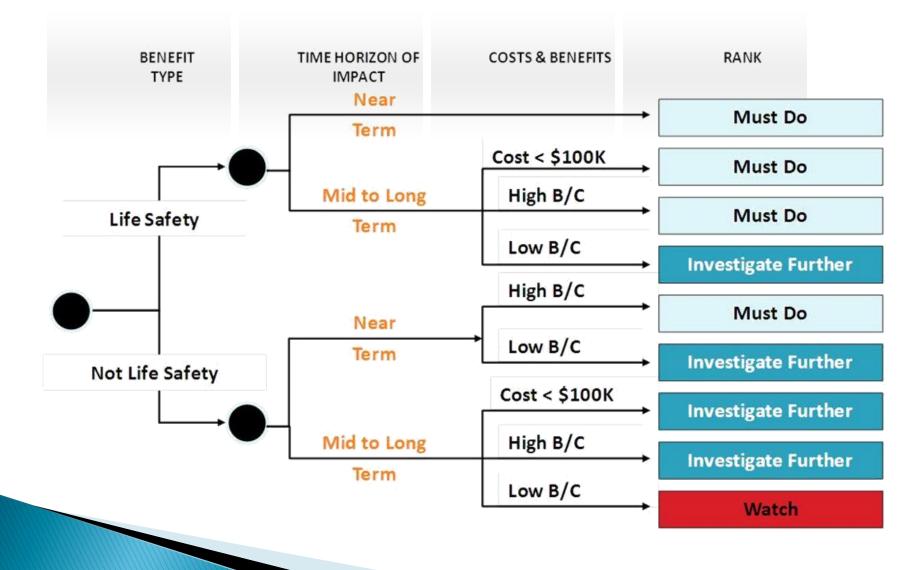
### A Way to Organize & Build on Current Initiatives & Leverage Current Resources



