

# Future Energy



a new exhibit project at the  
Museum of Science and Industry, Chicago

# Future Energy

## CONTEXT

GOTO 2040:

- 50% reduction in CO<sub>2</sub> emissions
- improve regional quality of life,  
amidst increasing demand for energy

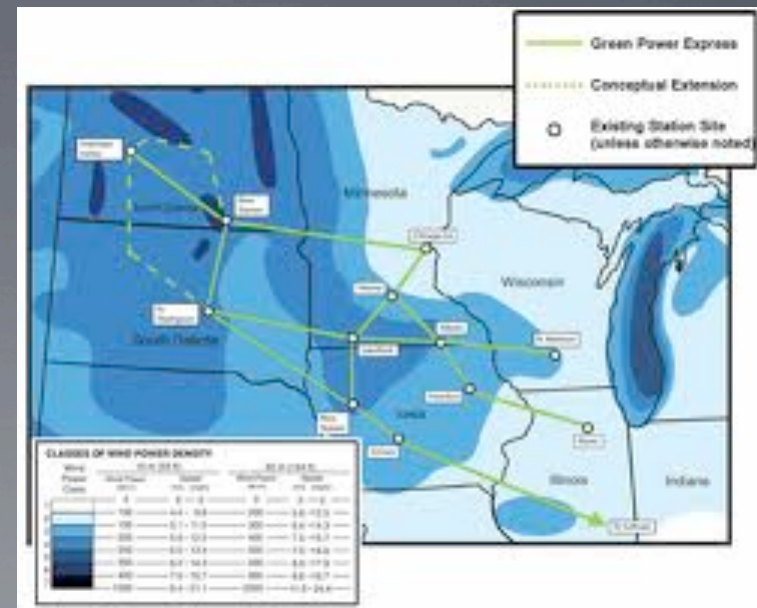
# Future Energy

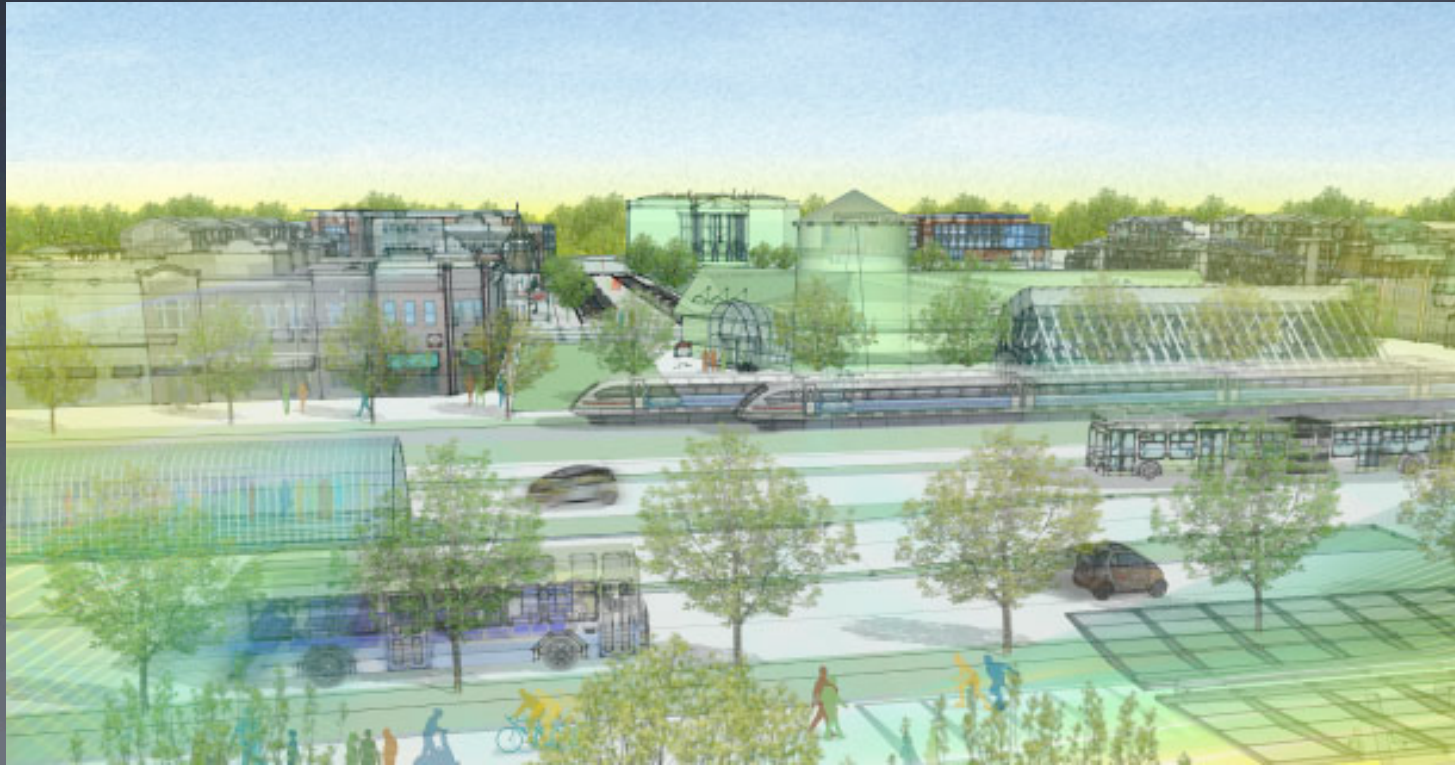
## DESIGN CRITERIA

- “ages 8-12”

