CHICAGO REGION TREES INITIATIVE

Our Trees.
Our Communities.
Our Future.

Trees: Equity for Climate Resilience

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CRTI: Chicago Region Trees Initiative

Vision: The Chicago region will be the most verdant, most livable, most resilient region in North America

Mission: CRTI believes that trees are critical to achieving this vision.

- Trees are healthier and more abundant, diverse, & equitably distributed
- Provide benefits to all people and communities that live in the region
- 4 goals
  - Inspire people to value trees
  - Increase the Chicago region's tree canopy
  - Reduce threats to trees
  - Enhance oak ecosystems

Why Trees?

Social
Make us happier

Financial
$1.37-$3.09 return for $1 planted
(environmental improvements)

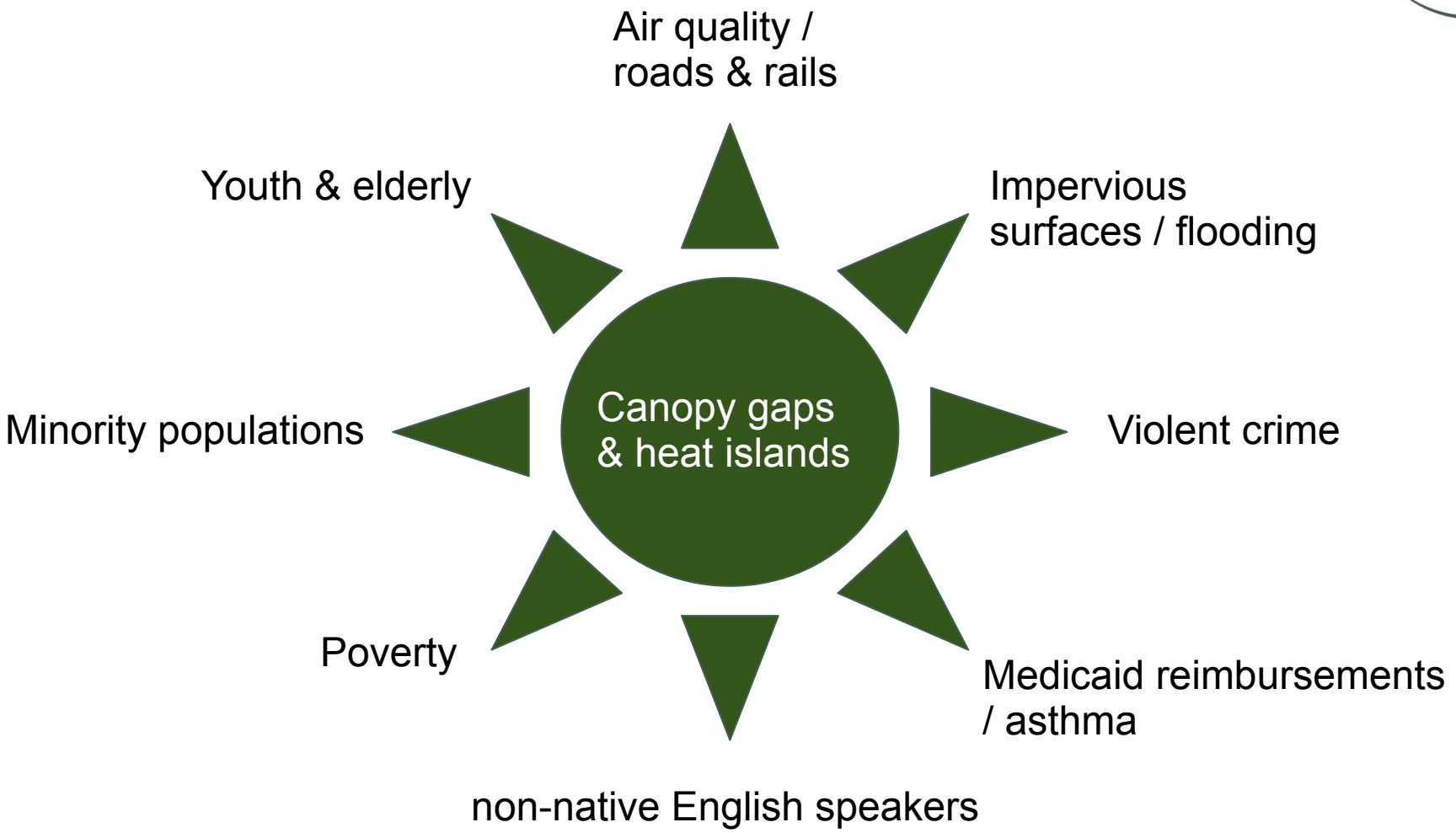
Physical / mental health
Healthier lives

Stormwater
Reduces flooding & pollution

Tree Data: Making data usable

- LiDAR
  - Ground-truthing / tree census
  - Tree inventories
- Size classes
- Comparing to socioeconomic data