## A Way to Improve City Planning



### **Prioritization Process: Adaptation**





A Way to Build Cross-Departmental Learning & Improvement

And Long-Term Partnerships and Collaboration Structures



### A Way to Get Ready for New Federal RFPs



#### **Green Jobs Act**



#### Green Infrastructure

### A Way to Build Philanthropic Partnerships



THE LLOYD A. FRY FOUNDATION

### The Joyce Foundation

### GRAND VICTORIA

DEPARTMENT OF COMMERCE AND ECONOMIC OPPORTUNITY

#### **The Legacy Fund**



The foundation for greater Chicago giving



#### WILLIAM J. CLINTON FOUNDATION

### **Lessons From CCAP**



#### OUR CITY. OUR FUTURE.



ADDRESSING THE CHALLENGE OF CLIMATE CHANGE

#### ENERGY EFFICIENT BUILDINGS

8 ACTIONS 4.6 MMTCO 2e

#### **CLEAN & RENEWABLE ENERGY SOURCES**

5 ACTIONS 5.331

5.33 MMTCO 2e

IMPROVED TRANSPORTATION OPTIONS 10 ACTIONS 3.61 MMTCO2e

### REDUCED WASTE & INDUSTRIAL POLLUTION

3 ACTIONS 2.03 MMTCO 2e

PREPARATION

9 ACTIONS

15.1 MMTCO 2e

35 WAYS

TO ENSURE A RESILIENT CITY

# STRATEGIES

CHICAGO

ACTION

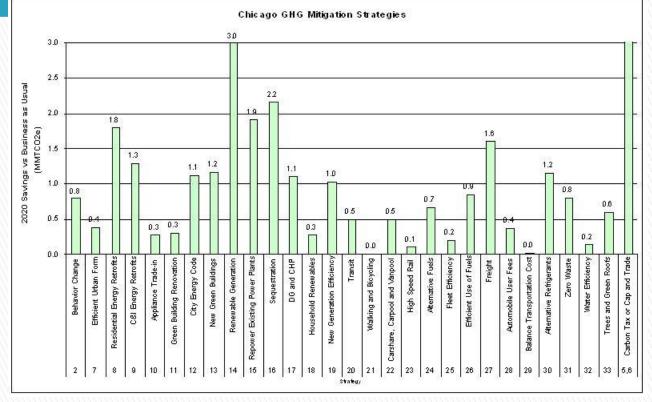
## Summary: 5 Layers of the Plan



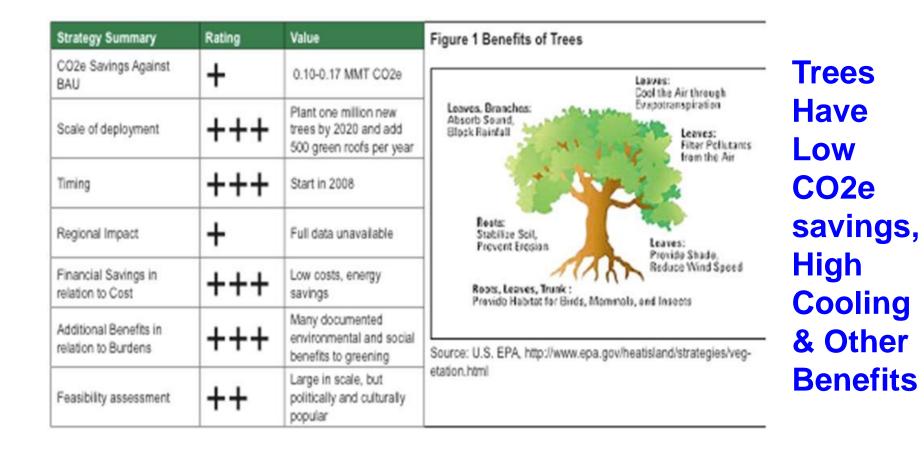
### **Deep Assessment**

### Helped Chicago to:

- Understand Impacts Of Action & Inaction
- Choose Ambitious, But Doable Goals
- Prioritize Actions
- Demonstrate Credibility Of Decisions
- Engage The Public
- Track Performance



### **Illustration: Power of Assessment**



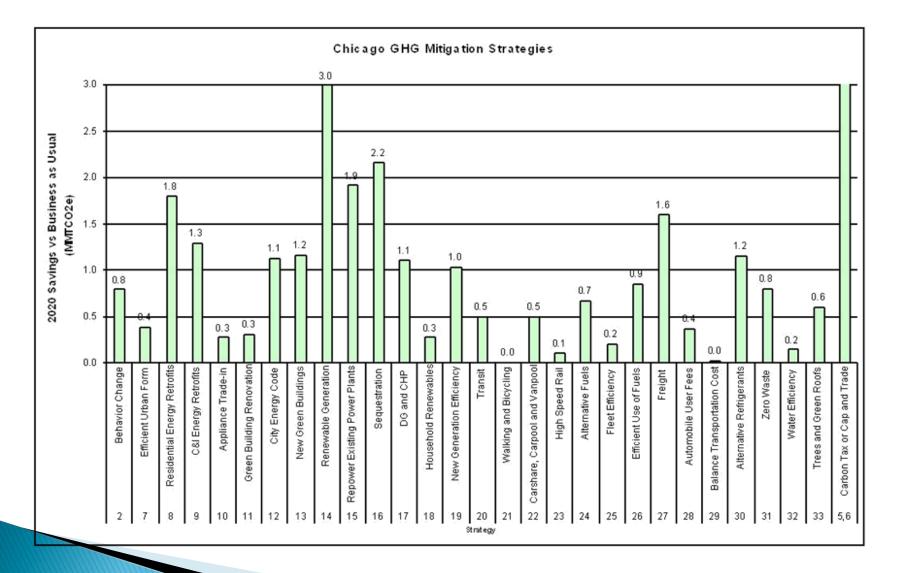
### 12 Page Overviews for Each Action:

Including Recommendations for Potential to: •Scale up Current Programs •Import Programs from Other Cities •Achieve Other Benefits (Jobs, Cost Savings, Etc.)