Connect individual/local to regional/world energy stories

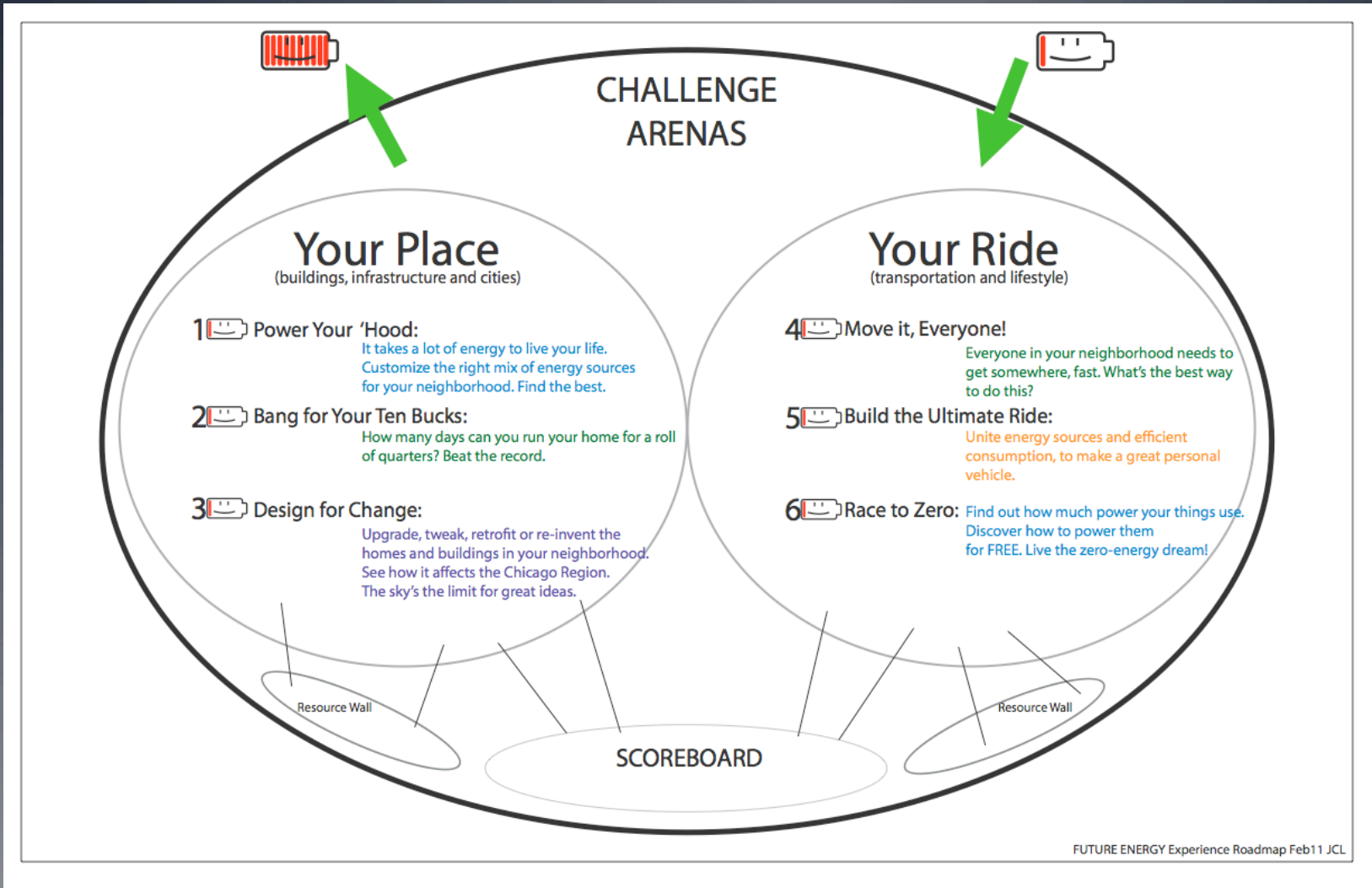
Foster Collaboration





# Buildings and Transport


# CONTEXT



# Your Place

(buildings, infrastructure and cities)

## TOPICS

**1**  **Power Your 'Hood:**  
 It takes a lot of energy to live your life.  
 Customize the right mix of energy sources  
 for your neighborhood. Find the best.


Energy Sources  
 Transmission  
 Demand

Nuclear  
 Coal  
 Natural Gas  
 Wind  
 storage

Solar  
 Waves/Tides  
 Geothermal

economies of  
 scale  
 Habits  
 Infrastructure  
 Pollution

trade-offs  
 innovation  
 game changers:  
 Nocera

**2**  **Bang for Your Ten Bucks:**  
 How many days can you run your home for a roll  
 of quarters? Beat the record.

Energy Sources  
 Transmission  
 Demand  
 Pollution


Habits  
 Infrastructure  
 Smart Grid

Petroleum  
 Natural Gas  
 Appliance  
 Heating Cooling/HVAC  
 Lighting/Daylighting  
 Electrical Efficiency

Fuel Embodied Energy  
 Emissions

How much energy every day things use

trade-offs  
 innovation  
 game changers

**3**  **Design for Change:**  
 Upgrade, tweak, retrofit or re-invent the  
 homes and buildings in your neighborhood.  
 See how it affects the Chicago Region.  
 The sky's the limit for great ideas.

