The Environmental Paradox of Density





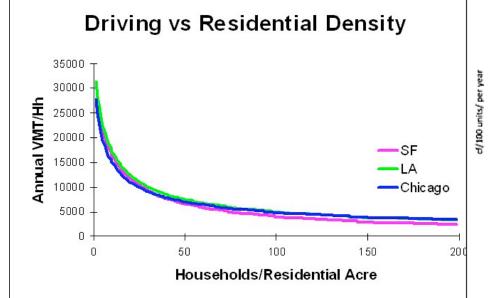


Kaid Benfield, NRDC

© 2011, NRDC

Broken Arrow, OK; Minneapolis

Let's Start With the Good News: Density Helps the Environment



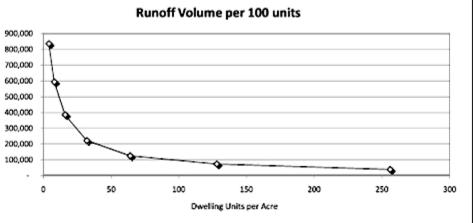


FIGURE 5. Runoff Volume, Per 100 Units Per Year, as a Function of Dwelling Units Per Acre, Model Scenario.

© 2011, NRDC

Holtzclaw, Goldstein et al., 2002; Jacob & Lopez, 2009

The Face of Smart Growth as We Advocate It



Pretty nice, no?

© 2011, NRDC

Vision for Fayetteville, AK

The <u>Actual</u> Face of Smart Growth In Some Cases







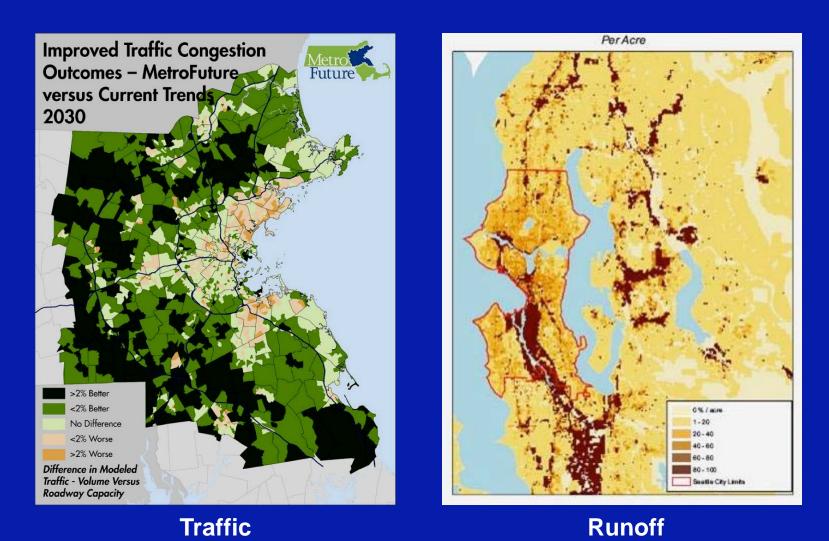
Arlington, VA; Washington, DC/Chevy Chase, MD

Put Another Way:



"I'm willing to go down 10, 20, even 30 points in Walk Score if it gets me away from this noise." - Melanie, in Austin TX

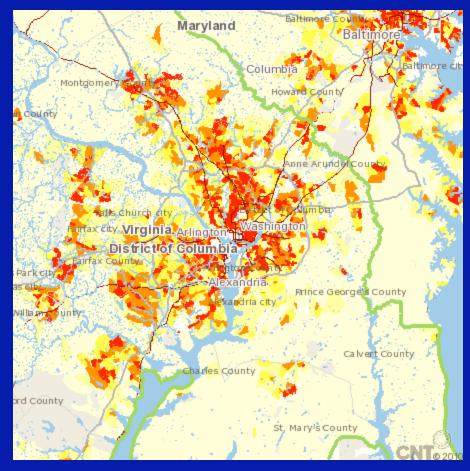
The Bad News: Local Impacts of Density

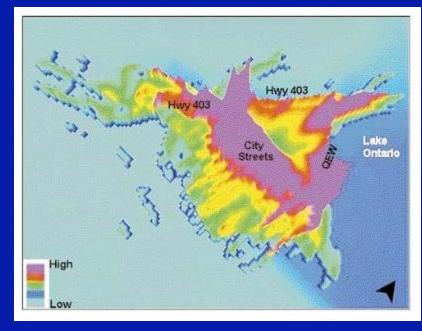


© 2011, NRDC

Metro Boston; Metro Seattle

Emissions





VOCs

CO₂ per acre

© 2011, NRDC

The Environmental Paradox of Density



To limit environmental impacts, we increase them in some places

Kaid's Pet Peeve: Limited Green Space



Transit Area Stats

- 240 acre planning area
- Population as of 2000: 10,944
- Development 1980-2005
 - ➢ 6584 dwelling units
 - ➢ 6.37b ft² office space
 - ➢ 958K ft² retail
- Total park space: around 3 acres, some restricted (0.27 acres/1,000 people)
- Most US cities have 5-35 acres of parks per 1,000 people









"You work so hard to get a house and then someone puts this project in your face and they don't give a hoot about you" - Ever DuBose, Washington DC

Why Not More Like These?







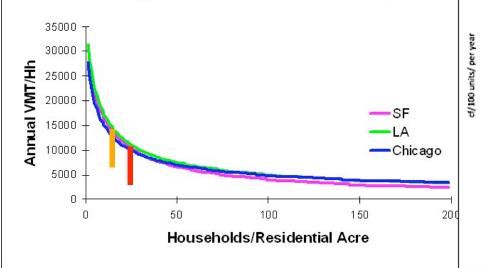


Clockwise from top left: Langley, WA; Vancouver; Sacramento, Vancouver

The Environment Doesn't Require High Density



Driving vs Residential Density



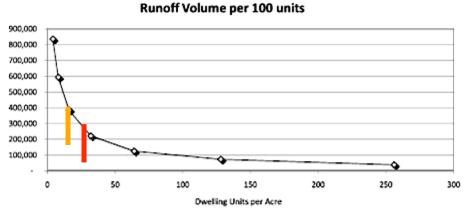


FIGURE 5. Runoff Volume, Per 100 Units Per Year, as a Function of Dwelling Units Per Acre, Model Scenario.

© 2011, NRDC

But We Can Make Even High Density Greener





© 2011, NRDC

It's Not 1995 Anymore

Revisit the product & make it better

- Earn more support by deserving it
- Leave a legacy to be proud of





Kaid's Formula for Addressing the Environmental Paradox of Density

- Understand that density brings consequences
- Mitigate & compensate for them
- Create better ambassadors for density & smart growth