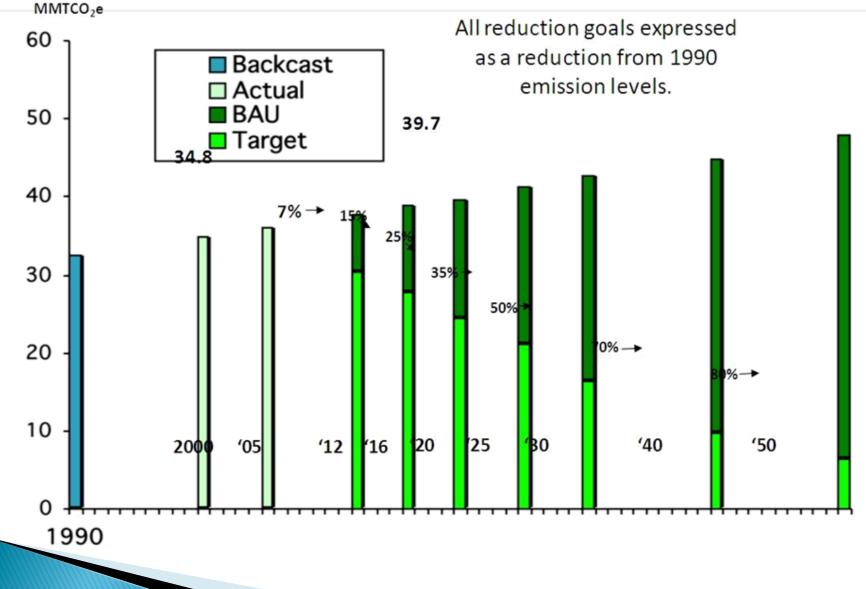
> Ex. Residential Building Retrofits

Strategy Summary	Scale	Value
CO2e Savings Against BAU	+++	1.3 MMTCO2e
Scale of deployment	+++	400,000 homes
Timing	+++	beginning with 6,000 homes in 2008
Regional Impact	+++	2.5 MMTCO2e
Financial Savings in relation to Cost	+++	12.5 – 30% ROI
Additional Benefits in relation to Burdens	+++	affordable housing
Feasibility assessment	+++	proven models

### **Goals for Each Action**



### **Annual Reduction Goals**



### How Chicago Did It: Deep Assessment

- Research Advisory Committee, Expert Consultants
- Research on likely priority climate change impacts
- Emissions baseline & projections
- Scan of current city initiatives, resources and capabilities
- Scan of funding & other opportunities
- Benchmarking against best practices from other cities
- Prioritization process for mitigation & adaptation options

## **Broad Engagement**

#### **Helped Chicago with:**

- Expert advice
- Offers of resources and partnerships
- Increased crossdepartmental collaboration
- Buy-in



### Multi-Stakeholder Task Force



#### **Recommend to the Mayor:**

- Goals for GHG emissions reductions and preparation for climate change
- Actions to achieve the goals
  - Strategy to engage all of Chicago



### **Departmental Engagement**

Multi-Stakeholder Task Force and Working Groups	
Green Steering Committee	<ul> <li>Departments and Sister Agencies</li> <li>Monthly Meetings</li> </ul>
Multi-departmental working groups	<ul> <li>Developed Plans</li> <li>Periodically Will</li> <li>Update</li> </ul>
Sign Off By Every Department on Plan	

### **Public Outreach**



### How Chicago Did It: Productive Planning and Engagement

- Hire expert facilitation
- Involve researchers in the process
- Develop Engagement Plan
  - Task Force
  - Departmental Steering Committee & Work Groups
  - Other Committees/Sector Groups
  - Summits (Business, Community, Labor)
- Plan for at least 3 meetings
  - Introductory Briefing
  - Brainstorming
  - Prioritization
- Develop communications function and plan

### Early Start on Implementation

### Helped Chicago to:

- Identify barriers before go public
- Show early progress, which built support and countered skepticism
- Have time to learn and manage expectations
- Be ready for new federal resources for climate mitigation and energy



### Detailed Implementation Plans: Retrofit Example



### How Chicago Did It: Rapid Shift to Implementation

- Develop and staff Working Groups
- Develop assessment plans, budget and funding
- Develop and implement performance tracking plan
- Hire consultants
- Include in each plan:
  - Benchmarking and Inventory
  - Financing strategy
  - Communications and public engagement plan
  - Performance Tracking Plan
  - Costs and Benefits
  - Jobs and Economic Development Plan