Data Comparison: Vulnerabilities



Data Comparison: Vulnerabilities

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Muni	Pop Density	Housing Density	English 2nd	Percent Poverty	Median Household Income	Percent food stamps	% un-employed	Percent minority	Total medicaid reimb.	EPA Toxins	Imper.	Temp.	Rank
2	Addison	3,509.57	1,175.21	12.208	6.9323	59,372.36	12.066	11.08235	29.4526	1,470,900.81	2.4335	43%	79.29	34
3	Algonqui	2,204.39	745.86	3.2159	2.8883	98,061.61	2.7002	8.605452	13.7902	1,499,442.52	1.3713	23%	75.01	167
4	Alsip	2,776.20	1,006.81	4.1815	6.3176	56,138.81	12.855	12.54974	29.1893	2,142,120.52	2.8172	45%	79.31	30
5	Antioch	949.20	343.22	1.1403	6.2489	79,061.38	7.3366	8.525373	10.3141	1,399,221.06	1.3295	18%	72.25	203
6	Arlingtor	4,740.62	1,878.31	7.0822	3.2819	80,706.92	4.206	6.264979	12.7253	2,205,230.94	2.3064	35%	78.13	100
7	Aurora	4,001.86	1,222.00	6.2086	5.0558	77,260.44	11.749	9.427686	33.9271	945,950.67	1.7251	33%	77.09	84
8	Bannock	1,875.66	530.13	1.3137	1.5722	145,410.22	0.7486	4.748683	11.1711	1,025,061.00	2.0101	19%	73.03	246
9	Barringtc	1,060.27	374.32	3.399	4.7502	110,146.99	3.8823	8.945155	14.5807	1,877,217.55	1.6263	25%	73.84	214
10	Barringtc	544.28	177.65	2.1285	6.2491	118,908.95	3.2607	8.136122	16.8246	2,524,187.42	1.3493	3%	68.47	301
11	Bartlett	2,140.62	726.70	3.868	3.1212	96,723.96	4.1541	7.251144	21.802	1,643,637.50	1.5218	21%	75.13	136
12	Batavia	2,086.02	758.89	1.6369	3.3415	97,048.40	6.3507	7.688572	10.3403	1,424,911.77	1.5855	33%	75.15	138
13	Beach P	1,548.28	533.29	2.9083	4.8595	68,695.64	9.5592	10.10862	36.8764	1,947,582.31	1.2628	14%	71.31	264
14	Bedford	1,660.20	552.59	15.248	5.8842	49,965.19	9.3089	10.6917	18.09	2,183,821.14	2.193	59%	80.26	12
15	Beecher	141.22	51.12	0	4.2	67,980.73	3.98	12.59995	6.80182	4,095,841.62	1.011	21%	74.08	156
16	Bellwooc	7,995.54	2,552.50	2.5495	5.8297	52,456.47	23.424	15.15943	86.4971	1,401,514.72	2.2535	48%	82.81	28
17	Bensenv	2,466.35	858.69	11.29	7.8358	56,050.53	13.013	10.48886	36.2118	1,399,553.69	3.5193	50%	80.56	11
18	Berkeley	2,934.20	1,064.61	3.5102	3.0114	61,838.65	11.049	10.29681	51.0516	2,825,622.99	2.7491	51%	80.47	23
19	Berwyn	14,530.36	4,710.29	9.1743	6.4718	56,969.78	17.059	12.22046	37.8404	1,745,721.50	1.9567	59%	83.29	17
20	Big Rocl	49.18	18.40	0.3009	1.9009	67,114.25	5.7984	11.39492	4.47466	2,116,274.76	0.9794	5%	73.22	239
21	Bloomin	3,416.54	1,327.00	5.1009	4.131	70,945.17	6.6169	7.451523	22.407	1,412,693.97	1.8793	32%	77.24	88
22	Blue Isla	4,954.41	1,731.99	7.1489	8.4174	39,228.71	27.282	15.62418	64.7645	1,612,560.85	2.7091	41%	78.09	43

Size Matters

Size (DBH)	Total $$	CO2 $$	Annual CO2	Storm-water $$	Runoff avoided	Rainfall avoided	Air pollution $$	CO2 $$ to date	Lifetime equivalent
2 in	1.28	0.39	16	0.37	42	116	0.51	0.49	5.7
5 in	3.89	1.33	57	0.93	104	290	1.63	4.54	53.26
10 in	11.23	3.61	155	2.31	258	716	5.31	25.35	297
20 in	25.21	6.07	261	6.15	688	1908	12.99	143	1681
30 in	34.06	5.43	233	10.54	1180	3273	18.09	395	4628
40 in	37.90	7.84	337	11.66	1305	3621	18.39	809	9482

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10 in	11.23	3.61	155	2.31	258	716	5.31	25.35	297
20 in (fair)	21.27	4.97	214	5.04	564	1565	11.27	143	1680
30 in (excellent)	34.06	5.43	233	10.54	1180	3273	18.09	395	4628
30 in (good)	33	5.15	221	10.02	1120	3109	17.44	395	4628
30 in (poor)	22.85	3.36	144	6.54	731	2029	12.96	395	4628

Climate Resilience & Tree Equity

- Who are the most vulnerable among us?
  - How do we know we are able to assist them?
  - Data… but also ground-truthing
- Who should be at the table?
- How can we augment work that is already in progress?

Conclusions

- Trees help people & the environment
- We need to take good care of trees
- It's important to be equitable in allocating tree resources

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