es difícil hacer predicciones,

es difícil hacer predicciones, especialmente sobre el futuro

average U.S. household replaced their 5 most used lights with would save \$60 a year and U.S. greenhouse gas emissions would be reduced 7% . If the average person drove a hybrid by 2015 it will be larger than Japan's economic trends in Brazil, Russia, India and es to greater than the G6 countries. 👖 Helsinki grows from 485_{ft^2} then 350,000 housing starts are made to reduce per capita water consumption. .9 billion then 6.7 billion people), rise from 380 ppm to 750U.S. by $2050\,\mathrm{then}$ past trends suggest that 72 million will be built at the urban edge. If Seattle adds 1.2 million obs and 1.7 million more people en Seattle will add 8.4 million person

rehicle then each year 16,000 pounds of North Texas grows from **6.4** million to 12 m to 3 million acre-feet (3.7 billion cubic meters). and by 2050 larger than the United States' and av China (BRICs) continue 🎁 🗧 🛭 together their econ $.3_{
m to}\,2$ million persons and per capita floor area vill produce 31.5 million sq m (340 million s hen 36 states in the U.S. will be short of water will be living in cities and $3.1\,$ billion people will be ppm 🚺 🗐 sea level rise will threaten London, To

Creating Blueprints Change

trips per

Demographics Growing Populations



Demographics Regional Migrations



Demographics Shifting Demographics



Climate Change Climbing Temperatures



Climate Change Severe Weather



Climate Change Rising Seas



Energy Reducing Emissions



Energy Peaking Oil



Energy Security Risks



Water Vulnerable Sources



Water Diminishing Reserves



Water Pollution Runoff



Infrastructure Deferred Maintenance



Infrastructure Communication Networks



Infrastructure Unsustainable Patterns



Capital Markets Concentration of Capital



Capital Markets Competition for Capital





Capital Markets Assessing Value and Risk



Metro Metrics

Vancouver's 2008 Average Annual Metro Metrics

Population 2.25 million
50% urban; 50% metropolitan
1.6% 52% non-English as first language
70 languages spoken

Murders 62 per year
Smoking Banned in all bars and restaurants
Last Call 2:00 am
Vehiclas 3 idling allowed
Homeless 30% are Aboriginal persons
Homes \$500,000 average price

50% of regional land is developed of developed and is residential 84% of growth is outside of Vancouver City

Location 38 miles from Governance 21 municipalities 30% voter turnout of eligible voters 441 kg per capita

Households \$49,600 average
18,5% of income spent on transportation
Schools 36% children
Recreation 36% walk to school
Ski, hike, sail on same day

82 million tons of cargo 3 day average container dwell time Energy 220

49% ZZ% Hydroelectri 22% Gasoline 50% of that from goods & services

6.3% per capita reduction

6.3% per capi

Proof 872 international flights per week Fixed-rail rapid transit to downtown (2009) Climate Warmest city in Canar

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Carried Spinster



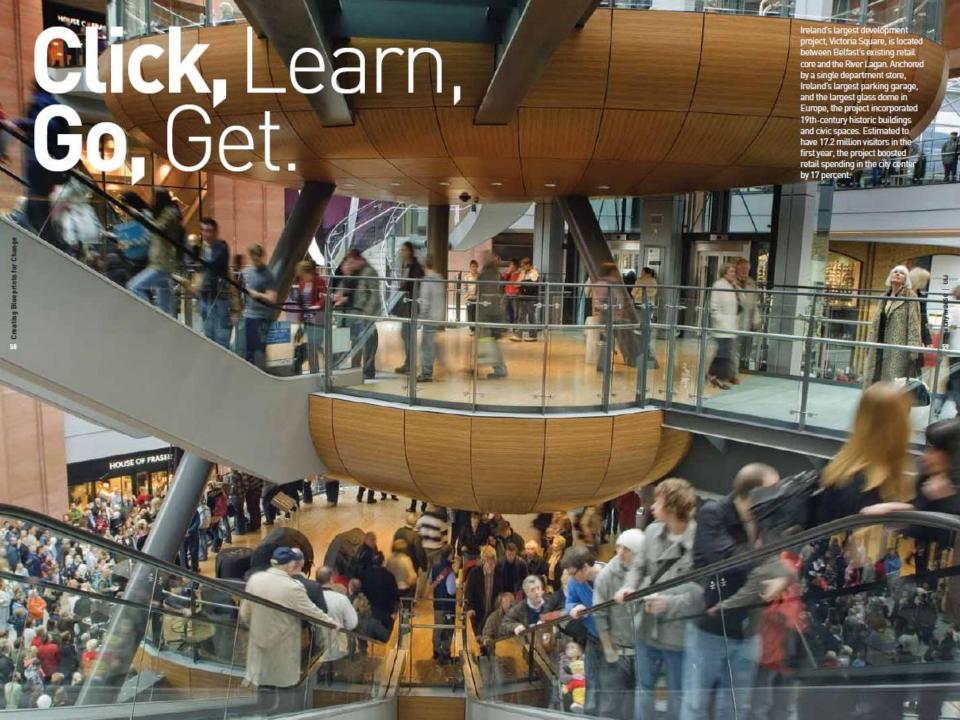






Full-Spectrum Housing







How will we live, work, and play in 2050?



I will balance my day job with volunteer work helping new immigrants living in the neighborhood.

I will be on the global medical research team for an international university consortium and travel to Abu Dhabi every six months for business strategy meetings.



Age 14

I will go on a student exchange program to Hyderabad, India.

I will live in the same suburban community my parents grew up in, but now we have another family living in the apartment above the garage. Age 36

I will share my apartment with two college students.

I will pick up vegetables from the community garden on my way back from the high-speed rail station.

I will have just completed my second PhD, thanks to my parents' wind energy income.



I will drop my son off at day-care and return home to work.

I will fly on a business trip once a year to participate in the global staff retreat.

I will spend weekends walking with my son down to the town center where his 110-year-old great grandmother lives. Age 6

I will retire and start a company that provides job re-training counseling.

I will work out of my garage, but conduct meetings at the neighborhood business center.

I will use my "wrist watch" to call the hydrogen-fueled personal mobility shuttle to get me to the golf course.



I will finally sell that old electric-hybrid jalopy to the automobile recycling center!

I will live in a mixedgeneration housing community that was developed in conjunction with the new regional clinic.

I will spend Wednesday afternoons with friends going on electric go-cart safaris in the regional park.

I will walk to school.

Gracias!

@uwebrandes