### Performance Tracking to Inform Continuous Improvement

🕒 🔹 🛍 hitu	//dc07ap=0/pb-views/We	Client, Index.4	NSDIA								~	*• × 0.0	çle :		0
	s 🔊 Free Hotmal 🗿	Windows 1				~					-	-			
Y! . e.		Ad.	Search We	•• K 4	3*	24 O 1 44	Upgrade your T	oobar Now •	Coner - I	append .	Thy Yahoo!				
Actuale 2	Performancesoft Views		1000							1.000		08.7.6		/ Page + C	1008S
CTUATE.		1 💷 ? ।	Server DC07APV	vð.	Detabase	COCTRAIN	U	DOE PM	Liaison 🍟	(F) Logo	JA				
Comparison	Actual vs. Target				*	Location E	nvironment				2	Per	ed (4) 2000/1		-
Actors - 0	Links • E-mail •	E 70%	-0 00-	8 50	199 8										
			111		40										
			Ourbane Estates	un ()	Constant	0	american a		É						
			Distant	T I I	Brutroment Cold-MacCold	U Int	Brotromett	Fat							
			DOB-LICATERD NCTEAL FAMILY	-	ORP-GICATE #1 AUTENS THREAT		DIB-LICKTERD ACTENL ExableT	-							
			HIGH HING	11.175	MART ATRIA	10.05	MIC: MIC: ANNOL VIEGAT	23.345							
			CORRECT	-	LANDER SCHOOLER SCHOOLER TURE	ALE LUBRA	COLUMN DE COLUM	Lage Textures							
			14(0)	Grag	ide (S)	0.00	H (C)	914							
	C) Land		(inste	0	(barg)		(insula	a	BARRANT CO	oglaine D	Continue Income	Pagarda .C			
discount .	C Butroment	0	Bulture et.	0	da una come en t	0	the amount of	0	Regulation and	0	Bronnent.	0			
18-408-001485 18-404-478-80 78-44	Reference Selenceries Between Selenceries ACTEN	Therese .	CREASEACEREC DREADLATERO ACTEAL	Statute -	DEFENSION BO	1000cm	DES-SECONDEL DES-LOCATERS ACTENS	-Bater Transact	DES-SECONTED DES-SECONTE ED ACTORS	Onest British	DES-BRADERED DES-LICATERES ACTEAL	-Ber-			
AROUT	- Tranger		TARGET BARL BERLANDOR	-	TUADET BEET		71.808T #101 #101 11.808	-	110007		115087 #161 #161 Avenue				
COAT CARLES	1.2% //BOYT - LATINES	0.2%	UNIONT	61.2%	CODENT CODENT	11.27	TODENT	11.20%		(+3%	CORDERT CORPORATE No.1100.000	1+395			
114	Chine Tirts	Tatagain. Ding	1178	Canal Canal	A UNFORT	BIE III Brands Game	5.000000E	Constants Carina	7178	Constitution Constitution	1.78	11-Main			
	(F) (F)	E.	94 (M)			18	and -	-12)	4 14	1		12.			
Dashboard -	Windows Internet Ex	plorer						DOCTORE	0	Build of Balling of State	wytebo it O	S Process ma	alter C		
many Index C	Tart Data Chart Data 1	able Direct D	ata Entry Clane	unlary Into	0			Buttorealt	0 10000	Bollowert	O Pancar	Bernard .	(Marcan)		
Favorable Hear	ings (Environment)							ALTENA TAROET		CREWN, FTERD ACTENE TAROET		CHRACOLATERS ALTERS THACKET	10.30%		
ata chart   <u>Buter</u>	STORY STORY						61 61	BER ANDE	27.075	ASC: ASC- ANADE LIEBAT	21.00%	HIDDAT	00.45 00.07 25.005		
2 so.co	1D		2 2		1.00	20.00	rGood	N UNPERSON Internet Total		NUMBER OF THE		N VINDACE DVINEP Tota	C.A.		
2 85.00		-					4	H(G)		CHIC:	10	19100			
a 2006/	01 2006/02 2006/03		2008/06 2008/07			008/11	Bed		a marrys Drive	feet .	d Honorge Libble		STUTE Martings Co	terar bet	-
to chart   suc-		and Artis	- Tend		evinet Year		6113		En et unter and	6315	de versen and		Buttingent	1/20011	
his Year by Qua									DREADORTER DREADORTERO NUTRA		040000-09700 090-0/C/7040 5/7845		Destablished Destablished AUTEAL		10114
2 90.00	8	-		-	-		Good		114047 #201 #201 11408	-	110587 #301 #101 01800	-	11000 010- 010-1-000	-	11,854 #101 #101
§ 85.00	-						end .		UNITABLE SUPPORT		NUMBER OF STREET	÷	University NUMBER	÷	10000
-64	2008/01	2008/G2	- Terret	2008/03	without Yang	008/04*	10000		THE	100	1010	APRIL PR	TUTE	ALTER LAN	TIPE
Display period o	mity data								the last	340	(CC)		Contras.	0.0	- de C