Energy Sources  
 Transmission  
 Demand  
 Energy conservation

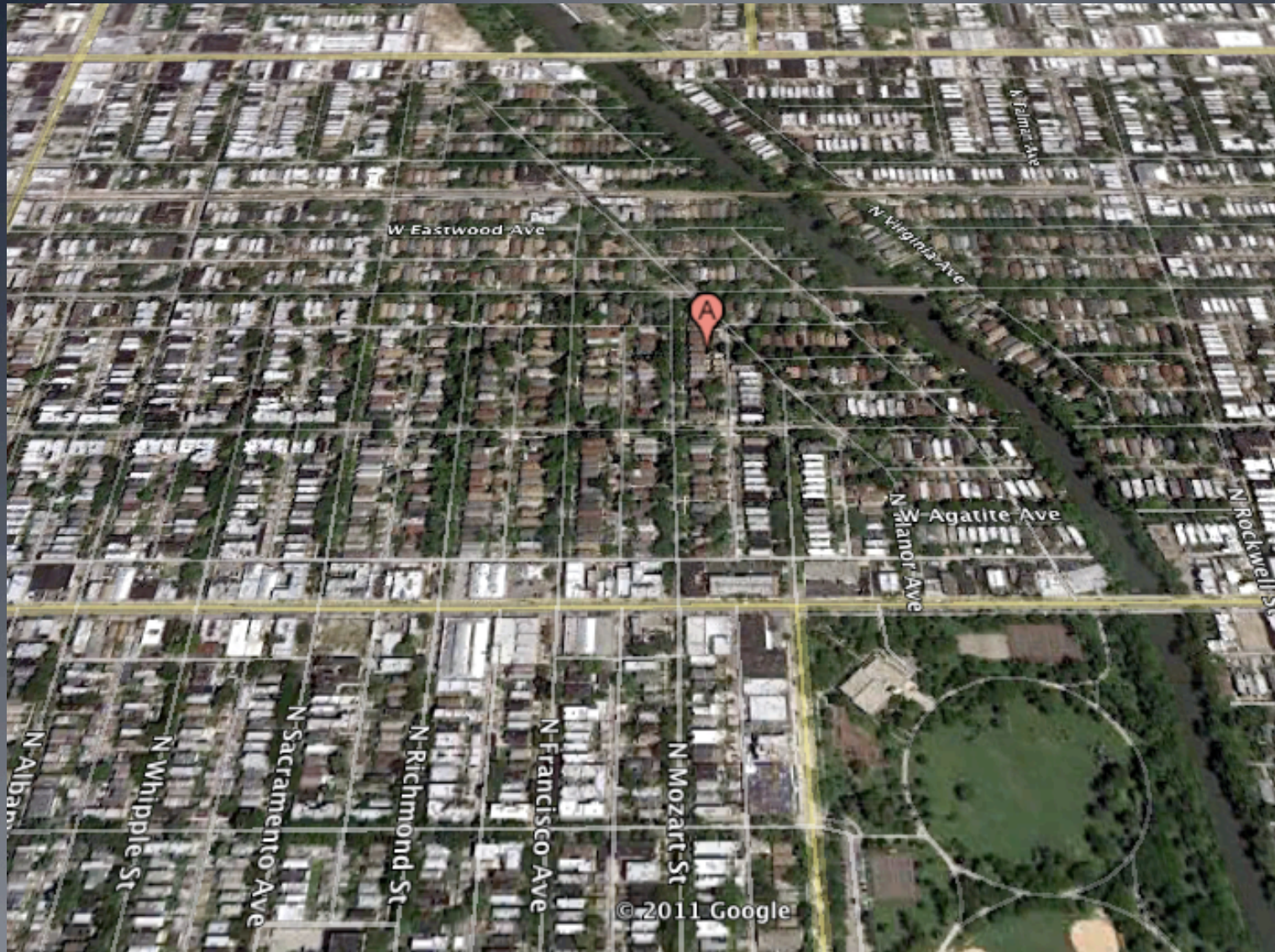
architecture  
 sociology  
 urban planning  
 density  
 own / share  
 building materials  
 weather  
 longevity  
 retrofitting  
 investments