#### CCAP 2008-2009 DASHBOARD PROGRESS BY ACTION - DRAFT

## Tracking By Action

	,	Action			ika Smislaman	wite
			2003 Januar	1010	20/20 Gea/	Units
	, <b>1</b>	Commonical industrial referiña	192	1.10	9,000	avara.
-		Success and Success	.24,823	$\mathbf{a},\mathbf{c},\mathbf{r}$	+02.005	t angi
	3 e	Applands theiring	n, 91	4.81	187,000	As align on
~	23	.4°5.53	3.47	10	4.55	enér-
Energy Efficient Buildings		Conserve water	-34	-10	38.54	the spaces user set to
Cent	5	Veddared, every loods		41	41,00	diam.
10 AG	•	New guildlines, for renew diana	:0	-	115	
ã -	7.	1940	21.4	27.2	: 2.1	" sur un'tre t'
-	ξŀ.	Grain Rodate	- 14	710	64.	-refer
	54	Kandardal karega shafarga	1,100	9,200	194 (CC) -	Arristan (s
-	52	Giller Office Glaberge	-	540,000	217,440	άφικ:
Clean Energy ***	11	NG SHORE CODES	2.49	303,000	3.000.000	141.0
	12/13	Salvulai garantar a' ranakada dashab	: =	14.00C	1.00.000	10.×
	14/15	Investment in stands &			38.7	n d'atendan 19 alto
-	20	Trans Clarantes Covelactment	цb.	40	100	: 30
	374	22.00g **	1.12	6.2	33.8	fed contractors
	276-	Skry"	1.04	5.12,	1,000	Set operations
tation	154	Ger man	626	780	6,300	we want and
Ransportation	185	Zer annen g		6.00	68,200	Conversion of
ã I	19	traigue fact efficiency	<b>2</b> 2.	241	3.039	1970 and <b>2</b> 141 dec
	10	Nud officients/"standards	10	0	24.5	- 145
	31	aviden de leisenen fvak	240	30	76,000	Secondera
	-	Sauce ready with	1.12	: 2	. 2.91	Mar system
	22	terresting) englend:	-	1.29	30	10
					_	

2020 Gm

### How Chicago Did It: Managing a Complex Process

- Plan for Staffing
  - Internal Team
  - Nonprofit / External Project Manager and Partner
- Secure Support and Liaison from Mayor's Office
- Create a Plan and Time Line (1 Year +)
  - Assessment
  - Planning and Outreach
  - Implementation
- Develop Budget and Funding Partners
- Choose Research Advisory Committee and Consultants
- Choose Task Force and Committee Members

## **A Nonprofit Partner**

### Non-Profit Partner Roles:

- Strategy
- Project Management
- Facilitation
- Partnership Building
- Fundraising
- Grant Management
- Contractor Management



Summary: What Chicago Says About Factors for Success

- Using Climate Action As A Means to A Common Vision for Prosperity & Resilience
- Early Support From the Mayor
- Early Support From Government, Civic, and Business Leaders
- A Senior Level Champion
- Dedicated City Staff Time
- Strategic Non-Profit Partner
- Solid Analysis
- Systematically Building on Existing Initiatives
- Dedicated Analysis and Planning Funds
- Foundation Partners
- Task Force of Supportive Local Leaders
- Process for City Commissioners & Sister Agencies
- Frequent Public Events and Climate Summits
- Early Start on Implementation
- An Aligned Communications Strategy
- A Mechanism for Tracking Progress

### **All CCAP Reports Available**

#### http://www.chicagoclimateaction.org/pages/rese arch\_\_\_reports/8.php