trade-offs  
 innovation  
 game changers

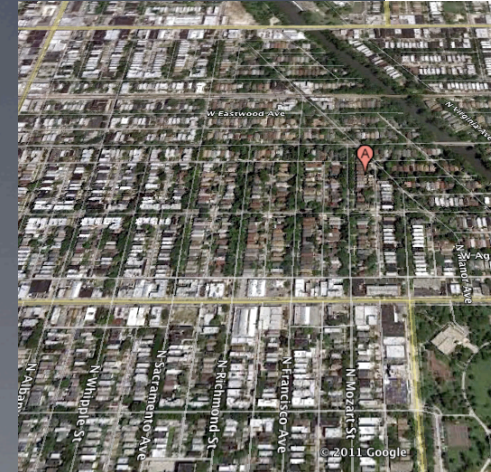
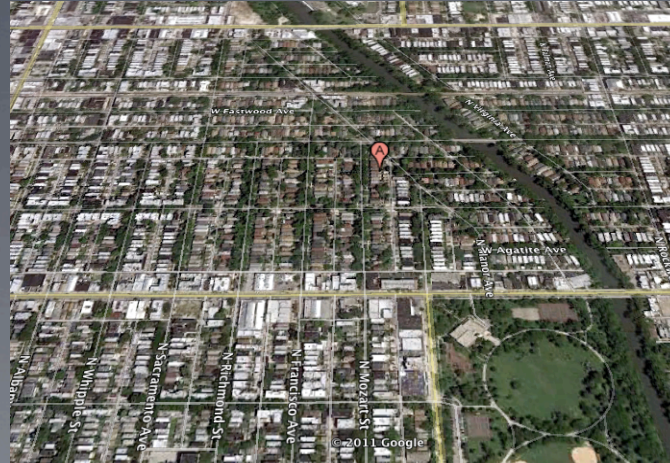
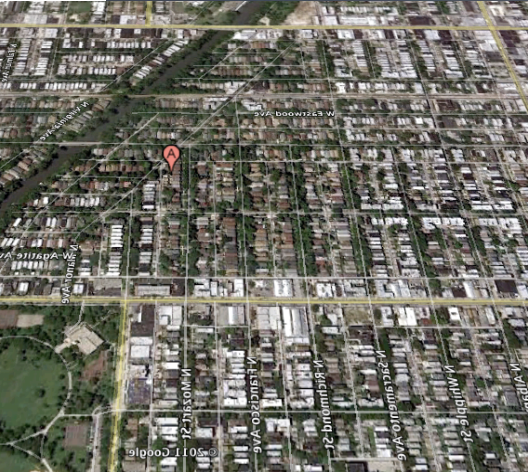
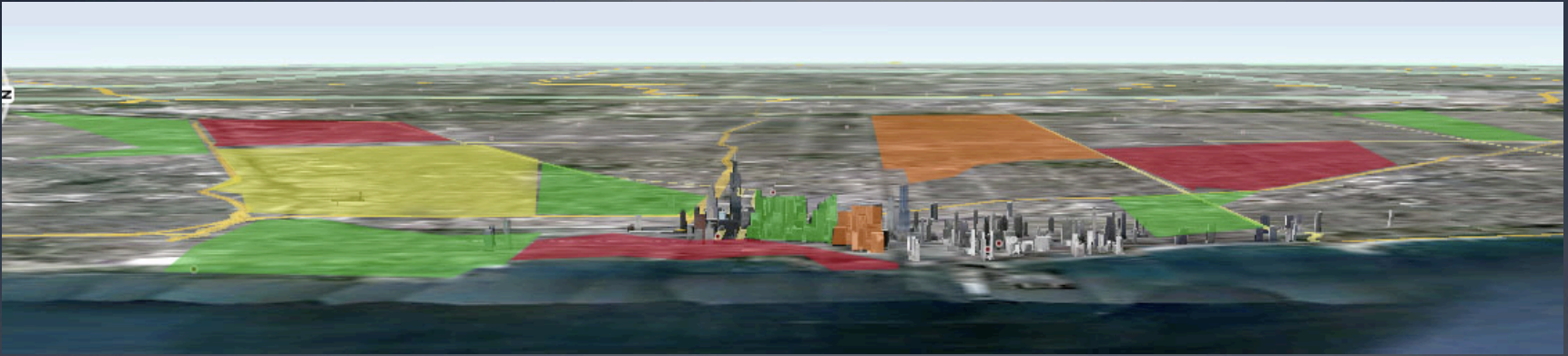
Recycling

Resource Wall

SCOREBOARD



Power Your 'Hood



Neighborhood Players  
add to the Regional Scoreboard



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